TACKLING ENVIRONMENTAL SPILLOVERS

GLOBAL COMMONS STEWARDSHIP INDEX 2022

SUSTAINABLE DEVELOPMENT SOLUTIONS NETWORK
A GLOBAL INITIATIVE FOR THE UNITED NATIONS

Yale Center for Environmental Law & Policy

CENTER FOR GLOBAL COMMONS

Acknowledgments

This report was prepared by the Sustainable Development Solutions Network (SDSN), Paris; the Yale Center for Environmental Law & Policy, New Haven, CT; and the Center for Global Commons at the University of Tokyo. The analysis and report production were undertaken by T. Reed Miller, Zachary A. Wendling, Salma Dahir, Eamon Drumm, and Akiyuki Kawasaki under the direction of Guillaume Lafortune, Daniel C. Esty, and Naoko Ishii.

Please cite this report as:

SDSN, Yale Center for Environmental Law & Policy, and Center for Global Commons at the University of Tokyo. 2023. *Global Commons Stewardship Index 2022*. Paris; New Haven, CT; and Tokyo.

We are grateful for statistical support, guidance, and inputs provided by researchers from the following organizations:

SDSN: Grayson Fuller, Max Gruber, Sara Kasim, and Ruben Andino

Yale University: Martin Wolf, Jad Bataha, Chanwook Park, Nicole Rodriguez, Nikolaus Plochmann, MJ Cyr-Ohngemach, and Brooke Mercaldi

University of Tokyo: Zhao Han

SYSTEMIQ: Guido Schmidt-Traub, Astrid von Preussen, Jakob Franke, and Felix Cornehl

Sea Around Us: Maria L.D. Palomares

Global Forest Watch: James MacCarthy

UN Environment Programme World Conservation Monitoring Centre: Jessica Vitale, Kelly Malsch, and Katia Sanchez-Ortiz

The report benefited from numerous comments and inputs provided during an online public consultation in October 2022. The authors are grateful for contributions and feedback provided by the Yale Center for Environmental Law & Policy, SYSTEMIQ, the World Resources Institute, the Potsdam Institute for Climate Impact Research, and the Institute for Future Initiatives at the University of Tokyo. The Center for Global Commons at the University of Tokyo provided financial support for this work.

The views expressed in this report do not reflect the views of any organizations, agencies, or programs of the United Nations.

Design and layout by Pica Publishing Ltd – www.pica-publishing.com

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Acronyms and Abbreviations

ASEAN	Association of Southeast Asian Nations
CBA	Consumption-Based Accounting
CITES	Convention on International Trade in Endangered Species of Wild Fauna and Flora
FAO	Food and Agriculture Organization of the United Nations
GCS	Global Commons Stewardship
GHG	Greenhouse gas
GLORIA	Global Resource Input-Output Assessment
HDI	Human Development Index
HIC	High Income Country
IPCC	Intergovernmental Panel on Climate Change
LAC	Latin America & the Caribbean
LIC	Low Income Country
LMIC	Lower Middle Income Country
MENA	Middle East & North Africa
MRIO	Multi-Regional Input-Output
N_2O	Nitrous oxide
NO_X	Nitrogen oxides
ODS	Ozone Depleting Substances
PBA	Production-Based Accounting
SDG	Sustainable Development Goals
SDSN	Sustainable Development Solutions Network
SO_2	Sulfur dioxide
UMIC	Upper Middle Income Country
UNDP	United Nations Development Programme

Executive summary

The Global Commons are increasingly at risk, and actions are needed now. This year's 2022 Global Commons Stewardship (GCS) Index (3rd edition) provides the latest information on countries' domestic and spillover impacts on the Global Commons. The GCS Index is part of a larger suite of instruments and reports prepared under the leadership of the Center for Global Commons at the University of Tokyo, in coöperation with SDSN, SYSTEMIQ, Potsdam Institute for Climate Impact Research, World Resources Institute, and the Yale Center for Environmental Law & Policy, to inform data and policy priorities to safeguard the Global Commons. The GCS Index report is conceived as the main statistical backbone of this work, which builds on and supports other conceptual and policy work in the consortium. This year's edition generates three major findings.

Rich countries bear major responsibilities for domestic and international spillover impacts on the Global Commons. The 2022 GCS Index emphasizes how unsustainable production systems – but also unsustainable consumption in high-income countries – drive negative impacts on the Global Commons. Rich countries obtain the poorest results in this year's Index. Overall, no country has successfully managed to achieve high levels of human development (measured, for instance, by GDP per capita or the Human Development Index) while fully mitigating their negative impacts on the environment. The G20 presidencies of India (2023), Brazil (2024), and South Africa (2025) can provide momentum for concerted global actions and further efforts to reduce negative impacts on the Global Commons in producing and consuming countries.

Spillover impacts on climate, the land biosphere, or the water cycle are driven by different economic sectors and commodities. Taking advantage of the latest advances in trade data, environmental research, and industrial ecology, the 2022 GCS Index provides detailed analyses of impacts embodied in international trade flows. Demand for clothes & textiles and construction materials drive most greenhouse gas (GHG) emissions spillovers. Deforestation spillovers are driven by demand for forestry & logging and cattle, and water stress spillovers are driven by demand for rice and cereals. The flows of environmental impacts embodied in trade vary across countries and regions, and this report provides additional features for 10 countries and entities, including major G20 economies. A more granular understanding of negative spillovers, as presented in this report, can support stronger multilateral, national, industrial, and corporate actions to safeguard the Global Commons.

Strong data systems at various levels – international, national, industrial, and corporate – are needed to monitor and curb negative impacts on the Global Commons. The adoption of comprehensive and ambitious policies to curb international spillovers requires strong data and information systems for effective implementation. The 2022 GCS Index relies on the latest advances in both scientific research and global analyses of international trade. Yet further work is needed to make the underlying data timelier, more comprehensive, and more granular – and to integrate these data systems into official national reporting and policies. The GCS Index identifies persisting data gaps and limitations to track negative international spillovers.

These results suggest that economic systems and national policy frameworks need to better incorporate the value of natural capital – and the costs of failing to protect it – and to address international spillovers. A companion report, "Tackling international spillovers – An overview of policy options," also prepared under the leadership of the Center for Global Commons at the University of Tokyo, provides a deep exploration of major priorities and policy options to curb negative spillovers.

Part 1.

THE 2022 GCS INDEX RESULTS

Part 1.

The 2022 GCS Index Results

The scientific evidence clearly warns us that the stability and resilience of the Earth systems on which human well-being, prosperity, and safety depend – our Global Commons – are in peril. The Global Commons include the climate system, ice sheets & glaciers, land biosphere, oceans, and the ozone layer. We need to transform our economic and social systems to safeguard these Global Commons domains, or we risk exceeding dangerous tipping points beyond which ecological damage may become self-reïnforcing and irreversible (Ishii et al., 2022). To avoid breaching these boundaries, decisionmakers need to take concerted action to drastically accelerate the progress made in some sectors and unlock positive feedback loops for transformation. The Center for Global Commons, together with the Potsdam Institute for Climate Impact Research, the SDSN, the Yale Center for Environmental Law & Policy, and SYSTEMIQ have joined forces since 2020 to set out an actionable, science-based framework and indicator set for stewardship of the Global Commons.

The Global Commons Stewardship (GCS) Index is one component of this Global Commons Stewardship Initiative. The GCS Index, published annually, is a composite of the latest breakthroughs in sustainability indicators and industrial ecology, focusing attention on how countries are affecting the Global Commons both within their borders and through transnational spillovers. Now in its 3rd edition, the GCS Index, along with its conceptual motivation and a detailed methodology, was first published by the OECD and the European Commission in an edited volume on understanding the public policy implications of spillover impacts (Lafortune et al., 2021). The metrics presented here are expected to empower policymakers and other stakeholders to prioritize environmental agendas, seek out innovative strategies for addressing threats, and track progress toward sustainability goals. Compared with other existing initiatives, we highlight countries' impacts on the Global Commons not only domestically but also internationally through consumption and trade, i.e., "spillover effects." The Index aims to inform actions to achieve major international agreements, including the Sustainable Development Goals (SDGs), the Paris Climate Change Agreement, and the Convention on Biological Diversity.

Focusing on the policy-relevant levers of change, the GCS Index tracks the *impacts* of countries on the Global Commons. It does not track the state of the Global Commons or the vulnerability of countries to threats like climate change. We categorize these impacts into six sub-pillars: Aerosol emissions, GHG emissions, biodiversity loss in Terrestrial and Marine biomes, and disruptions to the Water and Nutrient cycles. Two pillars further divide the indicators between those that measure impacts that occur entirely within territorial borders (Domestic) and those that measure impacts that cross boundaries (Spillover), as shown in Figure 1.

This section summarizes the results of the 2022 GCS Index. Results are presented in proportional terms (e.g., tonnes of CO_2 emissions per capita) and in absolute terms (e.g., tonnes of CO_2 emissions). These results emphasize the need for actions in all countries (including in smaller countries) but also the special responsibility of large economies, including China, the European Union, India, the United States, and other G20 countries, to lead these transformations, especially considering their large absolute impacts on the Global Commons. For the first time, the 2022 GCS Index provides overall scores aggregating the domestic and spillover scores into one single GCS Index score. Finally, we discuss the relationship between the 2022 GCS Index and other socio-economic measures and across regions.

Figure 1.
Conceptual framework of pillars and sub-pillars within the 2022 Global Commons Stewardship Index

1.1. Understanding spillover effects in global supply chains

Environmental impacts associated with production and consumption patterns within a country can be measured with two major accounting methods (Peters & Hertwich, 2008): production-based accounting (PBA) or consumption-based accounting (CBA). PBA captures impacts that occur within a country's boundaries, whether due to the production or use of products. CBA provides an alternative framework, going beyond domestic use to also capture impacts all along the supply chains of goods and services imported for final demand. The first panel of Figure 2 depicts these accounting frameworks.

In Figure 2a, the circle on the left includes all negative impacts attributable to domestic production, with the blue portion representing spillover impacts embodied in exports. The circle on the right includes all negative impacts embodied in domestic final demand, with the red portion representing spillover impacts embodied in imports. Both methods include use-phase emissions associated with households and government consumption, e.g., tailpipe emissions from driving personal vehicles or combustion emissions from home heating and cooking, as well as investment in fixed capital assets.

Figure 2b illustrates that all country metrics included in the Domestic pillar of the GCS Index are based on PBA, whereas the Spillover pillar augments these metrics with additional data on negative impacts embodied in imported goods and services to each country, derived from CBA calculations.

Figure 2.
Incorporation of accounting frameworks into the GCS Index pillars

Figure 3.
Illustration of environmental impacts embodied in international trade

Supply chains can stretch through multiple countries, and spillover impacts accumulate as they become embodied at multiple steps of the journey to the country of final destination. Figure 3 illustrates a simplified example with three countries. The water stress in Country A and the air emissions in Country B count as *domestic* impacts within those countries. Because Country C is where final demand occurs, these impacts both count as *spillovers* in Country C. Spillovers thus include more impacts than those only embodied in the last leg of the supply chain. In this report, transport is treated as a stand-alone service. Incorporating impacts from transportation in importing countries (Country C) requires additional layers of modeling, which make such estimates less certain. In coming years, the authors will continue to strengthen these estimates, building on future advances in Multi-Regional Input-Output (MRIO) modeling.

1.2. Proportional results

To fairly compare countries with different sizes, we present the results for the GCS Index using proportional versions of our indicators, usually denominated by population. Table 1 presents proportional scores on the 2022 GCS Index, overall and within the Domestic and Spillover pillars. In addition to rankings and scores, we also provide dashboard ratings to highlight how close countries are to sustainability thresholds and arrows showing whether countries are projected to meet these thresholds in the future. Countries in Table 1 are sorted from greatest overall proportional impacts on the Global Commons to least, i.e., lowest score to highest.

Dashboard	Score	Impacts on the Global Commons
	95–100	None or limited
	90–95	Low
	80–90	Medium-low
	70–80	Medium-high
	50–70	High
	30–50	Very high
	0–30	Extreme

Arrow	Meaning
↑	Projected to meet 2050 threshold
↗	Projected to meet 2030 threshold only
→	Insufficient progress toward threshold
↓	Headed in wrong direction

Concurrently achieving human development and environmental sustainability remains a challenge for all countries. Tables 1 and 2 contextualize relative impacts in the GCS Index by also listing per capita GDP and levels on the Human Development Index (HDI) (UNDP, 2022), which are classified as Very High (HDI ≥ 0.80), High (0.80 > HDI ≥ 0.70), Medium (0.70 > HDI ≥ 0.55), and Low (HDI < 0.55).

Dashboard	Value	Human Development Index categories
	0.8–1.0	Very High
	0.7–0.8	High
	0.55–0.7	Medium
	0–0.55	Low

No country obtains both a high GCS Index score and a favorable HDI score, which means that all countries should make progress in reconciling environmental progress and human prosperity. High Income Countries (HICs) and Upper Middle Income Countries (UMICs) have the greatest impacts on the Global Commons, and reducing these impacts requires transitioning away from unsustainable production and consumption patterns. By contrast, Low Income Countries (LICs) and Lower Middle Income Countries (LMICs) tend to have relatively lower negative impacts on the Global Commons but face serious socio-economic challenges, including high poverty rates and low access to key infrastructure, including health and education. The high Index scores of LICs and LMICs are largely driven by very low levels of consumption, production, and human prosperity.

Table 1.
2022 GCS Index results in Proportional terms

COUNTRY	OVERALL Rating	OVERALL Score	OVERALL Arrow	DOMESTIC Rating	DOMESTIC Score	DOMESTIC Arrow	SPILLOVER Rating	SPILLOVER Score	SPILLOVER Arrow	GDP per capita	HDI Value	HDI Category
Qatar	0–30	2.0	→	0–30	2.6	↗	0–30	1.5	↓	85,266	0.855	0.8–1.0
Brunei Darussalam	0–30	2.1	→	0–30	2.6	→	0–30	1.7	→	62,244	0.829	0.8–1.0
Kuwait	0–30	3.8	→	0–30	3.3	→	0–30	4.4	↓	44,847	0.831	0.8–1.0
United Arab Emirates	0–30	3.9	→	0–30	2.4	→	0–30	6.2	→	63,299	0.911	0.8–1.0
Luxembourg	0–30	5.2	→	0–30	18.0	→	0–30	1.5	→	110,261	0.930	0.8–1.0
Singapore	0–30	6.0	→	30–50	33.7	→	0–30	1.1	→	93,397	0.939	0.8–1.0
Australia	0–30	6.1	→	0–30	2.1	→	0–30	17.7	→	48,698	0.951	0.8–1.0
Ireland	0–30	8.0	→	30–50	31.0	→	0–30	2.0	↓	90,625	0.945	0.8–1.0
Bahrain	0–30	8.6	→	0–30	6.5	→	0–30	11.2	↓	40,933	0.875	0.8–1.0
Iceland	0–30	9.5	↓	30–50	30.2	↓	0–30	3.0	↓	52,381	0.959	0.8–1.0
Oman	0–30	9.6	→	0–30	4.1	→	0–30	22.8	→	29,502	0.816	0.8–1.0
Belgium	0–30	11.6	→	30–50	34.1	→	0–30	4.0	↓	48,210	0.937	0.8–1.0
Canada	0–30	11.7	→	0–30	7.1	→	0–30	19.2	→	45,900	0.936	0.8–1.0
Finland	0–30	12.5	→	0–30	11.9	→	0–30	13.1	→	47,167	0.940	0.8–1.0
Switzerland	0–30	12.8	→	50–70	61.6	→	0–30	2.6	→	68,753	0.962	0.8–1.0
Norway	0–30	13.2	→	0–30	15.7	→	0–30	11.1	→	63,584	0.961	0.8–1.0
Netherlands	0–30	13.4	→	30–50	33.3	→	0–30	5.4	→	54,326	0.941	0.8–1.0
Saudi Arabia	0–30	13.8	→	0–30	10.1	→	0–30	18.7	→	44,328	0.875	0.8–1.0
New Zealand	0–30	15.1	→	0–30	13.6	→	0–30	16.7	→	42,404	0.937	0.8–1.0
Denmark	0–30	16.2	→	30–50	34.1	→	0–30	7.7	↓	55,820	0.948	0.8–1.0
United States	0–30	18.2	→	0–30	13.9	→	0–30	23.7	↓	59,909	0.921	0.8–1.0
Estonia	0–30	18.7	→	0–30	19.4	→	0–30	18.1	↓	35,215	0.890	0.8–1.0
Austria	0–30	20.7	→	30–50	32.8	→	0–30	13.1	↓	52,120	0.916	0.8–1.0
South Korea	0–30	21.7	↓	30–50	31.8	→	0–30	14.8	↓	42,251	0.925	0.8–1.0
Mongolia	0–30	23.1	→	0–30	10.2	↓	50–70	52.2	→	11,471	0.739	0.7–0.8
Israel	0–30	23.7	→	30–50	42.0	→	0–30	13.4	↓	38,341	0.919	0.8–1.0
Sweden	0–30	23.7	→	30–50	32.9	→	0–30	17.1	→	51,003	0.947	0.8–1.0
Lithuania	0–30	23.8	↓	30–50	34.7	↓	0–30	16.4	↓	36,732	0.875	0.8–1.0
Kazakhstan	0–30	24.4	→	0–30	15.8	→	30–50	37.6	→	25,337	0.811	0.8–1.0
Germany	0–30	25.7	→	30–50	36.2	→	0–30	18.3	→	51,374	0.942	0.8–1.0
Malta	0–30	26.8	→	50–70	64.6	→	0–30	11.2	↓	39,222	0.918	0.8–1.0
Slovenia	0–30	27.9	→	30–50	39.1	→	0–30	20.0	↓	37,091	0.918	0.8–1.0
Czechia	0–30	28.7	↓	0–30	28.5	→	0–30	28.9	↓	38,509	0.889	0.8–1.0
Cyprus	0–30	28.7	↓	30–50	44.3	↓	0–30	18.6	↓	27,885	0.896	0.8–1.0
Latvia	0–30	29.1	↓	30–50	37.9	→	0–30	22.4	↓	29,932	0.863	0.8–1.0
European Union	0–30	29.4	↓	30–50	37.3	↓	0–30	23.1	↓	41,721	0.903	0.8–1.0
Japan	30–50	30.1	→	30–50	43.2	→	0–30	21.0	→	39,716	0.925	0.8–1.0
Slovakia	30–50	30.2	↓	30–50	39.9	↓	0–30	22.8	↓	30,330	0.848	0.8–1.0
Russia	30–50	30.4	→	0–30	16.5	→	50–70	56.0	↗	26,895	0.822	0.8–1.0
Greece	30–50	31.0	→	30–50	33.1	→	0–30	29.1	→	27,287	0.887	0.8–1.0

Ratings
Negative impacts on the Global Commons

- 95–100 None or limited
- 90–95 Low
- 80–90 Medium-low
- 70–80 Medium-high
- 50–70 High
- 30–50 Very high
- 0–30 Extreme

Arrows
Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in the wrong direction

HDI category
Classification on the Human Development Index

- 0.8–1.0 Very high
- 0.7–0.8 High
- 0.55–0.7 Medium
- 0–0.55 Low

Table 1.
(Continued)

COUNTRY	OVERALL Rating	OVERALL Score	OVERALL Arrow	DOMESTIC Rating	DOMESTIC Score	DOMESTIC Arrow	SPILLOVER Rating	SPILLOVER Score	SPILLOVER Arrow	GDP per capita	HDI Value	HDI Category
United Kingdom		32.2	→		42.2	→		24.7	→	41,606	0.929	
Croatia		32.6	↓		33.4	→		31.9	↓	26,465	0.858	
Malaysia		32.7	→		30.4	→		35.1	→	26,435	0.803	
Gabon		34.0	→		19.8	→		58.6	→	14,400	0.706	
Italy		34.1	→		44.3	→		26.3	→	38,992	0.895	
Uruguay		34.3	→		25.3	→		46.6	↗	21,608	0.809	
Spain		34.5	→		40.7	→		29.3	↓	36,220	0.905	
Botswana		34.8	→		46.5	→		26.0	→	16,040	0.693	
France		34.8	→		48.2	→		25.1	→	42,289	0.903	
Poland		35.4	↓		30.8	→		40.5	↓	32,238	0.876	
Belarus		35.7	→		31.5	→		40.5	→	19,148	0.808	
Chile		36.1	→		36.4	→		35.8	→	23,325	0.855	
Portugal		36.5	→		48.0	→		27.7	↓	32,178	0.866	
Hungary		37.0	↓		39.7	↓		34.5	↓	31,008	0.846	
Iran		39.6	→		29.4	→		53.4	↓	12,433	0.774	
Bulgaria		40.2	↓		35.2	↓		45.9	↓	22,384	0.795	
Namibia		41.0	→		54.1	→		31.0	→	8,894	0.615	
Azerbaijan		41.6	→		37.0	→		46.7	→	13,700	0.745	
Bhutan		42.1	→		36.9	→		48.0	→	10,909	0.666	
Jordan		42.9	↗		68.4	↗		26.9	→	9,817	0.720	
Bosnia & Herzegovina		43.3	↓		33.9	↓		55.2	↓	14,340	0.780	
Thailand		43.7	→		35.5	→		53.7	→	17,287	0.800	
Lebanon		44.4	→		58.9	→		33.4	→	11,649	0.706	
Paraguay		44.5	→		32.3	↓		61.3	→	12,335	0.717	
Belize		45.5	→		35.7	→		58.1	→	6,120	0.683	
Argentina		45.7	→		32.6	→		64.3	→	19,687	0.842	
Iraq		45.8	→		38.5	→		54.5	→	9,255	0.686	
South Africa		46.0	→		31.2	→		68.0	↗	11,466	0.713	
Mexico		47.0	→		40.1	→		55.1	↓	17,888	0.758	
Romania		48.2	↓		49.9	↓		46.6	↓	28,833	0.821	
Turkey		48.4	→		47.6	→		49.2	→	28,385	0.838	
Brazil		48.4	→		33.1	→		70.8	→	14,064	0.754	
Georgia		49.1	→		55.3	→		43.7	→	14,089	0.802	
North Macedonia		49.2	→		53.3	↓		45.5	→	15,848	0.770	
Ecuador		49.5	→		42.0	→		58.4	→	10,329	0.740	
Panama		49.7	→		53.3	→		46.3	→	25,382	0.805	
China		49.8	↓		36.0	→		68.9	↓	16,411	0.768	
Venezuela		50.6	↗		51.2	↗		50.0	↗	8,399	0.691	
El Salvador		50.7	→		73.8	→		34.8	→	8,057	0.675	
Congo, Republic of		50.9	→		41.9	→		62.0	→	3,449	0.571	
Vietnam		51.4	↓		43.8	↓		60.2	↓	8,200	0.703	
Armenia		51.4	→		70.2	→		37.7	→	12,593	0.759	
Colombia		52.0	→		39.7	→		68.0	→	13,441	0.752	
Moldova		52.5	→		57.6	↓		47.9	→	12,325	0.767	
Ukraine		52.6	→		50.7	→		54.6	→	11,707	0.773	
Costa Rica		53.2	↓		58.9	→		48.1	↓	19,679	0.809	
Algeria		53.4	→		43.1	→		66.2	↗	10,682	0.745	
Cuba		55.0	→		47.3	→		63.9	→	24,668	0.764	
Dominican Republic		55.0	→		54.0	→		56.0	→	17,003	0.767	
Bolivia		55.4	→		41.7	→		73.6	→	7,932	0.692	
Tunisia		56.0	→		49.9	→		62.7	→	9,728	0.731	
Laos		57.3	→		46.7	↓		70.4	→	7,806	0.607	
Peru		59.0	→		54.3	→		64.1	↓	11,261	0.762	
Jamaica		59.1	→		63.3	→		55.2	→	8,742	0.709	
Indonesia		59.1	→		43.8	→		79.9	→	11,445	0.705	

Table 1.
(Continued)

COUNTRY	OVERALL Rating	OVERALL Score	OVERALL Arrow	DOMESTIC Rating	DOMESTIC Score	DOMESTIC Arrow	SPILLOVER Rating	SPILLOVER Score	SPILLOVER Arrow	GDP per capita	HDI Value	HDI Category
Albania		59.8	→		65.7	→		54.4	→	13,295	0.796	
Guatemala		59.9	→		52.1	→		69.0	→	8,393	0.627	
Uzbekistan		60.8	→		47.8	→		77.3	→	6,994	0.727	
Egypt		62.8	→		55.0	→		71.6	→	11,951	0.731	
Sri Lanka		63.7	→		66.6	→		61.0	↓	12,537	0.782	
Philippines		64.7	↓		59.4	→		70.5	↓	7,954	0.699	
Zimbabwe		65.9	→		55.6	→		78.0	→	2,745	0.593	
Honduras		68.0	→		68.0	↗		68.0	→	5,138	0.621	
Cambodia		68.4	→		56.5	→		82.9	→	4,192	0.593	
Angola		68.8	↗		62.8	↗		75.5	↗	6,198	0.586	
Nigeria		69.1	→		49.3	→		96.7	↗	4,917	0.535	
Ghana		69.5	→		63.1	→		76.5	→	5,305	0.632	
Myanmar		70.0	↓		53.1	↓		92.3	↓	4,544	0.585	
Mauritania		70.1	→		65.7	→		74.9	↗	4,983	0.556	
India		70.2	→		51.8	↓		95.0	→	6,118	0.633	
Morocco		71.5	→		72.2	→		70.7	→	7,028	0.683	
Côte d'Ivoire		71.6	→		64.2	→		79.8	↓	5,174	0.550	
Nicaragua		71.8	→		67.1	→		76.7	↗	5,280	0.667	
Haiti		72.6	→		67.7	→		77.9	↓	2,773	0.535	
Nepal		73.0	↓		74.9	↓		71.1	↓	3,800	0.602	
Kyrgyzstan		74.6	→		61.9	→		90.0	→	4,707	0.692	
Guinea		74.9	→		66.6	→		84.2	↓	2,671	0.465	
Papua New Guinea		75.4	→		80.8	→		70.4	↗	4,101	0.558	
Cameroon		76.2	↗		62.2	→		93.4	↗	3,576	0.576	
Tajikistan		76.3	↗		69.6	→		83.8	↑	3,658	0.685	
Zambia		76.8	→		66.3	→		89.0	↗	3,270	0.565	
Mozambique		77.3	↗		68.1	→		87.8	↗	1,229	0.446	
Kenya		77.8	→		76.9	→		78.7	→	4,220	0.575	
Pakistan		78.0	→		61.3	→		99.3	→	4,623	0.544	
Liberia		78.0	→		62.2	→		97.9	→	1,354	0.481	
Chad		78.9	→		62.3	→		99.9	↗	1,520	0.394	
Uganda		80.7	↗		66.5	→		97.9	↑	2,178	0.525	
Senegal		82.0	→		84.0	→		80.0	→	3,300	0.511	
Tanzania		82.7	↗		69.3	→		98.9	↑	2,558	0.549	
Somalia		84.5	↗		71.4	→		100.0	↗	1,444	NA	
Benin		85.2	→		85.2	→		85.2	→	3,323	0.525	
Central African Republic		85.4	→		80.2	→		91.0	↓	929	0.404	
Madagascar		87.4	→		78.0	→		97.8	↗	1,510	0.501	
Bangladesh		87.8	→		88.2	↓		87.4	→	4,818	0.661	
Eritrea		89.2	→		79.7	→		99.9	→	3,004	0.492	
Ethiopia		89.5	→		80.2	→		99.8	↓	2,297	0.498	
Mali		89.6	→		82.9	→		96.8	↓	2,217	0.428	
Malawi		89.6	→		82.5	→		97.3	→	1,487	0.512	
Burkina Faso		90.5	→		83.8	→		97.8	→	2,161	0.449	
Congo, Dem. Rep.		90.7	→		86.3	→		95.4	↓	1,072	0.479	
Togo		91.5	→		86.5	→		96.7	↗	2,108	0.539	
Sierra Leone		91.6	↗		86.4	→		97.2	↗	1,648	0.477	
Gambia		92.2	→		87.4	↗		97.3	→	2,159	0.500	
Rwanda		92.5	→		92.9	→		92.0	→	2,099	0.534	
Niger		92.5	→		87.3	→		98.1	→	1,197	0.400	
Burundi		93.8	↗		88.5	→		99.4	↗	731	0.426	

Note: Countries are sorted by Overall score from lowest (greatest negative impact on the Global Commons) to highest. Index results are contextualized by GDP per capita and Human Development Index (HDI) values.
Sources: GDP (constant 2017 US$, PPP) and population from the World Bank DataBank; Human Development Index (HDI) from the UN Development Programme (2022).

1.3. Absolute results

While all countries have a shared responsibility for safeguarding the Global Commons, absolute impacts vary considerably around the world. In contrast to proportional impacts, usually denominated by population for cross-country comparisons, absolute results focus on total impacts of countries. Large countries and economies have larger absolute impacts on the Global Commons and a special responsibility to take decisive actions. Table 2 lists scores for the countries in the 2022 GCS Index, overall and by sub-pillar, in absolute terms, and countries are sorted from greatest overall absolute impacts on the Global Commons to least, i.e., lowest overall score to highest. Generally, the countries with the highest absolute impacts are among the world's largest, by either population or GDP, with all members of the G7 obtaining among the poorest scores.

The five countries with the worst impacts are the United States, China, India, Russia, and Japan – joined by the EU27. To illustrate the out-sized influence large countries have on the Global Commons, these bottom five entities are responsible, domestically, for 58% of GHG emissions, 51% of forest cover loss, and 61% of water stress in the entire world, in the most recent years for which we have data. In terms of spillover impacts embodied in traded goods and services, they are responsible for 52% of GHG emissions, 52% of forest cover loss, and 36% of water stress. Attention to absolute impacts can help prioritize countries with negative domestic activities and the leading trade partners with whom smaller countries share responsibility for spillovers.

Table 2.
2022 GCS Index results in Absolute terms

COUNTRY	OVERALL Rating	OVERALL Score	OVERALL Arrow	DOMESTIC Rating	DOMESTIC Score	DOMESTIC Arrow	SPILLOVER Rating	SPILLOVER Score	SPILLOVER Arrow	GDP per capita	HDI Value	HDI Category
United States	Extreme	1.4	↓	Extreme	1.8	→	Extreme	1.1	↓	59,909	0.921	Very high
China	Extreme	1.6	↓	Extreme	2.4	↓	Extreme	1.1	↓	16,411	0.768	Medium
European Union	Extreme	1.8	↓	Extreme	3.3	↓	Extreme	1.0	↓	41,721	0.903	Very high
India	Extreme	7.1	↓	Extreme	2.6	↓	Extreme	19.3	↓	6,118	0.633	Low
Russia	Extreme	14.0	→	Extreme	6.2	→	Very high	31.4	→	26,895	0.822	Very high
Japan	Extreme	16.5	→	Extreme	24.2	→	Extreme	11.3	→	39,716	0.925	Very high
Indonesia	Extreme	19.1	→	Extreme	10.1	↓	Very high	36.2	→	11,445	0.705	Medium
Brazil	Extreme	19.5	→	Extreme	11.1	→	Very high	34.2	→	14,064	0.754	Medium
Germany	Extreme	20.6	→	Extreme	25.0	→	Extreme	16.9	↓	51,374	0.942	Very high
Canada	Extreme	23.4	→	Extreme	17.2	→	Very high	31.6	→	45,900	0.936	Very high
Australia	Extreme	23.8	→	Extreme	14.9	→	Very high	37.9	→	48,698	0.951	Very high
Mexico	Extreme	25.4	↓	Extreme	19.5	→	Very high	33.1	↓	17,888	0.758	Medium
United Kingdom	Extreme	26.4	→	Extreme	28.2	→	Extreme	24.8	→	41,606	0.929	Very high
South Korea	Extreme	27.1	↓	Very high	30.6	↓	Extreme	24.0	↓	42,251	0.925	Very high
Iran	Extreme	27.4	→	Extreme	19.0	→	Very high	39.5	↓	12,433	0.774	Medium
Saudi Arabia	Extreme	29.2	→	Extreme	25.2	→	Very high	33.8	→	44,328	0.875	Very high
France	Extreme	29.3	→	Very high	34.3	→	Extreme	25.0	↓	42,289	0.903	Very high
Italy	Extreme	29.5	→	Very high	32.4	→	Extreme	26.9	→	38,992	0.895	Very high
Vietnam	Very high	32.0	↓	Extreme	26.3	↓	Very high	38.9	↓	8,200	0.703	Medium
Nigeria	Very high	32.4	→	Extreme	19.9	↓	High	52.6	→	4,917	0.535	Low
Spain	Very high	33.6	↓	Very high	33.2	→	Very high	34.0	↓	36,220	0.905	Very high
Thailand	Very high	33.7	→	Extreme	26.8	→	Very high	42.4	→	17,287	0.800	Very high
Turkey	Very high	34.0	↓	Very high	31.5	↓	Very high	36.7	↓	28,385	0.838	Very high
United Arab Emirates	Very high	35.7	→	Extreme	27.2	→	Very high	46.9	→	63,299	0.911	Very high
Malaysia	Very high	36.5	→	Very high	30.2	→	Very high	44.1	→	26,435	0.803	Very high
Poland	Very high	37.0	→	Very high	30.7	→	Very high	44.6	↓	32,238	0.876	Very high
South Africa	Very high	37.1	→	Extreme	25.2	→	High	54.5	→	11,466	0.713	Medium
Philippines	Very high	38.3	↓	Very high	31.9	→	Very high	46.0	↓	7,954	0.699	Low
Netherlands	Very high	38.6	→	Very high	41.1	→	Very high	36.1	→	54,326	0.941	Very high
Egypt	Very high	38.6	→	Very high	31.0	→	Very high	48.0	→	11,951	0.731	Medium
Pakistan	Very high	38.7	→	Extreme	26.8	↓	High	55.7	→	4,623	0.544	Extreme
Kazakhstan	Very high	38.9	→	Extreme	27.6	→	High	54.8	→	25,337	0.811	Very high
Colombia	Very high	39.6	→	Extreme	27.5	→	High	57.0	→	13,441	0.752	Medium
Argentina	Very high	41.5	→	Very high	30.5	→	High	56.6	→	19,687	0.842	Very high
Bangladesh	Very high	43.3	→	Very high	37.7	↓	Very high	49.7	→	4,818	0.661	Low
Algeria	Very high	43.6	→	Very high	32.4	→	High	58.7	↗	10,682	0.745	Medium
Iraq	Very high	44.6	→	Very high	36.9	→	High	53.9	→	9,255	0.686	Low
Ukraine	Very high	44.7	→	Very high	39.7	→	High	50.4	→	11,707	0.773	Medium
Norway	Very high	46.2	→	Very high	35.7	→	High	59.6	→	63,584	0.961	Very high
Belgium	Very high	46.4	→	Very high	50.0	→	Very high	43.0	→	48,210	0.937	Very high

Ratings
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Arrows
Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in the wrong direction

HDI category
Classification on the Human Development Index

0.8–1.0	Very high
0.7–0.8	High
0.55–0.7	Medium
0–0.55	Low

Table 2.
(Continued)

COUNTRY	OVERALL Rating	OVERALL Score	OVERALL Arrow	DOMESTIC Rating	DOMESTIC Score	DOMESTIC Arrow	SPILLOVER Rating	SPILLOVER Score	SPILLOVER Arrow	GDP per capita	HDI Value	HDI Category
Qatar		46.8	→		36.0	↗		60.8	→	85,266	0.855	
Chile		46.9	→		41.0	→		53.7	→	23,325	0.855	
Kuwait		48.6	→		39.7	→		59.4	↓	44,847	0.831	
Singapore		49.7	→		57.3	→		43.1	→	93,397	0.939	
Sweden		49.7	→		47.3	→		52.3	→	51,003	0.947	
Venezuela		49.9	↗		44.0	↗		56.6	↗	8,399	0.691	
Austria		50.3	→		48.2	→		52.6	→	52,120	0.916	
Myanmar		50.6	↓		35.8	↓		71.5	↓	4,544	0.585	
Czechia		50.6	→		43.8	→		58.5	→	38,509	0.889	
Peru		51.1	→		42.2	→		61.9	↓	11,261	0.762	
Oman		51.1	→		38.5	→		67.8	→	29,502	0.816	
Greece		51.2	→		45.0	→		58.2	→	27,287	0.887	
Ecuador		51.5	→		38.6	→		68.7	→	10,329	0.740	
Denmark		51.7	→		50.5	→		52.9	→	55,820	0.948	
Israel		52.3	→		51.7	→		53.0	↓	38,341	0.919	
New Zealand		52.4	→		42.2	→		65.1	→	42,404	0.937	
Uzbekistan		52.6	→		39.5	→		70.0	→	6,994	0.727	
Romania		53.4	→		48.3	↓		59.1	→	28,833	0.821	
Ethiopia		53.5	↓		38.6	→		74.3	↓	2,297	0.498	
Kenya		54.4	↓		47.6	↓		62.3	↓	4,220	0.575	
Azerbaijan		54.4	→		42.0	→		70.5	→	13,700	0.745	
Hungary		55.1	→		48.0	→		63.3	→	31,008	0.846	
Ireland		55.8	→		55.0	→		56.7	↓	90,625	0.945	
Switzerland		55.9	→		65.6	→		47.6	→	68,753	0.962	
Belarus		55.9	→		46.2	→		67.6	→	19,148	0.808	
Angola		56.9	↗		46.5	→		69.7	↗	6,198	0.586	
Ghana		57.1	↓		46.0	↓		70.8	→	5,305	0.632	
Portugal		57.5	→		55.8	→		59.2	→	32,178	0.866	
Finland		57.5	→		54.5	→		60.7	→	47,167	0.940	
Sri Lanka		57.8	→		50.6	→		66.0	↓	12,537	0.782	
Morocco		58.9	→		54.1	→		64.1	→	7,028	0.683	
Côte d'Ivoire		60.5	↓		48.4	→		75.6	↓	5,174	0.550	
Slovakia		60.7	→		55.8	→		66.0	↓	30,330	0.848	
Guatemala		60.8	→		48.9	→		75.7	→	8,393	0.627	
Bulgaria		61.1	→		49.6	→		75.3	→	22,384	0.795	
Jordan		61.2	↗		63.8	↗		58.6	↗	9,817	0.720	
Congo, Dem. Rep.		61.3	↓		52.5	→		71.6	↓	1,072	0.479	
Mongolia		61.3	→		40.9	↓		92.0	→	11,471	0.739	
Tanzania		61.5	↗		45.1	→		83.7	↑	2,558	0.549	
Uganda		61.5	→		43.3	↓		87.3	↗	2,178	0.525	
Mozambique		61.5	→		48.6	→		77.9	↗	1,229	0.446	
Bolivia		62.0	→		45.4	→		84.7	→	7,932	0.692	
Nepal		62.3	↓		56.8	↓		68.3	↓	3,800	0.602	
Tunisia		62.4	→		50.3	→		77.5	→	9,728	0.731	
Cameroon		62.9	→		47.2	→		83.9	↗	3,576	0.576	
Croatia		63.2	→		52.8	→		75.7	→	26,465	0.858	
Cuba		64.1	→		52.1	→		78.8	→	24,668	0.764	
Dominican Republic		64.5	→		55.5	↓		75.0	→	17,003	0.767	
Cambodia		65.2	→		50.4	→		84.4	→	4,192	0.593	
Zimbabwe		66.2	→		52.7	→		83.3	→	2,745	0.593	
Lebanon		66.9	→		65.3	→		68.5	→	11,649	0.706	
Lithuania		67.3	→		61.8	↓		73.2	→	36,732	0.875	
Congo, Republic of		68.7	→		51.9	→		91.1	→	3,449	0.571	
Laos		69.8	→		54.0	↓		90.2	→	7,806	0.607	
Paraguay		70.3	→		58.2	↓		84.9	→	12,335	0.717	

Table 2.
(Continued)

COUNTRY	OVERALL Rating	OVERALL Score	OVERALL Arrow	DOMESTIC Rating	DOMESTIC Score	DOMESTIC Arrow	SPILLOVER Rating	SPILLOVER Score	SPILLOVER Arrow	GDP per capita	HDI Value	HDI Category
El Salvador		70.8	→		70.0	→		71.6	→	8,057	0.675	
Zambia		71.5	→		58.1	↓		88.0	→	3,270	0.565	
Honduras		72.4	→		62.6	→		83.7	→	5,138	0.621	
Brunei Darussalam		72.5	→		54.7	→		96.0	→	62,244	0.829	
Botswana		72.5	→		63.4	→		83.0	↗	16,040	0.693	
Slovenia		72.9	→		66.6	→		79.7	→	37,091	0.918	
Bosnia & Herzegovina		73.5	→		58.2	→		92.8	→	14,340	0.780	
Madagascar		73.8	→		57.6	→		94.5	→	1,510	0.501	
Georgia		73.8	→		64.7	→		84.2	↗	14,089	0.802	
Costa Rica		73.9	→		66.4	→		82.2	↓	19,679	0.809	
Guinea		73.9	↓		60.8	→		89.8	↓	2,671	0.465	
Latvia		74.1	→		66.3	→		82.7	→	29,932	0.863	
Bahrain		74.2	→		68.5	→		80.5	↓	40,933	0.875	
Haiti		74.6	↓		63.6	→		87.6	↓	2,773	0.535	
Panama		74.9	→		66.7	→		84.0	→	25,382	0.805	
Uruguay		75.0	↗		64.0	→		88.0	↑	21,608	0.809	
Chad		75.5	→		57.1	↓		99.8	↗	1,520	0.394	
Senegal		75.7	→		69.0	→		83.0	→	3,300	0.511	
Estonia		75.9	→		66.4	→		86.6	→	35,215	0.890	
Mali		75.9	↓		62.8	→		91.6	↓	2,217	0.428	
Burkina Faso		76.4	↓		63.0	→		92.7	↓	2,161	0.449	
Somalia		77.6	→		60.1	→		100.0	↗	1,444	NA	
Namibia		78.1	→		72.1	→		84.6	→	8,894	0.615	
Tajikistan		78.4	↗		65.2	→		94.2	↗	3,658	0.685	
Kyrgyzstan		78.4	→		62.0	→		99.2	→	4,707	0.692	
Gabon		78.6	→		62.9	→		98.2	→	14,400	0.706	
Niger		79.7	↓		65.5	↓		96.9	↓	1,197	0.400	
Papua New Guinea		79.7	→		72.8	→		87.2	↗	4,101	0.558	
Benin		79.7	→		69.4	↓		91.5	→	3,323	0.525	
Malawi		80.0	↓		66.6	↓		96.2	→	1,487	0.512	
Luxembourg		81.4	→		80.7	→		82.1	→	110,261	0.930	
Nicaragua		81.5	→		69.7	→		95.4	↗	5,280	0.667	
Armenia		82.2	→		79.6	→		84.9	→	12,593	0.759	
North Macedonia		82.6	→		72.3	→		94.4	→	15,848	0.770	
Cyprus		82.9	→		77.9	→		88.1	↓	27,885	0.896	
Jamaica		83.2	↗		72.9	→		94.9	↗	8,742	0.709	
Moldova		83.3	→		75.8	→		91.6	→	12,325	0.767	
Albania		83.4	→		73.6	→		94.6	→	13,295	0.796	
Liberia		83.7	→		70.3	→		99.6	→	1,354	0.481	
Mauritania		84.9	→		73.4	→		98.1	→	4,983	0.556	
Togo		85.5	→		74.1	→		98.7	→	2,108	0.539	
Rwanda		85.9	↓		77.3	↓		95.4	↓	2,099	0.534	
Sierra Leone		86.0	↗		74.9	→		98.7	↗	1,648	0.477	
Burundi		86.1	→		74.6	↓		99.4	→	731	0.426	
Belize		86.3	→		74.7	→		99.8	→	6,120	0.683	
Central African Republic		87.6	↓		77.8	↓		98.8	↓	929	0.404	
Eritrea		89.6	→		80.2	→		100.0	→	3,004	0.492	
Bhutan		90.4	→		82.4	→		99.1	↗	10,909	0.666	
Malta		92.7	→		87.2	→		98.4	↓	39,222	0.918	
Iceland		94.0	↓		89.0	→		99.4	↓	52,381	0.959	
Gambia		94.7	→		89.6	→		100.0	↓	2,159	0.500	

Note: Countries are sorted by Overall score from lowest (greatest negative impact on the Global Commons) to highest. Index results are contextualized by GDP per capita and Human Development Index (HDI) values.
Sources: GDP (constant 2017 US$, PPP) and population from the World Bank DataBank; Human Development Index (HDI) from the UN Development Programme (2022).

1.4. The GCS Index by major world regions

Comparing scores on the GCS Index also helps to distinguish how impacts vary by region. Six groups of countries illustrate the different burdens globally: Africa, East & South Asia, Eastern Europe & Central Asia, Latin America & the Caribbean, the Middle East & North Africa, and the OECD (listed in Appendix A). Figure 4 shows population-weighted average scores for these six regions.

Among the six groups, the OECD stands out for its low scores, i.e., significant negative impacts on the Global Commons, overall and within the Domestic and Spillover pillars. In proportional terms, no other region scores lower, and in absolute terms, only countries in East & South Asia have greater negative impacts, largely driven by China and India. High scores for Africa, reflecting fewer negative impacts to the Global Commons, stem partly from lower levels of production and consumption than other regions.

Figure 4.
Population-weighted Overall, Domestic, and Spillover scores, in proportional and absolute terms, across six regions

Note: MENA = Middle East & North Africa, LAC = Latin America & the Caribbean.

1.5. The GCS Index and economic development

The level of economic development stands out as the dominant explanation for countries' scores on the 2022 Global Commons Stewardship Index. As illustrated in Figure 5, GDP per capita shows a statistically significant and very strong negative correlation with overall GCS Index score (r = -0.94, p < 0.001) and with the Spillover score (r = -0.93, p < 0.001). Overall, HICs and UMICs are responsible for the greatest share of negative domestic and spillover impacts on the Global Commons. Interestingly, some countries, such as Brazil and India, perform poorly on the domestic pillar (and even more so in absolute terms) but tend to generate fewer negative spillover impacts through imported goods and services. By contrast, LICs and LMICs, especially in sub-Saharan Africa, tend to generate limited negative impacts on the Global Commons, partly due to very low levels of consumption and production. No country combines high per capita GDP and high GCS Index scores, which would appear near the top right area of Figure 5a.

Figure 5.
Comparison of **(a)** Overall GCS Index score and **(b)** Spillover score, in proportional terms, to GDP per capita

Note: MENA = Middle East & North Africa, LAC = Latin America & the Caribbean. Labeled countries correspond to G20 countries and outliers.
Source: GDP and population from the World Bank DataBank.

1.6. The GCS Index and trade intensity

Overall, countries that import a large share of the goods and services consumed within their borders tend to generate negative spillover impacts. Figure 6 shows a statistically significant and very strong negative correlation (r = -0.94, p < 0.001) between Spillover scores and per capita merchandise imports, an indicator of the extent to which a country relies on goods and services produced elsewhere in the world. The spillover impacts include direct and indirect imports that are included in final products and services

Figure 6.
Comparison of Spillover score, in proportional terms, with Merchandise Imports per capita

Note: MENA = Middle East & North Africa, LAC = Latin America & the Caribbean.
Labeled countries correspond to G20 countries and outliers.
Source: Merchandise imports and population from the World Bank DataBank.

consumed in a country. Because some imported goods are ultimately included in exports for other countries to consume, this measure of merchandise imports is a proxy indicator for embodied imports.

Widespread international environmental spillovers drive the degradation of the Global Commons. They are driven by inadequate pricing of external costs in the current economic system and national policy frameworks that are designed to meet national needs without due regard to the impacts these policies may have on other countries and the Global Commons. Guiding sustainable transformations in production and consumption patterns will require policies that recognize the shared responsibilities of both exporters and importers of spillovers embodied in trade. The international trade system can provide a critical point of leverage for shifting the world to a more sustainable trajectory. More broadly, the value of traded goods and services must also incorporate a fundamental reckoning of the externalities associated with negative impacts to the Global Commons. Sections 2 and 3 of this report provide further details on supply chains, industries, and sectors responsible for specific spillover impacts, informing policy measures that can curb negative spillover effects.

Part 2.

SECTORAL TRADE FLOWS OF SPILLOVER IMPACTS

Part 2.

Sectoral trade flows of spillover impacts

Understanding impacts to the Global Commons can also be sharpened by identifying specific economic sectors driving spillovers embodied in traded goods and services. For most of the spillover indicators in the GCS Index, analyses of MRIO tables can characterize how specific sectors contribute to threats to the environment and identify the major countries exporting and importing the associated products. Some of these sectors will be associated with production processes, highlighting which countries are the *source* of environmental impacts (shown in the left circle of Figure 2a). Other sectors are centered around consumption patterns and the countries purchasing final products with embodied *imported* spillovers (shown in the right circle of Figure 2a). In this section, we present detailed trade flows that illustrate how sectoral analysis can provide further information about spillover indicators in absolute terms. Such analyses yield important insights into how environmental sustainability initiatives can prioritize economic sectors and the countries involved in importing and exporting spillovers embodied in trade. Mitigating these impacts requires interconnected, global policy solutions that recognize the roles played by both producers and ultimate consumers. Additional work by the Global Commons Stewardship Initiative links these results to the policy frameworks that can leverage this deeper context.

2.1. Sectoral drivers of global spillover impacts

Globally, MRIO analysis can attribute negative impacts to the Global Commons among different economic sectors. For spillovers, we identify the top sectors that drive the global flow of goods and services with embodied negative impacts, which we illustrate here for three indicators: GHG emissions, deforestation,

Figure 7.
Top economic sectors driving spillovers of embodied GHG Emissions due to (left) exported spillovers from impact origins and (right) final demand of imported spillovers

Figure 8.
Top economic sectors driving spillovers of embodied deforestation due to exports from impact origins and final demand due to imports

Figure 9.
Top economic sectors driving spillovers of embodied water stress due to exports from impact origins and final demand due to imports

and water stress. Taking the perspective of countries where impacts originate due to *domestic production*, negative impacts can be divided into those that are embodied in exports for final demand outside the country of origin, i.e., exported spillovers, and products that are consumed domestically. Negative impacts of the *final demand* for goods and services can be divided between those that are embodied in imports, i.e., imported spillovers, and those that were produced domestically. Figures 7–9 show the top five spillover sectors for each of our representative indicators from both the production and consumption perspectives.

2.2. Countries linked to sectoral drivers

2.2.1. Greenhouse gas emissions

GHG emissions are embodied in every traded good. Efforts to mitigate GHG emissions, however, should prioritize the economic sectors driving the largest shares of these impacts. When considering consumption patterns, one of the most substantial sectors for spillovers of GHG emissions is Textiles & Clothing. Figure 10

Figure 10.
GHG emissions embodied in final consumption of Textiles & Clothing

The impacts occur in the countries on the left side of the diagram, and the products are ultimately consumed in the countries on the right side of the diagram. (Intermediate countries along supply chains are not shown.) Of total global GHG emissions due to demand for Textiles & Clothing, 59% are embodied in spillovers.

indicates that of the GHG emissions due to global final demand for Textiles & Clothing, 59% are emitted along the supply chain of countries different than where those final products are consumed, i.e., spillovers, while 41% are emitted in the same country where the final products are consumed, i.e., non-spillovers. The textiles and clothing sector is also associated with negative socio-economic spillovers, including accidents at work and child labor (Malik et al., 2021).

Figure 10 depicts the spillover GHG emissions due to countries on the right side of the diagram consuming Textiles & Clothing. The GHGs originate from a variety of sectors along the Textiles & Clothing supply chains of countries on the left side of the diagram, including the textile sector itself, electricity production, chemical production, and more. Of the spillover GHG emissions due to final consumption of Textiles & Clothing, the two largest destinations are the EU27 and the USA, both with 21%. Among the countries whose supply chains help produce these goods for consumption abroad, China generates 40% of the spillover GHG emissions. While each country importing these goods drives emissions in many other countries, the flows

Figure 11.
GHG emissions due to Electricity production

The impacts occur in the countries on the left side of the diagram, and the products are ultimately consumed in the countries on the right side of the diagram. (Intermediate countries along supply chains are not shown.) Of total global GHG emissions due to Electricity production, 20% are embodied in spillovers.

from China are the main driver for the EU27, the USA, Japan, and the Rest of the G20.

From an alternative perspective, spillover GHG emissions can also be analyzed from the sectors and countries where these impacts originate. In Figure 11, we see that 80% of total GHG emissions due to global Electricity production are embodied in goods and services produced and consumed domestically, with the remaining 20% embodied in goods exported for final consumption abroad.

According to the MRIO analysis depicted in Figure 11, the countries generating the largest amount of spillover GHG emissions from Electricity production include China (30%), the Rest of the G20 (16%), and the EU27 (12%). Major consumers of final products in which these spillover emissions are embodied include the EU27 (21%), the Rest of the G20 (18%), and the USA (16%). Again, for each country, the main trade flows identify the significant linkages in global supply chains resulting in spillover effects. For the EU27, the bulk of spillover GHG emissions from Electricity production

Figure 12.
Deforestation due to Forestry & Logging

The impacts occur in the countries on the left side of the diagram, and the products are ultimately consumed in the countries on the right side of the diagram. (Intermediate countries along supply chains are not shown.) Of total global deforestation due to Forestry & Logging, 58% is embodied in spillovers.

are intra-EU, suggesting the relevant policy levers to reduce these impacts lie within this regional institution.

2.2.2. Deforestation

Deforestation around the world is driven by several sectors, two of which we highlight here: Forestry & Logging and Fruit & Nut consumption**.** Figure 12 shows that the main sources of the Forestry & Logging spillovers are the EU27 (22%), Russia (18%), Canada (18%), and the USA (14%), while the main consumers of goods with embodied foreign deforestation due to Forestry & Logging are China (26%), the EU27 (21%), and the USA (17%). Here, the final consumption of embodied deforestation due to Forestry & Logging for the United States identifies Canada as the largest trade flow of these spillovers, with a much less substantial role for Brazil. More granular analyses can often change the focus of bilateral trade policy as decisionmakers consider the most appropriate steps for mitigating threats to the Global Commons.

In Figure 13, we find ASEAN (Association of Southeast Asian Nations) countries generating 30% of spillover deforestation due to final demand for Fruits &

Figure 13.
Deforestation due to Fruits & Nuts

The impacts occur in the countries on the left side of the diagram, and the products are ultimately consumed in the countries on the right side of the diagram. (Intermediate countries along supply chains are not shown.) Of total global deforestation due to demand for Fruit & Nuts, 32% is embodied in spillovers.

Nuts, followed by Papua New Guinea (9%) and the Democratic Republic of the Congo (9%), with the largest importers of spillovers embodied in final products including the ASEAN countries (32%), the EU27 (26%), and China (13%). The trade flows highlight the significance of intra-ASEAN trade; the EU27's imports from the Democratic Republic of the Congo, Liberia, and elsewhere; and China's imports from ASEAN countries and Brazil. Addressing deforestation spillovers due to final demand for Fruits & Nuts will require targeted policies that bring together major trading blocs and key countries from among both producers and consumers.

2.2.3. Vulnerable marine animals

Vulnerable marine animals represent a classic common pool resource with a global scope. Marine ecosystems around the world are under extreme pressure, driven in large part by over-harvesting from fish stocks. In Figure 14, we show that 32% of vulnerable marine taxa embodied in final consumption are imported from abroad, in contrast to the 68% that are consumed domestically by the fishing entities that harvest these animals. The countries catching these vulnerable marine animals embodied in traded goods are diverse, including the USA (12%), the Rest of the G20 (11%), and

Figure 14.
Final consumption of marine organisms caught from vulnerable taxa

The impacts are due to fishing vessels from countries on the left side of the diagram, and the products are ultimately consumed in the countries on the right side of the diagram. (Intermediate countries along supply chains are not shown.) Of the total global catch of vulnerable taxa due to demand for Fishing & Fish Products, 32% is embodied in spillovers.

the EU27 (11%). Countries importing these spillover impacts for final consumption include the EU27 (20%), China (15%), Japan (12%), and the Rest of the G20 (10%). This sectoral analysis confounds any expectations that simple policies can remedy this threat to marine biodiversity. Trade flows are largely diffuse among both consumers and producers, and each country's fishing fleet may travel between several economic exclusion zones – including those of other countries. Figure 14 reveals that any policy levers to address these spillovers will require careful multilateral negotiations.

2.2.4. Water stress

Among the sectors in MRIO tables, disruptions to the Water cycle are heavily centered on agriculture. For the spillover indicator on water stress, our analysis finds substantial impacts from the production of Leguminous Crops & Oil Seeds. As shown in Figure 15, 38% of the water stress embodied in these products is exported abroad for final consumption. The countries most responsible for these spillover impacts during the production of these crops include the USA (38%),

Figure 15.
Water stress due to production of Leguminous Crops & Oil Seeds

The impacts occur in the countries on the left side of the diagram, and the products are ultimately consumed in the countries on the right side of the diagram. (Intermediate countries along supply chains are not shown.) Of total global water stress due to Leguminous Crops & Oil Seeds, 38% is embodied in spillovers.

China (18%), and the EU27 (14%). The countries importing these crops for final consumption largely overlap, including China (21%), the EU27 (18%), and the Rest of the G20 (16%). While small countries, especially island states, import many goods and services that are associated with embodied disruptions to the Water cycle throughout the supply chain, Figure 15 shows that addressing the trade flows of embodied water stress in absolute terms requires transformative measures by large countries, with the largest transfer of spillovers between the USA and China.

Part 3.

DETAILED COUNTRY FEATURES

Part 3.

Detailed Country Features

This section provides more detailed information on trade flows and industry/commodities involved in spillover impacts for major G20 economies (Brazil, China, the European Union, India, Indonesia, Japan, South Korea, and the United States) as well as two additional ASEAN countries (Singapore and Vietnam). Figure 16 summarizes the performance of these 10 countries and entities on the 2022 GCS Index.

Multi-Regional Input-Output (MRIO) tables, which track flows between countries along supply chains, allow for the calculation of the values of spillover indicators and the identification of specific trade relationships. For the detailed features in this section, we use MRIO tables to analyze four indicators in the 2022 GCS Index: GHG emissions, deforestation, vulnerable fish catch, and water stress. Data on embodied impacts provide critical guidance on how to adopt ambitious policies, targets, and roadmaps and on how to engage stakeholders from the private sector, non-governmental organizations, and governments at the international, national, and sub-national levels.

Figure 16.

Overall, Domestic, and Spillover scores, in proportional and absolute terms, for select countries

3.1. Major trade relationships driving spillovers

Figures 17–26 map out the major impact origins sources (left side) and final demand destinations (right side) for each country among the four representative indicators, with darker shading for higher proportions of the total impacts emb demand are final consumption by households and governments and investment in capital assets like structures and equipment. Note that not all of these relationships are bilateral; rather, goods may flow to one or more other countries for intermediate processing steps along the global supply chain between the country of origin and the ultimate country of final demand.

Figure 17.

Percentage of Brazil's spillover impacts (left) by country of impact origin and (right) by country of final demand

Figure 18.

Percentage of China's spillover impacts (left) by country of impact origin and (right) by country of final demand

Figure 19.

Percentage of the EU's spillover impacts (left) by country of impact origin and (right) by country of final demand

Figure 20.

Percentage of India's spillover impacts (left) by country of impact origin and (right) by country of final demand

Figure 21.

Percentage of Indonesia's spillover impacts (left) by country of impact origin and (right) by country of final demand

Figure 22.

Percentage of Japan's spillover impacts (left) by country of impact origin and (right) by country of final demand

Figure 23.

Percentage of Singapore's spillover impacts (left) by country of impact origin and (right) by country of final demand

Figure 24.

Percentage of South Korea's spillover impacts (left) by country of impact origin and (right) by country of final demand

Figure 25.

Percentage of the USA's spillover impacts (left) by country of impact origin and (right) by country of final demand

Figure 26.

Percentage of Vietnam's spillover impacts (left) by country of impact origin and (right) by country of final demand

3.2. Sectors driving spillover impacts

After identifying countries along the supply chains that generate the greatest shares of spillover environmental impacts for the 10 featured countries and entities, it is also important to understand which economic sectors are responsible. Our data can identify top sectors from two perspectives, illustrated in Figure 2: first, those that directly generate spillover impacts, and those final products that have embodied spillover impacts. Tables 3 and 4 illustrate these sectoral drivers for three representative indicators in the EU. Additional tables for other countries can be found in Appendix B. This level of granular analysis can help inform governance reforms of specific supply chains and can also support industrial and corporate initiatives and reporting.

3.2.1. Spillover impacts from source industries in foreign countries

In the EU, Table 3 shows that some industries stand out as the main sources of spillover impacts within the indicators featured here. For GHG emissions, Electricity and Gas Extraction are the leading two industries. Forestry and Logging is the main driver of deforestation, but the EU should also pay close attention to other drivers when examining supply chains, especially in the food sector, including land clearing for Cattle and other food commodities. Likewise, the predominance of Leguminous Crops and Oil Seeds behind imported water stress should not overshadow the diversity of agricultural products that must be addressed through their corresponding economic sectors.

Table 3.
Spillover impacts from the EU's final demand by top source industries in foreign countries (%)

GHG Emissions	Deforestation	Water Stress
Electricity (20%)	Forestry & Logging (39%)	Leguminous Crops & Oil Seeds (19%)
Gas Extraction (17%)	Cattle (16%)	Wheat (12%)
Basic Organic Chemicals (5%)	Beverage Crops (15%)	Fruits & Nuts (12%)
Road Transport (5%)	Fruits & Nuts (8%)	Other Crops (7%)
Hard Coal (5%)	Leguminous Crops & Oil Seeds (7%)	Rice (5%)
Textiles & Clothing (4%)	Other Animals & Services to Ag. (5%)	Basic Iron & Steel (3%)
Basic Inorganic Chemicals (3%)	Sheep (4%)	Spice & Drug Crops (3%)
Other Animals & Services to Ag. (3%)	Maize (2%)	Sugar Beet & Cane (3%)
Waste Services (3%)	Rice (1%)	Grapes (3%)
Electronics & Precision Instruments (2%)	Vegetable Products (1%)	Basic Organic Chemicals (3%)

3.2.2. Spillover impacts from final products

Table 4 shows the final products with embodied impacts driving imported impacts on the Global Commons for the EU. Within GHG emissions, no single product dominates, with spillovers spread across diverse economic sectors. Deforestation is embodied in Forestry and Logging, various agricultural sectors, Manufacturing, and Hospitality. A similar pattern emerges with imported Water Stress, with major impacts from Textiles and Clothing, chiefly due to the manufacturing of these products in China, and agricultural products. Such results invite further attention to the sourcing of the final products and an examination of which processing technologies, inputs, and energy sources are used in the manufacturing countries.

Table 4.
Spillover impacts from the EU's final demand by top final products purchased (%)

GHG Emissions	Deforestation	Water Stress
Textiles & Clothing (8%)	Forestry & Logging (17%)	Textiles & Clothing (12%)
Gas Extraction (6%)	Beverage Crops (13%)	Food Products & Other Feeds (7%)
Motor Vehicles & Trailers (5%)	Cattle (5%)	Vegetable Products (5%)
Electronics & Precision Instruments (5%)	Fruits & Nuts (4%)	Fruits & Nuts (5%)
Furniture & Other Manufacturing (4%)	Furniture & Other Manufacturing (4%)	Leguminous Crops & Oil Seeds (4%)
Civil Engineering Construction (4%)	Hospitality (3%)	Fruit Products (3%)
Machinery & Equipment (4%)	Textiles & Clothing (3%)	Hospitality (3%)
Health & Social Work Activities (4%)	Building Construction (3%)	Sugar, Chocolate, Confection (3%)
Building Construction (4%)	Civil Engineering Construction (3%)	Rice (2%)
Wholesale & Retail; Vehicle Repair (3%)	Sawmill Products (3%)	Furniture & Other Manufacturing (2%)

Part 4.

METHODOLOGICAL SUMMARY

Part 4.
Methodological summary

The 2022 GCS Index follows the best practices of composite indexing (Nardo et al., 2008). To orient the reader, this section describes the basic framework, composition, and mechanics of the Index and how to interpret the results. A more detailed methodology can be found online in a technical appendix published separately from this report.

4.1. Changes in the 2022 Global Commons Stewardship Index

Taking advantage of the latest breakthroughs in environmental research and data science, this second edition of the GCS Index improves upon previous research. First, we refreshed existing indicators with the latest available datasets – or switched to different data providers when better datasets were available. Second, we are proud to include seven new indicators in the 2022 GCS Index:

- Indicators derived from the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) Trade Database:
  - Domestic export of CITES-protected terrestrial animals
  - Spillover CITES-protected terrestrial animals
  - Domestic export of CITES-protected marine animals
  - Spillover CITES-protected marine animals
- Indicators derived from Sea Around Us data:
  - Domestic vulnerable fisheries catch
  - Spillover vulnerable fisheries catch
- Indicator derived from Global Forest Watch data:
  - Spillover deforestation

These new indicators provide additional details about biodiversity threats, both terrestrial and marine. Pilot indicators constructed from CITES data and vulnerable fisheries catches provided by *Sea Around Us* will be refined for future editions of the GCS Index.

Third, the 2022 GCS Index uses Release 055 of the GLORIA global environmentally extended MRIO database (Lenzen et al., 2022), constructed in the Global MRIO Lab (Lenzen et al., 2017) at the University of Sydney. This new database provides more up-to-date estimates of trade flows across a common framework of 120 economic sectors for all world regions; in this study, spillover metrics derived from GLORIA are for the year 2018. Fourth, GLORIA also allows us to expand the number of countries covered by the GCS Index from 99 to 145 (and the EU27), providing a more geographically comprehensive analysis. Fifth, for the first time, countries' scores and trajectories in the Domestic and Spillover pillars are now combined to provide overall scores of how far countries are from meeting international sustainability thresholds.

Together, these improvements strengthen the analytical rigor, accuracy, and usefulness of the GCS Index. Changes in the methodology, indicators and data sources, and other analytical assumptions and choices also make the 2022 GCS Index results incomparable to previous editions of the Index. Apparent differences between the scores and underlying data presented here and in the 2021 or Pilot GCS Index reports cannot necessarily be attributed to changes in how countries are impacting the Global Commons. Rather, such differences are best understood to reflect methodological changes that yield more accurate assessments and refined construction of the GCS Index.

4.2. Construction of the Index

The GCS Index tracks the *impacts* of countries on the Global Commons. It does not track the state of the Global Commons or the vulnerability of countries to transgressions of Planetary Boundaries, for example, Climate Change. We categorize these impacts into six sub-pillars: Aerosol emissions, GHG emissions, biodiversity loss in Terrestrial and Marine biomes, and disruptions to the Water and Nutrient cycles. Two pillars further divide the indicators between those that measure impacts that occur entirely within territorial borders (Domestic) and those that measure impacts that cross boundaries (Spillover). In this report, international spillovers include impacts embodied in traded goods and services. Figure 1 illustrates the conceptual framework for the organization of these metrics.

We identify a total of 39 indicators from a variety of sources – 24 domestic indicators and 15 spillover indicators (Table 5). As described in the online appendix, the indicators are globally relevant, valid, reliable, up to date, collected according to internationally approved methods, and available for a large range of countries.

To make the data comparable across indicators, we rescale each variable between 1 and 100, with 1 denoting worst impacts and 100 denoting thresholds met or surpassed. We truncate each dataset so that all countries exceeding the threshold score no more than 100 and all countries falling below the lowest bound hold a score of 1.

We select the sustainability thresholds, or upper bounds, using a decision tree reflecting the approach used by the SDSN (Sachs et al., 2022) and the OECD (2019, Table 3.1) to compute distance to SDG targets. Optimally, sustainability thresholds set for each indicator should be based on international agreements such as the SDGs and Paris Climate Change Agreement. When such a target is not available, we rely on scientific input and expert judgment. Finally, if neither of these two options are available, the upper bound is based on the values of countries near the extremes of the distributions of the variables.

We aggregate the scores on individual metrics into sub-pillar, pillar, and overall scores using weighted geometric means. Within each sub-pillar, indicators received equal weighting (except for domestic GHG emissions). The GHG emissions sub-pillar constitutes 75% of each pillar score, reflecting the urgent and critical status of the Planetary Boundary attributed to the climate system, with the other five sub-pillars receiving a weight of 5%. In calculating the overall score, the two pillars are equally weighted. Color-coded dashboards help to identify the severity of each country's impacts on the Global Commons at each level of aggregation.

Because the 2022 GCS Index uses time-bound thresholds, this report includes an assessment of the trajectories of countries' impacts. While the scores provide a snapshot of the level of impacts based on the most recent year of data, we are also interested in the direction and pace of historic trends. For those indicators that have time-series, we calculate an annual average growth rate over the past five years of data. Projecting these growth rates into the future, we can determine whether countries are on- or off-track to meet sustainability thresholds in the year 2050 or interim thresholds in the year 2035. Even if a country is currently meeting the interim or 2050 threshold, we categorize its trajectory as being off-track if it is trending in the wrong direction. This would allow a country with a "green" dashboard to still receive a ↓ trajectory. These arrows are aggregated for sub-pillars, pillars, and an overall trajectory using the methods described in Sachs et al. (2022, pp. 61–62).

Further details about the construction of the 2022 GCS Index may be found in the methodological appendix, available online. This appendix includes descriptions of the environmental accounting behind spillover and domestic indicators, data selection criteria (including data gaps), metadata on the indicators, setting sustainability thresholds, and the calculation of trajectories, among other, more technical steps. We welcome comments and feedback, including suggestions for ways to improve future editions of the GCS Index, at GCSIndex@unsdsn.org.

Table 5.
Indicators included in the 2022 Global Commons Stewardship Index

Sub-pillar	Indicator	Spillover
Aerosols	SO_2 emissions	✓
	NO_X emissions	✓
	Black Carbon emissions	✓
GHG Emissions	Greenhouse Gas emissions	✓
	CO_2 emissions embodied in fossil fuel exports	
Terrestrial Biodiversity	Unprotected terrestrial Key Biodiversity Areas	
	Unprotected freshwater Key Biodiversity Areas	
	Land use biodiversity loss	✓
	Freshwater biodiversity threats	✓
	Deforestation	✓
	Red List Index of species survival	
	Endangered terrestrial organisms	✓
	Biodiversity Habitat Index	
Marine Biodiversity	Unprotected marine Key Biodiversity Areas	
	Marine biodiversity threats	✓
	Endangered marine organisms	✓
	Fish caught from vulnerable taxa	✓
	Fish caught from overexploited or collapsed fish stocks	
	Fish caught by trawling	
Nutrient Cycles	Sustainable Nitrogen Management Index	
	Nitrogen surplus	✓
	Phosphorus fertilizer	✓
Water Cycle	Scarce water consumption	✓
	Water stress	✓

Note: All indicators listed are included in the Domestic pillar; only those indicators with a ✓ are included in the Spillover pillar.

4.3. Data gaps and limitations

New and improved datasets on impacts to the Global Commons advance our drive to transition production and consumption patterns to sustainable pathways, but even with extensive networks of expert consultants, the GCS Index recognizes major data gaps and limitations with the knowledge synthesized in this report. Persistent data gaps limit the comprehensiveness of our results and highlight where further work is needed, especially with the support of international organizations. Major data gaps include:

- GHG Emissions
  - CO_2 fluxes from anthropogenic land use change, including those fluxes embodied in trade
- Terrestrial Biodiversity Loss
  - Functional biodiversity loss
  - Loss of intact areas and wilderness, including those losses attributable to trade
- Marine Biodiversity Loss
  - Fish stock depletion embodied in trade, including overfishing in international waters
  - Coastal pollution, especially of plastics, including those releases embodied in trade
- Nutrient Cycles
  - Hypoxia attributable to sources, including eutrophication embodied in trade
- Water Cycle
  - Water use disaggregated at the basin level
  - Groundwater depletion, including embodied in trade
- Stratospheric Ozone Depletion
  - Unreported or illegal production of ozone depleting substances (ODS), including those ODS embodied in trade
  - Mitigation of ODS in existing products or temporary storage
- Novel entities
  - Toxic pesticides, including those embodied in trade
- Physical flows of pollutants across country boundaries in air and water.

While the 2022 GCS Index makes use of the latest and most advanced scientific research on environmental impacts, the underlying datasets are not without limitations. Our new metrics on endangered species and marine vulnerability are pilot indicators, and the Technical Appendix (published separately online) provides further descriptions of the provisional work behind them. In some sub-pillars, such as GHG and deforestation, different researchers have come to different conclusions about how to apportion impacts among economic sectors. And all datasets suffer from delays between collection and publication of the data, reducing the ability of the GCS Index to reflect very recent changes, either from policy or world events, such as the COVID-19 pandemic or the conflict in Ukraine. All of these limitations argue for increased efforts by governments around the world to support robust data systems that collect, verify, and disseminate vital information on both environmental impacts and international flows of traded goods and services.

4.4. Stewardship of the Global Commons

Gauging countries' stewardship of the Global Commons requires categorizing the various ways in which they impact the environment. In the GCS Index, we use six sub-pillars, shown in Figure 1 to synthesize the indicators of how countries are protecting or harming the Global Commons. Rather than measuring the state of the Global Commons themselves, the GCS Index accounts for the influence countries have over our shared resources. Drawing on the broader work of the Center for Global Commons and the Global Commons Alliance, Figure 27 maps the means and extent to which each sub-pillar impacts the Global Commons, providing an outline of the levers for keeping the Earth in a safe operating space.

Tracing the impacts of the sub-pillars to the Global Commons relies on an understanding of the underlying Earth System Science, including the relative magnitude of how influential different impacts are. Some sub-pillars are straightforward. Disruptions to the Water cycle have obvious impacts to the Land Biosphere, as the diversion of water resources has adverse effects on terrestrial and freshwater ecosystems – in addition to the increased risks of flooding and droughts from climate change (Poff & Zimmerman, 2010; Reid et al., 2019). Marine biodiversity is a major component of the Oceans and the ecosystem services that this Global Common provides, and biodiversity loss, as through over-harvesting of fish stocks, necessarily constitutes a major threat.

GHG emissions have diverse impacts on the Global Commons. Most directly, increased atmospheric concentrations of GHGs disrupt the Climate System, with subsequent threats to Ice Sheets & Glaciers. Carbon dioxide poses the additional threat of diffusing into the Oceans, increasing ocean acidification (Doney et al., 2009). Many ozone depleting substances are also potent GHGs, though these account for a small fraction of total GHG emissions and are emitted by a relatively small number of countries (Chipperfield et al., 2020; IPCC, 2021).

Terrestrial biodiversity loss harms the Land Biosphere, both through the direct loss of habitat but also through the weakening of ecosystems, including loss of genetic biodiversity (Cardinale, 2012; Hooper et al., 2012). Terrestrial ecosystems are also major fluxes in the carbon cycle, especially in forests, and losses of these ecosystems contribute significantly to increased concentrations of CO_2 in the atmosphere (Shukla et al., 2019), ocean acidification, further climate breakdown, and the subsequent threats to Ice Sheets & Glaciers.

Disruptions to Nutrient cycles, especially nitrogen and phosphorus, also harm the Global Commons. The most prevalent fluxes are in the form of run-off from agricultural production, which pollutes freshwater ecosystems and eventually harm marine ecosystems through anoxic dead zones and other perturbations of food webs (FAO, 2016; Lassaletta et al., 2016; MacDonald et al., 2011; Peñuelas et al., 2013). The nitrogen cycle is also disturbed by the emissions of N_2O, a GHG (IPCC, 2021).

Aerosol emissions have impacts on the Climate System and Ice Sheets & Glaciers. Black Carbon, while not technically a GHG, is recognized as a climate pollutant and a substantial factor in global warming (Bond et al., 2013; IPCC, 2021). Deposition of particulate matter on Ice Sheets & Glaciers also decreases albedo, leading to more melting and further exposure of darker surfaces in an accelerating feedback loop (Levitsky, 2011; Ramanathan & Carmichael, 2008).

While attempting to capture as many impacts as possible, the current scheme is incomplete. Fully accounting for all drivers of the state of the Global Commons requires more indicators than are currently available, some of which lie beyond the categories outlined in Figure 27. The health of the Ozone layer, for example, also depends on the emissions of other substances not captured in national GHG inventories. The GCS Index classification of indicators is useful not just for measuring impacts to the Global Commons but also for highlighting areas where the Global Commons Alliance must work with partners to increase data availability and the development of policy-relevant indicators.

Figure 27.
Illustration of the impacts of GCS Index sub-pillars on the Global Commons

Note: The width of the lines denotes the degree of impact: (thick) direct, significant impact, (medium) moderate impact, and (thin) indirect or limited impact.

Appendix A

World regions used in the 2022 Global Commons Stewardship Index

Countries are sorted by Overall score from lowest (greatest negative impact on the Global Commons) to highest. Index results are contextualized by GDP per capita and Human Development Index (HDI) values.

Sources: GDP (constant 2017 US$, PPP) and population from the World Bank DataBank; Human Development Index (HDI) from the UN Development Programme (2022).

Table 6.
2022 GCS Index results in Proportional terms for Africa

	OVERALL			DOMESTIC			SPILLOVER			GDP	HDI	
COUNTRY	Rating	Score	Arrow	Rating	Score	Arrow	Rating	Score	Arrow	per capita	Value	Category
Gabon	Very high	34.0	→	Extreme	19.8	→	High	58.6	→	14,400	0.706	High
Botswana	Very high	34.8	→	Very high	46.5	→	Extreme	26.0	→	16,040	0.693	Medium
Namibia	Very high	41.0	→	High	54.1	→	Very high	31.0	→	8,894	0.615	Medium
South Africa	Very high	46.0	→	Very high	31.2	→	High	68.0	↗	11,466	0.713	High
Congo, Republic of	High	50.9	→	Very high	41.9	→	High	62.0	→	3,449	0.571	Medium
Zimbabwe	High	65.9	→	High	55.6	→	Medium-high	78.0	→	2,745	0.593	Medium
Angola	High	68.8	↗	High	62.8	↗	Medium-high	75.5	↗	6,198	0.586	Medium
Nigeria	High	69.1	→	Very high	49.3	→	Low	96.7	↗	4,917	0.535	Low
Ghana	High	69.5	→	High	63.1	→	Medium-high	76.5	→	5,305	0.632	Medium
Mauritania	Medium-high	70.1	→	High	65.7	→	Medium-high	74.9	↗	4,983	0.556	Medium
Côte d'Ivoire	Medium-high	71.6	→	High	64.2	→	Medium-high	79.8	↓	5,174	0.550	Medium
Guinea	Medium-high	74.9	→	High	66.6	→	Medium-low	84.2	↓	2,671	0.465	Low
Cameroon	Medium-high	76.2	↗	High	62.2	→	Low	93.4	↗	3,576	0.576	Medium
Zambia	Medium-high	76.8	→	High	66.3	→	Medium-low	89.0	↗	3,270	0.565	Medium
Mozambique	Medium-high	77.3	↗	High	68.1	→	Medium-low	87.8	↗	1,229	0.446	Low
Kenya	Medium-high	77.8	→	Medium-high	76.9	→	Medium-high	78.7	→	4,220	0.575	Medium
Liberia	Medium-high	78.0	→	High	62.2	→	Very high	97.9	→	1,354	0.481	Low
Chad	Medium-high	78.9	→	High	62.3	→	Very high	99.9	↗	1,520	0.394	Low
Uganda	Medium-low	80.7	↗	High	66.5	→	Very high	97.9	↑	2,178	0.525	Low
Senegal	Medium-low	82.0	→	Medium-low	84.0	→	Medium-high	80.0	→	3,300	0.511	Low
Tanzania	Medium-low	82.7	↗	High	69.3	→	Very high	98.9	↑	2,558	0.549	Low
Somalia	Medium-low	84.5	↗	Medium-high	71.4	→	Very high	100.0	↗	1,444	NA	Low
Benin	Medium-low	85.2	→	Medium-low	85.2	→	Medium-low	85.2	→	3,323	0.525	Low
Central African Republic	Medium-low	85.4	→	Medium-low	80.2	→	Low	91.0	↓	929	0.404	Low
Madagascar	Medium-low	87.4	→	Medium-high	78.0	→	Very high	97.8	↗	1,510	0.501	Low
Eritrea	Medium-low	89.2	→	Medium-high	79.7	→	Very high	99.9	→	3,004	0.492	Low
Ethiopia	Medium-low	89.5	→	Medium-low	80.2	→	Very high	99.8	↓	2,297	0.498	Low
Mali	Medium-low	89.6	→	Medium-low	82.9	→	Very high	96.8	↓	2,217	0.428	Low
Malawi	Medium-low	89.6	→	Medium-low	82.5	→	Very high	97.3	→	1,487	0.512	Low
Burkina Faso	Low	90.5	→	Medium-low	83.8	→	Very high	97.8	→	2,161	0.449	Low
Congo, Dem. Rep.	Low	90.7	→	Medium-low	86.3	→	Very high	95.4	↓	1,072	0.479	Low
Togo	Low	91.5	→	Medium-low	86.5	→	Very high	96.7	↗	2,108	0.539	Low
Sierra Leone	Low	91.6	↗	Medium-low	86.4	→	Very high	97.2	↗	1,648	0.477	Low
Gambia	Low	92.2	→	Medium-low	87.4	↗	Very high	97.3	→	2,159	0.500	Low
Rwanda	Low	92.5	→	Low	92.9	→	Low	92.0	→	2,099	0.534	Low
Niger	Low	92.5	→	Medium-low	87.3	→	Very high	98.1	→	1,197	0.400	Low
Burundi	Low	93.8	↗	Medium-low	88.5	→	Very high	99.4	↗	731	0.426	Low

Ratings
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Arrows
Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in the wrong direction

HDI category
Classification on the Human Development Index

0.8–1.0	Very high
0.7–0.8	High
0.55–0.7	Medium
0–0.55	Low

Table 7.

2022 GCS Index results in Proportional terms for East & South Asia

COUNTRY	OVERALL			DOMESTIC			SPILLOVER			GDP	HDI	
	Rating	Score	Arrow	Rating	Score	Arrow	Rating	Score	Arrow	per capita	Value	Category
Singapore		6.0	→		33.7	→		1.1	→	93,397	0.939	
Mongolia		23.1	→		10.2	↓		52.2	→	11,471	0.739	
Malaysia		32.7	→		30.4	→		35.1	→	26,435	0.803	
Bhutan		42.1	→		36.9	→		48.0	→	10,909	0.666	
Thailand		43.7	→		35.5	→		53.7	→	17,287	0.800	
China		49.8	↓		36.0	→		68.9	↓	16,411	0.768	
Vietnam		51.4	↓		43.8	↓		60.2	↓	8,200	0.703	
Laos		57.3	→		46.7	↓		70.4	→	7,806	0.607	
Indonesia		59.1	→		43.8	→		79.9	→	11,445	0.705	
Sri Lanka		63.7	→		66.6	→		61.0	↓	12,537	0.782	
Philippines		64.7	↓		59.4	→		70.5	↓	7,954	0.699	
Cambodia		68.4	→		56.5	→		82.9	→	4,192	0.593	
Myanmar		70.0	↓		53.1	↓		92.3	↓	4,544	0.585	
India		70.2	→		51.8	↓		95.0	→	6,118	0.633	
Nepal		73.0	↓		74.9	↓		71.1	↓	3,800	0.602	
Papua New Guinea		75.4	→		80.8	→		70.4	↗	4,101	0.558	
Pakistan		78.0	→		61.3	→		99.3	→	4,623	0.544	
Bangladesh		87.8	→		88.2	↓		87.4	→	4,818	0.661	

Table 8.

2022 GCS Index results in Proportional terms for Eastern Europe & Central Asia

COUNTRY	OVERALL			DOMESTIC			SPILLOVER			GDP	HDI	
	Rating	Score	Arrow	Rating	Score	Arrow	Rating	Score	Arrow	per capita	Value	Category
Kazakhstan		24.4	→		15.8	→		37.6	→	25,337	0.811	
Malta		26.8	→		64.6	→		11.2	↓	39,222	0.918	
Cyprus		28.7	↓		44.3	↓		18.6	↓	27,885	0.896	
Russia		30.4	→		16.5	→		56.0	↗	26,895	0.822	
Croatia		32.6	↓		33.4	→		31.9	↓	26,465	0.858	
Belarus		35.7	→		31.5	→		40.5	→	19,148	0.808	
Bulgaria		40.2	↓		35.2	↓		45.9	↓	22,384	0.795	
Azerbaijan		41.6	→		37.0	→		46.7	→	13,700	0.745	
Bosnia & Herzegovina		43.3	↓		33.9	↓		55.2	↓	14,340	0.780	
Romania		48.2	↓		49.9	↓		46.6	↓	28,833	0.821	
Georgia		49.1	→		55.3	→		43.7	→	14,089	0.802	
North Macedonia		49.2	→		53.3	↓		45.5	→	15,848	0.770	
Armenia		51.4	→		70.2	→		37.7	→	12,593	0.759	
Moldova		52.5	→		57.6	↓		47.9	→	12,325	0.767	
Ukraine		52.6	→		50.7	→		54.6	→	11,707	0.773	
Albania		59.8	→		65.7	→		54.4	→	13,295	0.796	
Uzbekistan		60.8	→		47.8	→		77.3	→	6,994	0.727	
Kyrgyzstan		74.6	→		61.9	→		90.0	→	4,707	0.692	
Tajikistan		76.3	↗		69.6	→		83.8	↑	3,658	0.685	

Ratings
Negative impacts on the Global Commons

	95–100	None or limited
	90–95	Low
	80–90	Medium-low
	70–80	Medium-high
	50–70	High
	30–50	Very high
	0–30	Extreme

Arrows
Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in the wrong direction

HDI category
Classification on the Human Development Index

	0.8–1.0	Very high
	0.7–0.8	High
	0.55–0.7	Medium
	0–0.55	Low

Table 9.

2022 GCS Index results in Proportional terms for Latin America & the Caribbean

COUNTRY	OVERALL			DOMESTIC			SPILLOVER			GDP	HDI	
	Rating	Score	Arrow	Rating	Score	Arrow	Rating	Score	Arrow	per capita	Value	Category
Uruguay		34.3	→		25.3	→		46.6	↗	21,608	0.809	
Paraguay		44.5	→		32.3	↓		61.3	→	12,335	0.717	
Belize		45.5	→		35.7	→		58.1	→	6,120	0.683	
Argentina		45.7	→		32.6	→		64.3	→	19,687	0.842	
Brazil		48.4	→		33.1	→		70.8	→	14,064	0.754	
Ecuador		49.5	→		42.0	→		58.4	→	10,329	0.740	
Panama		49.7	→		53.3	→		46.3	→	25,382	0.805	
Venezuela		50.6	↗		51.2	↗		50.0	↗	8,399	0.691	
El Salvador		50.7	→		73.8	→		34.8	→	8,057	0.675	
Cuba		55.0	→		47.3	→		63.9	→	24,668	0.764	
Dominican Republic		55.0	→		54.0	→		56.0	→	17,003	0.767	
Bolivia		55.4	→		41.7	→		73.6	→	7,932	0.692	
Peru		59.0	→		54.3	→		64.1	↓	11,261	0.762	
Jamaica		59.1	→		63.3	→		55.2	→	8,742	0.709	
Guatemala		59.9	→		52.1	→		69.0	→	8,393	0.627	
Honduras		68.0	→		68.0	↗		68.0	→	5,138	0.621	
Nicaragua		71.8	→		67.1	→		76.7	↗	5,280	0.667	
Haiti		72.6	→		67.7	→		77.9	↓	2,773	0.535	

Table 10.

2022 GCS Index results in Proportional terms for the Middle East & North Africa

COUNTRY	OVERALL			DOMESTIC			SPILLOVER			GDP	HDI	
	Rating	Score	Arrow	Rating	Score	Arrow	Rating	Score	Arrow	per capita	Value	Category
Qatar		2.0	→		2.6	↗		1.5	↓	85,266	0.855	
Kuwait		3.8	→		3.3	→		4.4	↓	44,847	0.831	
United Arab Emirates		3.9	→		2.4	→		6.2	→	63,299	0.911	
Bahrain		8.6	→		6.5	→		11.2	↓	40,933	0.875	
Oman		9.6	→		4.1	→		22.8	→	29,502	0.816	
Saudi Arabia		13.8	→		10.1	→		18.7	→	44,328	0.875	
Iran		39.6	→		29.4	→		53.4	↓	12,433	0.774	
Jordan		42.9	↗		68.4	↗		26.9	→	9,817	0.720	
Lebanon		44.4	→		58.9	→		33.4	→	11,649	0.706	
Iraq		45.8	→		38.5	→		54.5	→	9,255	0.686	
Algeria		53.4	→		43.1	→		66.2	↗	10,682	0.745	
Tunisia		56.0	→		49.9	→		62.7	→	9,728	0.731	
Egypt		62.8	→		55.0	→		71.6	→	11,951	0.731	
Morocco		71.5	→		72.2	→		70.7	→	7,028	0.683	

Ratings
Negative impacts on the Global Commons

	95–100	None or limited
	90–95	Low
	80–90	Medium-low
	70–80	Medium-high
	50–70	High
	30–50	Very high
	0–30	Extreme

Arrows
Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in the wrong direction

HDI category
Classification on the Human Development Index

	0.8–1.0	Very high
	0.7–0.8	High
	0.55–0.7	Medium
	0–0.55	Low

Table 11.
2022 GCS Index results in Proportional terms for the OECD

COUNTRY	OVERALL			DOMESTIC			SPILLOVER			GDP	HDI	
	Rating	Score	Arrow	Rating	Score	Arrow	Rating	Score	Arrow	per capita	Value	Category
Luxembourg		5.2	→		18.0	→		1.5	→	110,261	0.930	
Australia		6.1	→		2.1	→		17.7	→	48,698	0.951	
Ireland		8.0	→		31.0	→		2.0	↓	90,625	0.945	
Iceland		9.5	↓		30.2	↓		3.0	↓	52,381	0.959	
Belgium		11.6	→		34.1	→		4.0	↓	48,210	0.937	
Canada		11.7	→		7.1	→		19.2	→	45,900	0.936	
Finland		12.5	→		11.9	→		13.1	→	47,167	0.940	
Switzerland		12.8	→		61.6	→		2.6	→	68,753	0.962	
Norway		13.2	→		15.7	→		11.1	→	63,584	0.961	
Netherlands		13.4	→		33.3	→		5.4	→	54,326	0.941	
New Zealand		15.1	→		13.6	→		16.7	→	42,404	0.937	
Denmark		16.2	→		34.1	→		7.7	↓	55,820	0.948	
United States		18.2	→		13.9	→		23.7	↓	59,909	0.921	
Estonia		18.7	→		19.4	→		18.1	↓	35,215	0.890	
Austria		20.7	→		32.8	→		13.1	↓	52,120	0.916	
South Korea		21.7	↓		31.8	→		14.8	↓	42,251	0.925	
Israel		23.7	→		42.0	→		13.4	↓	38,341	0.919	
Sweden		23.7	→		32.9	→		17.1	→	51,003	0.947	
Lithuania		23.8	↓		34.7	↓		16.4	↓	36,732	0.875	
Germany		25.7	→		36.2	→		18.3	→	51,374	0.942	
Slovenia		27.9	→		39.1	→		20.0	↓	37,091	0.918	
Czechia		28.7	↓		28.5	→		28.9	↓	38,509	0.889	
Latvia		29.1	↓		37.9	→		22.4	↓	29,932	0.863	
European Union		29.4	↓		37.3	↓		23.1	↓	41,721	0.903	
Japan		30.1	→		43.2	→		21.0	→	39,716	0.925	
Slovakia		30.2	↓		39.9	↓		22.8	↓	30,330	0.848	
Greece		31.0	→		33.1	→		29.1	→	27,287	0.887	
United Kingdom		32.2	→		42.2	→		24.7	→	41,606	0.929	
Italy		34.1	→		44.3	→		26.3	→	38,992	0.895	
Spain		34.5	→		40.7	→		29.3	↓	36,220	0.905	
France		34.8	→		48.2	→		25.1	→	42,289	0.903	
Poland		35.4	↓		30.8	→		40.5	↓	32,238	0.876	
Chile		36.1	→		36.4	→		35.8	→	23,325	0.855	
Portugal		36.5	→		48.0	→		27.7	↓	32,178	0.866	
Hungary		37.0	↓		39.7	↓		34.5	↓	31,008	0.846	
Mexico		47.0	→		40.1	→		55.1	↓	17,888	0.758	
Turkey		48.4	→		47.6	→		49.2	→	28,385	0.838	
Colombia		52.0	→		39.7	→		68.0	→	13,441	0.752	
Costa Rica		53.2	↓		58.9	→		48.1	↓	19,679	0.809	

Ratings
Negative impacts on the Global Commons

	95–100	None or limited
	90–95	Low
	80–90	Medium-low
	70–80	Medium-high
	50–70	High
	30–50	Very high
	0–30	Extreme

Arrows
Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in the wrong direction

HDI category
Classification on the Human Development Index

	0.8–1.0	Very high
	0.7–0.8	High
	0.55–0.7	Medium
	0–0.55	Low

Appendix B

Sectors driving spillover impacts for select countries

As shown in Section 3.2., 'Sectors driving spillover impacts,' Multi-Regional Input-Output (MRIO) tables can track the flow of spillovers through supply chains disaggregated by economic sector. For three representative indicators, GHG emissions, deforestation, and water stress, we identify the top industries in foreign countries that generate negative impacts and the top products imported for final consumption that have embodied impacts. Ten countries illustrate this level of granular analysis: Brazil, China, the European Union, India, Indonesia, Japan, Singapore, South Korea, the United States, and Vietnam. Highlighting specific sectors can help focus policy efforts to prioritize which supply chains provide the greatest leverage over impacts to the Global Commons.

Table 12.

Top economic sectors driving spillovers in Brazil, by source industry and products imported for final consumption

	Source industries in foreign countries	Products imported for final consumption
GHG Emissions	Gas Extraction (19%)	Road Transport (6%)
	Electricity (16%)	Non-Nitrogenous & Mixed Fertilizers (6%)
	Road Transport (8%)	Motor Vehicles & Trailers (5%)
	Basic Organic Chemicals (7%)	Electricity (5%)
	Hard Coal (4%)	Textiles & Clothing (5%)
	Basic Inorganic Chemicals (3%)	Electronics & Precision Instruments (4%)
	Textiles & Clothing (3%)	Nitrogenous Fertilizers (4%)
	Other Animals & Services to Ag. (3%)	Gas Extraction (4%)
	Air Transport (3%)	Machinery & Equipment (4%)
	Machinery & Equipment (2%)	Civil Engineering Construction (3%)
Deforestation	Forestry & Logging (26%)	Hospitality (11%)
	Other Animals & Services to Ag. (18%)	Non-Nitrogenous & Mixed Fertilizers (11%)
	Dairy Products (11%)	Cereal Products (8%)
	Wheat (8%)	Furniture & Other Manufacturing (5%)
	Cattle (8%)	Vegetable Oils & Fats (4%)
	Leguminous Crops & Oil Seeds (6%)	Other Animals & Services to Ag. (3%)
	Fruits & Nuts (5%)	Refined Petroleum Products (3%)
	Sheep (5%)	Forestry & Logging (3%)
	Maize (5%)	Food Products & Other Feeds (2%)
	Rice (3%)	Health & Social Work Activities (2%)
Water Stress	Rice (24%)	Rice (17%)
	Leguminous Crops & Oil Seeds (14%)	Cereal Products (9%)
	Wheat (9%)	Textiles & Clothing (8%)
	Spice & Drug Crops (5%)	Food Products & Other Feeds (6%)
	Basic Organic Chemicals (5%)	Non-Nitrogenous & Mixed Fertilizers (4%)
	Maize (4%)	Leather & Footwear (4%)
	Fruits & Nuts (4%)	Vegetable Oils & Fats (3%)
	Basic Iron & Steel (4%)	Hospitality (3%)
	Grapes (3%)	Pharmaceuticals & Medicinal Products (2%)
	Other Crops (2%)	Fruits & Nuts (2%)

Table 13.
Top economic sectors driving spillovers in China, by source industry and products imported for final consumption

	Source industries in foreign countries	Products imported for final consumption
GHG Emissions	Gas Extraction (17%) Electricity (17%) Leguminous Crops & Oil Seeds (6%) Basic Organic Chemicals (6%) Cattle (6%) Hard Coal (5%) Road Transport (4%) Other Ceramics (3%) Other Animals & Services to Ag. (3%) Machinery & Equipment (2%)	Civil Engineering Construction (13%) Building Construction (11%) Machinery & Equipment (7%) Motor Vehicles & Trailers (6%) Electronics & Precision Instruments (5%) Textiles & Clothing (3%) Electrical Equipment (3%) Cereal Products (2%) Hospitality (2%) Leguminous Crops & Oil Seeds (2%)
Deforestation	Forestry & Logging (59%) Leguminous Crops & Oil Seeds (16%) Cattle (15%) Fruits & Nuts (3%) Rice (2%) Other Animals & Services to Ag. (1%) Sheep (1%) Maize (1%) Vegetable Products (<1%) Fiber Crops (<1%)	Forestry & Logging (18%) Civil Engineering Construction (11%) Building Construction (11%) Leguminous Crops & Oil Seeds (4%) Cattle (4%) Furniture & Other Manufacturing (3%) Cereal Products (3%) Non-Nitrogenous & Mixed Fertilizers (2%) Hospitality (2%) Swine (2%)
Water Stress	Leguminous Crops & Oil Seeds (55%) Other Crops (7%) Rice (5%) Fruits & Nuts (5%) Fiber Crops (3%) Copper Ores (2%) Spice & Drug Crops (2%) Wheat (2%) Sugar Beet & Cane (2%) Seeds & Plant Propagation (2%)	Leguminous Crops & Oil Seeds (17%) Cereal Products (6%) Civil Engineering Construction (5%) Textiles & Clothing (5%) Hospitality (4%) Building Construction (4%) Rice (4%) Swine (4%) Food Products & Other Feeds (4%) Poultry (3%)

Table 14.
Top economic sectors driving spillovers in the European Union, by source industry and products imported for final consumption

	Source industries in foreign countries	Products imported for final consumption
GHG Emissions	Electricity (20%)	Textiles & Clothing (8%)
	Gas Extraction (17%)	Electricity (6%)
	Basic Organic Chemicals (5%)	Motor Vehicles & Trailers (5%)
	Road Transport (5%)	Electronics & Precision Instruments (5%)
	Hard Coal (5%)	Furniture & Other Manufacturing (4%)
	Textiles & Clothing (4%)	Civil Engineering Construction (4%)
	Basic Inorganic Chemicals (3%)	Machinery & Equipment (4%)
	Other Animals & Services to Ag. (3%)	Health & Social Work Activities (4%)
	Waste Services (3%)	Building Construction (4%)
	Electronics & Precision Instruments (2%)	Wholesale & Retail; Vehicle Repair (3%)
Deforestation	Forestry & Logging (39%)	Forestry & Logging (17%)
	Cattle (16%)	Beverage Crops (13%)
	Beverage Crops (15%)	Cattle (5%)
	Fruits & Nuts (8%)	Fruits & Nuts (4%)
	Leguminous Crops & Oil Seeds (7%)	Furniture & Other Manufacturing (4%)
	Other Animals & Services to Ag. (5%)	Hospitality (3%)
	Sheep (4%)	Textiles & Clothing (3%)
	Maize (2%)	Building Construction (3%)
	Rice (1%)	Civil Engineering Construction (3%)
	Vegetable Products (1%)	Sawmill Products (3%)
Water Stress	Leguminous Crops & Oil Seeds (19%)	Textiles & Clothing (12%)
	Wheat (12%)	Food Products & Other Feeds (7%)
	Fruits & Nuts (12%)	Vegetable Products (5%)
	Other Crops (7%)	Fruits & Nuts (5%)
	Rice (5%)	Leguminous Crops & Oil Seeds (4%)
	Basic Iron & Steel (3%)	Fruit Products (3%)
	Spice & Drug Crops (3%)	Hospitality (3%)
	Sugar Beet & Cane (3%)	Sugar, Chocolate, Confection (3%)
	Grapes (3%)	Rice (2%)
	Basic Organic Chemicals (3%)	Furniture & Other Manufacturing (2%)

Table 15.
Top economic sectors driving spillovers in India, by source industry and products imported for final consumption

	Source industries in foreign countries	Products imported for final consumption
GHG Emissions	Gas Extraction (23%)	Civil Engineering Construction (11%)
	Electricity (18%)	Building Construction (10%)
	Hard Coal (12%)	Motor Vehicles & Trailers (7%)
	Basic Organic Chemicals (6%)	Machinery & Equipment (6%)
	Other Ceramics (5%)	Electronics & Precision Instruments (6%)
	Road Transport (3%)	Textiles & Clothing (6%)
	Basic Inorganic Chemicals (2%)	Electricity (5%)
	Machinery & Equipment (2%)	Gaseous Fuels Utilities (4%)
	Cement, Lime & Plaster Products (2%)	Electrical Equipment (4%)
	Electronics & Precision Instruments (2%)	Other Chemical Products (2%)
Deforestation	Forestry & Logging (32%)	Vegetable Oils & Fats (25%)
	Leguminous Crops & Oil Seeds (25%)	Forestry & Logging (13%)
	Fruits & Nuts (22%)	Fruits & Nuts (6%)
	Beverage Crops (5%)	Vegetable Products (5%)
	Cattle (5%)	Beverage Crops (5%)
	Vegetable Products (3%)	Sugar, Chocolate, Confection (5%)
	Sheep (3%)	Civil Engineering Construction (3%)
	Maize (1%)	Building Construction (2%)
	Dairy Products (1%)	Motor Vehicles & Trailers (2%)
	Other Animals & Services to Ag. (1%)	Sawmill Products (2%)
Water Stress	Fruits & Nuts (23%)	Fruits & Nuts (15%)
	Leguminous Crops & Oil Seeds (14%)	Vegetable Products (9%)
	Wheat (9%)	Seeds & Plant Propagation (7%)
	Seeds & Plant Propagation (8%)	Textiles & Clothing (6%)
	Basic Organic Chemicals (6%)	Vegetable Oils & Fats (6%)
	Fiber Crops (6%)	Food Products & Other Feeds (5%)
	Vegetable Products (4%)	Fiber Crops (4%)
	Basic Iron & Steel (4%)	Electronics & Precision Instruments (3%)
	Spice & Drug Crops (4%)	Machinery & Equipment (3%)
	Electricity (2%)	Civil Engineering Construction (3%)

Table 16.
Top economic sectors driving spillovers in Indonesia, by source industry and products imported for final consumption

	Source industries in foreign countries	Products imported for final consumption
GHG Emissions	Electricity (22%)	Building Construction (11%)
	Gas Extraction (14%)	Civil Engineering Construction (8%)
	Basic Organic Chemicals (6%)	Machinery & Equipment (6%)
	Cattle (5%)	Textiles & Clothing (6%)
	Hard Coal (4%)	Electronics & Precision Instruments (5%)
	Machinery & Equipment (3%)	Rice (4%)
	Basic Inorganic Chemicals (3%)	Other Chemical Products (3%)
	Textiles & Clothing (3%)	Wholesale & Retail; Vehicle Repair (3%)
	Road Transport (3%)	Motor Vehicles & Trailers (3%)
	Cement, Lime & Plaster Products (2%)	Other Transport Equipment (3%)
Deforestation	Forestry & Logging (34%)	Fruits & Nuts (15%)
	Fruits & Nuts (25%)	Forestry & Logging (12%)
	Cattle (8%)	Hospitality (7%)
	Leguminous Crops & Oil Seeds (8%)	Rice (7%)
	Rice (7%)	Building Construction (5%)
	Fiber Crops (4%)	Cereal Products (4%)
	Sheep (3%)	Animal Oils & Fats (3%)
	Maize (3%)	Fiber Crops (3%)
	Sugar Beet & Cane (2%)	Sugar, Chocolate, Confection (3%)
	Other Animals & Services to Ag. (2%)	Furniture & Other Manufacturing (3%)
Water Stress	Leguminous Crops & Oil Seeds (27%)	Leguminous Crops & Oil Seeds (12%)
	Wheat (12%)	Rice (9%)
	Rice (9%)	Hospitality (9%)
	Fruits & Nuts (9%)	Cereal Products (6%)
	Sugar Beet & Cane (5%)	Textiles & Clothing (6%)
	Basic Iron & Steel (5%)	Sugar, Chocolate, Confection (5%)
	Spice & Drug Crops (5%)	Fruits & Nuts (4%)
	Maize (4%)	Building Construction (4%)
	Basic Organic Chemicals (4%)	Wheat (3%)
	Fiber Crops (3%)	Civil Engineering Construction (3%)

Table 17.
Top economic sectors driving spillovers in Japan, by source industry and products imported for final consumption

	Source industries in foreign countries	Products imported for final consumption
GHG Emissions	Gas Extraction (23%)	Electronics & Precision Instruments (10%)
	Electricity (18%)	Textiles & Clothing (8%)
	Hard Coal (7%)	Electricity (7%)
	Basic Organic Chemicals (4%)	Building Construction (5%)
	Textiles & Clothing (4%)	Health & Social Work Activities (5%)
	Road Transport (3%)	Wholesale & Retail; Vehicle Repair (5%)
	Cattle (3%)	Gaseous Fuels Utilities (4%)
	Electronics & Precision Instruments (3%)	Civil Engineering Construction (4%)
	Other Animals & Services to Ag. (3%)	Refined Petroleum Products (3%)
	Basic Inorganic Chemicals (3%)	Hospitality (3%)
Deforestation	Forestry & Logging (73%)	Forestry & Logging (30%)
	Cattle (8%)	Building Construction (17%)
	Leguminous Crops & Oil Seeds (5%)	Furniture & Other Manufacturing (4%)
	Other Animals & Services to Ag. (4%)	Cattle (4%)
	Beverage Crops (3%)	Civil Engineering Construction (4%)
	Fruits & Nuts (2%)	Food Products & Other Feeds (3%)
	Other Crops (1%)	Hospitality (3%)
	Maize (1%)	Wholesale & Retail; Vehicle Repair (3%)
	Sheep (1%)	Textiles & Clothing (2%)
	Vegetable Products (1%)	Health & Social Work Activities (2%)
Water Stress	Leguminous Crops & Oil Seeds (21%)	Food Products & Other Feeds (14%)
	Other Crops (12%)	Textiles & Clothing (12%)
	Rice (12%)	Rice (9%)
	Wheat (11%)	Electronics & Precision Instruments (5%)
	Maize (6%)	Other Crops (4%)
	Basic Organic Chemicals (4%)	Cattle (4%)
	Basic Iron & Steel (3%)	Vegetable Products (4%)
	Fruits & Nuts (3%)	Cereal Products (3%)
	Spice & Drug Crops (2%)	Hospitality (3%)
	Swine (2%)	Health & Social Work Activities (2%)

Table 18.

Top economic sectors driving spillovers in Singapore, by source industry and products imported for final consumption

	Source industries in foreign countries	Products imported for final consumption
GHG Emissions	Electricity (22%) Gas Extraction (8%) Road Transport (6%) Cement, Lime & Plaster Products (5%) Hard Coal (4%) Basic Organic Chemicals (4%) Machinery & Equipment (3%) Cattle (3%) Electronics & Precision Instruments (3%) Textiles & Clothing (3%)	Building Construction (12%) Electronics & Precision Instruments (7%) Government Services (7%) Other Transport Equipment (5%) Furniture & Other Manufacturing (5%) Machinery & Equipment (5%) Textiles & Clothing (4%) Wholesale & Retail; Vehicle Repair (3%) Road Transport (3%) Health & Social Work Activities (2%)
Deforestation	Fruits & Nuts (35%) Forestry & Logging (18%) Cattle (17%) Leguminous Crops & Oil Seeds (9%) Other Animals & Services to Ag. (5%) Other Crops (3%) Vegetables, Roots, Tubers (3%) Beverage Crops (2%) Rice (2%) Maize (1%)	Fruits & Nuts (33%) Cattle (13%) Furniture & Other Manufacturing (5%) Other Animals & Services to Ag. (4%) Forestry & Logging (3%) Building Construction (3%) Other Crops (2%) Hospitality (2%) Vegetables, Roots, Tubers (2%) Leguminous Crops & Oil Seeds (2%)
Water Stress	Leguminous Crops & Oil Seeds (13%) Wheat (13%) Rice (12%) Fruits & Nuts (9%) Spice & Drug Crops (6%) Basic Iron & Steel (6%) Sugar Beet & Cane (5%) Other Crops (3%) Basic Organic Chemicals (3%) Maize (2%)	Rice (10%) Textiles & Clothing (7%) Fruits & Nuts (6%) Building Construction (4%) Sugar, Chocolate, Confection (4%) Cereal Products (4%) Food Products & Other Feeds (4%) Furniture & Other Manufacturing (4%) Government Services (4%) Other Transport Equipment (3%)

Table 19.
Top economic sectors driving spillovers in South Korea, by source industry and products imported for final consumption

	Source industries in foreign countries	Products imported for final consumption
GHG Emissions	Gas Extraction (19%)	Civil Engineering Construction (10%)
	Electricity (18%)	Textiles & Clothing (9%)
	Hard Coal (8%)	Electronics & Precision Instruments (6%)
	Basic Organic Chemicals (5%)	Machinery & Equipment (6%)
	Cattle (4%)	Electricity (6%)
	Textiles & Clothing (4%)	Health & Social Work Activities (6%)
	Basic Inorganic Chemicals (3%)	Hospitality (5%)
	Other Animals & Services to Ag. (3%)	Motor Vehicles & Trailers (4%)
	Road Transport (3%)	Food Products & Other Feeds (3%)
	Petroleum Extraction (3%)	Professional, Science & Tech Services (3%)
Deforestation	Forestry & Logging (62%)	Forestry & Logging (28%)
	Cattle (7%)	Civil Engineering Construction (10%)
	Leguminous Crops & Oil Seeds (7%)	Hospitality (7%)
	Maize (6%)	Food Products & Other Feeds (5%)
	Other Animals & Services to Ag. (4%)	Textiles & Clothing (4%)
	Fruits & Nuts (3%)	Building Construction (3%)
	Beverage Crops (3%)	Health & Social Work Activities (3%)
	Sheep (2%)	Furniture & Other Manufacturing (3%)
	Wheat (1%)	Maize (2%)
	Rice (1%)	Education (2%)
Water Stress	Leguminous Crops & Oil Seeds (19%)	Food Products & Other Feeds (17%)
	Wheat (17%)	Textiles & Clothing (10%)
	Other Crops (11%)	Hospitality (7%)
	Rice (10%)	Rice (6%)
	Maize (6%)	Civil Engineering Construction (4%)
	Basic Iron & Steel (4%)	Other Crops (4%)
	Basic Organic Chemicals (3%)	Health & Social Work Activities (4%)
	Fruits & Nuts (3%)	Wheat (3%)
	Sugar Beet & Cane (2%)	Vegetable Products (3%)
	Other Animals & Services to Ag. (2%)	Leguminous Crops & Oil Seeds (3%)

Table 20.
Top economic sectors driving spillovers in the United States, by source industry and products imported for final consumption

	Source industries in foreign countries	Products imported for final consumption
GHG Emissions	Electricity (22%)	Textiles & Clothing (10%)
	Gas Extraction (9%)	Motor Vehicles & Trailers (8%)
	Textiles & Clothing (6%)	Electronics & Precision Instruments (8%)
	Basic Organic Chemicals (5%)	Government Services (6%)
	Road Transport (5%)	Furniture & Other Manufacturing (6%)
	Electronics & Precision Instruments (5%)	Building Construction (5%)
	Hard Coal (4%)	Machinery & Equipment (5%)
	Basic Inorganic Chemicals (3%)	Health & Social Work Activities (4%)
	Other Animals & Services to Ag. (3%)	Wholesale & Retail; Vehicle Repair (3%)
	Machinery & Equipment (3%)	Pharmaceuticals & Medicinal Products (3%)
Deforestation	Forestry & Logging (68%)	Forestry & Logging (18%)
	Cattle (8%)	Building Construction (9%)
	Other Animals & Services to Ag. (6%)	Furniture & Other Manufacturing (6%)
	Fruits & Nuts (4%)	Sawmill Products (5%)
	Beverage Crops (4%)	Government Services (4%)
	Leguminous Crops & Oil Seeds (3%)	Health & Social Work Activities (3%)
	Sheep (2%)	Textiles & Clothing (3%)
	Maize (1%)	Pulp & Paper (3%)
	Other Crops (1%)	Food Products & Other Feeds (3%)
	Sugar Beet & Cane (1%)	Beverage Crops (3%)
Water Stress	Leguminous Crops & Oil Seeds (16%)	Textiles & Clothing (17%)
	Wheat (12%)	Food Products & Other Feeds (8%)
	Spice & Drug Crops (7%)	Furniture & Other Manufacturing (4%)
	Other Crops (6%)	Fruit Products (4%)
	Basic Iron & Steel (6%)	Motor Vehicles & Trailers (4%)
	Fruits & Nuts (6%)	Government Services (4%)
	Sugar Beet & Cane (5%)	Electronics & Precision Instruments (4%)
	Basic Organic Chemicals (4%)	Alcoholic & Other Beverages (3%)
	Rice (4%)	Vegetable Products (3%)
	Maize (3%)	Health & Social Work Activities (3%)

Table 21.
Top economic sectors driving spillovers in Vietnam, by source industry and products imported for final consumption

	Source industries in foreign countries	Products imported for final consumption
GHG Emissions	Cattle (17%)	Civil Engineering Construction (10%)
	Electricity (16%)	Pork (8%)
	Other Animals & Services to Ag. (9%)	Waste Services (6%)
	Waste Services (7%)	Materials Recovery (5%)
	Gas Extraction (5%)	Cereal Products (5%)
	Hard Coal (5%)	Building Construction (4%)
	Basic Organic Chemicals (4%)	Cattle (3%)
	Maize (3%)	Crustaceans & Mollusks (3%)
	Road Transport (2%)	Machinery & Equipment (3%)
	Basic Inorganic Chemicals (2%)	Motor Vehicles & Trailers (3%)
Deforestation	Cattle (28%)	Pork (13%)
	Forestry & Logging (26%)	Beverage Crops (7%)
	Maize (13%)	Cereal Products (6%)
	Fruits & Nuts (8%)	Hospitality (6%)
	Beverage Crops (8%)	Civil Engineering Construction (5%)
	Leguminous Crops & Oil Seeds (5%)	Alcoholic & Other Beverages (4%)
	Other Animals & Services to Ag. (3%)	Dairy Products (4%)
	Vegetables, Roots, Tubers (2%)	Poultry Meat (3%)
	Fiber Crops (2%)	Forestry & Logging (3%)
	Vegetable Products (2%)	Rice (3%)
Water Stress	Spice & Drug Crops (17%)	Pork (15%)
	Leguminous Crops & Oil Seeds (17%)	Cereal Products (9%)
	Fruits & Nuts (11%)	Spice & Drug Crops (6%)
	Wheat (11%)	Food Products & Other Feeds (5%)
	Sugar Beet & Cane (8%)	Hospitality (5%)
	Cattle (4%)	Civil Engineering Construction (3%)
	Other Animals & Services to Ag. (4%)	Cattle (3%)
	Basic Iron & Steel (4%)	Alcoholic & Other Beverages (3%)
	Fiber Crops (3%)	Poultry Meat (3%)
	Basic Organic Chemicals (2%)	Crustaceans & Mollusks (3%)

References

Bond, T. C., Doherty, S. J., Fahey, D. W., Forster, P. M., Berntsen, T., DeAngelo, B. J., Flanner, M. G., Ghan, S., Kärcher, B., Koch, D., Kinne, S., Kondo, Y., Quinn, P. K., Sarofim, M. C., Schultz, M. G., Schulz, M., Venkataraman, C., Zhang, H., Zhang, S., ... Zender, C. S. (2013). Bounding the role of black carbon in the climate system: A scientific assessment. *Journal of Geophysical Research: Atmospheres*, *118*(11), 5380–5552. https://doi.org/10.1002/jgrd.50171

Cardinale, B. (2012). Impacts of Biodiversity Loss. *Science*, *336*(6081), 552–553. https://doi.org/10.1126/science.1222102

Chipperfield, M. P., Hossaini, R., Montzka, S. A., Reimann, S., Sherry, D., & Tegtmeier, S. (2020). Renewed and emerging concerns over the production and emission of ozone-depleting substances. *Nature Reviews Earth & Environment*, *1*(5), 251–263. https://doi.org/10.1038/s43017-020-0048-8

Doney, S. C., Fabry, V. J., Feely, R. A., & Kleypas, J. A. (2009). Ocean Acidification: The Other CO_2 Problem. *Annual Review of Marine Science*, *1*(1), 169–192. https://doi.org/10.1146/annurev.marine.010908.163834

Food and Agriculture Organization. (2016). *Common Oceans: Global Sustainable Fisheries Management and Biodiversity Conservation in Areas Beyond National Jurisdiction*. http://www.fao.org/3/a-i5500e.pdf

Hooper, D. U., Adair, E. C., Cardinale, B. J., Byrnes, J. E. K., Hungate, B. A., Matulich, K. L., Gonzalez, A., Duffy, J. E., Gamfeldt, L., & O'Connor, M. I. (2012). A global synthesis reveals biodiversity loss as a major driver of ecosystem change. *Nature*, *486*(7401), 105–108. https://doi.org/10.1038/nature11118

IPCC. (2021). Summary for Policymakers. In V. Masson-Delmotte, P. Zhai, A. Pirani, S. L. Connors, C. Péan, S. Berger, N. Caud, Y. Chen, L. Goldfarb, M. I. Gomis, M. Huang, K. Leitzell, E. Lonnoy, J. B. R. Matthews, T. K. Maycock, T. Waterfield, O. Yelekçi, R. Yu, & B. Zhou (Eds.), *Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change*. Cambridge University Press.

Ishii, N., Dasgupta, A., Lafortune, G., Oppenheim, J., Rockström, J., Schmidt-Traub, G., Cornehl, F., & von Preussen, A. (2022). *Safeguarding the Global Commons for human prosperity and environmental sustainability. The Global Commons Stewardship Framework.* Center for Global Commons, University of Tokyo.

Lafortune, G., Wendling, Z. A., Schmidt-Traub, G., Woelm, F., Baez, C., Miller, R., Esty, D. C., Ishii, N., & Kawazaki, A. (2021). Measuring countries' impacts on the Global Commons: A new approach based on production and consumption based accounting. In OECD & Joint Research Centre - European Commission, *Understanding the Spillovers and Transboundary Impacts of Public Policies: Implementing the 2030 Agenda for More Resilient Societies* (pp. 167–191). OECD. https://doi.org/10.1787/862c0db7-en

Lassaletta, L., Billen, G., Garnier, J., Bouwman, L., Velazquez, E., Mueller, N. D., & Gerber, J. S. (2016). Nitrogen use in the global food system: Past trends and future trajectories of agronomic performance, pollution, trade, and dietary demand. *Environmental Research Letters*, *11*(9), 095007. https://doi.org/10.1088/1748-9326/11/9/095007

Lenzen, M., Geschke, A., Abd Rahman, M. D., Xiao, Y., Fry, J., Reyes, R., Dietzenbacher, E., Inomata, S., Kanemoto, K., Los, B., Moran, D., Schulte in den Bäumen, H., Tukker, A., Walmsley, T., Wiedmann, T., Wood, R., & Yamano, N. (2017). The Global MRIO Lab – charting the world economy. *Economic Systems Research*, *29*(2), 158–186. https://doi.org/10.1080/09535314.2017.1301887

Lenzen, M., Geschke, A., West, J., Fry, J., Malik, A., Giljum, S., Milà i Canals, L., Piñero, P., Lutter, S., Wiedmann, T., Li, M., Sevenster, M., Potočnik, J., Teixeira, I., Van Voore, M., Nansai, K., & Schandl, H. (2022). Implementing the material footprint to measure progress towards Sustainable Development Goals 8 and 12. *Nature Sustainability*, *5*(2), 157–166. https://doi.org/10.1038/s41893-021-00811-6

Levitsky, M. (2011). *Black Carbon and Climate Change: Considerations for International Development Agencies* (Environment Department Papers No. 112; Climate Change). World Bank. https://openknowledge.worldbank.org/handle/10986/18317

MacDonald, G. K., Bennett, E. M., Potter, P. A., & Ramankutty, N. (2011). Agronomic phosphorus imbalances across the world's croplands. *Proceedings of the National Academy of Sciences*, *108*(7), 3086–3091. https://doi.org/10.1073/pnas.1010808108

Malik, A., Lafortune, G., Carter, S., Li, M., Lenzen, M., & Kroll, C. (2021). International spillover effects in the EU's textile supply chains: A global SDG assessment. *Journal of Environmental Management*, *295*, 113037. https://doi.org/10.1016/j.jenvman.2021.113037

Nardo, M., Saisana, M., Saltelli, A., Tarantola, S., Hoffmann, A., & Giovannini, E. (2008). *Handbook on constructing composite indicators: Methodology and user guide*. OECD. https://www.oecd.org/std/42495745.pdf

OECD. (2019). *Measuring Distance to the SDG Targets 2019: An Assessment of Where OECD Countries Stand*. OECD. https://doi.org/10.1787/a8caf3fa-en

Peñuelas, J., Poulter, B., Sardans, J., Ciais, P., van der Velde, M., Bopp, L., Boucher, O., Godderis, Y., Hinsinger, P., Llusia, J., Nardin, E., Vicca, S., Obersteiner, M., & Janssens, I. A. (2013). Human-induced nitrogen–phosphorus imbalances alter natural and managed ecosystems across the globe. *Nature Communications*, *4*(1), 2934. https://doi.org/10.1038/ncomms3934

Peters, G. P., & Hertwich, E. G. (2008). Post-Kyoto greenhouse gas inventories: Production versus consumption. *Climatic Change*, *86*(1), 51–66. https://doi.org/10.1007/s10584-007-9280-1

Poff, N. L., & Zimmerman, J. K. H. (2010). Ecological responses to altered flow regimes: A literature review to inform the science and management of environmental flows: Review of altered flow regimes. *Freshwater Biology*, *55*(1), 194–205. https://doi.org/10.1111/j.1365-2427.2009.02272.x

Ramanathan, V., & Carmichael, G. (2008). Global and regional climate changes due to black carbon. *Nature Geoscience*, *1*(4), 221–227. https://doi.org/10.1038/ngeo156

Reid, A. J., Carlson, A. K., Creed, I. F., Eliason, E. J., Gell, P. A., Johnson, P. T. J., Kidd, K. A., MacCormack, T. J., Olden, J. D., Ormerod, S. J., Smol, J. P., Taylor, W. W., Tockner, K., Vermaire, J. C., Dudgeon, D., & Cooke, S. J. (2019). Emerging threats and persistent conservation challenges for freshwater biodiversity. *Biological Reviews*, *94*(3), 849–873. https://doi.org/10.1111/brv.12480

Sachs, J., Kroll, C., Lafortune, G., Fuller, G., & Woelm, F. (2022). *Sustainable Development Report 2022*. Cambridge University Press. https://doi.org/10.1017/9781009210058

Shukla, P. R., Skea, J., Calvo Buendia, E., Masson-Delmotte, V., Pörtner, H.-O., Roberts, D. C., Zhai, P., Slade, R., Connors, S., van Diemen, R., Ferrat, M., Haughey, E., Luz, S., Neogi, S., Pathak, M., Petzold, J., Portugal Pereira, J., Vyas, P., Huntley, E., ... Malley, J. (Eds.). (2019). Summary for Policymakers. In *Climate Change and Land: An IPCC special report on climate change, desertification, land degradation, sustainable land management, food security, and greenhouse gas fluxes in terrestrial ecosystems*. In press. https://www.ipcc.ch/srccl/chapter/summary-for-policymakers/

United Nations Development Programme. (2022). *Human Development Report 2021-22*. http://report.hdr.undp.org

Part 5.

COUNTRY PROFILES

Albania

Eastern Europe and Central Asia

Land area	27,400 sq. km	**Population**	2.8 million
GDP (PPP, constant 2017 US$, billions)	$37.7	**GDP per capita**	$13,295
Human Development Index (HDI)	0.796	**HDI category**	High

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		59.8 /100	
ABSOLUTE		83.4 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories
Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Albania

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	3.94	kg/capita	65.3	●	↓	11.30	Gg	2018
Spillover SO_2 emissions	2.89	kg/capita	61.6	●	↑	8.33	Gg	2015
Domestic NO_X emissions	8.73	kg/capita	92.1	●	↓	25.04	Gg	2018
Spillover NO_X emissions	2.54	kg/capita	63.2	●	↑	7.31	Gg	2015
Domestic black carbon emissions	0.27	kg/capita	84.2	●	↗	0.78	Gg	2018
Spillover black carbon emissions	0.08	kg/capita	70.1	●	↗	0.24	Gg	2015
GHG Emissions								
Domestic GHG emissions	3.39	t CO_2e/capita	79.5	●	↓	9.68	Tg	2019
Spillover GHG emissions	2.10	t CO_2e/capita	54.0	●	↓	6.02	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA	●	●	NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	50.49	%	51.2	●	↓	50.49	%	2020
Unprotected freshwater biodiversity sites	96.61	%	4.5	●	↓	96.61	%	2020
Domestic land use related biodiversity loss	1.32×10^{-11}	global PDF/capita	82.5	●	→	3.78×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	4.27×10^{-12}	global PDF/capita	77.5	●	↓	1.22×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	5.43	spp./million	1.0	●	●	15.64	species	2018
Spillover freshwater biodiversity threats	0.13	spp./million	32.1	●	●	0.39	species	2018
Domestic deforestation	0.17	%	86.9	●	↓	1.03×10^{3}	hectares	2020
Spillover deforestation	1.12×10^{-3}	ha/capita	85.7	●	↓	3.21×10^{3}	hectares	2018
Red List Index of species survival	0.84	scale 0 to 1	52.8	●	↓	0.84	scale 0 to 1	2021
Biodiversity Habitat Index	0.35	scale 0 to 1	9.2	●	●	0.35	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	70.70	%	30.0	●	↓	70.70	%	2020
Domestic marine biodiversity threats	0.14	spp./million	56.9	●	●	0.41	species	2018
Spillover marine biodiversity threats	0.05	spp./million	40.3	●	●	0.14	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	84.35	%	1.0	●	↓	84.35	%	2018
Domestic vulnerable fisheries catch	9.53	tonnes/capita	38.8	●	→	0.03	Tg	2018
Spillover vulnerable fisheries catch	5.12	tonnes/capita	45.4	●	↓	0.01	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.83	scale 0 to 1.4	28.9	●	→	0.83	scale 0 to 1.4	2015
Domestic nitrogen surplus	21.26	kg/capita	40.1	●	↓	61.24	Gg	2015
Spillover nitrogen surplus	1.41	kg/capita	53.5	●	→	4.05	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	1.78	g/capita	51.3	●	↓	5.11	kt	2018
Water Cycle								
Domestic scarce water consumption	10.42	m^3 H_2O-eq./capita	35.9	●	↓	29.86	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	11.64	m^3 H_2O-eq./capita	78.3	●	↓	358.67	Mm^3 H_2O-eq.	2018
Domestic water stress	1.97	ML H_2O-eq./capita	27.7	●	↓	5.64	Bm^3 H_2O-eq.	2018
Spillover water stress	0.59	m^3 H_2O-eq./capita	71.7	●	↓	18.33	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Algeria

Middle East and North Africa

Land area	2,381,741 sq. km	**Population**	43.9 million
GDP (PPP, constant 2017 US$, billions)	$468.4	**GDP per capita**	$10,682
Human Development Index (HDI)	0.745	**HDI category**	High

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		53.4 /100	→
ABSOLUTE		43.6 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories
Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Algeria

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	1.32	kg/capita	NA	●	↑	55.76	Gg	2018
Spillover SO_2 emissions	2.85	kg/capita	62.0	●	↓	113.21	Gg	2015
Domestic NO_X emissions	13.60	kg/capita	82.2	●	↓	574.28	Gg	2018
Spillover NO_X emissions	3.02	kg/capita	58.6	●	↓	119.80	Gg	2015
Domestic black carbon emissions	0.28	kg/capita	83.9	●	↑	11.64	Gg	2018
Spillover black carbon emissions	0.11	kg/capita	62.1	●	↓	4.35	Gg	2015
GHG Emissions								
Domestic GHG emissions	6.45	t CO_2e/capita	54.6	●	↓	277.57	Tg	2019
Spillover GHG emissions	1.34	t CO_2e/capita	66.7	●	↑	56.39	Tg	2018
CO_2 emissions embodied in fossil fuel exports	3.11	t CO_2e/capita	13.0	●	●	128.76	Tg	2017
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	36.47	%	65.4	●	↓	36.47	%	2020
Unprotected freshwater biodiversity sites	76.27	%	25.5	●	↓	76.27	%	2020
Domestic land use related biodiversity loss	2.71×10^{-13}	global PDF/capita	99.7	●	↗	1.14×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	2.51×10^{-12}	global PDF/capita	88.0	●	↑	1.06×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	0.16	spp./million	48.9	●	●	6.86	species	2018
Spillover freshwater biodiversity threats	0.02	spp./million	64.9	●	●	0.80	species	2018
Domestic deforestation	0.98	%	26.5	●	↓	8.05×10^{3}	hectares	2020
Spillover deforestation	9.69×10^{-4}	ha/capita	87.9	●	→	4.09×10^{4}	hectares	2018
Red List Index of species survival	0.91	scale 0 to 1	75.6	●	↓	0.91	scale 0 to 1	2021
Biodiversity Habitat Index	0.60	scale 0 to 1	44.5	●	●	0.60	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	7.74×10^{-9}	WOE/million	100.0	●	●	3.33×10^{-1}	WOE	2019
Spillover endangered terrestrial animals	8.83×10^{-7}	WOE/capita	100.0	●	●	3.80×10	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	2.82×10^{-5}	WOE/capita	98.2	●	●	1.22×10^{3}	WOE	2019
Unprotected marine biodiversity sites	76.58	%	24.2	●	↓	76.58	%	2020
Domestic marine biodiversity threats	0.58	spp./million	37.4	●	●	24.66	species	2018
Spillover marine biodiversity threats	0.00	spp./million	70.0	●	●	0.19	species	2018
Fish caught from overexploited or collapsed stocks	19.59	%	68.8	●	↓	19.59	%	2018
Fish caught by trawling	21.39	%	65.2	●	↓	21.39	%	2018
Domestic vulnerable fisheries catch	8.44	tonnes/capita	40.4	●	→	0.36	Tg	2018
Spillover vulnerable fisheries catch	1.44	tonnes/capita	66.6	●	↑	0.06	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.71	scale 0 to 1.4	39.7	●	→	0.71	scale 0 to 1.4	2015
Domestic nitrogen surplus	1.44	kg/capita	97.2	●	↓	57.06	Gg	2015
Spillover nitrogen surplus	0.94	kg/capita	61.1	●	↓	37.38	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	2.38	g/capita	42.5	●	↓	100.32	kt	2018
Water Cycle								
Domestic scarce water consumption	2.35	m^3 H_2O-eq./capita	52.6	●	↓	99.17	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	46.29	m^3 H_2O-eq./capita	42.4	●	↑	132.68	Mm^3 H_2O-eq.	2018
Domestic water stress	0.33	ML H_2O-eq./capita	50.8	●	↓	13.83	Bm^3 H_2O-eq.	2018
Spillover water stress	2.01	m^3 H_2O-eq./capita	40.1	●	↑	5.77	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Angola

Africa

Land area	1,246,700 sq. km	**Population**	32.9 million
GDP (PPP, constant 2017 US$, billions)	$203.7	**GDP per capita**	$6,198
Human Development Index (HDI)	0.586	**HDI category**	Medium

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	68.8 /100	↗
ABSOLUTE	●	56.9 /100	↗

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Angola

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	2.92	kg/capita	72.2	●	↑	89.98	Gg	2018
Spillover SO_2 emissions	2.80	kg/capita	62.5	●	→	78.18	Gg	2015
Domestic NO_X emissions	5.29	kg/capita	99.2	●	↑	162.89	Gg	2018
Spillover NO_X emissions	3.29	kg/capita	56.3	●	↓	91.63	Gg	2015
Domestic black carbon emissions	0.54	kg/capita	60.1	●	→	16.62	Gg	2018
Spillover black carbon emissions	0.11	kg/capita	61.4	●	↗	3.14	Gg	2015
GHG Emissions								
Domestic GHG emissions	3.16	t CO_2e/capita	82.2	●	↑	100.70	Tg	2019
Spillover GHG emissions	0.85	t CO_2e/capita	79.3	●	↑	26.23	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.12	t CO_2e/capita	28.0	●	●	3.69	Tg	2019
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	28.05	%	73.9	●	↓	28.05	%	2020
Unprotected freshwater biodiversity sites	42.83	%	60.1	●	↓	42.83	%	2020
Domestic land use related biodiversity loss	2.35×10^{-12}	global PDF/capita	96.9	●	→	7.26×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	2.40×10^{-12}	global PDF/capita	88.7	●	↑	7.40×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.87	spp./million	26.0	●	●	26.77	species	2018
Spillover freshwater biodiversity threats	0.04	spp./million	50.9	●	●	1.35	species	2018
Domestic deforestation	0.41	%	69.4	●	↓	2.19×10^{5}	hectares	2020
Spillover deforestation	2.32×10^{-3}	ha/capita	68.1	●	↑	7.14×10^{4}	hectares	2018
Red List Index of species survival	0.93	scale 0 to 1	81.5	●	↗	0.93	scale 0 to 1	2021
Biodiversity Habitat Index	0.61	scale 0 to 1	47.0	●	●	0.61	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	3.14×10^{-8}	WOE/million	100.0	●	●	1.00	WOE	2019
Spillover endangered terrestrial animals	1.89×10^{-7}	WOE/capita	100.0	●	●	6.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	66.58	%	34.1	●	↓	66.58	%	2020
Domestic marine biodiversity threats	1.34	spp./million	25.8	●	●	41.40	species	2018
Spillover marine biodiversity threats	0.19	spp./million	22.4	●	●	5.88	species	2018
Fish caught from overexploited or collapsed stocks	11.52	%	81.7	●	→	11.52	%	2018
Fish caught by trawling	26.84	%	56.2	●	→	26.84	%	2018
Domestic vulnerable fisheries catch	51.97	tonnes/capita	16.5	●	→	1.60	Tg	2018
Spillover vulnerable fisheries catch	2.28	tonnes/capita	58.9	●	↑	0.07	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.93	scale 0 to 1.4	19.8	●	↓	0.93	scale 0 to 1.4	2015
Domestic nitrogen surplus	2.17	kg/capita	95.1	●	↓	60.54	Gg	2015
Spillover nitrogen surplus	0.74	kg/capita	65.7	●	↓	20.60	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	0.93	g/capita	71.5	●	↑	28.61	kt	2018
Water Cycle								
Domestic scarce water consumption	0.31	m^3 H_2O-eq./capita	75.3	●	↗	9.63	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	154.14	m^3 H_2O-eq./capita	11.1	●	↑	1,484.49	Mm^3 H_2O-eq.	2018
Domestic water stress	0.03	ML H_2O-eq./capita	82.1	●	↗	0.89	Bm^3 H_2O-eq.	2018
Spillover water stress	8.66	m^3 H_2O-eq./capita	2.4	●	↑	83.44	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Argentina

Latin America and Caribbean

Land area	2,736,690 sq. km	**Population**	45.4 million
GDP (PPP, constant 2017 US$, billions)	$893.3	**GDP per capita**	$19,687
Human Development Index (HDI)	0.842	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	45.7 /100	→
ABSOLUTE	●	41.5 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Argentina

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	6.90	kg/capita	52.4	●	↑	307.14	Gg	2018
Spillover SO_2 emissions	2.96	kg/capita	61.0	●	→	127.72	Gg	2015
Domestic NO_X emissions	17.80	kg/capita	73.6	●	→	792.14	Gg	2018
Spillover NO_X emissions	3.71	kg/capita	53.1	●	→	160.19	Gg	2015
Domestic black carbon emissions	0.70	kg/capita	45.2	●	→	31.34	Gg	2018
Spillover black carbon emissions	0.16	kg/capita	52.1	●	→	6.78	Gg	2015
GHG Emissions								
Domestic GHG emissions	10.72	t CO_2e/capita	34.8	●	→	481.94	Tg	2019
Spillover GHG emissions	1.56	t CO_2e/capita	62.4	●	↓	69.26	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.20	t CO_2e/capita	25.4	●	●	9.28	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	32.14	%	69.8	●	↓	32.14	%	2020
Unprotected freshwater biodiversity sites	42.51	%	60.4	●	↓	42.51	%	2020
Domestic land use related biodiversity loss	2.60×10^{-11}	global PDF/capita	65.4	●	→	1.16×10^{-3}	global PDF	2018
Spillover land use related biodiversity loss	1.22×10^{-12}	global PDF/capita	95.7	●	↓	5.45×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.21	spp./million	45.6	●	●	9.17	species	2018
Spillover freshwater biodiversity threats	0.03	spp./million	55.1	●	●	1.51	species	2018
Domestic deforestation	0.44	%	67.2	●	→	1.68×10^{5}	hectares	2020
Spillover deforestation	3.33×10^{-4}	ha/capita	97.2	●	↓	1.48×10^{4}	hectares	2018
Red List Index of species survival	0.84	scale 0 to 1	55.1	●	↓	0.84	scale 0 to 1	2021
Biodiversity Habitat Index	0.43	scale 0 to 1	21.1	●	●	0.43	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	5.37×10^{-3}	WOE/million	44.0	●	●	2.41×10^{5}	WOE	2019
Spillover endangered terrestrial animals	1.45×10^{-6}	WOE/capita	100.0	●	●	6.50×10	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	1.45×10^{-5}	WOE/capita	99.1	●	●	6.53×10^{2}	WOE	2019
Unprotected marine biodiversity sites	42.33	%	58.1	●	↓	42.33	%	2020
Domestic marine biodiversity threats	0.78	spp./million	33.5	●	●	34.39	species	2018
Spillover marine biodiversity threats	0.04	spp./million	43.9	●	●	1.58	species	2018
Fish caught from overexploited or collapsed stocks	60.99	%	2.6	●	↓	60.99	%	2018
Fish caught by trawling	34.37	%	43.8	●	→	34.37	%	2018
Domestic vulnerable fisheries catch	21.87	tonnes/capita	27.9	●	→	0.97	Tg	2018
Spillover vulnerable fisheries catch	1.06	tonnes/capita	71.7	●	↑	0.05	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.32	scale 0 to 1.4	73.4	●	→	0.32	scale 0 to 1.4	2015
Domestic nitrogen surplus	50.01	kg/capita	1.0	●	↓	2,156.92	Gg	2015
Spillover nitrogen surplus	2.76	kg/capita	40.7	●	↓	118.83	Tg	2015
Domestic phosphorus fertilizer	15.49	kg/capita	19.1	●	↓	689.06	kt	2018
Spillover phosphorus fertilizer	0.68	g/capita	81.1	●	↓	30.35	kt	2018
Water Cycle								
Domestic scarce water consumption	1.64	m^3 H_2O-eq./capita	56.7	●	↗	72.92	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	5.01	m^3 H_2O-eq./capita	100.0	●	↓	222.71	Mm^3 H_2O-eq.	2018
Domestic water stress	1.88	ML H_2O-eq./capita	28.2	●	→	83.80	Bm^3 H_2O-eq.	2018
Spillover water stress	0.30	m^3 H_2O-eq./capita	89.4	●	↓	13.34	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Armenia

Eastern Europe and Central Asia

Land area	28,470 sq. km	**Population**	3.0 million
GDP (PPP, constant 2017 US$, billions)	$37.3	**GDP per capita**	$12,593
Human Development Index (HDI)	0.759	**HDI category**	High

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		51.4 /100	
ABSOLUTE		82.2 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

The Global Commons Stewardship Index is a production of the Sustainable Development Solutions Network, the Yale Center for Environmental Law & Policy, and the Center for Global Commons at the University of Tokyo.

Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Armenia

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	0.27	kg/capita	100.0	●	↓	0.80	Gg	2018
Spillover SO_2 emissions	3.94	kg/capita	53.1	●	→	11.51	Gg	2015
Domestic NO_X emissions	5.21	kg/capita	99.4	●	↑	15.37	Gg	2018
Spillover NO_X emissions	4.83	kg/capita	46.1	●	↓	14.13	Gg	2015
Domestic black carbon emissions	0.04	kg/capita	100.0	●	↑	0.12	Gg	2018
Spillover black carbon emissions	0.10	kg/capita	64.9	●	↓	0.29	Gg	2015
GHG Emissions								
Domestic GHG emissions	3.31	t CO_2e/capita	80.5	●	↓	9.78	Tg	2019
Spillover GHG emissions	4.35	t CO_2e/capita	33.5	●	↑	12.83	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA	●	●	NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	22.57	%	79.5	●	↓	22.57	%	2020
Unprotected freshwater biodiversity sites	30.53	%	72.8	●	↓	30.53	%	2020
Domestic land use related biodiversity loss	1.02×10^{-11}	global PDF/capita	86.5	●	→	3.00×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	3.02×10^{-12}	global PDF/capita	85.0	●	→	8.90×10^{-6}	global PDF	2018
Domestic freshwater biodiversity threats	0.07	spp./million	60.9	●	●	0.20	species	2018
Spillover freshwater biodiversity threats	0.00	spp./million	95.2	●	●	0.01	species	2018
Domestic deforestation	0.00	%	99.9	●	↑	2.26	hectares	2020
Spillover deforestation	6.95×10^{-4}	ha/capita	91.9	●	↓	2.05×10^{3}	hectares	2018
Red List Index of species survival	0.83	scale 0 to 1	50.9	●	→	0.83	scale 0 to 1	2021
Biodiversity Habitat Index	0.43	scale 0 to 1	20.9	●	●	0.43	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	2.25×10^{-7}	WOE/million	100.0	●	●	6.67×10^{-1}	WOE	2019
Spillover endangered terrestrial animals	1.36×10^{-3}	WOE/capita	84.1	●	●	4.01×10^{3}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	NA	WOE/million	NA	●	●	NA	WOE	NA
Spillover endangered marine animals	9.30×10^{-5}	WOE/capita	94.1	●	●	2.75×10^{2}	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic marine biodiversity threats	NA	spp./million	NA	●	●	NA	species	NA
Spillover marine biodiversity threats	0.01	spp./million	66.9	●	●	0.02	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	NA	%	NA	●	●	NA	%	NA
Domestic vulnerable fisheries catch	NA	tonnes/capita	NA	●	●	NA	Tg	NA
Spillover vulnerable fisheries catch	5.65	tonnes/capita	43.7	●	↓	0.02	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.59	scale 0 to 1.4	49.9	●	↓	0.59	scale 0 to 1.4	2015
Domestic nitrogen surplus	4.51	kg/capita	88.4	●	↓	13.20	Gg	2015
Spillover nitrogen surplus	0.75	kg/capita	65.3	●	↓	2.21	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	2.30	g/capita	43.5	●	↓	6.79	kt	2018
Water Cycle								
Domestic scarce water consumption	113.99	m^3 H_2O-eq./capita	9.0	●	↓	336.47	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	57.53	m^3 H_2O-eq./capita	36.8	●	↓	169.81	Mm^3 H_2O-eq.	2018
Domestic water stress	10.33	ML H_2O-eq./capita	6.3	●	↓	30.49	Bm^3 H_2O-eq.	2018
Spillover water stress	4.68	m^3 H_2O-eq./capita	18.3	●	↓	13.81	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Australia

OECD Member

Land area	7,692,020 sq. km	**Population**	25.7 million
GDP (PPP, constant 2017 US$, billions)	$1,250.9	**GDP per capita**	$48,698
Human Development Index (HDI)	0.951	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	6.1 /100	→
ABSOLUTE	●	23.8 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Australia

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	36.14	kg/capita	14.3	●	→	902.81	Gg	2018
Spillover SO_2 emissions	20.39	kg/capita	7.7	●	→	485.70	Gg	2015
Domestic NO_X emissions	53.04	kg/capita	1.5	●	→	1,325.12	Gg	2018
Spillover NO_X emissions	24.21	kg/capita	3.3	●	→	576.67	Gg	2015
Domestic black carbon emissions	1.09	kg/capita	10.5	●	→	27.19	Gg	2018
Spillover black carbon emissions	0.91	kg/capita	3.6	●	→	21.59	Gg	2015
GHG Emissions								
Domestic GHG emissions	25.64	t CO_2e/capita	1.0	●	→	650.31	Tg	2019
Spillover GHG emissions	7.95	t CO_2e/capita	16.6	●	→	198.56	Tg	2018
CO_2 emissions embodied in fossil fuel exports	37.40	t CO_2e/capita	1.7	●	●	960.60	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	56.61	%	45.0	●	↓	56.61	%	2020
Unprotected freshwater biodiversity sites	37.70	%	65.4	●	↓	37.70	%	2020
Domestic land use related biodiversity loss	1.55×10^{-10}	global PDF/capita	1.0	●	→	3.87×10^{-3}	global PDF	2018
Spillover land use related biodiversity loss	7.91×10^{-12}	global PDF/capita	55.6	●	→	1.98×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	4.03	spp./million	4.9	●	●	100.22	species	2018
Spillover freshwater biodiversity threats	0.29	spp./million	18.8	●	●	7.31	species	2018
Domestic deforestation	1.32	%	1.1	●	↓	5.20×10^{5}	hectares	2020
Spillover deforestation	2.35×10^{-3}	ha/capita	67.6	●	↓	5.88×10^{4}	hectares	2018
Red List Index of species survival	0.82	scale 0 to 1	46.9	●	↓	0.82	scale 0 to 1	2021
Biodiversity Habitat Index	0.56	scale 0 to 1	39.8	●	●	0.56	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	3.23×10^{-6}	WOE/million	100.0	●	●	8.20×10	WOE	2019
Spillover endangered terrestrial animals	2.30×10^{-5}	WOE/capita	99.7	●	●	5.84×10^{2}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	2.39×10^{-2}	WOE/million	1.0	●	●	6.06×10^{5}	WOE	2019
Spillover endangered marine animals	4.90×10^{-5}	WOE/capita	96.9	●	●	1.24×10^{3}	WOE	2019
Unprotected marine biodiversity sites	64.60	%	36.0	●	↓	64.60	%	2020
Domestic marine biodiversity threats	18.21	spp./million	1.0	●	●	453.38	species	2018
Spillover marine biodiversity threats	0.78	spp./million	4.2	●	●	19.46	species	2018
Fish caught from overexploited or collapsed stocks	38.78	%	38.1	●	→	38.78	%	2018
Fish caught by trawling	15.74	%	74.4	●	→	15.74	%	2018
Domestic vulnerable fisheries catch	12.25	tonnes/capita	35.5	●	↓	0.31	Tg	2018
Spillover vulnerable fisheries catch	17.42	tonnes/capita	24.9	●	→	0.44	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.63	scale 0 to 1.4	46.1	●	→	0.63	scale 0 to 1.4	2015
Domestic nitrogen surplus	29.22	kg/capita	17.2	●	↓	695.96	Gg	2015
Spillover nitrogen surplus	8.32	kg/capita	19.8	●	↓	198.11	Tg	2015
Domestic phosphorus fertilizer	38.22	kg/capita	1.0	●	→	954.83	kt	2018
Spillover phosphorus fertilizer	3.94	g/capita	26.8	●	→	98.47	kt	2018
Water Cycle								
Domestic scarce water consumption	3.98	m^3 H_2O-eq./capita	46.7	●	↓	99.41	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	48.37	m^3 H_2O-eq./capita	41.3	●	↓	1,208.47	Mm^3 H_2O-eq.	2018
Domestic water stress	8.63	ML H_2O-eq./capita	8.6	●	↓	215.68	Bm^3 H_2O-eq.	2018
Spillover water stress	2.63	m^3 H_2O-eq./capita	33.2	●	↓	65.73	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Austria

OECD Member

Land area	82,520 sq. km	**Population**	8.9 million
GDP (PPP, constant 2017 US$, billions)	$464.8	**GDP per capita**	$52,120
Human Development Index (HDI)	0.916	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		20.7 /100	
ABSOLUTE		50.3 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Austria

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	5.52	kg/capita	57.5	●	→	48.82	Gg	2018
Spillover SO_2 emissions	14.17	kg/capita	17.8	●	→	122.47	Gg	2015
Domestic NO_X emissions	18.33	kg/capita	72.5	●	→	162.05	Gg	2018
Spillover NO_X emissions	18.90	kg/capita	9.8	●	→	163.33	Gg	2015
Domestic black carbon emissions	0.46	kg/capita	67.2	●	↓	4.07	Gg	2018
Spillover black carbon emissions	0.51	kg/capita	19.5	●	→	4.42	Gg	2015
GHG Emissions								
Domestic GHG emissions	12.73	t CO_2e/capita	28.2	●	→	113.01	Tg	2019
Spillover GHG emissions	9.74	t CO_2e/capita	10.9	●	↓	86.10	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.19	t CO_2e/capita	25.7	●	●	1.71	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	67.36	%	34.1	●	↓	67.36	%	2020
Unprotected freshwater biodiversity sites	71.22	%	30.7	●	↓	71.22	%	2020
Domestic land use related biodiversity loss	5.33×10^{-12}	global PDF/capita	92.9	●	→	4.71×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	9.27×10^{-12}	global PDF/capita	47.5	●	↓	8.20×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	2.80	spp./million	9.9	●	●	24.90	species	2018
Spillover freshwater biodiversity threats	0.35	spp./million	15.7	●	●	3.15	species	2018
Domestic deforestation	0.65	%	50.9	●	↓	2.84×10^{4}	hectares	2020
Spillover deforestation	5.45×10^{-3}	ha/capita	22.1	●	↓	4.82×10^{4}	hectares	2018
Red List Index of species survival	0.90	scale 0 to 1	71.2	●	→	0.90	scale 0 to 1	2021
Biodiversity Habitat Index	0.44	scale 0 to 1	22.2	●	●	0.44	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	1.13×10^{-7}	WOE/million	100.0	●	●	1.00	WOE	2019
Spillover endangered terrestrial animals	5.28×10^{-4}	WOE/capita	93.8	●	●	4.69×10^{3}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	NA	WOE/million	NA	●	●	NA	WOE	NA
Spillover endangered marine animals	2.84×10^{-4}	WOE/capita	81.9	●	●	2.52×10^{3}	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic marine biodiversity threats	NA	spp./million	NA	●	●	NA	species	NA
Spillover marine biodiversity threats	0.07	spp./million	35.1	●	●	0.63	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	NA	%	NA	●	●	NA	%	NA
Domestic vulnerable fisheries catch	NA	tonnes/capita	NA	●	●	NA	Tg	NA
Spillover vulnerable fisheries catch	15.55	tonnes/capita	26.8	●	↓	0.14	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.39	scale 0 to 1.4	67.3	●	↓	0.39	scale 0 to 1.4	2015
Domestic nitrogen surplus	10.49	kg/capita	71.1	●	↓	90.70	Gg	2015
Spillover nitrogen surplus	17.15	kg/capita	6.0	●	↓	148.23	Tg	2015
Domestic phosphorus fertilizer	3.22	kg/capita	61.2	●	↗	28.46	kt	2018
Spillover phosphorus fertilizer	5.63	g/capita	15.7	●	↓	49.77	kt	2018
Water Cycle								
Domestic scarce water consumption	1.15	m^3 H_2O-eq./capita	60.7	●	↓	10.16	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	101.29	m^3 H_2O-eq./capita	22.0	●	↓	895.45	Mm^3 H_2O-eq.	2018
Domestic water stress	0.05	ML H_2O-eq./capita	75.3	●	↓	0.43	Bm^3 H_2O-eq.	2018
Spillover water stress	2.55	m^3 H_2O-eq./capita	34.0	●	↓	22.57	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Azerbaijan

Eastern Europe and Central Asia

Land area	82,654 sq. km	**Population**	10.1 million
GDP (PPP, constant 2017 US$, billions)	$138.5	**GDP per capita**	$13,700
Human Development Index (HDI)	0.745	**HDI category**	High

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		41.6 /100	→
ABSOLUTE		54.4 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Azerbaijan

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	3.15	kg/capita	70.4		↓	31.30	Gg	2018
Spillover SO_2 emissions	4.39	kg/capita	50.1		↓	42.33	Gg	2015
Domestic NO_X emissions	9.09	kg/capita	91.4		↑	90.36	Gg	2018
Spillover NO_X emissions	5.89	kg/capita	40.8		↓	56.86	Gg	2015
Domestic black carbon emissions	0.11	kg/capita	99.2		↑	1.05	Gg	2018
Spillover black carbon emissions	0.12	kg/capita	59.2		↓	1.17	Gg	2015
GHG Emissions								
Domestic GHG emissions	6.46	t CO_2e/capita	54.5		↓	64.73	Tg	2019
Spillover GHG emissions	2.96	t CO_2e/capita	44.3		↓	29.43	Tg	2018
CO_2 emissions embodied in fossil fuel exports	11.27	t CO_2e/capita	7.1			113.92	Tg	2021
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	36.61	%	65.2		↓	36.61	%	2020
Unprotected freshwater biodiversity sites	14.53	%	89.3		↓	14.53	%	2020
Domestic land use related biodiversity loss	1.12×10^{-11}	global PDF/capita	85.1		→	1.12×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	2.69×10^{-12}	global PDF/capita	86.9		→	2.67×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.74	spp./million	28.2			7.34	species	2018
Spillover freshwater biodiversity threats	0.01	spp./million	77.5			0.09	species	2018
Domestic deforestation	0.00	%	99.8		↑	2.58×10	hectares	2020
Spillover deforestation	1.72×10^{-3}	ha/capita	76.9		→	1.71×10^{4}	hectares	2018
Red List Index of species survival	0.91	scale 0 to 1	76.6		↗	0.91	scale 0 to 1	2021
Biodiversity Habitat Index	0.29	scale 0 to 1	1.3			0.29	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	2.39×10^{-6}	WOE/million	100.0			2.40×10	WOE	2019
Spillover endangered terrestrial animals	3.99×10^{-7}	WOE/capita	100.0			4.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	NA	WOE/million	NA			NA	WOE	NA
Spillover endangered marine animals	4.95×10^{-5}	WOE/capita	96.8			4.96×10^{2}	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA			NA	%	NA
Domestic marine biodiversity threats	NA	spp./million	NA			NA	species	NA
Spillover marine biodiversity threats	0.00	spp./million	80.6			0.02	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA			NA	%	NA
Fish caught by trawling	NA	%	NA			NA	%	NA
Domestic vulnerable fisheries catch	NA	tonnes/capita	NA			NA	Tg	NA
Spillover vulnerable fisheries catch	3.05	tonnes/capita	54.0		→	0.03	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.58	scale 0 to 1.4	50.9		→	0.58	scale 0 to 1.4	2015
Domestic nitrogen surplus	1.30	kg/capita	97.6		↓	12.50	Gg	2015
Spillover nitrogen surplus	0.72	kg/capita	66.1		↓	6.98	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA			NA	kt	NA
Spillover phosphorus fertilizer	1.92	g/capita	49.0		↓	19.11	kt	2018
Water Cycle								
Domestic scarce water consumption	1.56	m^3 H_2O-eq./capita	57.3		↗	15.46	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	59.05	m^3 H_2O-eq./capita	36.1		→	586.94	Mm^3 H_2O-eq.	2018
Domestic water stress	7.74	ML H_2O-eq./capita	10.0		→	76.94	Bm^3 H_2O-eq.	2018
Spillover water stress	4.26	m^3 H_2O-eq./capita	20.8		↓	42.31	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Bahrain

Middle East and North Africa

Land area	780 sq. km	**Population**	1.7 million
GDP (PPP, constant 2017 US$, billions)	$69.7	**GDP per capita**	$40,933
Human Development Index (HDI)	0.875	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	8.6 /100	→
ABSOLUTE	●	74.2 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories
Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Bahrain

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	0.70	kg/capita	100.0	●	↑	1.10	Gg	2018
Spillover SO_2 emissions	20.00	kg/capita	8.3	●	↓	27.43	Gg	2015
Domestic NO_X emissions	38.13	kg/capita	32.0	●	→	59.84	Gg	2018
Spillover NO_X emissions	17.07	kg/capita	12.5	●	↓	23.42	Gg	2015
Domestic black carbon emissions	0.14	kg/capita	96.0	●	↑	0.22	Gg	2018
Spillover black carbon emissions	0.58	kg/capita	15.8	●	↓	0.80	Gg	2015
GHG Emissions								
Domestic GHG emissions	39.92	t CO_2e/capita	1.0	●	→	65.51	Tg	2019
Spillover GHG emissions	10.24	t CO_2e/capita	9.5	●	↓	16.08	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.00	t CO_2e/capita	91.6	●	●	0.00	Tg	2019
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	0.00	%	100.0	●	●	0.00	%	2020
Unprotected freshwater biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic land use related biodiversity loss	2.43×10^{-15}	global PDF/capita	100.0	●	↑	3.82×10^{-9}	global PDF	2018
Spillover land use related biodiversity loss	1.33×10^{-11}	global PDF/capita	23.3	●	↓	2.09×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.00	spp./million	100.0	●	●	0.00	species	2018
Spillover freshwater biodiversity threats	0.01	spp./million	70.0	●	●	0.02	species	2018
Domestic deforestation	NA	%	NA	●	●	NA	hectares	NA
Spillover deforestation	2.22×10^{-3}	ha/capita	69.6	●	↓	3.48×10^{3}	hectares	2018
Red List Index of species survival	0.75	scale 0 to 1	26.1	●	↓	0.75	scale 0 to 1	2021
Biodiversity Habitat Index	0.70	scale 0 to 1	58.6	●	●	0.70	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	6.09×10^{-7}	WOE/million	100.0	●	●	1.00	WOE	2019
Spillover endangered terrestrial animals	3.91×10^{-4}	WOE/capita	95.4	●	●	6.42×10^{2}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	2.60×10^{-4}	WOE/capita	83.4	●	●	4.26×10^{2}	WOE	2019
Unprotected marine biodiversity sites	0.00	%	100.0	●	●	0.00	%	2020
Domestic marine biodiversity threats	0.45	spp./million	40.9	●	●	0.71	species	2018
Spillover marine biodiversity threats	0.01	spp./million	65.4	●	●	0.01	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	0.00	%	100.0	●	●	0.00	%	2018
Domestic vulnerable fisheries catch	60.17	tonnes/capita	14.6	●	→	0.09	Tg	2018
Spillover vulnerable fisheries catch	10.63	tonnes/capita	33.2	●	→	0.02	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.87	scale 0 to 1.4	25.6	●	↓	0.87	scale 0 to 1.4	2015
Domestic nitrogen surplus	0.04	kg/capita	100.0	●	↓	0.06	Gg	2015
Spillover nitrogen surplus	8.02	kg/capita	20.4	●	↓	11.01	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	4.72	g/capita	21.2	●	→	7.40	kt	2018
Water Cycle								
Domestic scarce water consumption	0.45	m^3 H_2O-eq./capita	71.3	●	↓	0.70	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	5.99	m^3 H_2O-eq./capita	95.6	●	↓	66.97	Mm^3 H_2O-eq.	2018
Domestic water stress	0.06	ML H_2O-eq./capita	73.8	●	↓	0.09	Bm^3 H_2O-eq.	2018
Spillover water stress	0.12	m^3 H_2O-eq./capita	100.0	●	↓	1.29	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Bangladesh

East and South Asia

Land area	130,170 sq. km	**Population**	164.7 million
GDP (PPP, constant 2017 US$, billions)	$793.5	**GDP per capita**	$4,818
Human Development Index (HDI)	0.661	**HDI category**	Medium

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		87.8 /100	→
ABSOLUTE		43.3 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Bangladesh

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	1.55	kg/capita	86.7		↓	250.60	Gg	2018
Spillover SO_2 emissions	1.13	kg/capita	87.7		↓	175.88	Gg	2015
Domestic NO_X emissions	3.49	kg/capita	100.0		↓	562.83	Gg	2018
Spillover NO_X emissions	1.00	kg/capita	88.0		↓	155.73	Gg	2015
Domestic black carbon emissions	0.19	kg/capita	91.3		↓	31.32	Gg	2018
Spillover black carbon emissions	0.06	kg/capita	79.6		↓	9.10	Gg	2015
GHG Emissions								
Domestic GHG emissions	2.03	t CO_2e/capita	99.4		↓	331.28	Tg	2019
Spillover GHG emissions	0.60	t CO_2e/capita	89.2		↓	96.73	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA			NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	41.47	%	60.3		↓	41.47	%	2020
Unprotected freshwater biodiversity sites	0.00	%	100.0			0.00	%	2020
Domestic land use related biodiversity loss	1.49×10^{-12}	global PDF/capita	98.0		→	2.41×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	8.06×10^{-13}	global PDF/capita	98.2		↓	1.30×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	0.03	spp./million	71.2			4.91	species	2018
Spillover freshwater biodiversity threats	0.00	spp./million	100.0			0.22	species	2018
Domestic deforestation	0.94	%	29.2		↓	2.09×10^{4}	hectares	2020
Spillover deforestation	1.38×10^{-4}	ha/capita	100.0		↓	2.22×10^{4}	hectares	2018
Red List Index of species survival	0.74	scale 0 to 1	24.7		↓	0.74	scale 0 to 1	2021
Biodiversity Habitat Index	0.27	scale 0 to 1	1.0			0.27	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0			0.00	WOE	2019
Spillover endangered terrestrial animals	5.27×10^{-6}	WOE/capita	99.9			8.59×10^{2}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0			0.00	WOE	2019
Spillover endangered marine animals	1.10×10^{-5}	WOE/capita	99.3			1.79×10^{3}	WOE	2019
Unprotected marine biodiversity sites	34.47	%	65.9		↓	34.47	%	2020
Domestic marine biodiversity threats	0.02	spp./million	84.9			3.02	species	2018
Spillover marine biodiversity threats	0.00	spp./million	94.0			0.09	species	2018
Fish caught from overexploited or collapsed stocks	3.23	%	94.9		↓	3.23	%	2018
Fish caught by trawling	15.40	%	75.0		→	15.40	%	2018
Domestic vulnerable fisheries catch	13.70	tonnes/capita	34.0		→	2.21	Tg	2018
Spillover vulnerable fisheries catch	0.68	tonnes/capita	79.1		↑	0.11	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.67	scale 0 to 1.4	42.5		→	0.67	scale 0 to 1.4	2015
Domestic nitrogen surplus	9.47	kg/capita	74.1		↓	1,479.87	Gg	2015
Spillover nitrogen surplus	0.29	kg/capita	83.5		↓	45.28	Tg	2015
Domestic phosphorus fertilizer	4.40	kg/capita	52.8		↓	710.24	kt	2018
Spillover phosphorus fertilizer	1.02	g/capita	68.5		↗	165.08	kt	2018
Water Cycle								
Domestic scarce water consumption	1.13	m^3 H_2O-eq./capita	60.8		↓	182.82	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	166.03	m^3 H_2O-eq./capita	9.2		→	1,897.19	Mm^3 H_2O-eq.	2018
Domestic water stress	0.04	ML H_2O-eq./capita	78.1		↓	6.37	Bm^3 H_2O-eq.	2018
Spillover water stress	5.75	m^3 H_2O-eq./capita	13.0		↗	65.74	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Belarus

Eastern Europe and Central Asia

Land area	202,980 sq. km	**Population**	9.4 million
GDP (PPP, constant 2017 US$, billions)	$180.0	**GDP per capita**	$19,148
Human Development Index (HDI)	0.808	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		35.7 /100	→
ABSOLUTE		55.9 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories
Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Belarus

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	6.82	kg/capita	52.6	●	→	64.68	Gg	2018
Spillover SO_2 emissions	4.27	kg/capita	50.9	●	↑	40.53	Gg	2015
Domestic NO_X emissions	19.74	kg/capita	69.6	●	→	187.24	Gg	2018
Spillover NO_X emissions	5.52	kg/capita	42.5	●	↑	52.42	Gg	2015
Domestic black carbon emissions	0.35	kg/capita	77.2	●	→	3.32	Gg	2018
Spillover black carbon emissions	0.09	kg/capita	67.5	●	↑	0.86	Gg	2015
GHG Emissions								
Domestic GHG emissions	11.49	t CO_2e/capita	32.2	●	↓	108.23	Tg	2019
Spillover GHG emissions	4.05	t CO_2e/capita	35.5	●	→	38.40	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.50	t CO_2e/capita	21.4	●	●	4.67	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	47.09	%	54.6	●	↓	47.09	%	2020
Unprotected freshwater biodiversity sites	53.31	%	49.2	●	↓	53.31	%	2020
Domestic land use related biodiversity loss	3.01×10^{-12}	global PDF/capita	96.0	●	→	2.86×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	1.76×10^{-12}	global PDF/capita	92.5	●	↓	1.67×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.06	spp./million	62.4	●	●	0.56	species	2018
Spillover freshwater biodiversity threats	0.00	spp./million	100.0	●	●	0.02	species	2018
Domestic deforestation	0.80	%	39.9	●	↓	7.59×10^{4}	hectares	2020
Spillover deforestation	5.17×10^{-4}	ha/capita	94.5	●	↓	4.91×10^{3}	hectares	2018
Red List Index of species survival	0.97	scale 0 to 1	95.2	●	↑	0.97	scale 0 to 1	2021
Biodiversity Habitat Index	0.42	scale 0 to 1	19.4	●	●	0.42	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	1.47×10^{-5}	WOE/capita	99.8	●	●	1.38×10^{2}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	NA	WOE/million	NA	●	●	NA	WOE	NA
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic marine biodiversity threats	NA	spp./million	NA	●	●	NA	species	NA
Spillover marine biodiversity threats	0.00	spp./million	86.8	●	●	0.01	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	NA	%	NA	●	●	NA	%	NA
Domestic vulnerable fisheries catch	NA	tonnes/capita	NA	●	●	NA	Tg	NA
Spillover vulnerable fisheries catch	17.93	tonnes/capita	24.5	●	↓	0.17	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.79	scale 0 to 1.4	31.9	●	→	0.79	scale 0 to 1.4	2015
Domestic nitrogen surplus	48.61	kg/capita	1.0	●	→	461.31	Gg	2015
Spillover nitrogen surplus	0.03	kg/capita	100.0	●	↓	0.33	Tg	2015
Domestic phosphorus fertilizer	11.03	kg/capita	28.2	●	↑	104.63	kt	2018
Spillover phosphorus fertilizer	1.18	g/capita	64.1	●	↓	11.20	kt	2018
Water Cycle								
Domestic scarce water consumption	0.52	m^3 H_2O-eq./capita	69.5	●	↓	4.98	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	44.27	m^3 H_2O-eq./capita	43.6	●	→	508.42	Mm^3 H_2O-eq.	2018
Domestic water stress	0.41	ML H_2O-eq./capita	47.9	●	↓	3.90	Bm^3 H_2O-eq.	2018
Spillover water stress	1.38	m^3 H_2O-eq./capita	49.9	●	→	15.85	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Belgium

OECD Member

Land area	30,280 sq. km	**Population**	11.6 million
GDP (PPP, constant 2017 US$, billions)	$557.1	**GDP per capita**	$48,210
Human Development Index (HDI)	0.937	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		11.6 /100	→
ABSOLUTE		46.4 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Belgium

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	4.78	kg/capita	60.8	●	↗	54.57	Gg	2018
Spillover SO_2 emissions	19.55	kg/capita	8.9	●	→	220.45	Gg	2015
Domestic NO_X emissions	17.43	kg/capita	74.3	●	→	199.19	Gg	2018
Spillover NO_X emissions	23.74	kg/capita	3.8	●	→	267.68	Gg	2015
Domestic black carbon emissions	0.30	kg/capita	81.7	●	↗	3.43	Gg	2018
Spillover black carbon emissions	0.88	kg/capita	4.4	●	→	9.93	Gg	2015
GHG Emissions								
Domestic GHG emissions	12.51	t CO_2e/capita	28.9	●	→	143.78	Tg	2019
Spillover GHG emissions	13.04	t CO_2e/capita	2.7	●	↓	149.01	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA	●	●	NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	75.60	%	25.7	●	↓	75.60	%	2020
Unprotected freshwater biodiversity sites	85.64	%	15.8	●	↓	85.64	%	2020
Domestic land use related biodiversity loss	4.98×10^{-13}	global PDF/capita	99.4	●	↓	5.69×10^{-6}	global PDF	2018
Spillover land use related biodiversity loss	1.42×10^{-11}	global PDF/capita	17.7	●	↓	1.63×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	0.01	spp./million	82.3	●	●	0.14	species	2018
Spillover freshwater biodiversity threats	0.74	spp./million	3.2	●	●	8.52	species	2018
Domestic deforestation	0.56	%	58.2	●	↓	4.95×10^{3}	hectares	2020
Spillover deforestation	5.94×10^{-3}	ha/capita	15.0	●	↓	6.79×10^{4}	hectares	2018
Red List Index of species survival	0.98	scale 0 to 1	98.5	●	↗	0.98	scale 0 to 1	2021
Biodiversity Habitat Index	0.34	scale 0 to 1	8.2	●	●	0.34	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	9.66×10^{-6}	WOE/million	99.9	●	●	1.11×10^{2}	WOE	2019
Spillover endangered terrestrial animals	3.43×10^{-5}	WOE/capita	99.6	●	●	3.94×10^{2}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	5.89×10^{-5}	WOE/capita	96.2	●	●	6.77×10^{2}	WOE	2019
Unprotected marine biodiversity sites	94.01	%	6.9	●	↓	94.01	%	2020
Domestic marine biodiversity threats	0.00	spp./million	100.0	●	●	0.03	species	2018
Spillover marine biodiversity threats	0.23	spp./million	19.8	●	●	2.68	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	12.97	%	79.0	●	↗	12.97	%	2018
Domestic vulnerable fisheries catch	0.42	tonnes/capita	79.9	●	↓	0.00	Tg	2018
Spillover vulnerable fisheries catch	30.52	tonnes/capita	15.6	●	→	0.35	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.72	scale 0 to 1.4	38.1	●	→	0.72	scale 0 to 1.4	2015
Domestic nitrogen surplus	19.11	kg/capita	46.3	●	→	215.49	Gg	2015
Spillover nitrogen surplus	15.22	kg/capita	8.3	●	↓	171.62	Tg	2015
Domestic phosphorus fertilizer	1.69	kg/capita	78.3	●	↓	19.37	kt	2018
Spillover phosphorus fertilizer	7.09	g/capita	8.6	●	↓	81.02	kt	2018
Water Cycle								
Domestic scarce water consumption	5.96	m^3 H_2O-eq./capita	42.2	●	↓	68.05	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	5.90	m^3 H_2O-eq./capita	96.0	●	↓	116.54	Mm^3 H_2O-eq.	2018
Domestic water stress	0.14	ML H_2O-eq./capita	62.0	●	↓	1.58	Bm^3 H_2O-eq.	2018
Spillover water stress	0.23	m^3 H_2O-eq./capita	95.8	●	↓	4.62	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Belize

Latin America and Caribbean

Land area	22,810 sq. km	**Population**	0.4 million
GDP (PPP, constant 2017 US$, billions)	$2.4	**GDP per capita**	$6,120
Human Development Index (HDI)	0.683	**HDI category**	Medium

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		45.5 /100	→
ABSOLUTE		86.3 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories
Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Belize

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	8.05	kg/capita	48.8	●	↑	3.08	Gg	2018
Spillover SO_2 emissions	4.34	kg/capita	50.4	●	→	1.57	Gg	2015
Domestic NO_X emissions	17.23	kg/capita	74.7	●	↑	6.60	Gg	2018
Spillover NO_X emissions	4.18	kg/capita	49.9	●	↓	1.51	Gg	2015
Domestic black carbon emissions	0.78	kg/capita	38.0	●	↓	0.30	Gg	2018
Spillover black carbon emissions	0.12	kg/capita	59.9	●	↓	0.04	Gg	2015
GHG Emissions								
Domestic GHG emissions	8.13	t CO_2e/capita	45.6	●	→	3.17	Tg	2019
Spillover GHG emissions	1.96	t CO_2e/capita	56.0	●	↓	0.75	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.29	t CO_2e/capita	23.8	●	●	0.12	Tg	2021
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	43.26	%	58.5	●	↓	43.26	%	2020
Unprotected freshwater biodiversity sites	15.25	%	88.5	●	↓	15.25	%	2020
Domestic land use related biodiversity loss	5.35×10^{-11}	global PDF/capita	28.8	●	→	2.05×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	3.63×10^{-12}	global PDF/capita	81.3	●	→	1.39×10^{-6}	global PDF	2018
Domestic freshwater biodiversity threats	0.54	spp./million	32.4	●	●	0.21	species	2018
Spillover freshwater biodiversity threats	0.00	spp./million	100.0	●	●	0.00	species	2018
Domestic deforestation	1.06	%	20.5	●	→	1.84×10^{4}	hectares	2020
Spillover deforestation	5.60×10^{-4}	ha/capita	93.9	●	↓	2.15×10^{2}	hectares	2018
Red List Index of species survival	0.77	scale 0 to 1	33.1	●	↓	0.77	scale 0 to 1	2021
Biodiversity Habitat Index	0.50	scale 0 to 1	31.3	●	●	0.50	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	5.03×10^{-2}	WOE/million	1.0	●	●	1.96×10^{4}	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	31.22	%	69.1	●	↓	31.22	%	2020
Domestic marine biodiversity threats	22.80	spp./million	1.0	●	●	8.73	species	2018
Spillover marine biodiversity threats	0.08	spp./million	32.8	●	●	0.03	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	0.36	%	99.7	●	↑	0.36	%	2018
Domestic vulnerable fisheries catch	8.74	tonnes/capita	39.9	●	↗	0.00	Tg	2018
Spillover vulnerable fisheries catch	1.98	tonnes/capita	61.2	●	↑	0.00	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.94	scale 0 to 1.4	19.4	●	↓	0.94	scale 0 to 1.4	2015
Domestic nitrogen surplus	49.07	kg/capita	1.0	●	↓	17.71	Gg	2015
Spillover nitrogen surplus	2.10	kg/capita	45.9	●	→	0.76	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	1.10	g/capita	66.2	●	↗	0.42	kt	2018
Water Cycle								
Domestic scarce water consumption	1.44	m^3 H_2O-eq./capita	58.2	●	↓	0.55	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	21.14	m^3 H_2O-eq./capita	62.8	●	↗	3,411.42	Mm^3 H_2O-eq.	2018
Domestic water stress	0.06	ML H_2O-eq./capita	73.5	●	↓	0.02	Bm^3 H_2O-eq.	2018
Spillover water stress	0.67	m^3 H_2O-eq./capita	68.7	●	↓	107.41	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Benin

Africa

Land area	112,760 sq. km	**Population**	12.1 million
GDP (PPP, constant 2017 US$, billions)	$40.3	**GDP per capita**	$3,323
Human Development Index (HDI)	0.525	**HDI category**	Low

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		85.2 /100	
ABSOLUTE		79.7 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Benin

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	0.61	kg/capita	100.0			7.06	Gg	2018
Spillover SO_2 emissions	0.90	kg/capita	93.8			9.52	Gg	2015
Domestic NO_X emissions	6.87	kg/capita	95.9			78.96	Gg	2018
Spillover NO_X emissions	0.87	kg/capita	91.5			9.25	Gg	2015
Domestic black carbon emissions	0.59	kg/capita	55.1			6.83	Gg	2018
Spillover black carbon emissions	0.04	kg/capita	88.9			0.44	Gg	2015
GHG Emissions								
Domestic GHG emissions	2.42	t CO_2e/capita	92.6			28.55	Tg	2019
Spillover GHG emissions	0.59	t CO_2e/capita	89.6			6.79	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA			NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	66.66	%	34.8			66.66	%	2020
Unprotected freshwater biodiversity sites	0.00	%	100.0			0.00	%	2020
Domestic land use related biodiversity loss	3.68×10^{-13}	global PDF/capita	99.5			4.23×10^{-6}	global PDF	2018
Spillover land use related biodiversity loss	2.01×10^{-12}	global PDF/capita	91.0			2.30×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.30	spp./million	40.7			3.41	species	2018
Spillover freshwater biodiversity threats	0.00	spp./million	91.2			0.04	species	2018
Domestic deforestation	0.32	%	75.9			1.40×10^{3}	hectares	2020
Spillover deforestation	2.57×10^{-4}	ha/capita	98.4			2.95×10^{3}	hectares	2018
Red List Index of species survival	0.91	scale 0 to 1	74.4			0.91	scale 0 to 1	2021
Biodiversity Habitat Index	0.39	scale 0 to 1	14.8			0.39	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	1.18×10^{-3}	WOE/million	87.7			1.39×10^{4}	WOE	2019
Spillover endangered terrestrial animals	3.14×10^{-5}	WOE/capita	99.6			3.71×10^{2}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0			0.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0			0.00	WOE	2019
Unprotected marine biodiversity sites	0.00	%	100.0			0.00	%	2020
Domestic marine biodiversity threats	0.15	spp./million	56.1			1.73	species	2018
Spillover marine biodiversity threats	0.00	spp./million	84.8			0.02	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA			NA	%	NA
Fish caught by trawling	0.00	%	100.0			0.00	%	2018
Domestic vulnerable fisheries catch	20.19	tonnes/capita	28.9			0.23	Tg	2018
Spillover vulnerable fisheries catch	3.71	tonnes/capita	50.8			0.04	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.77	scale 0 to 1.4	34.0			0.77	scale 0 to 1.4	2015
Domestic nitrogen surplus	1.65	kg/capita	96.6			17.49	Gg	2015
Spillover nitrogen surplus	0.19	kg/capita	91.0			2.06	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA			NA	kt	NA
Spillover phosphorus fertilizer	1.68	g/capita	53.1			19.33	kt	2018
Water Cycle								
Domestic scarce water consumption	3.02	m^3 H_2O-eq./capita	49.8			34.64	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	28.76	m^3 H_2O-eq./capita	54.8			202.06	Mm^3 H_2O-eq.	2018
Domestic water stress	0.12	ML H_2O-eq./capita	63.8			1.37	Bm^3 H_2O-eq.	2018
Spillover water stress	1.90	m^3 H_2O-eq./capita	41.6			13.35	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Bhutan

East and South Asia

Land area	38,140 sq. km	**Population**	0.8 million
GDP (PPP, constant 2017 US$, billions)	$8.4	**GDP per capita**	$10,909
Human Development Index (HDI)	0.666	**HDI category**	Medium

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		42.1 /100	
ABSOLUTE		90.4 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Bhutan

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	5.95	kg/capita	55.8	●	↗	4.49	Gg	2018
Spillover SO_2 emissions	8.52	kg/capita	31.8	●	↓	6.20	Gg	2015
Domestic NO_X emissions	6.99	kg/capita	95.7	●	↑	5.27	Gg	2018
Spillover NO_X emissions	9.18	kg/capita	29.0	●	↓	6.68	Gg	2015
Domestic black carbon emissions	2.53	kg/capita	1.0	●	→	1.91	Gg	2018
Spillover black carbon emissions	0.40	kg/capita	26.0	●	→	0.29	Gg	2015
GHG Emissions								
Domestic GHG emissions	11.32	t CO_2e/capita	32.7	●	↓	8.64	Tg	2019
Spillover GHG emissions	2.56	t CO_2e/capita	48.4	●	→	1.93	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA	●	●	NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	46.97	%	54.7	●	↓	46.97	%	2020
Unprotected freshwater biodiversity sites	34.81	%	68.3	●	↓	34.81	%	2020
Domestic land use related biodiversity loss	1.42×10^{-11}	global PDF/capita	81.1	●	→	1.07×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	1.27×10^{-12}	global PDF/capita	95.4	●	↑	9.61×10^{-7}	global PDF	2018
Domestic freshwater biodiversity threats	0.51	spp./million	33.2	●	●	0.39	species	2018
Spillover freshwater biodiversity threats	0.06	spp./million	46.6	●	●	0.04	species	2018
Domestic deforestation	0.04	%	97.4	●	↓	8.78×10^{2}	hectares	2020
Spillover deforestation	2.61×10^{-4}	ha/capita	98.3	●	↑	1.97×10^{2}	hectares	2018
Red List Index of species survival	0.80	scale 0 to 1	41.3	●	↓	0.80	scale 0 to 1	2021
Biodiversity Habitat Index	0.39	scale 0 to 1	15.7	●	●	0.39	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	1.31×10^{-6}	WOE/capita	100.0	●	●	1.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	NA	WOE/million	NA	●	●	NA	WOE	NA
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic marine biodiversity threats	0.00	spp./million	100.0	●	●	0.00	species	2018
Spillover marine biodiversity threats	0.06	spp./million	36.9	●	●	0.05	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	NA	%	NA	●	●	NA	%	NA
Domestic vulnerable fisheries catch	NA	tonnes/capita	NA	●	●	NA	Tg	NA
Spillover vulnerable fisheries catch	3.11	tonnes/capita	53.7	●	↗	0.00	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.74	scale 0 to 1.4	37.1	●	→	0.74	scale 0 to 1.4	2015
Domestic nitrogen surplus	3.12	kg/capita	92.4	●	↗	2.27	Gg	2015
Spillover nitrogen surplus	1.84	kg/capita	48.4	●	→	1.34	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	1.35	g/capita	60.0	●	↓	1.02	kt	2018
Water Cycle								
Domestic scarce water consumption	0.24	m^3 H_2O-eq./capita	78.4	●	↗	0.18	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	177.46	m^3 H_2O-eq./capita	7.4	●	↓	278.51	Mm^3 H_2O-eq.	2018
Domestic water stress	0.02	ML H_2O-eq./capita	89.8	●	↗	0.01	Bm^3 H_2O-eq.	2018
Spillover water stress	9.14	m^3 H_2O-eq./capita	1.0	●	↓	14.35	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Bolivia

Latin America and Caribbean

Land area	**1,083,300 sq. km**	**Population**	**11.7 million**
GDP (PPP, constant 2017 US$, billions)	**$92.6**	**GDP per capita**	**$7,932**
Human Development Index (HDI)	**0.692**	**HDI category**	**Medium**

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	**55.4** /100	→
ABSOLUTE	●	**62.0** /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories
Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Bolivia

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	1.59	kg/capita	86.2			18.00	Gg	2018
Spillover SO_2 emissions	3.09	kg/capita	59.8			33.58	Gg	2015
Domestic NO_X emissions	11.49	kg/capita	86.5			130.43	Gg	2018
Spillover NO_X emissions	2.52	kg/capita	63.4			27.34	Gg	2015
Domestic black carbon emissions	0.49	kg/capita	64.2			5.61	Gg	2018
Spillover black carbon emissions	0.14	kg/capita	56.3			1.47	Gg	2015
GHG Emissions								
Domestic GHG emissions	5.89	t CO_2e/capita	58.1			67.80	Tg	2019
Spillover GHG emissions	1.04	t CO_2e/capita	73.8			11.76	Tg	2018
CO_2 emissions embodied in fossil fuel exports	2.32	t CO_2e/capita	14.3			27.12	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	48.22	%	53.5			48.22	%	2020
Unprotected freshwater biodiversity sites	58.68	%	43.7			58.68	%	2020
Domestic land use related biodiversity loss	6.44×10^{-11}	global PDF/capita	14.4			7.31×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	2.37×10^{-12}	global PDF/capita	88.8			2.70×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	1.78	spp./million	16.2			20.16	species	2018
Spillover freshwater biodiversity threats	0.01	spp./million	71.5			0.15	species	2018
Domestic deforestation	0.66	%	50.7			4.12×10^{5}	hectares	2020
Spillover deforestation	6.98×10^{-4}	ha/capita	91.9			7.92×10^{3}	hectares	2018
Red List Index of species survival	0.88	scale 0 to 1	66.9			0.88	scale 0 to 1	2021
Biodiversity Habitat Index	0.58	scale 0 to 1	41.6			0.58	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	3.74×10^{-3}	WOE/million	61.0			4.31×10^{4}	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0			0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	NA	WOE/million	NA			NA	WOE	NA
Spillover endangered marine animals	0.00	WOE/capita	100.0			0.00	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA			NA	%	NA
Domestic marine biodiversity threats	0.31	spp./million	46.0			3.56	species	2018
Spillover marine biodiversity threats	0.00	spp./million	72.0			0.04	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA			NA	%	NA
Fish caught by trawling	NA	%	NA			NA	%	NA
Domestic vulnerable fisheries catch	NA	tonnes/capita	NA			NA	Tg	NA
Spillover vulnerable fisheries catch	2.01	tonnes/capita	61.0			0.02	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.51	scale 0 to 1.4	56.8			0.51	scale 0 to 1.4	2015
Domestic nitrogen surplus	13.26	kg/capita	63.2			144.15	Gg	2015
Spillover nitrogen surplus	2.27	kg/capita	44.4			24.69	Tg	2015
Domestic phosphorus fertilizer	1.13	kg/capita	89.1			12.85	kt	2018
Spillover phosphorus fertilizer	1.05	g/capita	67.7			11.92	kt	2018
Water Cycle								
Domestic scarce water consumption	68.96	m^3 H_2O-eq./capita	14.7			782.88	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	26.65	m^3 H_2O-eq./capita	56.8			88.58	Mm^3 H_2O-eq.	2018
Domestic water stress	0.24	ML H_2O-eq./capita	54.8			2.73	Bm^3 H_2O-eq.	2018
Spillover water stress	0.86	m^3 H_2O-eq./capita	62.0			2.87	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Bosnia and Herzegovina

Eastern Europe and Central Asia

Land area	51,200 sq. km	**Population**	3.3 million
GDP (PPP, constant 2017 US$, billions)	$47.0	**GDP per capita**	$14,340
Human Development Index (HDI)	0.780	**HDI category**	High

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		43.3 /100	↓
ABSOLUTE		73.5 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Bosnia and Herzegovina

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	54.72	kg/capita	4.7	●	↓	181.89	Gg	2018
Spillover SO_2 emissions	3.36	kg/capita	57.5	●	→	11.53	Gg	2015
Domestic NO_X emissions	15.01	kg/capita	79.3	●	↓	49.89	Gg	2018
Spillover NO_X emissions	2.91	kg/capita	59.5	●	→	9.98	Gg	2015
Domestic black carbon emissions	0.56	kg/capita	58.5	●	↓	1.85	Gg	2018
Spillover black carbon emissions	0.09	kg/capita	68.3	●	↓	0.30	Gg	2015
GHG Emissions								
Domestic GHG emissions	10.55	t CO_2e/capita	35.5	●	↓	34.84	Tg	2019
Spillover GHG emissions	2.15	t CO_2e/capita	53.3	●	↓	7.15	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.07	t CO_2e/capita	30.3	●	●	0.23	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	28.99	%	73.0	●	↓	28.99	%	2020
Unprotected freshwater biodiversity sites	99.96	%	1.0	●	↓	99.96	%	2020
Domestic land use related biodiversity loss	7.17×10^{-12}	global PDF/capita	90.5	●	↓	2.38×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	3.27×10^{-12}	global PDF/capita	83.5	●	↓	1.09×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	5.36	spp./million	1.0	●	●	17.81	species	2018
Spillover freshwater biodiversity threats	0.21	spp./million	24.7	●	●	0.69	species	2018
Domestic deforestation	0.05	%	96.6	●	↓	1.17×10^{3}	hectares	2020
Spillover deforestation	6.35×10^{-4}	ha/capita	92.8	●	↓	2.11×10^{3}	hectares	2018
Red List Index of species survival	0.90	scale 0 to 1	72.7	●	↗	0.90	scale 0 to 1	2021
Biodiversity Habitat Index	0.41	scale 0 to 1	17.5	●	●	0.41	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic marine biodiversity threats	0.06	spp./million	68.0	●	●	0.21	species	2018
Spillover marine biodiversity threats	0.00	spp./million	100.0	●	●	0.00	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	0.00	%	100.0	●	●	0.00	%	2018
Domestic vulnerable fisheries catch	0.03	tonnes/capita	100.0	●	↓	0.00	Tg	2018
Spillover vulnerable fisheries catch	4.82	tonnes/capita	46.4	●	↓	0.02	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	1.00	scale 0 to 1.4	13.8	●	↓	1.00	scale 0 to 1.4	2015
Domestic nitrogen surplus	37.26	kg/capita	1.0	●	↓	127.79	Gg	2015
Spillover nitrogen surplus	1.53	kg/capita	51.9	●	→	5.25	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	2.33	g/capita	43.0	●	↓	7.76	kt	2018
Water Cycle								
Domestic scarce water consumption	17.02	m^3 H_2O-eq./capita	30.4	●	↓	56.57	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	73.65	m^3 H_2O-eq./capita	30.3	●	↓	698.47	Mm^3 H_2O-eq.	2018
Domestic water stress	0.03	ML H_2O-eq./capita	83.1	●	↓	0.09	Bm^3 H_2O-eq.	2018
Spillover water stress	2.75	m^3 H_2O-eq./capita	32.0	●	↓	26.10	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Botswana

Africa

Land area	**566,730 sq. km**	**Population**	**2.4 million**
GDP (PPP, constant 2017 US$, billions)	**$37.7**	**GDP per capita**	**$16,040**
Human Development Index (HDI)	**0.693**	**HDI category**	**Medium**

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		34.8 /100	
ABSOLUTE		72.5 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

The Global Commons Stewardship Index is a production of the Sustainable Development Solutions Network, the Yale Center for Environmental Law & Policy, and the Center for Global Commons at the University of Tokyo.

Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Botswana

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	22.94	kg/capita	24.7	●	↓	51.72	Gg	2018
Spillover SO_2 emissions	26.14	kg/capita	1.0	●	→	55.44	Gg	2015
Domestic NO_X emissions	22.83	kg/capita	63.3	●	↓	51.47	Gg	2018
Spillover NO_X emissions	17.34	kg/capita	12.1	●	→	36.77	Gg	2015
Domestic black carbon emissions	0.81	kg/capita	36.0	●	→	1.82	Gg	2018
Spillover black carbon emissions	0.59	kg/capita	15.6	●	↓	1.25	Gg	2015
GHG Emissions								
Domestic GHG emissions	6.03	t CO_2e/capita	57.2	●	→	13.88	Tg	2019
Spillover GHG emissions	6.09	t CO_2e/capita	24.1	●	→	13.72	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.11	t CO_2e/capita	28.4	●	●	0.25	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	51.09	%	50.6	●	↓	51.09	%	2020
Unprotected freshwater biodiversity sites	52.12	%	50.5	●	↓	52.12	%	2020
Domestic land use related biodiversity loss	4.50×10^{-12}	global PDF/capita	94.0	●	→	1.01×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	7.40×10^{-12}	global PDF/capita	58.7	●	→	1.67×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	1.69	spp./million	16.9	●	●	3.80	species	2018
Spillover freshwater biodiversity threats	0.32	spp./million	17.2	●	●	0.73	species	2018
Domestic deforestation	0.01	%	99.4	●	↑	3.89×10^{-1}	hectares	2020
Spillover deforestation	1.19×10^{-3}	ha/capita	84.7	●	→	2.67×10^{3}	hectares	2018
Red List Index of species survival	0.98	scale 0 to 1	96.0	●	↓	0.98	scale 0 to 1	2021
Biodiversity Habitat Index	0.57	scale 0 to 1	41.0	●	●	0.57	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	8.70×10^{-4}	WOE/million	90.9	●	●	2.00×10^{3}	WOE	2019
Spillover endangered terrestrial animals	5.86×10^{-6}	WOE/capita	99.9	●	●	1.35×10	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	NA	WOE/million	NA	●	●	NA	WOE	NA
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic marine biodiversity threats	NA	spp./million	NA	●	●	NA	species	NA
Spillover marine biodiversity threats	0.48	spp./million	10.5	●	●	1.08	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	NA	%	NA	●	●	NA	%	NA
Domestic vulnerable fisheries catch	NA	tonnes/capita	NA	●	●	NA	Tg	NA
Spillover vulnerable fisheries catch	2.48	tonnes/capita	57.5	●	↗	0.01	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	1.30	scale 0 to 1.4	1.0	●	↓	1.30	scale 0 to 1.4	2015
Domestic nitrogen surplus	11.06	kg/capita	69.5	●	↓	23.46	Gg	2015
Spillover nitrogen surplus	3.06	kg/capita	38.7	●	↓	6.50	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	2.02	g/capita	47.5	●	→	4.55	kt	2018
Water Cycle								
Domestic scarce water consumption	4.63	m^3 H_2O-eq./capita	45.0	●	↓	10.44	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	12.81	m^3 H_2O-eq./capita	75.8	●	↓	4.91	Mm^3 H_2O-eq.	2018
Domestic water stress	0.24	ML H_2O-eq./capita	54.7	●	↗	0.54	Bm^3 H_2O-eq.	2018
Spillover water stress	0.70	m^3 H_2O-eq./capita	67.3	●	↗	0.27	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Brazil

Latin America and Caribbean

Land area	8,358,140 sq. km	**Population**	212.6 million
GDP (PPP, constant 2017 US$, billions)	$2,989.4	**GDP per capita**	$14,064
Human Development Index (HDI)	0.754	**HDI category**	High

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		48.4 /100	→
ABSOLUTE		19.5 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories
Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Brazil

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	6.65	kg/capita	53.2	●	↑	1,393.31	Gg	2018
Spillover SO_2 emissions	1.75	kg/capita	75.5	●	↑	358.19	Gg	2015
Domestic NO_X emissions	14.28	kg/capita	80.8	●	↑	2,991.26	Gg	2018
Spillover NO_X emissions	2.15	kg/capita	67.5	●	↑	440.13	Gg	2015
Domestic black carbon emissions	1.06	kg/capita	13.2	●	→	221.72	Gg	2018
Spillover black carbon emissions	0.07	kg/capita	73.4	●	↑	14.92	Gg	2015
GHG Emissions								
Domestic GHG emissions	9.91	t CO_2e/capita	37.9	●	→	2,091.46	Tg	2019
Spillover GHG emissions	1.11	t CO_2e/capita	71.8	●	↑	233.30	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.66	t CO_2e/capita	20.1	●	●	139.34	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	43.83	%	57.9	●	↓	43.83	%	2020
Unprotected freshwater biodiversity sites	28.30	%	75.1	●	↓	28.30	%	2020
Domestic land use related biodiversity loss	3.75×10^{-11}	global PDF/capita	50.1	●	→	7.86×10^{-3}	global PDF	2018
Spillover land use related biodiversity loss	1.14×10^{-12}	global PDF/capita	96.3	●	↓	2.38×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	0.29	spp./million	41.0	●	●	60.67	species	2018
Spillover freshwater biodiversity threats	0.03	spp./million	57.5	●	●	6.19	species	2018
Domestic deforestation	0.58	%	56.3	●	↓	2.90×10^{6}	hectares	2020
Spillover deforestation	2.42×10^{-4}	ha/capita	98.6	●	↓	5.08×10^{4}	hectares	2018
Red List Index of species survival	0.90	scale 0 to 1	72.2	●	↓	0.90	scale 0 to 1	2021
Biodiversity Habitat Index	0.54	scale 0 to 1	36.7	●	●	0.54	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	9.40×10^{-5}	WOE/million	99.0	●	●	1.98×10^{4}	WOE	2019
Spillover endangered terrestrial animals	7.83×10^{-5}	WOE/capita	99.1	●	●	1.65×10^{4}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	4.52×10^{-6}	WOE/million	99.8	●	●	9.54×10^{2}	WOE	2019
Spillover endangered marine animals	6.66×10^{-5}	WOE/capita	95.7	●	●	1.41×10^{4}	WOE	2019
Unprotected marine biodiversity sites	66.47	%	34.2	●	↓	66.47	%	2020
Domestic marine biodiversity threats	0.60	spp./million	36.9	●	●	126.42	species	2018
Spillover marine biodiversity threats	0.03	spp./million	45.8	●	●	6.43	species	2018
Fish caught from overexploited or collapsed stocks	14.10	%	77.5	●	→	14.10	%	2018
Fish caught by trawling	14.41	%	76.6	●	→	14.41	%	2018
Domestic vulnerable fisheries catch	5.27	tonnes/capita	46.6	●	↗	1.10	Tg	2018
Spillover vulnerable fisheries catch	3.72	tonnes/capita	50.7	●	→	0.78	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.50	scale 0 to 1.4	57.2	●	↓	0.50	scale 0 to 1.4	2015
Domestic nitrogen surplus	36.07	kg/capita	1.0	●	↓	7,376.14	Gg	2015
Spillover nitrogen surplus	6.32	kg/capita	25.0	●	↓	1,291.54	Tg	2015
Domestic phosphorus fertilizer	24.38	kg/capita	7.0	●	→	5,106.94	kt	2018
Spillover phosphorus fertilizer	0.85	g/capita	74.2	●	↓	178.48	kt	2018
Water Cycle								
Domestic scarce water consumption	0.71	m^3 H_2O-eq./capita	66.1	●	↗	148.59	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	3.56	m^3 H_2O-eq./capita	100.0	●	↓	40.38	Mm^3 H_2O-eq.	2018
Domestic water stress	0.17	ML H_2O-eq./capita	59.4	●	↗	35.37	Bm^3 H_2O-eq.	2018
Spillover water stress	0.29	m^3 H_2O-eq./capita	90.5	●	↓	3.25	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Brunei Darussalam

East and South Asia

Land area	5,270 sq. km	**Population**	0.4 million
GDP (PPP, constant 2017 US$, billions)	$27.2	**GDP per capita**	$62,244
Human Development Index (HDI)	0.829	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		2.1 /100	→
ABSOLUTE		72.5 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Brunei Darussalam

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	10.04	kg/capita	43.7			4.31	Gg	2018
Spillover SO_2 emissions	24.02	kg/capita	3.2			9.97	Gg	2015
Domestic NO_X emissions	37.40	kg/capita	33.5			16.04	Gg	2018
Spillover NO_X emissions	23.66	kg/capita	3.9			9.82	Gg	2015
Domestic black carbon emissions	0.39	kg/capita	73.7			0.17	Gg	2018
Spillover black carbon emissions	0.93	kg/capita	2.8			0.39	Gg	2015
GHG Emissions								
Domestic GHG emissions	30.40	t CO_2e/capita	1.0			13.17	Tg	2019
Spillover GHG emissions	13.87	t CO_2e/capita	1.0			5.95	Tg	2018
CO_2 emissions embodied in fossil fuel exports	65.92	t CO_2e/capita	1.0			28.84	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	41.66	%	60.1			41.66	%	2020
Unprotected freshwater biodiversity sites	50.00	%	52.7			50.00	%	2020
Domestic land use related biodiversity loss	2.07×10^{-11}	global PDF/capita	72.5			8.88×10^{-6}	global PDF	2018
Spillover land use related biodiversity loss	2.67×10^{-11}	global PDF/capita	1.0			1.14×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.06	spp./million	62.0			0.03	species	2018
Spillover freshwater biodiversity threats	0.03	spp./million	58.8			0.01	species	2018
Domestic deforestation	0.19	%	86.0			9.83×10^{2}	hectares	2020
Spillover deforestation	5.94×10^{-3}	ha/capita	15.0			2.55×10^{3}	hectares	2018
Red List Index of species survival	0.85	scale 0 to 1	58.7			0.85	scale 0 to 1	2021
Biodiversity Habitat Index	0.57	scale 0 to 1	40.6			0.57	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0			0.00	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0			0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0			0.00	WOE	2019
Spillover endangered marine animals	2.31×10^{-4}	WOE/capita	85.2			1.00×10^{2}	WOE	2019
Unprotected marine biodiversity sites	5.45	%	94.6			5.45	%	2020
Domestic marine biodiversity threats	0.26	spp./million	48.6			0.11	species	2018
Spillover marine biodiversity threats	0.04	spp./million	41.4			0.02	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA			NA	%	NA
Fish caught by trawling	31.94	%	47.8			31.94	%	2018
Domestic vulnerable fisheries catch	79.19	tonnes/capita	11.0			0.03	Tg	2018
Spillover vulnerable fisheries catch	45.34	tonnes/capita	9.0			0.02	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	1.37	scale 0 to 1.4	1.0			1.37	scale 0 to 1.4	2015
Domestic nitrogen surplus	10.34	kg/capita	71.6			4.29	Gg	2015
Spillover nitrogen surplus	6.13	kg/capita	25.5			2.54	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA			NA	kt	NA
Spillover phosphorus fertilizer	12.46	g/capita	1.0			5.34	kt	2018
Water Cycle								
Domestic scarce water consumption	0.00	m^3 H_2O-eq./capita	100.0			0.00	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	6.12	m^3 H_2O-eq./capita	95.1			1,282.89	Mm^3 H_2O-eq.	2018
Domestic water stress	0.00	ML H_2O-eq./capita	100.0			0.00	Bm^3 H_2O-eq.	2018
Spillover water stress	0.37	m^3 H_2O-eq./capita	83.7			78.06	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Bulgaria

Eastern Europe and Central Asia

Land area	108,560 sq. km	**Population**	6.9 million
GDP (PPP, constant 2017 US$, billions)	$155.1	**GDP per capita**	$22,384
Human Development Index (HDI)	0.795	**HDI category**	High

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		40.2 /100	↓
ABSOLUTE		61.1 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Bulgaria

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	64.39	kg/capita	1.0	●	→	452.34	Gg	2018
Spillover SO_2 emissions	3.91	kg/capita	53.3	●	→	28.06	Gg	2015
Domestic NO_X emissions	13.43	kg/capita	82.5	●	↓	94.37	Gg	2018
Spillover NO_X emissions	4.60	kg/capita	47.4	●	→	33.01	Gg	2015
Domestic black carbon emissions	0.47	kg/capita	66.7	●	↓	3.28	Gg	2018
Spillover black carbon emissions	0.12	kg/capita	59.0	●	↓	0.88	Gg	2015
GHG Emissions								
Domestic GHG emissions	9.78	t CO_2e/capita	38.4	●	↓	68.25	Tg	2019
Spillover GHG emissions	3.03	t CO_2e/capita	43.7	●	↓	21.31	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.02	t CO_2e/capita	35.2	●	●	0.17	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	96.61	%	4.4	●	↓	96.61	%	2020
Unprotected freshwater biodiversity sites	98.67	%	2.4	●	↓	98.67	%	2020
Domestic land use related biodiversity loss	4.67×10^{-12}	global PDF/capita	93.8	●	↓	3.28×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	5.45×10^{-12}	global PDF/capita	70.4	●	↓	3.83×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	2.02	spp./million	14.4	●	●	14.26	species	2018
Spillover freshwater biodiversity threats	0.15	spp./million	29.6	●	●	1.09	species	2018
Domestic deforestation	0.14	%	89.3	●	↓	5.62×10^{3}	hectares	2020
Spillover deforestation	1.16×10^{-3}	ha/capita	85.0	●	↓	8.18×10^{3}	hectares	2018
Red List Index of species survival	0.94	scale 0 to 1	83.7	●	↓	0.94	scale 0 to 1	2021
Biodiversity Habitat Index	0.34	scale 0 to 1	8.7	●	●	0.34	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	1.29×10^{-6}	WOE/million	100.0	●	●	9.00	WOE	2019
Spillover endangered terrestrial animals	9.46×10^{-6}	WOE/capita	99.9	●	●	6.60×10	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	6.34×10^{-5}	WOE/capita	96.0	●	●	4.42×10^{2}	WOE	2019
Unprotected marine biodiversity sites	99.65	%	1.3	●	↓	99.65	%	2020
Domestic marine biodiversity threats	0.03	spp./million	79.5	●	●	0.20	species	2018
Spillover marine biodiversity threats	0.02	spp./million	49.5	●	●	0.16	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	62.89	%	1.0	●	→	62.89	%	2018
Domestic vulnerable fisheries catch	5.09	tonnes/capita	47.0	●	→	0.04	Tg	2018
Spillover vulnerable fisheries catch	6.96	tonnes/capita	40.3	●	↓	0.05	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.52	scale 0 to 1.4	55.8	●	→	0.52	scale 0 to 1.4	2015
Domestic nitrogen surplus	21.93	kg/capita	38.2	●	→	157.41	Gg	2015
Spillover nitrogen surplus	2.37	kg/capita	43.6	●	↓	17.04	Tg	2015
Domestic phosphorus fertilizer	10.86	kg/capita	28.6	●	↓	76.27	kt	2018
Spillover phosphorus fertilizer	1.98	g/capita	48.1	●	↓	13.89	kt	2018
Water Cycle								
Domestic scarce water consumption	0.35	m^3 H_2O-eq./capita	74.0	●	↓	2.46	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	227.22	m^3 H_2O-eq./capita	1.0	●	↓	97.47	Mm^3 H_2O-eq.	2018
Domestic water stress	1.07	ML H_2O-eq./capita	35.5	●	↓	7.53	Bm^3 H_2O-eq.	2018
Spillover water stress	5.63	m^3 H_2O-eq./capita	13.5	●	↓	2.42	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Burkina Faso

Africa

Land area	273,600 sq. km	**Population**	20.9 million
GDP (PPP, constant 2017 US$, billions)	$45.2	**GDP per capita**	$2,161
Human Development Index (HDI)	0.449	**HDI category**	Low

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		90.5 /100	
ABSOLUTE		76.4 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Burkina Faso

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	1.09	kg/capita	94.8		↓	21.60	Gg	2018
Spillover SO_2 emissions	0.43	kg/capita	100.0		↓	7.85	Gg	2015
Domestic NO_X emissions	2.77	kg/capita	100.0		↓	54.64	Gg	2018
Spillover NO_X emissions	0.45	kg/capita	100.0		↑	8.14	Gg	2015
Domestic black carbon emissions	0.58	kg/capita	56.5		→	11.43	Gg	2018
Spillover black carbon emissions	0.02	kg/capita	100.0		↑	0.34	Gg	2015
GHG Emissions								
Domestic GHG emissions	2.80	t CO_2e/capita	86.9		↓	56.96	Tg	2019
Spillover GHG emissions	0.36	t CO_2e/capita	100.0		↓	7.07	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA			NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	66.71	%	34.7		↓	66.71	%	2020
Unprotected freshwater biodiversity sites	50.18	%	52.5		↓	50.18	%	2020
Domestic land use related biodiversity loss	5.39×10^{-13}	global PDF/capita	99.3		↗	1.07×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	5.39×10^{-13}	global PDF/capita	99.8		↓	1.06×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.26	spp./million	42.6			5.11	species	2018
Spillover freshwater biodiversity threats	0.01	spp./million	79.4			0.16	species	2018
Domestic deforestation	0.00	%	100.0			0.00	hectares	2020
Spillover deforestation	6.20×10^{-4}	ha/capita	93.0		↓	1.22×10^{4}	hectares	2018
Red List Index of species survival	0.99	scale 0 to 1	99.4		↓	0.99	scale 0 to 1	2021
Biodiversity Habitat Index	0.28	scale 0 to 1	1.0			0.28	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0			0.00	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0			0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	NA	WOE/million	NA			NA	WOE	NA
Spillover endangered marine animals	0.00	WOE/capita	100.0			0.00	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA			NA	%	NA
Domestic marine biodiversity threats	0.00	spp./million	100.0			0.05	species	2018
Spillover marine biodiversity threats	0.01	spp./million	66.4			0.12	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA			NA	%	NA
Fish caught by trawling	NA	%	NA			NA	%	NA
Domestic vulnerable fisheries catch	NA	tonnes/capita	NA			NA	Tg	NA
Spillover vulnerable fisheries catch	1.35	tonnes/capita	67.6		↓	0.03	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.83	scale 0 to 1.4	29.1		→	0.83	scale 0 to 1.4	2015
Domestic nitrogen surplus	3.23	kg/capita	92.1		↗	58.41	Gg	2015
Spillover nitrogen surplus	0.20	kg/capita	90.2		↑	3.67	Tg	2015
Domestic phosphorus fertilizer	1.16	kg/capita	88.5		↗	22.85	kt	2018
Spillover phosphorus fertilizer	0.23	g/capita	100.0		↓	4.52	kt	2018
Water Cycle								
Domestic scarce water consumption	0.22	m^3 H_2O-eq./capita	79.3		↓	4.31	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	98.98	m^3 H_2O-eq./capita	22.6		↓	74.67	Mm^3 H_2O-eq.	2018
Domestic water stress	0.14	ML H_2O-eq./capita	61.6		↗	2.79	Bm^3 H_2O-eq.	2018
Spillover water stress	1.85	m^3 H_2O-eq./capita	42.3		↓	1.40	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Burundi

Africa

Land area	25,680 sq. km	**Population**	11.9 million
GDP (PPP, constant 2017 US$, billions)	$8.7	**GDP per capita**	$731
Human Development Index (HDI)	0.426	**HDI category**	Low

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		93.8 /100	
ABSOLUTE		86.1 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Burundi

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	0.33	kg/capita	100.0	●	↑	3.66	Gg	2018
Spillover SO_2 emissions	0.19	kg/capita	100.0	●	↑	1.88	Gg	2015
Domestic NO_X emissions	0.80	kg/capita	100.0	●	↑	8.92	Gg	2018
Spillover NO_X emissions	0.18	kg/capita	100.0	●	↓	1.82	Gg	2015
Domestic black carbon emissions	0.40	kg/capita	73.1	●	→	4.42	Gg	2018
Spillover black carbon emissions	0.02	kg/capita	100.0	●	↓	0.24	Gg	2015
GHG Emissions								
Domestic GHG emissions	1.39	t CO_2e/capita	100.0	●	↑	16.07	Tg	2019
Spillover GHG emissions	0.09	t CO_2e/capita	100.0	●	↑	1.00	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA	●	●	NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	56.83	%	44.8	●	↓	56.83	%	2020
Unprotected freshwater biodiversity sites	79.95	%	21.7	●	↓	79.95	%	2020
Domestic land use related biodiversity loss	2.02×10^{-12}	global PDF/capita	97.3	●	↓	2.26×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	1.27×10^{-13}	global PDF/capita	100.0	●	↑	1.42×10^{-6}	global PDF	2018
Domestic freshwater biodiversity threats	0.87	spp./million	25.9	●	●	9.75	species	2018
Spillover freshwater biodiversity threats	0.01	spp./million	77.1	●	●	0.10	species	2018
Domestic deforestation	0.43	%	68.1	●	↓	2.35×10^{3}	hectares	2020
Spillover deforestation	1.21×10^{-4}	ha/capita	100.0	●	↑	1.35×10^{3}	hectares	2018
Red List Index of species survival	0.89	scale 0 to 1	70.0	●	↓	0.89	scale 0 to 1	2021
Biodiversity Habitat Index	0.40	scale 0 to 1	15.9	●	●	0.40	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	NA	WOE/million	NA	●	●	NA	WOE	NA
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic marine biodiversity threats	0.00	spp./million	100.0	●	●	0.04	species	2018
Spillover marine biodiversity threats	0.00	spp./million	91.1	●	●	0.01	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	NA	%	NA	●	●	NA	%	NA
Domestic vulnerable fisheries catch	NA	tonnes/capita	NA	●	●	NA	Tg	NA
Spillover vulnerable fisheries catch	0.08	tonnes/capita	100.0	●	↑	0.00	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.87	scale 0 to 1.4	25.0	●	↓	0.87	scale 0 to 1.4	2015
Domestic nitrogen surplus	1.25	kg/capita	97.8	●	↓	12.72	Gg	2015
Spillover nitrogen surplus	0.09	kg/capita	100.0	●	↑	0.90	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	0.08	g/capita	100.0	●	↑	0.92	kt	2018
Water Cycle								
Domestic scarce water consumption	25.51	m^3 H_2O-eq./capita	25.9	●	↓	285.13	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	10.63	m^3 H_2O-eq./capita	80.7	●	↓	23.96	Mm^3 H_2O-eq.	2018
Domestic water stress	2.74	ML H_2O-eq./capita	23.4	●	↓	30.63	Bm^3 H_2O-eq.	2018
Spillover water stress	0.78	m^3 H_2O-eq./capita	64.7	●	↓	1.75	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Cambodia

East and South Asia

Land area	176,520 sq. km	**Population**	16.7 million
GDP (PPP, constant 2017 US$, billions)	$70.1	**GDP per capita**	$4,192
Human Development Index (HDI)	0.593	**HDI category**	Medium

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	68.4 /100	→
ABSOLUTE	●	65.2 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Cambodia

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	3.43	kg/capita	68.5	●	↓	55.66	Gg	2018
Spillover SO_2 emissions	1.30	kg/capita	83.7	●	↓	20.15	Gg	2015
Domestic NO_X emissions	5.53	kg/capita	98.7	●	↓	89.82	Gg	2018
Spillover NO_X emissions	1.16	kg/capita	84.0	●	↓	17.95	Gg	2015
Domestic black carbon emissions	0.97	kg/capita	21.5	●	↓	15.71	Gg	2018
Spillover black carbon emissions	0.06	kg/capita	80.9	●	↓	0.86	Gg	2015
GHG Emissions								
Domestic GHG emissions	4.89	t CO_2e/capita	65.3	●	↓	80.67	Tg	2019
Spillover GHG emissions	0.80	t CO_2e/capita	81.2	●	↓	12.93	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA	●	●	NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	54.54	%	47.1	●	↓	54.54	%	2020
Unprotected freshwater biodiversity sites	45.04	%	57.8	●	↓	45.04	%	2020
Domestic land use related biodiversity loss	5.29×10^{-12}	global PDF/capita	93.0	●	→	8.59×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	6.26×10^{-13}	global PDF/capita	99.3	●	↑	1.02×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	2.87	spp./million	9.6	●	●	46.62	species	2018
Spillover freshwater biodiversity threats	0.00	spp./million	100.0	●	●	0.04	species	2018
Domestic deforestation	1.73	%	1.0	●	→	1.32×10^{5}	hectares	2020
Spillover deforestation	1.37×10^{-4}	ha/capita	100.0	●	↓	2.23×10^{3}	hectares	2018
Red List Index of species survival	0.78	scale 0 to 1	36.5	●	↓	0.78	scale 0 to 1	2021
Biodiversity Habitat Index	0.36	scale 0 to 1	10.7	●	●	0.36	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	1.22×10^{-2}	WOE/million	1.0	●	●	2.01×10^{5}	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	51.03	%	49.5	●	↓	51.03	%	2020
Domestic marine biodiversity threats	0.16	spp./million	55.4	●	●	2.59	species	2018
Spillover marine biodiversity threats	0.01	spp./million	67.7	●	●	0.09	species	2018
Fish caught from overexploited or collapsed stocks	46.94	%	25.1	●	↓	46.94	%	2018
Fish caught by trawling	90.26	%	1.0	●	↓	90.26	%	2018
Domestic vulnerable fisheries catch	41.57	tonnes/capita	19.4	●	→	0.68	Tg	2018
Spillover vulnerable fisheries catch	1.34	tonnes/capita	67.7	●	↗	0.02	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.55	scale 0 to 1.4	53.2	●	→	0.55	scale 0 to 1.4	2015
Domestic nitrogen surplus	6.51	kg/capita	82.6	●	↓	101.10	Gg	2015
Spillover nitrogen surplus	0.36	kg/capita	79.2	●	↓	5.63	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	0.42	g/capita	96.1	●	↑	6.82	kt	2018
Water Cycle								
Domestic scarce water consumption	6.77	m^3 H_2O-eq./capita	40.8	●	↗	110.04	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	18.10	m^3 H_2O-eq./capita	66.8	●	↓	84.46	Mm^3 H_2O-eq.	2018
Domestic water stress	0.12	ML H_2O-eq./capita	63.4	●	↗	2.00	Bm^3 H_2O-eq.	2018
Spillover water stress	0.96	m^3 H_2O-eq./capita	59.2	●	↓	4.49	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Cameroon

Africa

Land area	472,710 sq. km	**Population**	26.5 million
GDP (PPP, constant 2017 US$, billions)	$94.9	**GDP per capita**	$3,576
Human Development Index (HDI)	0.576	**HDI category**	Medium

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		76.2 /100	
ABSOLUTE		62.9 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Cameroon

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	0.92	kg/capita	98.7	●	↑	23.21	Gg	2018
Spillover SO_2 emissions	0.72	kg/capita	100.0	●	↑	16.69	Gg	2015
Domestic NO_X emissions	2.52	kg/capita	100.0	●	↑	63.62	Gg	2018
Spillover NO_X emissions	0.76	kg/capita	95.2	●	↑	17.73	Gg	2015
Domestic black carbon emissions	0.48	kg/capita	65.6	●	→	12.05	Gg	2018
Spillover black carbon emissions	0.03	kg/capita	99.0	●	↑	0.67	Gg	2015
GHG Emissions								
Domestic GHG emissions	2.66	t CO_2e/capita	88.9	●	↑	68.91	Tg	2019
Spillover GHG emissions	0.48	t CO_2e/capita	95.3	●	↑	12.13	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.48	t CO_2e/capita	21.5	●	●	12.03	Tg	2018
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	35.33	%	66.6	●	↓	35.33	%	2020
Unprotected freshwater biodiversity sites	41.27	%	61.7	●	↓	41.27	%	2020
Domestic land use related biodiversity loss	5.09×10^{-12}	global PDF/capita	93.3	●	→	1.28×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	8.42×10^{-13}	global PDF/capita	98.0	●	↑	2.12×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	2.85	spp./million	9.7	●	●	71.86	species	2018
Spillover freshwater biodiversity threats	0.00	spp./million	94.3	●	●	0.08	species	2018
Domestic deforestation	0.48	%	64.1	●	↓	1.46×10^{5}	hectares	2020
Spillover deforestation	4.66×10^{-4}	ha/capita	95.3	●	↓	1.17×10^{4}	hectares	2018
Red List Index of species survival	0.84	scale 0 to 1	53.8	●	↓	0.84	scale 0 to 1	2021
Biodiversity Habitat Index	0.57	scale 0 to 1	40.1	●	●	0.57	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	4.48×10^{-5}	WOE/million	99.5	●	●	1.16×10^{3}	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic marine biodiversity threats	0.37	spp./million	43.8	●	●	9.29	species	2018
Spillover marine biodiversity threats	0.00	spp./million	80.2	●	●	0.05	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	9.04	%	85.4	●	↓	9.04	%	2018
Domestic vulnerable fisheries catch	19.33	tonnes/capita	29.5	●	↓	0.49	Tg	2018
Spillover vulnerable fisheries catch	8.50	tonnes/capita	36.9	●	→	0.21	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.81	scale 0 to 1.4	30.5	●	→	0.81	scale 0 to 1.4	2015
Domestic nitrogen surplus	3.29	kg/capita	91.9	●	↗	76.69	Gg	2015
Spillover nitrogen surplus	0.20	kg/capita	90.8	●	↓	4.58	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	0.53	g/capita	88.8	●	↑	13.40	kt	2018
Water Cycle								
Domestic scarce water consumption	3.03	m^3 H_2O-eq./capita	49.8	●	↗	76.53	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	75.51	m^3 H_2O-eq./capita	29.7	●	↑	2,798.68	Mm^3 H_2O-eq.	2018
Domestic water stress	0.14	ML H_2O-eq./capita	62.2	●	↓	3.42	Bm^3 H_2O-eq.	2018
Spillover water stress	3.80	m^3 H_2O-eq./capita	23.7	●	↑	141.03	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Canada

OECD Member

Land area	8,965,590 sq. km	**Population**	38.0 million
GDP (PPP, constant 2017 US$, billions)	$1,744.4	**GDP per capita**	$45,900
Human Development Index (HDI)	0.936	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	11.7 /100	→
ABSOLUTE	●	23.4 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Canada

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	23.42	kg/capita	24.3	●	→	867.96	Gg	2018
Spillover SO_2 emissions	13.39	kg/capita	19.4	●	→	478.04	Gg	2015
Domestic NO_X emissions	40.86	kg/capita	26.4	●	→	1,514.53	Gg	2018
Spillover NO_X emissions	17.49	kg/capita	11.9	●	→	624.40	Gg	2015
Domestic black carbon emissions	0.99	kg/capita	19.3	●	→	36.71	Gg	2018
Spillover black carbon emissions	0.55	kg/capita	17.7	●	→	19.46	Gg	2015
GHG Emissions								
Domestic GHG emissions	23.08	t CO_2e/capita	5.1	●	→	867.54	Tg	2019
Spillover GHG emissions	7.30	t CO_2e/capita	19.0	●	→	270.44	Tg	2018
CO_2 emissions embodied in fossil fuel exports	16.55	t CO_2e/capita	5.4	●	●	629.02	Tg	2021
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	29.85	%	72.1	●	↓	29.85	%	2020
Unprotected freshwater biodiversity sites	22.86	%	80.7	●	↓	22.86	%	2020
Domestic land use related biodiversity loss	3.12×10^{-12}	global PDF/capita	95.9	●	→	1.16×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	8.84×10^{-12}	global PDF/capita	50.1	●	↓	3.28×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	0.58	spp./million	31.7	●	●	21.32	species	2018
Spillover freshwater biodiversity threats	0.54	spp./million	8.5	●	●	20.10	species	2018
Domestic deforestation	0.21	%	84.0	●	↓	8.98×10^{5}	hectares	2020
Spillover deforestation	2.80×10^{-3}	ha/capita	61.0	●	↓	1.04×10^{5}	hectares	2018
Red List Index of species survival	0.96	scale 0 to 1	92.4	●	↓	0.96	scale 0 to 1	2021
Biodiversity Habitat Index	0.79	scale 0 to 1	71.3	●	●	0.79	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	3.18×10^{-4}	WOE/million	96.7	●	●	1.20×10^{4}	WOE	2019
Spillover endangered terrestrial animals	2.82×10^{-4}	WOE/capita	96.7	●	●	1.06×10^{4}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	1.58×10^{-4}	WOE/million	94.6	●	●	5.94×10^{3}	WOE	2019
Spillover endangered marine animals	3.44×10^{-4}	WOE/capita	78.0	●	●	1.29×10^{4}	WOE	2019
Unprotected marine biodiversity sites	35.62	%	64.7	●	↓	35.62	%	2020
Domestic marine biodiversity threats	0.20	spp./million	52.1	●	●	7.51	species	2018
Spillover marine biodiversity threats	0.90	spp./million	2.4	●	●	33.43	species	2018
Fish caught from overexploited or collapsed stocks	36.28	%	42.1	●	→	36.28	%	2018
Fish caught by trawling	26.46	%	56.8	●	↓	26.46	%	2018
Domestic vulnerable fisheries catch	26.07	tonnes/capita	25.6	●	↓	0.97	Tg	2018
Spillover vulnerable fisheries catch	34.50	tonnes/capita	13.5	●	↓	1.28	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.47	scale 0 to 1.4	60.1	●	↓	0.47	scale 0 to 1.4	2015
Domestic nitrogen surplus	43.20	kg/capita	1.0	●	↓	1,542.28	Gg	2015
Spillover nitrogen surplus	13.67	kg/capita	10.3	●	↓	488.10	Tg	2015
Domestic phosphorus fertilizer	30.49	kg/capita	1.0	●	↓	1,130.00	kt	2018
Spillover phosphorus fertilizer	5.55	g/capita	16.1	●	↓	205.88	kt	2018
Water Cycle								
Domestic scarce water consumption	184.02	m^3 H_2O-eq./capita	3.7	●	↓	6,820.90	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	104.56	m^3 H_2O-eq./capita	21.2	●	↓	890.22	Mm^3 H_2O-eq.	2018
Domestic water stress	0.26	ML H_2O-eq./capita	54.0	●	↓	9.46	Bm^3 H_2O-eq.	2018
Spillover water stress	3.02	m^3 H_2O-eq./capita	29.6	●	↓	25.71	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Central African Republic

Africa

Land area	622,980 sq. km	**Population**	4.8 million
GDP (PPP, constant 2017 US$, billions)	$4.5	**GDP per capita**	$929
Human Development Index (HDI)	0.404	**HDI category**	Low

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		85.4 /100	→
ABSOLUTE		87.6 /100	↓

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Central African Republic

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	0.59	kg/capita	100.0	●	↑	2.76	Gg	2018
Spillover SO_2 emissions	0.23	kg/capita	100.0	●	↓	1.01	Gg	2015
Domestic NO_X emissions	2.03	kg/capita	100.0	●	↓	9.48	Gg	2018
Spillover NO_X emissions	0.32	kg/capita	100.0	●	↑	1.45	Gg	2015
Domestic black carbon emissions	0.40	kg/capita	72.9	●	↓	1.85	Gg	2018
Spillover black carbon emissions	0.01	kg/capita	100.0	●	↓	0.05	Gg	2015
GHG Emissions								
Domestic GHG emissions	3.08	t CO_2e/capita	83.2	●	↓	14.63	Tg	2019
Spillover GHG emissions	0.35	t CO_2e/capita	100.0	●	↓	1.62	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA	●	●	NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	74.24	%	27.1	●	↓	74.24	%	2020
Unprotected freshwater biodiversity sites	94.80	%	6.4	●	↓	94.80	%	2020
Domestic land use related biodiversity loss	8.20×10^{-12}	global PDF/capita	89.1	●	→	3.83×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	7.90×10^{-13}	global PDF/capita	98.3	●	↓	3.68×10^{-6}	global PDF	2018
Domestic freshwater biodiversity threats	1.70	spp./million	16.8	●	●	7.93	species	2018
Spillover freshwater biodiversity threats	0.00	spp./million	88.6	●	●	0.02	species	2018
Domestic deforestation	0.10	%	92.6	●	↓	4.66×10^{4}	hectares	2020
Spillover deforestation	9.49×10^{-3}	ha/capita	1.0	●	↓	4.43×10^{4}	hectares	2018
Red List Index of species survival	0.94	scale 0 to 1	83.7	●	↓	0.94	scale 0 to 1	2021
Biodiversity Habitat Index	0.63	scale 0 to 1	49.8	●	●	0.63	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	1.90×10^{-6}	WOE/million	100.0	●	●	9.00	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	NA	WOE/million	NA	●	●	NA	WOE	NA
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic marine biodiversity threats	0.02	spp./million	83.5	●	●	0.10	species	2018
Spillover marine biodiversity threats	0.00	spp./million	100.0	●	●	0.00	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	NA	%	NA	●	●	NA	%	NA
Domestic vulnerable fisheries catch	NA	tonnes/capita	NA	●	●	NA	Tg	NA
Spillover vulnerable fisheries catch	4.34	tonnes/capita	48.2	●	↓	0.02	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	1.05	scale 0 to 1.4	9.8	●	↓	1.05	scale 0 to 1.4	2015
Domestic nitrogen surplus	5.18	kg/capita	86.4	●	↓	23.29	Gg	2015
Spillover nitrogen surplus	0.11	kg/capita	100.0	●	↑	0.51	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	0.18	g/capita	100.0	●	↓	0.84	kt	2018
Water Cycle								
Domestic scarce water consumption	0.00	m^3 H_2O-eq./capita	100.0	●	↓	0.01	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	17.91	m^3 H_2O-eq./capita	67.1	●	↓	335.52	Mm^3 H_2O-eq.	2018
Domestic water stress	0.16	ML H_2O-eq./capita	60.2	●	↓	0.74	Bm^3 H_2O-eq.	2018
Spillover water stress	1.28	m^3 H_2O-eq./capita	51.7	●	↓	24.06	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Chad

Africa

Land area	1,259,200 sq. km	**Population**	16.4 million
GDP (PPP, constant 2017 US$, billions)	$25.0	**GDP per capita**	$1,520
Human Development Index (HDI)	0.394	**HDI category**	Low

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		78.9 /100	
ABSOLUTE		75.5 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Chad

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	0.35	kg/capita	100.0	●	↑	5.34	Gg	2018
Spillover SO_2 emissions	0.42	kg/capita	100.0	●	↑	5.98	Gg	2015
Domestic NO_X emissions	2.41	kg/capita	100.0	●	↓	37.28	Gg	2018
Spillover NO_X emissions	0.59	kg/capita	100.0	●	↑	8.28	Gg	2015
Domestic black carbon emissions	0.42	kg/capita	71.1	●	→	6.46	Gg	2018
Spillover black carbon emissions	0.02	kg/capita	100.0	●	↑	0.32	Gg	2015
GHG Emissions								
Domestic GHG emissions	5.76	t CO_2e/capita	59.0	●	↓	91.82	Tg	2019
Spillover GHG emissions	0.29	t CO_2e/capita	100.0	●	↑	4.47	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA	●	●	NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	67.31	%	34.1	●	↓	67.31	%	2020
Unprotected freshwater biodiversity sites	61.38	%	40.9	●	↓	61.38	%	2020
Domestic land use related biodiversity loss	4.47×10^{-13}	global PDF/capita	99.4	●	↗	6.92×10^{-6}	global PDF	2018
Spillover land use related biodiversity loss	3.53×10^{-13}	global PDF/capita	100.0	●	↓	5.46×10^{-6}	global PDF	2018
Domestic freshwater biodiversity threats	0.34	spp./million	38.7	●	●	5.31	species	2018
Spillover freshwater biodiversity threats	0.00	spp./million	100.0	●	●	0.03	species	2018
Domestic deforestation	0.82	%	38.1	●	↓	5.13×10^{3}	hectares	2020
Spillover deforestation	2.06×10^{-4}	ha/capita	99.1	●	↓	3.19×10^{3}	hectares	2018
Red List Index of species survival	0.91	scale 0 to 1	76.9	●	↓	0.91	scale 0 to 1	2021
Biodiversity Habitat Index	0.52	scale 0 to 1	33.9	●	●	0.52	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	1.08×10^{-3}	WOE/million	88.7	●	●	1.73×10^{4}	WOE	2019
Spillover endangered terrestrial animals	2.76×10^{-6}	WOE/capita	100.0	●	●	4.40×10	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	NA	WOE/million	NA	●	●	NA	WOE	NA
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic marine biodiversity threats	0.01	spp./million	92.8	●	●	0.16	species	2018
Spillover marine biodiversity threats	0.00	spp./million	100.0	●	●	0.00	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	NA	%	NA	●	●	NA	%	NA
Domestic vulnerable fisheries catch	NA	tonnes/capita	NA	●	●	NA	Tg	NA
Spillover vulnerable fisheries catch	0.30	tonnes/capita	92.8	●	↑	0.00	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.83	scale 0 to 1.4	28.5	●	→	0.83	scale 0 to 1.4	2015
Domestic nitrogen surplus	2.07	kg/capita	95.4	●	↓	29.14	Gg	2015
Spillover nitrogen surplus	0.06	kg/capita	100.0	●	↑	0.89	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	0.13	g/capita	100.0	●	↓	2.07	kt	2018
Water Cycle								
Domestic scarce water consumption	1.07	m^3 H_2O-eq./capita	61.5	●	↓	16.52	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	12.15	m^3 H_2O-eq./capita	77.2	●	↓	16,926.42	Mm^3 H_2O-eq.	2018
Domestic water stress	0.17	ML H_2O-eq./capita	59.0	●	↗	2.68	Bm^3 H_2O-eq.	2018
Spillover water stress	0.41	m^3 H_2O-eq./capita	81.6	●	↑	564.13	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Chile

OECD Member

Land area	743,532 sq. km	**Population**	19.1 million
GDP (PPP, constant 2017 US$, billions)	$445.9	**GDP per capita**	$23,325
Human Development Index (HDI)	0.855	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	36.1 /100	→
ABSOLUTE	●	46.9 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories
Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Chile

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	37.46	kg/capita	13.5	●	↓	701.64	Gg	2018
Spillover SO_2 emissions	7.00	kg/capita	37.3	●	→	125.71	Gg	2015
Domestic NO_X emissions	22.33	kg/capita	64.3	●	↓	418.20	Gg	2018
Spillover NO_X emissions	6.97	kg/capita	36.3	●	→	125.26	Gg	2015
Domestic black carbon emissions	0.73	kg/capita	43.2	●	→	13.61	Gg	2018
Spillover black carbon emissions	0.30	kg/capita	34.7	●	→	5.31	Gg	2015
GHG Emissions								
Domestic GHG emissions	9.27	t CO_2e/capita	40.5	●	↓	175.71	Tg	2019
Spillover GHG emissions	4.39	t CO_2e/capita	33.3	●	↓	82.25	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.10	t CO_2e/capita	28.8	●	●	1.87	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	36.42	%	65.4	●	↓	36.42	%	2020
Unprotected freshwater biodiversity sites	39.98	%	63.0	●	↓	39.98	%	2020
Domestic land use related biodiversity loss	1.20×10^{-11}	global PDF/capita	84.1	●	→	2.24×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	9.58×10^{-12}	global PDF/capita	45.6	●	↓	1.80×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	0.42	spp./million	36.1	●	●	7.80	species	2018
Spillover freshwater biodiversity threats	0.09	spp./million	39.7	●	●	1.60	species	2018
Domestic deforestation	0.35	%	73.7	●	↓	7.29×10^{4}	hectares	2020
Spillover deforestation	3.40×10^{-3}	ha/capita	52.2	●	↓	6.37×10^{4}	hectares	2018
Red List Index of species survival	0.76	scale 0 to 1	29.5	●	↓	0.76	scale 0 to 1	2021
Biodiversity Habitat Index	0.65	scale 0 to 1	51.4	●	●	0.65	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	5.28×10^{-8}	WOE/million	100.0	●	●	1.00	WOE	2019
Spillover endangered terrestrial animals	2.69×10^{-6}	WOE/capita	100.0	●	●	5.10×10	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	6.68×10^{-7}	WOE/million	100.0	●	●	1.27×10	WOE	2019
Spillover endangered marine animals	7.66×10^{-5}	WOE/capita	95.1	●	●	1.45×10^{3}	WOE	2019
Unprotected marine biodiversity sites	29.90	%	70.4	●	↓	29.90	%	2020
Domestic marine biodiversity threats	2.14	spp./million	19.4	●	●	40.02	species	2018
Spillover marine biodiversity threats	0.04	spp./million	43.1	●	●	0.71	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	0.20	%	100.0	●	↑	0.20	%	2018
Domestic vulnerable fisheries catch	109.97	tonnes/capita	6.7	●	→	2.06	Tg	2018
Spillover vulnerable fisheries catch	6.23	tonnes/capita	42.1	●	↑	0.12	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.78	scale 0 to 1.4	33.0	●	→	0.78	scale 0 to 1.4	2015
Domestic nitrogen surplus	22.13	kg/capita	37.6	●	↓	397.73	Gg	2015
Spillover nitrogen surplus	6.26	kg/capita	25.2	●	↓	112.45	Tg	2015
Domestic phosphorus fertilizer	7.95	kg/capita	37.0	●	→	148.93	kt	2018
Spillover phosphorus fertilizer	3.55	g/capita	30.0	●	↓	66.43	kt	2018
Water Cycle								
Domestic scarce water consumption	40.76	m^3 H_2O-eq./capita	20.6	●	↓	763.37	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	23.41	m^3 H_2O-eq./capita	60.1	●	↓	586.98	Mm^3 H_2O-eq.	2018
Domestic water stress	2.41	ML H_2O-eq./capita	25.0	●	↓	45.16	Bm^3 H_2O-eq.	2018
Spillover water stress	0.94	m^3 H_2O-eq./capita	59.7	●	↓	23.66	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

China

East and South Asia

Land area	9,424,703 sq. km	**Population**	1,402.1 million
GDP (PPP, constant 2017 US$, billions)	$23,009.8	**GDP per capita**	$16,411
Human Development Index (HDI)	0.768	**HDI category**	High

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		49.8 /100	↓
ABSOLUTE		1.6 /100	↓

Impacts by pillar and sub-pillar

Proportional scores and trajectories

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Dashboard categories
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories
Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

China

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	30.20	kg/capita	18.4	●	→	42,055.98	Gg	2018
Spillover SO_2 emissions	1.52	kg/capita	79.4	●	↓	2,079.10	Gg	2015
Domestic NO_X emissions	18.51	kg/capita	72.1	●	→	25,776.09	Gg	2018
Spillover NO_X emissions	1.69	kg/capita	74.0	●	↓	2,311.21	Gg	2015
Domestic black carbon emissions	0.80	kg/capita	37.0	●	↑	1,107.48	Gg	2018
Spillover black carbon emissions	0.07	kg/capita	73.2	●	↓	100.91	Gg	2015
GHG Emissions								
Domestic GHG emissions	10.77	t CO_2e/capita	34.7	●	↓	15,055.84	Tg	2019
Spillover GHG emissions	1.16	t CO_2e/capita	70.7	●	↓	1,613.82	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.02	t CO_2e/capita	36.0	●	●	28.34	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	10.06	%	92.2	●	↓	10.06	%	2020
Unprotected freshwater biodiversity sites	9.58	%	94.4	●	↓	9.58	%	2020
Domestic land use related biodiversity loss	3.39×10^{-12}	global PDF/capita	95.5	●	→	4.73×10^{-3}	global PDF	2018
Spillover land use related biodiversity loss	3.26×10^{-12}	global PDF/capita	83.5	●	↓	4.54×10^{-3}	global PDF	2018
Domestic freshwater biodiversity threats	0.17	spp./million	48.0	●	●	248.36	species	2018
Spillover freshwater biodiversity threats	0.08	spp./million	39.9	●	●	120.55	species	2018
Domestic deforestation	0.30	%	77.2	●	↓	4.69×10^{5}	hectares	2020
Spillover deforestation	1.23×10^{-3}	ha/capita	84.1	●	↓	1.71×10^{6}	hectares	2018
Red List Index of species survival	0.73	scale 0 to 1	20.8	●	↓	0.73	scale 0 to 1	2021
Biodiversity Habitat Index	0.44	scale 0 to 1	21.8	●	●	0.44	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	3.27×10^{-4}	WOE/million	96.6	●	●	4.57×10^{5}	WOE	2019
Spillover endangered terrestrial animals	1.25×10^{-3}	WOE/capita	85.4	●	●	1.75×10^{6}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	7.61×10^{-5}	WOE/capita	95.1	●	●	1.06×10^{5}	WOE	2019
Unprotected marine biodiversity sites	7.08	%	93.0	●	↓	7.08	%	2020
Domestic marine biodiversity threats	0.09	spp./million	63.5	●	●	126.83	species	2018
Spillover marine biodiversity threats	0.04	spp./million	41.5	●	●	61.53	species	2018
Fish caught from overexploited or collapsed stocks	25.52	%	59.3	●	↓	25.52	%	2018
Fish caught by trawling	51.10	%	16.4	●	↓	51.10	%	2018
Domestic vulnerable fisheries catch	10.79	tonnes/capita	37.2	●	→	15.03	Tg	2018
Spillover vulnerable fisheries catch	6.09	tonnes/capita	42.5	●	↓	8.48	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.69	scale 0 to 1.4	40.8	●	→	0.69	scale 0 to 1.4	2015
Domestic nitrogen surplus	21.32	kg/capita	40.0	●	↓	29,229.41	Gg	2015
Spillover nitrogen surplus	1.22	kg/capita	56.2	●	↓	1,672.14	Tg	2015
Domestic phosphorus fertilizer	7.85	kg/capita	37.3	●	→	10,929.89	kt	2018
Spillover phosphorus fertilizer	2.76	g/capita	37.9	●	↓	3,838.24	kt	2018
Water Cycle								
Domestic scarce water consumption	16.11	m^3 H_2O-eq./capita	31.0	●	↓	22,433.78	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	7.90	m^3 H_2O-eq./capita	88.4	●	↓	199.08	Mm^3 H_2O-eq.	2018
Domestic water stress	6.17	ML H_2O-eq./capita	12.9	●	↓	8,587.46	Bm^3 H_2O-eq.	2018
Spillover water stress	0.24	m^3 H_2O-eq./capita	94.8	●	↓	6.13	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Colombia

OECD Member

Land area	1,109,500 sq. km	**Population**	50.9 million
GDP (PPP, constant 2017 US$, billions)	$683.9	**GDP per capita**	$13,441
Human Development Index (HDI)	0.752	**HDI category**	High

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		52.0 /100	
ABSOLUTE		39.6 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
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80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Colombia

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	3.42	kg/capita	68.5	●	↗	169.69	Gg	2018
Spillover SO_2 emissions	2.54	kg/capita	65.2	●	→	120.52	Gg	2015
Domestic NO_X emissions	10.27	kg/capita	89.0	●	→	509.94	Gg	2018
Spillover NO_X emissions	2.60	kg/capita	62.5	●	→	123.69	Gg	2015
Domestic black carbon emissions	0.42	kg/capita	70.6	●	↑	20.98	Gg	2018
Spillover black carbon emissions	0.10	kg/capita	65.2	●	→	4.65	Gg	2015
GHG Emissions								
Domestic GHG emissions	4.95	t CO_2e/capita	64.8	●	→	249.29	Tg	2019
Spillover GHG emissions	1.15	t CO_2e/capita	70.9	●	↑	57.07	Tg	2018
CO_2 emissions embodied in fossil fuel exports	5.85	t CO_2e/capita	10.1	●	●	297.81	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	47.64	%	54.1	●	↓	47.64	%	2020
Unprotected freshwater biodiversity sites	50.67	%	52.0	●	↓	50.67	%	2020
Domestic land use related biodiversity loss	7.56×10^{-11}	global PDF/capita	1.0	●	↓	3.75×10^{-3}	global PDF	2018
Spillover land use related biodiversity loss	3.65×10^{-12}	global PDF/capita	81.2	●	↓	1.81×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	1.73	spp./million	16.5	●	●	86.09	species	2018
Spillover freshwater biodiversity threats	0.06	spp./million	46.8	●	●	2.77	species	2018
Domestic deforestation	0.37	%	71.9	●	↓	3.06×10^{5}	hectares	2020
Spillover deforestation	5.93×10^{-4}	ha/capita	93.4	●	↓	2.95×10^{4}	hectares	2018
Red List Index of species survival	0.74	scale 0 to 1	22.4	●	↓	0.74	scale 0 to 1	2021
Biodiversity Habitat Index	0.56	scale 0 to 1	38.9	●	●	0.56	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	2.59×10^{-5}	WOE/million	99.7	●	●	1.30×10^{3}	WOE	2019
Spillover endangered terrestrial animals	4.93×10^{-5}	WOE/capita	99.4	●	●	2.48×10^{3}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	1.99×10^{-7}	WOE/million	100.0	●	●	1.00×10	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	54.81	%	45.7	●	↓	54.81	%	2020
Domestic marine biodiversity threats	1.34	spp./million	25.9	●	●	66.65	species	2018
Spillover marine biodiversity threats	0.05	spp./million	39.5	●	●	2.50	species	2018
Fish caught from overexploited or collapsed stocks	51.12	%	18.4	●	→	51.12	%	2018
Fish caught by trawling	0.00	%	100.0	●	●	0.00	%	2018
Domestic vulnerable fisheries catch	0.76	tonnes/capita	72.0	●	↑	0.04	Tg	2018
Spillover vulnerable fisheries catch	4.82	tonnes/capita	46.4	●	→	0.24	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	1.06	scale 0 to 1.4	8.5	●	↓	1.06	scale 0 to 1.4	2015
Domestic nitrogen surplus	16.72	kg/capita	53.2	●	→	794.65	Gg	2015
Spillover nitrogen surplus	2.81	kg/capita	40.4	●	↓	133.38	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	2.26	g/capita	44.1	●	↓	112.00	kt	2018
Water Cycle								
Domestic scarce water consumption	2.01	m^3 H_2O-eq./capita	54.4	●	↓	99.95	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	21.61	m^3 H_2O-eq./capita	62.2	●	↓	1,816.99	Mm^3 H_2O-eq.	2018
Domestic water stress	0.04	ML H_2O-eq./capita	78.8	●	↓	1.86	Bm^3 H_2O-eq.	2018
Spillover water stress	0.17	m^3 H_2O-eq./capita	100.0	●	↓	14.31	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Congo, Dem. Rep.

Africa

Land area	2,267,050 sq. km	**Population**	89.6 million
GDP (PPP, constant 2017 US$, billions)	$96.0	**GDP per capita**	$1,072
Human Development Index (HDI)	0.479	**HDI category**	Low

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		90.7 /100	
ABSOLUTE		61.3 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Congo, Dem. Rep.

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	0.43	kg/capita	100.0	●	↓	36.01	Gg	2018
Spillover SO_2 emissions	1.15	kg/capita	87.2	●	↓	87.36	Gg	2015
Domestic NO_X emissions	1.18	kg/capita	100.0	●	↑	99.53	Gg	2018
Spillover NO_X emissions	0.39	kg/capita	100.0	●	↓	29.77	Gg	2015
Domestic black carbon emissions	0.73	kg/capita	42.8	●	↓	61.43	Gg	2018
Spillover black carbon emissions	0.03	kg/capita	96.7	●	↓	2.40	Gg	2015
GHG Emissions								
Domestic GHG emissions	1.58	t CO_2e/capita	100.0	●	↑	137.05	Tg	2019
Spillover GHG emissions	0.26	t CO_2e/capita	100.0	●	↓	21.95	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.00	t CO_2e/capita	82.0	●	●	0.00	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	52.66	%	49.0	●	↓	52.66	%	2020
Unprotected freshwater biodiversity sites	52.46	%	50.1	●	↓	52.46	%	2020
Domestic land use related biodiversity loss	3.77×10^{-12}	global PDF/capita	95.0	●	→	3.17×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	4.24×10^{-13}	global PDF/capita	100.0	●	↓	3.56×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	2.84	spp./million	9.7	●	●	238.57	species	2018
Spillover freshwater biodiversity threats	0.05	spp./million	47.4	●	●	4.54	species	2018
Domestic deforestation	0.65	%	51.2	●	↓	1.29×10^{6}	hectares	2020
Spillover deforestation	2.60×10^{-4}	ha/capita	98.3	●	↓	2.19×10^{4}	hectares	2018
Red List Index of species survival	0.88	scale 0 to 1	66.8	●	↓	0.88	scale 0 to 1	2021
Biodiversity Habitat Index	0.67	scale 0 to 1	55.3	●	●	0.67	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	1.30×10^{-4}	WOE/million	98.6	●	●	1.13×10^{4}	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	9.45×10^{-7}	WOE/million	100.0	●	●	8.20×10	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic marine biodiversity threats	0.31	spp./million	46.4	●	●	25.70	species	2018
Spillover marine biodiversity threats	0.01	spp./million	62.1	●	●	0.71	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	0.00	%	100.0	●	●	0.00	%	2018
Domestic vulnerable fisheries catch	0.77	tonnes/capita	71.9	●	↓	0.06	Tg	2018
Spillover vulnerable fisheries catch	2.97	tonnes/capita	54.5	●	↓	0.25	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.91	scale 0 to 1.4	21.9	●	↓	0.91	scale 0 to 1.4	2015
Domestic nitrogen surplus	0.76	kg/capita	99.2	●	↓	57.68	Gg	2015
Spillover nitrogen surplus	0.28	kg/capita	84.3	●	↓	21.16	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	0.20	g/capita	100.0	●	↓	16.49	kt	2018
Water Cycle								
Domestic scarce water consumption	2.75	m^3 H_2O-eq./capita	50.9	●	↓	231.55	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	17.58	m^3 H_2O-eq./capita	67.6	●	→	92.19	Mm^3 H_2O-eq.	2018
Domestic water stress	0.08	ML H_2O-eq./capita	69.7	●	↓	6.37	Bm^3 H_2O-eq.	2018
Spillover water stress	0.66	m^3 H_2O-eq./capita	69.2	●	↓	3.44	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Congo, Republic of

Africa

Land area	341,500 sq. km	**Population**	5.5 million
GDP (PPP, constant 2017 US$, billions)	$19.0	**GDP per capita**	$3,449
Human Development Index (HDI)	0.571	**HDI category**	Medium

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	50.9 /100	→
ABSOLUTE	●	68.7 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Congo, Republic of

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	0.33	kg/capita	100.0	●	↑	1.75	Gg	2018
Spillover SO_2 emissions	3.83	kg/capita	53.8	●	↓	18.62	Gg	2015
Domestic NO_X emissions	3.20	kg/capita	100.0	●	↑	16.79	Gg	2018
Spillover NO_X emissions	4.00	kg/capita	51.1	●	↓	19.41	Gg	2015
Domestic black carbon emissions	0.65	kg/capita	50.3	●	→	3.40	Gg	2018
Spillover black carbon emissions	0.20	kg/capita	45.8	●	↓	0.96	Gg	2015
GHG Emissions								
Domestic GHG emissions	5.99	t CO_2e/capita	57.4	●	↓	32.24	Tg	2019
Spillover GHG emissions	1.35	t CO_2e/capita	66.4	●	↑	7.07	Tg	2018
CO_2 emissions embodied in fossil fuel exports	6.22	t CO_2e/capita	9.8	●	●	34.33	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	60.86	%	40.7	●	↓	60.86	%	2020
Unprotected freshwater biodiversity sites	65.69	%	36.4	●	↓	65.69	%	2020
Domestic land use related biodiversity loss	2.94×10^{-11}	global PDF/capita	61.0	●	→	1.54×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	4.55×10^{-12}	global PDF/capita	75.8	●	→	2.38×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	4.89	spp./million	2.3	●	●	25.63	species	2018
Spillover freshwater biodiversity threats	0.04	spp./million	52.1	●	●	0.21	species	2018
Domestic deforestation	0.24	%	82.0	●	↓	6.38×10^{4}	hectares	2020
Spillover deforestation	1.01×10^{-1}	ha/capita	1.0	●	↓	5.32×10^{5}	hectares	2018
Red List Index of species survival	0.97	scale 0 to 1	93.0	●	↓	0.97	scale 0 to 1	2021
Biodiversity Habitat Index	0.67	scale 0 to 1	55.5	●	●	0.67	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	5.22×10^{-6}	WOE/million	99.9	●	●	2.81×10	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	65.37	%	35.3	●	↓	65.37	%	2020
Domestic marine biodiversity threats	0.77	spp./million	33.5	●	●	4.06	species	2018
Spillover marine biodiversity threats	0.03	spp./million	45.7	●	●	0.16	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	3.19	%	95.0	●	↗	3.19	%	2018
Domestic vulnerable fisheries catch	47.50	tonnes/capita	17.7	●	↓	0.25	Tg	2018
Spillover vulnerable fisheries catch	5.19	tonnes/capita	45.2	●	↓	0.03	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.90	scale 0 to 1.4	23.1	●	↓	0.90	scale 0 to 1.4	2015
Domestic nitrogen surplus	0.60	kg/capita	99.6	●	↑	2.93	Gg	2015
Spillover nitrogen surplus	0.77	kg/capita	64.8	●	↓	3.76	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	1.15	g/capita	65.0	●	↑	6.02	kt	2018
Water Cycle								
Domestic scarce water consumption	0.35	m^3 H_2O-eq./capita	73.9	●	↗	1.85	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	16.65	m^3 H_2O-eq./capita	69.0	●	↑	826.68	Mm^3 H_2O-eq.	2018
Domestic water stress	0.00	ML H_2O-eq./capita	100.0	●	↑	0.01	Bm^3 H_2O-eq.	2018
Spillover water stress	0.85	m^3 H_2O-eq./capita	62.5	●	↑	42.04	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Costa Rica

OECD Member

Land area	51,060 sq. km	**Population**	5.1 million
GDP (PPP, constant 2017 US$, billions)	$100.2	**GDP per capita**	$19,679
Human Development Index (HDI)	0.809	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		53.2 /100	↓
ABSOLUTE		73.9 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Costa Rica

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	2.47	kg/capita	76.0	●	↑	12.33	Gg	2018
Spillover SO_2 emissions	4.57	kg/capita	49.0	●	↓	22.15	Gg	2015
Domestic NO_X emissions	13.96	kg/capita	81.4	●	→	69.82	Gg	2018
Spillover NO_X emissions	4.96	kg/capita	45.4	●	↓	24.03	Gg	2015
Domestic black carbon emissions	0.74	kg/capita	41.8	●	→	3.71	Gg	2018
Spillover black carbon emissions	0.17	kg/capita	49.4	●	↓	0.84	Gg	2015
GHG Emissions								
Domestic GHG emissions	4.51	t CO_2e/capita	68.4	●	→	22.78	Tg	2019
Spillover GHG emissions	2.45	t CO_2e/capita	49.6	●	↓	12.25	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA	●	●	NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	41.13	%	60.7	●	↓	41.13	%	2020
Unprotected freshwater biodiversity sites	49.97	%	52.7	●	↓	49.97	%	2020
Domestic land use related biodiversity loss	4.64×10^{-11}	global PDF/capita	38.3	●	→	2.32×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	9.97×10^{-12}	global PDF/capita	43.3	●	↓	4.98×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	1.04	spp./million	23.6	●	●	5.18	species	2018
Spillover freshwater biodiversity threats	0.04	spp./million	54.4	●	●	0.18	species	2018
Domestic deforestation	0.27	%	79.9	●	↓	1.04×10^{4}	hectares	2020
Spillover deforestation	1.89×10^{-3}	ha/capita	74.4	●	↓	9.46×10^{3}	hectares	2018
Red List Index of species survival	0.81	scale 0 to 1	45.7	●	↓	0.81	scale 0 to 1	2021
Biodiversity Habitat Index	0.41	scale 0 to 1	18.4	●	●	0.41	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	4.56×10^{-6}	WOE/capita	99.9	●	●	2.30×10	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	48.66	%	51.8	●	↓	48.66	%	2020
Domestic marine biodiversity threats	2.48	spp./million	17.4	●	●	12.39	species	2018
Spillover marine biodiversity threats	0.25	spp./million	19.0	●	●	1.24	species	2018
Fish caught from overexploited or collapsed stocks	36.57	%	41.6	●	↓	36.57	%	2018
Fish caught by trawling	0.00	%	100.0	●	●	0.00	%	2018
Domestic vulnerable fisheries catch	20.55	tonnes/capita	28.7	●	→	0.10	Tg	2018
Spillover vulnerable fisheries catch	13.81	tonnes/capita	28.8	●	↓	0.07	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	1.09	scale 0 to 1.4	6.2	●	↓	1.09	scale 0 to 1.4	2015
Domestic nitrogen surplus	23.03	kg/capita	35.0	●	→	111.66	Gg	2015
Spillover nitrogen surplus	4.30	kg/capita	32.3	●	→	20.85	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	3.69	g/capita	28.8	●	→	18.45	kt	2018
Water Cycle								
Domestic scarce water consumption	21.86	m^3 H_2O-eq./capita	27.6	●	→	109.31	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	34.11	m^3 H_2O-eq./capita	50.4	●	↓	170.54	Mm^3 H_2O-eq.	2018
Domestic water stress	2.09	ML H_2O-eq./capita	26.9	●	→	10.43	Bm^3 H_2O-eq.	2018
Spillover water stress	1.93	m^3 H_2O-eq./capita	41.3	●	↓	9.63	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Côte d'Ivoire

Africa

Land area	318,000 sq. km	**Population**	26.4 million
GDP (PPP, constant 2017 US$, billions)	$136.5	**GDP per capita**	$5,174
Human Development Index (HDI)	0.550	**HDI category**	Medium

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		71.6 /100	
ABSOLUTE		60.5 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Côte d'Ivoire

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	0.94	kg/capita	98.2	●	↑	23.60	Gg	2018
Spillover SO_2 emissions	1.00	kg/capita	90.9	●	↓	23.28	Gg	2015
Domestic NO_X emissions	2.93	kg/capita	100.0	●	↓	73.48	Gg	2018
Spillover NO_X emissions	1.13	kg/capita	84.5	●	↓	26.35	Gg	2015
Domestic black carbon emissions	0.60	kg/capita	54.6	●	→	15.05	Gg	2018
Spillover black carbon emissions	0.05	kg/capita	81.6	●	↓	1.26	Gg	2015
GHG Emissions								
Domestic GHG emissions	2.12	t CO_2e/capita	97.7	●	↑	54.51	Tg	2019
Spillover GHG emissions	0.76	t CO_2e/capita	82.3	●	↓	19.16	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.21	t CO_2e/capita	25.4	●	●	5.28	Tg	2019
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	73.78	%	27.6	●	↓	73.78	%	2020
Unprotected freshwater biodiversity sites	80.95	%	20.7	●	↓	80.95	%	2020
Domestic land use related biodiversity loss	6.60×10^{-12}	global PDF/capita	91.2	●	→	1.65×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	1.47×10^{-12}	global PDF/capita	94.2	●	↓	3.69×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.55	spp./million	32.2	●	●	13.85	species	2018
Spillover freshwater biodiversity threats	0.00	spp./million	95.7	●	●	0.07	species	2018
Domestic deforestation	1.94	%	1.0	●	↓	2.71×10^{5}	hectares	2020
Spillover deforestation	5.65×10^{-4}	ha/capita	93.8	●	↗	1.42×10^{4}	hectares	2018
Red List Index of species survival	0.90	scale 0 to 1	73.1	●	↓	0.90	scale 0 to 1	2021
Biodiversity Habitat Index	0.41	scale 0 to 1	17.8	●	●	0.41	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	97.90	%	3.1	●	↓	97.90	%	2020
Domestic marine biodiversity threats	0.20	spp./million	52.0	●	●	5.09	species	2018
Spillover marine biodiversity threats	0.00	spp./million	83.9	●	●	0.04	species	2018
Fish caught from overexploited or collapsed stocks	52.06	%	16.9	●	↓	52.06	%	2018
Fish caught by trawling	12.61	%	79.6	●	↓	12.61	%	2018
Domestic vulnerable fisheries catch	18.19	tonnes/capita	30.3	●	→	0.46	Tg	2018
Spillover vulnerable fisheries catch	25.55	tonnes/capita	18.6	●	↓	0.64	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.92	scale 0 to 1.4	20.8	●	↓	0.92	scale 0 to 1.4	2015
Domestic nitrogen surplus	2.86	kg/capita	93.1	●	↓	66.44	Gg	2015
Spillover nitrogen surplus	0.15	kg/capita	95.9	●	↓	3.50	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	1.35	g/capita	59.9	●	↓	33.87	kt	2018
Water Cycle								
Domestic scarce water consumption	0.94	m^3 H_2O-eq./capita	63.0	●	↓	23.46	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	13.71	m^3 H_2O-eq./capita	74.1	●	↓	155.41	Mm^3 H_2O-eq.	2018
Domestic water stress	0.31	ML H_2O-eq./capita	51.6	●	↓	7.73	Bm^3 H_2O-eq.	2018
Spillover water stress	0.81	m^3 H_2O-eq./capita	63.8	●	↓	9.14	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Croatia

Eastern Europe and Central Asia

Land area	56,590 sq. km	**Population**	4.0 million
GDP (PPP, constant 2017 US$, billions)	$107.1	**GDP per capita**	$26,465
Human Development Index (HDI)	0.858	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		32.6 /100	↓
ABSOLUTE		63.2 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories
Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Croatia

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	7.74	kg/capita	49.7	●	↗	31.65	Gg	2018
Spillover SO_2 emissions	12.23	kg/capita	21.8	●	↓	51.42	Gg	2015
Domestic NO_X emissions	12.02	kg/capita	85.4	●	↓	49.15	Gg	2018
Spillover NO_X emissions	7.81	kg/capita	33.3	●	→	32.81	Gg	2015
Domestic black carbon emissions	0.73	kg/capita	43.0	●	↓	2.98	Gg	2018
Spillover black carbon emissions	0.21	kg/capita	44.2	●	→	0.88	Gg	2015
GHG Emissions								
Domestic GHG emissions	7.89	t CO_2e/capita	46.8	●	↓	32.06	Tg	2019
Spillover GHG emissions	5.14	t CO_2e/capita	28.8	●	↓	21.02	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.47	t CO_2e/capita	21.7	●	●	1.88	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	76.88	%	24.4	●	↓	76.88	%	2020
Unprotected freshwater biodiversity sites	84.93	%	16.6	●	↓	84.93	%	2020
Domestic land use related biodiversity loss	6.33×10^{-12}	global PDF/capita	91.6	●	↓	2.59×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	5.65×10^{-12}	global PDF/capita	69.2	●	↓	2.31×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	7.19	spp./million	1.0	●	●	29.89	species	2018
Spillover freshwater biodiversity threats	0.33	spp./million	16.9	●	●	1.37	species	2018
Domestic deforestation	0.26	%	80.8	●	↓	5.99×10^{3}	hectares	2020
Spillover deforestation	1.22×10^{-3}	ha/capita	84.2	●	↓	4.99×10^{3}	hectares	2018
Red List Index of species survival	0.90	scale 0 to 1	71.4	●	↓	0.90	scale 0 to 1	2021
Biodiversity Habitat Index	0.34	scale 0 to 1	7.4	●	●	0.34	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	3.94×10^{-6}	WOE/million	100.0	●	●	1.60×10	WOE	2019
Spillover endangered terrestrial animals	3.20×10^{-6}	WOE/capita	100.0	●	●	1.30×10	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	81.68	%	19.1	●	↓	81.68	%	2020
Domestic marine biodiversity threats	0.42	spp./million	42.0	●	●	1.75	species	2018
Spillover marine biodiversity threats	0.05	spp./million	40.1	●	●	0.20	species	2018
Fish caught from overexploited or collapsed stocks	62.00	%	1.0	●	→	62.00	%	2018
Fish caught by trawling	14.40	%	76.6	●	→	14.40	%	2018
Domestic vulnerable fisheries catch	26.46	tonnes/capita	25.4	●	→	0.11	Tg	2018
Spillover vulnerable fisheries catch	11.10	tonnes/capita	32.5	●	↓	0.05	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.49	scale 0 to 1.4	58.7	●	→	0.49	scale 0 to 1.4	2015
Domestic nitrogen surplus	15.05	kg/capita	58.0	●	↑	63.25	Gg	2015
Spillover nitrogen surplus	6.10	kg/capita	25.6	●	↓	25.64	Tg	2015
Domestic phosphorus fertilizer	8.72	kg/capita	34.5	●	↓	35.65	kt	2018
Spillover phosphorus fertilizer	2.49	g/capita	41.0	●	↓	10.17	kt	2018
Water Cycle								
Domestic scarce water consumption	233.29	m^3 H_2O-eq./capita	1.0	●	↓	953.64	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	114.62	m^3 H_2O-eq./capita	18.8	●	↓	136.31	Mm^3 H_2O-eq.	2018
Domestic water stress	0.36	ML H_2O-eq./capita	49.6	●	↓	1.47	Bm^3 H_2O-eq.	2018
Spillover water stress	4.23	m^3 H_2O-eq./capita	20.9	●	↓	5.03	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Cuba

Latin America and Caribbean

Land area	103,800 sq. km	**Population**	11.3 million
GDP (PPP, constant 2017 US$, billions)	$279.4	**GDP per capita**	$24,668
Human Development Index (HDI)	0.764	**HDI category**	High

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	55.0 /100	→
ABSOLUTE	●	64.1 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories
Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Cuba

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	28.46	kg/capita	19.8			322.74	Gg	2018
Spillover SO_2 emissions	1.62	kg/capita	77.7			18.31	Gg	2015
Domestic NO_X emissions	11.47	kg/capita	86.5			130.10	Gg	2018
Spillover NO_X emissions	2.34	kg/capita	65.3			26.48	Gg	2015
Domestic black carbon emissions	0.67	kg/capita	48.4			7.58	Gg	2018
Spillover black carbon emissions	0.07	kg/capita	75.5			0.77	Gg	2015
GHG Emissions								
Domestic GHG emissions	5.98	t CO_2e/capita	57.5			67.77	Tg	2019
Spillover GHG emissions	1.50	t CO_2e/capita	63.5			16.96	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA			NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	54.48	%	47.1			54.48	%	2020
Unprotected freshwater biodiversity sites	98.19	%	2.9			98.19	%	2020
Domestic land use related biodiversity loss	8.12×10^{-11}	global PDF/capita	1.0			9.20×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	3.69×10^{-12}	global PDF/capita	80.9			4.19×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	1.33	spp./million	20.1			15.11	species	2018
Spillover freshwater biodiversity threats	0.00	spp./million	88.6			0.05	species	2018
Domestic deforestation	0.26	%	80.2			1.12×10^{4}	hectares	2020
Spillover deforestation	6.46×10^{-4}	ha/capita	92.6			7.33×10^{3}	hectares	2018
Red List Index of species survival	0.66	scale 0 to 1	1.0			0.66	scale 0 to 1	2021
Biodiversity Habitat Index	0.38	scale 0 to 1	13.9			0.38	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	4.16×10^{-5}	WOE/million	99.6			4.71×10^{2}	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0			0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	4.41×10^{-7}	WOE/million	100.0			5.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0			0.00	WOE	2019
Unprotected marine biodiversity sites	70.06	%	30.6			70.06	%	2020
Domestic marine biodiversity threats	1.94	spp./million	20.8			21.95	species	2018
Spillover marine biodiversity threats	0.02	spp./million	53.2			0.19	species	2018
Fish caught from overexploited or collapsed stocks	5.91	%	90.6			5.91	%	2018
Fish caught by trawling	0.00	%	100.0			0.00	%	2018
Domestic vulnerable fisheries catch	2.54	tonnes/capita	56.2			0.03	Tg	2018
Spillover vulnerable fisheries catch	2.10	tonnes/capita	60.3			0.02	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	1.06	scale 0 to 1.4	9.2			1.06	scale 0 to 1.4	2015
Domestic nitrogen surplus	10.66	kg/capita	70.7			120.74	Gg	2015
Spillover nitrogen surplus	1.18	kg/capita	56.8			13.36	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA			NA	kt	NA
Spillover phosphorus fertilizer	4.17	g/capita	25.0			47.27	kt	2018
Water Cycle								
Domestic scarce water consumption	0.30	m^3 H_2O-eq./capita	75.9			3.37	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	40.15	m^3 H_2O-eq./capita	46.1			426.78	Mm^3 H_2O-eq.	2018
Domestic water stress	1.13	ML H_2O-eq./capita	34.8			12.83	Bm^3 H_2O-eq.	2018
Spillover water stress	1.50	m^3 H_2O-eq./capita	47.8			15.89	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Cyprus

Eastern Europe and Central Asia

Land area	9,240 sq. km	**Population**	1.2 million
GDP (PPP, constant 2017 US$, billions)	$33.7	**GDP per capita**	$27,885
Human Development Index (HDI)	0.896	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		28.7 /100	↓
ABSOLUTE		82.9 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Cyprus

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	18.48	kg/capita	29.7	●	↓	21.98	Gg	2018
Spillover SO_2 emissions	12.24	kg/capita	21.8	●	→	14.21	Gg	2015
Domestic NO_X emissions	15.54	kg/capita	78.2	●	↓	18.48	Gg	2018
Spillover NO_X emissions	25.01	kg/capita	2.4	●	↓	29.04	Gg	2015
Domestic black carbon emissions	0.20	kg/capita	91.1	●	↓	0.23	Gg	2018
Spillover black carbon emissions	0.53	kg/capita	18.4	●	↓	0.62	Gg	2015
GHG Emissions								
Domestic GHG emissions	7.77	t CO_2e/capita	47.4	●	↓	9.31	Tg	2019
Spillover GHG emissions	7.65	t CO_2e/capita	17.7	●	↓	9.10	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA	●	●	NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	72.31	%	29.1	●	↓	72.31	%	2020
Unprotected freshwater biodiversity sites	36.57	%	66.5	●	↓	36.57	%	2020
Domestic land use related biodiversity loss	1.03×10^{-11}	global PDF/capita	86.4	●	↓	1.22×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	9.21×10^{-12}	global PDF/capita	47.8	●	↓	1.10×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.72	spp./million	28.6	●	●	0.85	species	2018
Spillover freshwater biodiversity threats	0.11	spp./million	35.3	●	●	0.13	species	2018
Domestic deforestation	0.02	%	98.4	●	↓	1.98×10	hectares	2020
Spillover deforestation	2.21×10^{-3}	ha/capita	69.7	●	↓	2.63×10^{3}	hectares	2018
Red List Index of species survival	0.99	scale 0 to 1	100.0	●	↓	0.99	scale 0 to 1	2021
Biodiversity Habitat Index	0.36	scale 0 to 1	10.2	●	●	0.36	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	4.35×10^{-4}	WOE/capita	94.9	●	●	5.21×10^{2}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	1.27×10^{-3}	WOE/capita	18.5	●	●	1.53×10^{3}	WOE	2019
Unprotected marine biodiversity sites	49.64	%	50.9	●	↓	49.64	%	2020
Domestic marine biodiversity threats	0.76	spp./million	33.6	●	●	0.91	species	2018
Spillover marine biodiversity threats	0.29	spp./million	16.8	●	●	0.35	species	2018
Fish caught from overexploited or collapsed stocks	54.34	%	13.2	●	→	54.34	%	2018
Fish caught by trawling	18.31	%	70.2	●	↓	18.31	%	2018
Domestic vulnerable fisheries catch	36.63	tonnes/capita	21.1	●	↓	0.04	Tg	2018
Spillover vulnerable fisheries catch	17.74	tonnes/capita	24.6	●	↓	0.02	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	1.07	scale 0 to 1.4	7.8	●	→	1.07	scale 0 to 1.4	2015
Domestic nitrogen surplus	8.10	kg/capita	78.0	●	→	9.40	Gg	2015
Spillover nitrogen surplus	8.58	kg/capita	19.2	●	→	9.96	Tg	2015
Domestic phosphorus fertilizer	4.37	kg/capita	53.0	●	↓	5.19	kt	2018
Spillover phosphorus fertilizer	4.47	g/capita	22.8	●	↓	5.32	kt	2018
Water Cycle								
Domestic scarce water consumption	73.09	m^3 H_2O-eq./capita	14.0	●	→	86.92	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	85.88	m^3 H_2O-eq./capita	26.3	●	↓	7,119.97	Mm^3 H_2O-eq.	2018
Domestic water stress	6.64	ML H_2O-eq./capita	12.0	●	→	7.89	Bm^3 H_2O-eq.	2018
Spillover water stress	3.39	m^3 H_2O-eq./capita	26.6	●	↓	281.31	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Czechia

OECD Member

Land area	77,200 sq. km	**Population**	10.7 million
GDP (PPP, constant 2017 US$, billions)	$412.0	**GDP per capita**	$38,509
Human Development Index (HDI)	0.889	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		28.7 /100	↓
ABSOLUTE		50.6 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories
Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Czechia

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	16.68	kg/capita	32.1	●	→	177.26	Gg	2018
Spillover SO_2 emissions	8.99	kg/capita	30.3	●	→	94.78	Gg	2015
Domestic NO_X emissions	20.79	kg/capita	67.5	●	→	221.00	Gg	2018
Spillover NO_X emissions	10.46	kg/capita	25.6	●	→	110.32	Gg	2015
Domestic black carbon emissions	0.57	kg/capita	57.0	●	→	6.09	Gg	2018
Spillover black carbon emissions	0.30	kg/capita	34.0	●	→	3.19	Gg	2015
GHG Emissions								
Domestic GHG emissions	13.62	t CO_2e/capita	25.6	●	→	145.38	Tg	2019
Spillover GHG emissions	5.67	t CO_2e/capita	26.1	●	↓	60.32	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.46	t CO_2e/capita	21.8	●	●	4.87	Tg	2021
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	94.71	%	6.4	●	↓	94.71	%	2020
Unprotected freshwater biodiversity sites	92.11	%	9.1	●	↓	92.11	%	2020
Domestic land use related biodiversity loss	1.51×10^{-12}	global PDF/capita	98.0	●	→	1.61×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	5.55×10^{-12}	global PDF/capita	69.8	●	↓	5.90×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.04	spp./million	68.9	●	●	0.39	species	2018
Spillover freshwater biodiversity threats	0.18	spp./million	27.2	●	●	1.91	species	2018
Domestic deforestation	2.19	%	1.0	●	↓	7.07×10^{4}	hectares	2020
Spillover deforestation	2.35×10^{-3}	ha/capita	67.6	●	↓	2.50×10^{4}	hectares	2018
Red List Index of species survival	0.97	scale 0 to 1	94.5	●	↗	0.97	scale 0 to 1	2021
Biodiversity Habitat Index	0.39	scale 0 to 1	14.6	●	●	0.39	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	1.97×10^{-3}	WOE/capita	77.0	●	●	2.10×10^{4}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	NA	WOE/million	NA	●	●	NA	WOE	NA
Spillover endangered marine animals	1.56×10^{-4}	WOE/capita	90.0	●	●	1.67×10^{3}	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic marine biodiversity threats	NA	spp./million	NA	●	●	NA	species	NA
Spillover marine biodiversity threats	0.05	spp./million	38.6	●	●	0.57	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	NA	%	NA	●	●	NA	%	NA
Domestic vulnerable fisheries catch	NA	tonnes/capita	NA	●	●	NA	Tg	NA
Spillover vulnerable fisheries catch	15.42	tonnes/capita	27.0	●	↓	0.16	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.49	scale 0 to 1.4	58.2	●	↓	0.49	scale 0 to 1.4	2015
Domestic nitrogen surplus	26.08	kg/capita	26.2	●	↓	275.04	Gg	2015
Spillover nitrogen surplus	8.24	kg/capita	19.9	●	↓	86.88	Tg	2015
Domestic phosphorus fertilizer	4.84	kg/capita	50.3	●	↓	51.44	kt	2018
Spillover phosphorus fertilizer	3.09	g/capita	34.4	●	↓	32.79	kt	2018
Water Cycle								
Domestic scarce water consumption	1.42	m^3 H_2O-eq./capita	58.3	●	↓	15.11	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	98.64	m^3 H_2O-eq./capita	22.7	●	↓	571.50	Mm^3 H_2O-eq.	2018
Domestic water stress	0.04	ML H_2O-eq./capita	76.9	●	↓	0.46	Bm^3 H_2O-eq.	2018
Spillover water stress	3.22	m^3 H_2O-eq./capita	28.0	●	↓	18.67	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Denmark

OECD Member

Land area	40,000 sq. km	**Population**	5.8 million
GDP (PPP, constant 2017 US$, billions)	$325.5	**GDP per capita**	$55,820
Human Development Index (HDI)	0.948	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		16.2 /100	
ABSOLUTE		51.7 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Denmark

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	3.57	kg/capita	67.5	●	↓	20.69	Gg	2018
Spillover SO_2 emissions	21.32	kg/capita	6.5	●	→	121.18	Gg	2015
Domestic NO_X emissions	17.92	kg/capita	73.3	●	→	103.82	Gg	2018
Spillover NO_X emissions	27.60	kg/capita	1.0	●	→	156.84	Gg	2015
Domestic black carbon emissions	0.38	kg/capita	74.1	●	↓	2.23	Gg	2018
Spillover black carbon emissions	0.94	kg/capita	2.6	●	→	5.34	Gg	2015
GHG Emissions								
Domestic GHG emissions	10.61	t CO_2e/capita	35.3	●	→	61.67	Tg	2019
Spillover GHG emissions	11.04	t CO_2e/capita	7.4	●	↓	63.94	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.78	t CO_2e/capita	19.3	●	●	4.57	Tg	2021
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	88.82	%	12.3	●	↓	88.82	%	2020
Unprotected freshwater biodiversity sites	99.48	%	1.5	●	↓	99.48	%	2020
Domestic land use related biodiversity loss	1.96×10^{-12}	global PDF/capita	97.4	●	→	1.14×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	1.02×10^{-11}	global PDF/capita	42.2	●	↓	5.88×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.01	spp./million	89.2	●	●	0.04	species	2018
Spillover freshwater biodiversity threats	0.11	spp./million	35.1	●	●	0.65	species	2018
Domestic deforestation	0.66	%	50.5	●	↓	4.75×10^{3}	hectares	2020
Spillover deforestation	6.89×10^{-3}	ha/capita	1.0	●	↓	3.99×10^{4}	hectares	2018
Red List Index of species survival	0.97	scale 0 to 1	95.5	●	↓	0.97	scale 0 to 1	2021
Biodiversity Habitat Index	0.34	scale 0 to 1	8.7	●	●	0.34	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	8.48×10^{-5}	WOE/capita	99.0	●	●	4.93×10^{2}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	2.75×10^{-6}	WOE/million	99.9	●	●	1.60×10	WOE	2019
Spillover endangered marine animals	3.14×10^{-2}	WOE/capita	1.0	●	●	1.82×10^{5}	WOE	2019
Unprotected marine biodiversity sites	86.99	%	13.9	●	↓	86.99	%	2020
Domestic marine biodiversity threats	0.07	spp./million	67.3	●	●	0.39	species	2018
Spillover marine biodiversity threats	0.08	spp./million	34.0	●	●	0.44	species	2018
Fish caught from overexploited or collapsed stocks	35.73	%	43.0	●	↓	35.73	%	2018
Fish caught by trawling	20.49	%	66.6	●	↓	20.49	%	2018
Domestic vulnerable fisheries catch	328.63	tonnes/capita	1.0	●	↓	1.90	Tg	2018
Spillover vulnerable fisheries catch	78.93	tonnes/capita	1.0	●	→	0.46	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.37	scale 0 to 1.4	68.4	●	→	0.37	scale 0 to 1.4	2015
Domestic nitrogen surplus	22.67	kg/capita	36.1	●	↓	128.86	Gg	2015
Spillover nitrogen surplus	15.49	kg/capita	8.0	●	↓	88.06	Tg	2015
Domestic phosphorus fertilizer	5.86	kg/capita	45.1	●	↓	33.96	kt	2018
Spillover phosphorus fertilizer	5.45	g/capita	16.7	●	→	31.58	kt	2018
Water Cycle								
Domestic scarce water consumption	0.58	m^3 H_2O-eq./capita	68.3	●	↗	3.38	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	19.13	m^3 H_2O-eq./capita	65.4	●	↓	203.27	Mm^3 H_2O-eq.	2018
Domestic water stress	0.18	ML H_2O-eq./capita	58.3	●	↓	1.06	Bm^3 H_2O-eq.	2018
Spillover water stress	0.94	m^3 H_2O-eq./capita	59.8	●	↓	10.01	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Dominican Republic

Latin America and Caribbean

Land area	48,310 sq. km	**Population**	10.8 million
GDP (PPP, constant 2017 US$, billions)	$184.4	**GDP per capita**	$17,003
Human Development Index (HDI)	0.767	**HDI category**	High

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	55.0 /100	→
ABSOLUTE	●	64.5 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Dominican Republic

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	16.13	kg/capita	32.8	●	→	171.41	Gg	2018
Spillover SO_2 emissions	2.68	kg/capita	63.7	●	↑	27.58	Gg	2015
Domestic NO_X emissions	18.36	kg/capita	72.4	●	↓	195.15	Gg	2018
Spillover NO_X emissions	3.22	kg/capita	56.9	●	→	33.06	Gg	2015
Domestic black carbon emissions	0.46	kg/capita	67.2	●	↓	4.89	Gg	2018
Spillover black carbon emissions	0.16	kg/capita	51.4	●	↑	1.66	Gg	2015
GHG Emissions								
Domestic GHG emissions	4.89	t CO_2e/capita	65.3	●	↓	52.54	Tg	2019
Spillover GHG emissions	1.96	t CO_2e/capita	55.9	●	↓	20.82	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA	●	●	NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	76.92	%	24.4	●	↓	76.92	%	2020
Unprotected freshwater biodiversity sites	95.45	%	5.7	●	↓	95.45	%	2020
Domestic land use related biodiversity loss	5.47×10^{-11}	global PDF/capita	27.2	●	↓	5.82×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	6.00×10^{-12}	global PDF/capita	67.1	●	↓	6.38×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.23	spp./million	44.1	●	●	2.46	species	2018
Spillover freshwater biodiversity threats	0.01	spp./million	75.1	●	●	0.11	species	2018
Domestic deforestation	0.68	%	49.1	●	↓	1.66×10^{4}	hectares	2020
Spillover deforestation	1.59×10^{-3}	ha/capita	78.8	●	↓	1.69×10^{4}	hectares	2018
Red List Index of species survival	0.73	scale 0 to 1	20.4	●	↓	0.73	scale 0 to 1	2021
Biodiversity Habitat Index	0.38	scale 0 to 1	14.4	●	●	0.38	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	5.87×10^{-6}	WOE/capita	99.9	●	●	6.30×10	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	81.39	%	19.4	●	↓	81.39	%	2020
Domestic marine biodiversity threats	0.57	spp./million	37.6	●	●	6.11	species	2018
Spillover marine biodiversity threats	0.08	spp./million	33.4	●	●	0.86	species	2018
Fish caught from overexploited or collapsed stocks	2.55	%	96.0	●	↗	2.55	%	2018
Fish caught by trawling	0.00	%	100.0	●	●	0.00	%	2018
Domestic vulnerable fisheries catch	5.95	tonnes/capita	45.0	●	→	0.06	Tg	2018
Spillover vulnerable fisheries catch	6.19	tonnes/capita	42.2	●	↓	0.07	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	1.05	scale 0 to 1.4	10.0	●	→	1.05	scale 0 to 1.4	2015
Domestic nitrogen surplus	8.84	kg/capita	75.9	●	↓	90.87	Gg	2015
Spillover nitrogen surplus	1.33	kg/capita	54.6	●	→	13.65	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	3.97	g/capita	26.6	●	↓	42.17	kt	2018
Water Cycle								
Domestic scarce water consumption	71.50	m^3 H_2O-eq./capita	14.3	●	↓	759.80	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	18.04	m^3 H_2O-eq./capita	66.9	●	↓	761.82	Mm^3 H_2O-eq.	2018
Domestic water stress	3.02	ML H_2O-eq./capita	22.1	●	↓	32.12	Bm^3 H_2O-eq.	2018
Spillover water stress	1.42	m^3 H_2O-eq./capita	49.2	●	↓	59.77	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Ecuador

Latin America and Caribbean

Land area	248,360 sq. km	**Population**	17.6 million
GDP (PPP, constant 2017 US$, billions)	$182.2	**GDP per capita**	$10,329
Human Development Index (HDI)	0.740	**HDI category**	High

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		49.5 /100	
ABSOLUTE		51.5 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories
Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Ecuador

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	8.39	kg/capita	47.9			143.35	Gg	2018
Spillover SO_2 emissions	2.56	kg/capita	65.0			41.49	Gg	2015
Domestic NO_X emissions	16.04	kg/capita	77.2			273.98	Gg	2018
Spillover NO_X emissions	2.61	kg/capita	62.4			42.28	Gg	2015
Domestic black carbon emissions	0.37	kg/capita	75.6			6.28	Gg	2018
Spillover black carbon emissions	0.10	kg/capita	64.5			1.63	Gg	2015
GHG Emissions								
Domestic GHG emissions	4.53	t CO_2e/capita	68.3			78.65	Tg	2019
Spillover GHG emissions	2.02	t CO_2e/capita	55.1			34.45	Tg	2018
CO_2 emissions embodied in fossil fuel exports	3.30	t CO_2e/capita	12.7			58.17	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	29.73	%	72.2			29.73	%	2020
Unprotected freshwater biodiversity sites	59.45	%	42.9			59.45	%	2020
Domestic land use related biodiversity loss	3.75×10^{-11}	global PDF/capita	50.1			6.41×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	2.60×10^{-12}	global PDF/capita	87.5			4.43×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	2.13	spp./million	13.7			36.35	species	2018
Spillover freshwater biodiversity threats	0.02	spp./million	61.1			0.41	species	2018
Domestic deforestation	0.21	%	84.3			4.03×10^{4}	hectares	2020
Spillover deforestation	5.21×10^{-4}	ha/capita	94.5			8.90×10^{3}	hectares	2018
Red List Index of species survival	0.67	scale 0 to 1	3.0			0.67	scale 0 to 1	2021
Biodiversity Habitat Index	0.50	scale 0 to 1	30.1			0.50	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	5.76×10^{-6}	WOE/million	99.9			1.00×10^{2}	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0			0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	7.60×10^{-6}	WOE/million	99.7			1.32×10^{2}	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0			0.00	WOE	2019
Unprotected marine biodiversity sites	70.31	%	30.4			70.31	%	2020
Domestic marine biodiversity threats	1.62	spp./million	23.3			27.62	species	2018
Spillover marine biodiversity threats	0.03	spp./million	48.1			0.44	species	2018
Fish caught from overexploited or collapsed stocks	29.00	%	53.7			29.00	%	2018
Fish caught by trawling	0.00	%	100.0			0.00	%	2018
Domestic vulnerable fisheries catch	20.54	tonnes/capita	28.7			0.35	Tg	2018
Spillover vulnerable fisheries catch	5.52	tonnes/capita	44.1			0.09	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	1.00	scale 0 to 1.4	14.2			1.00	scale 0 to 1.4	2015
Domestic nitrogen surplus	13.04	kg/capita	63.8			211.48	Gg	2015
Spillover nitrogen surplus	1.62	kg/capita	50.8			26.26	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA			NA	kt	NA
Spillover phosphorus fertilizer	1.19	g/capita	64.0			20.26	kt	2018
Water Cycle								
Domestic scarce water consumption	20.87	m^3 H_2O-eq./capita	28.1			356.47	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	6.73	m^3 H_2O-eq./capita	92.6			114.95	Mm^3 H_2O-eq.	2018
Domestic water stress	0.11	ML H_2O-eq./capita	65.0			1.86	Bm^3 H_2O-eq.	2018
Spillover water stress	0.34	m^3 H_2O-eq./capita	85.9			5.86	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Egypt

Middle East and North Africa

Land area	995,450 sq. km	**Population**	102.3 million
GDP (PPP, constant 2017 US$, billions)	$1,223.0	**GDP per capita**	$11,951
Human Development Index (HDI)	0.731	**HDI category**	High

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		62.8 /100	→
ABSOLUTE		38.6 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories
Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Egypt

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	7.18	kg/capita	51.5			706.26	Gg	2018
Spillover SO_2 emissions	1.78	kg/capita	74.9			164.94	Gg	2015
Domestic NO_X emissions	8.89	kg/capita	91.8			875.03	Gg	2018
Spillover NO_X emissions	1.95	kg/capita	70.1			180.54	Gg	2015
Domestic black carbon emissions	0.20	kg/capita	90.4			20.01	Gg	2018
Spillover black carbon emissions	0.08	kg/capita	72.3			7.00	Gg	2015
GHG Emissions								
Domestic GHG emissions	3.98	t CO_2e/capita	73.3			399.70	Tg	2019
Spillover GHG emissions	1.08	t CO_2e/capita	72.6			106.29	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.21	t CO_2e/capita	25.4			21.13	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	38.37	%	63.5			38.37	%	2020
Unprotected freshwater biodiversity sites	28.49	%	74.9			28.49	%	2020
Domestic land use related biodiversity loss	2.88×10^{-14}	global PDF/capita	100.0			2.84×10^{-6}	global PDF	2018
Spillover land use related biodiversity loss	3.24×10^{-12}	global PDF/capita	83.6			3.19×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	0.06	spp./million	61.6			6.24	species	2018
Spillover freshwater biodiversity threats	0.02	spp./million	67.0			1.65	species	2018
Domestic deforestation	0.01	%	99.5			1.04×10	hectares	2020
Spillover deforestation	1.55×10^{-3}	ha/capita	79.4			1.52×10^{5}	hectares	2018
Red List Index of species survival	0.91	scale 0 to 1	76.0			0.91	scale 0 to 1	2021
Biodiversity Habitat Index	0.63	scale 0 to 1	49.9			0.63	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	9.98×10^{-6}	WOE/million	99.9			1.00×10^{3}	WOE	2019
Spillover endangered terrestrial animals	2.11×10^{-6}	WOE/capita	100.0			2.11×10^{2}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	8.97×10^{-6}	WOE/million	99.7			9.00×10^{2}	WOE	2019
Spillover endangered marine animals	1.95×10^{-6}	WOE/capita	99.9			1.95×10^{2}	WOE	2019
Unprotected marine biodiversity sites	43.01	%	57.4			43.01	%	2020
Domestic marine biodiversity threats	0.25	spp./million	49.3			24.37	species	2018
Spillover marine biodiversity threats	0.01	spp./million	59.6			1.02	species	2018
Fish caught from overexploited or collapsed stocks	36.75	%	41.3			36.75	%	2018
Fish caught by trawling	41.53	%	32.1			41.53	%	2018
Domestic vulnerable fisheries catch	2.28	tonnes/capita	57.6			0.22	Tg	2018
Spillover vulnerable fisheries catch	1.86	tonnes/capita	62.3			0.18	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.64	scale 0 to 1.4	45.5			0.64	scale 0 to 1.4	2015
Domestic nitrogen surplus	10.24	kg/capita	71.9			946.88	Gg	2015
Spillover nitrogen surplus	0.52	kg/capita	72.5			47.76	Tg	2015
Domestic phosphorus fertilizer	2.26	kg/capita	70.6			222.80	kt	2018
Spillover phosphorus fertilizer	2.24	g/capita	44.3			220.23	kt	2018
Water Cycle								
Domestic scarce water consumption	6.32	m^3 H_2O-eq./capita	41.5			621.87	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	26.27	m^3 H_2O-eq./capita	57.2			2,585.48	Mm^3 H_2O-eq.	2018
Domestic water stress	42.99	ML H_2O-eq./capita	1.0			4,231.14	Bm^3 H_2O-eq.	2018
Spillover water stress	0.65	m^3 H_2O-eq./capita	69.3			64.10	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

El Salvador

Latin America and Caribbean

Land area	20,720 sq. km	**Population**	6.5 million
GDP (PPP, constant 2017 US$, billions)	$52.3	**GDP per capita**	$8,057
Human Development Index (HDI)	0.675	**HDI category**	Medium

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		50.7 /100	
ABSOLUTE		70.8 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

El Salvador

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	5.07	kg/capita	59.5	●	↑	32.53	Gg	2018
Spillover SO_2 emissions	13.15	kg/capita	19.8	●	↓	83.19	Gg	2015
Domestic NO_X emissions	8.77	kg/capita	92.1	●	↑	56.32	Gg	2018
Spillover NO_X emissions	15.92	kg/capita	14.4	●	↓	100.69	Gg	2015
Domestic black carbon emissions	0.23	kg/capita	87.7	●	↗	1.50	Gg	2018
Spillover black carbon emissions	0.11	kg/capita	60.8	●	↗	0.73	Gg	2015
GHG Emissions								
Domestic GHG emissions	2.68	t CO_2e/capita	88.6	●	↓	17.30	Tg	2019
Spillover GHG emissions	4.15	t CO_2e/capita	34.9	●	↓	26.62	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.00	t CO_2e/capita	77.0	●	●	0.00	Tg	2019
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	28.05	%	73.9	●	↓	28.05	%	2020
Unprotected freshwater biodiversity sites	97.73	%	3.3	●	↓	97.73	%	2020
Domestic land use related biodiversity loss	2.04×10^{-11}	global PDF/capita	72.9	●	→	1.31×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	1.84×10^{-11}	global PDF/capita	1.0	●	→	1.18×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	0.20	spp./million	46.2	●	●	1.28	species	2018
Spillover freshwater biodiversity threats	0.04	spp./million	54.0	●	●	0.23	species	2018
Domestic deforestation	0.26	%	80.7	●	↓	2.37×10^{3}	hectares	2020
Spillover deforestation	4.25×10^{-3}	ha/capita	39.7	●	↓	2.73×10^{4}	hectares	2018
Red List Index of species survival	0.80	scale 0 to 1	43.4	●	↓	0.80	scale 0 to 1	2021
Biodiversity Habitat Index	0.37	scale 0 to 1	12.0	●	●	0.37	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	2.34×10^{-4}	WOE/capita	97.3	●	●	1.51×10^{3}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	46.56	%	53.9	●	↓	46.56	%	2020
Domestic marine biodiversity threats	0.37	spp./million	43.7	●	●	2.37	species	2018
Spillover marine biodiversity threats	0.19	spp./million	22.4	●	●	1.22	species	2018
Fish caught from overexploited or collapsed stocks	38.50	%	38.5	●	↑	38.50	%	2018
Fish caught by trawling	28.56	%	53.4	●	↓	28.56	%	2018
Domestic vulnerable fisheries catch	7.46	tonnes/capita	42.0	●	→	0.05	Tg	2018
Spillover vulnerable fisheries catch	15.59	tonnes/capita	26.8	●	↓	0.10	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	1.01	scale 0 to 1.4	13.1	●	↓	1.01	scale 0 to 1.4	2015
Domestic nitrogen surplus	10.63	kg/capita	70.8	●	→	67.21	Gg	2015
Spillover nitrogen surplus	3.34	kg/capita	37.1	●	→	21.13	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	2.57	g/capita	40.0	●	→	16.52	kt	2018
Water Cycle								
Domestic scarce water consumption	3.39	m^3 H_2O-eq./capita	48.5	●	↗	21.79	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	5.55	m^3 H_2O-eq./capita	97.6	●	→	19.17	Mm^3 H_2O-eq.	2018
Domestic water stress	0.01	ML H_2O-eq./capita	91.4	●	↗	0.09	Bm^3 H_2O-eq.	2018
Spillover water stress	0.20	m^3 H_2O-eq./capita	100.0	●	→	0.68	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Eritrea

Africa

Land area	101,000 sq. km	**Population**	3.5 million
GDP (PPP, constant 2017 US$, billions)	$10.7	**GDP per capita**	$3,004
Human Development Index (HDI)	0.492	**HDI category**	Low

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		89.2 /100	→
ABSOLUTE		89.6 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Eritrea

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	2.24	kg/capita	78.3	🟠	↓	7.72	Gg	2018
Spillover SO_2 emissions	0.24	kg/capita	100.0	🟢	↓	0.81	Gg	2015
Domestic NO_X emissions	3.76	kg/capita	100.0	🟢	↓	12.99	Gg	2018
Spillover NO_X emissions	0.25	kg/capita	100.0	🟢	↓	0.83	Gg	2015
Domestic black carbon emissions	0.49	kg/capita	64.9	🔴	↓	1.68	Gg	2018
Spillover black carbon emissions	0.01	kg/capita	100.0	🟢	↓	0.03	Gg	2015
GHG Emissions								
Domestic GHG emissions	2.61	t CO_2e/capita	89.6	🟡	↓	9.14	Tg	2019
Spillover GHG emissions	0.12	t CO_2e/capita	100.0	🟢	↑	0.42	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA	⚪	⚪	NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	13.34	%	88.8	🟡	↓	13.34	%	2020
Unprotected freshwater biodiversity sites	0.03	%	100.0	🟢	↓	0.03	%	2020
Domestic land use related biodiversity loss	3.19×10^{-12}	global PDF/capita	95.8	🟢	→	1.10×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	2.70×10^{-13}	global PDF/capita	100.0	🟢	↓	9.31×10^{-7}	global PDF	2018
Domestic freshwater biodiversity threats	0.02	spp./million	74.4	🟠	⚪	0.08	species	2018
Spillover freshwater biodiversity threats	0.00	spp./million	100.0	🟢	⚪	0.01	species	2018
Domestic deforestation	NA	%	NA	⚪	⚪	NA	hectares	NA
Spillover deforestation	3.75×10^{-5}	ha/capita	100.0	🟢	↑	1.29×10^{2}	hectares	2018
Red List Index of species survival	0.89	scale 0 to 1	69.8	🔴	↓	0.89	scale 0 to 1	2021
Biodiversity Habitat Index	0.35	scale 0 to 1	8.9	🟣	⚪	0.35	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	🟢	⚪	0.00	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0	🟢	⚪	0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	🟢	⚪	0.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0	🟢	⚪	0.00	WOE	2019
Unprotected marine biodiversity sites	0.00	%	100.0	🟢	⚪	0.00	%	2020
Domestic marine biodiversity threats	2.85	spp./million	15.4	🟣	⚪	9.84	species	2018
Spillover marine biodiversity threats	0.00	spp./million	100.0	🟢	⚪	0.00	species	2018
Fish caught from overexploited or collapsed stocks	12.57	%	80.0	🟠	↓	12.57	%	2018
Fish caught by trawling	0.00	%	100.0	🟢	⚪	0.00	%	2018
Domestic vulnerable fisheries catch	2.73	tonnes/capita	55.2	🔴	↗	0.01	Tg	2018
Spillover vulnerable fisheries catch	0.19	tonnes/capita	100.0	🟢	↓	0.00	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	1.03	scale 0 to 1.4	11.2	🟣	↓	1.03	scale 0 to 1.4	2015
Domestic nitrogen surplus	1.86	kg/capita	96.0	🟢	↗	6.94	Gg	2011
Spillover nitrogen surplus	0.14	kg/capita	97.1	🟢	↑	0.42	Tg	2011
Domestic phosphorus fertilizer	NA	kg/capita	NA	⚪	⚪	NA	kt	NA
Spillover phosphorus fertilizer	0.36	g/capita	100.0	🟢	↓	1.23	kt	2018
Water Cycle								
Domestic scarce water consumption	14.26	m^3 H_2O-eq./capita	32.4	🔴	→	49.25	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	50.07	m^3 H_2O-eq./capita	40.4	🔴	↓	2,343.15	Mm^3 H_2O-eq.	2018
Domestic water stress	0.80	ML H_2O-eq./capita	39.3	🔴	→	2.75	Bm^3 H_2O-eq.	2018
Spillover water stress	2.03	m^3 H_2O-eq./capita	39.9	🔴	↑	95.02	Mm^3 H_2O-eq.	2018

⚪ Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Estonia

OECD Member

Land area	43,470 sq. km	**Population**	1.3 million
GDP (PPP, constant 2017 US$, billions)	$46.9	**GDP per capita**	$35,215
Human Development Index (HDI)	0.890	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		18.7 /100	→
ABSOLUTE		75.9 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Estonia

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	101.77	kg/capita	1.0	●	→	134.54	Gg	2018
Spillover SO_2 emissions	9.98	kg/capita	27.5	●	→	13.12	Gg	2015
Domestic NO_X emissions	57.39	kg/capita	1.0	●	→	75.87	Gg	2018
Spillover NO_X emissions	12.67	kg/capita	20.5	●	→	16.67	Gg	2015
Domestic black carbon emissions	0.87	kg/capita	29.9	●	↓	1.15	Gg	2018
Spillover black carbon emissions	0.40	kg/capita	26.2	●	↓	0.53	Gg	2015
GHG Emissions								
Domestic GHG emissions	18.77	t CO_2e/capita	13.1	●	→	24.91	Tg	2019
Spillover GHG emissions	8.13	t CO_2e/capita	16.0	●	↓	10.74	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.01	t CO_2e/capita	40.7	●	●	0.01	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	94.84	%	6.2	●	↓	94.84	%	2020
Unprotected freshwater biodiversity sites	92.90	%	8.3	●	↓	92.90	%	2020
Domestic land use related biodiversity loss	1.91×10^{-12}	global PDF/capita	97.5	●	↓	2.53×10^{-6}	global PDF	2018
Spillover land use related biodiversity loss	7.76×10^{-12}	global PDF/capita	56.5	●	↓	1.03×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.05	spp./million	66.0	●	●	0.06	species	2018
Spillover freshwater biodiversity threats	0.02	spp./million	60.6	●	●	0.03	species	2018
Domestic deforestation	1.49	%	1.0	●	↓	4.07×10^{4}	hectares	2020
Spillover deforestation	1.26×10^{-2}	ha/capita	1.0	●	↓	1.67×10^{4}	hectares	2018
Red List Index of species survival	0.99	scale 0 to 1	99.1	●	↓	0.99	scale 0 to 1	2021
Biodiversity Habitat Index	0.49	scale 0 to 1	29.3	●	●	0.49	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	3.01×10^{-6}	WOE/million	100.0	●	●	4.00	WOE	2019
Spillover endangered terrestrial animals	6.78×10^{-6}	WOE/capita	99.9	●	●	9.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	7.54×10^{-7}	WOE/capita	100.0	●	●	1.00	WOE	2019
Unprotected marine biodiversity sites	97.68	%	3.3	●	↓	97.68	%	2020
Domestic marine biodiversity threats	0.02	spp./million	86.5	●	●	0.02	species	2018
Spillover marine biodiversity threats	0.07	spp./million	35.1	●	●	0.09	species	2018
Fish caught from overexploited or collapsed stocks	1.60	%	97.5	●	↑	1.60	%	2018
Fish caught by trawling	5.29	%	91.6	●	↗	5.29	%	2018
Domestic vulnerable fisheries catch	83.72	tonnes/capita	10.2	●	↓	0.11	Tg	2018
Spillover vulnerable fisheries catch	41.39	tonnes/capita	10.5	●	→	0.05	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.62	scale 0 to 1.4	47.2	●	→	0.62	scale 0 to 1.4	2015
Domestic nitrogen surplus	26.40	kg/capita	25.3	●	↓	34.72	Gg	2015
Spillover nitrogen surplus	8.21	kg/capita	20.0	●	↓	10.80	Tg	2015
Domestic phosphorus fertilizer	7.04	kg/capita	40.2	●	↓	9.30	kt	2018
Spillover phosphorus fertilizer	4.97	g/capita	19.6	●	↓	6.57	kt	2018
Water Cycle								
Domestic scarce water consumption	0.28	m^3 H_2O-eq./capita	76.6	●	↓	0.37	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	93.91	m^3 H_2O-eq./capita	24.0	●	↓	124.14	Mm^3 H_2O-eq.	2018
Domestic water stress	0.03	ML H_2O-eq./capita	82.1	●	↓	0.04	Bm^3 H_2O-eq.	2018
Spillover water stress	2.11	m^3 H_2O-eq./capita	38.9	●	↓	2.79	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Ethiopia

Africa

Land area	1,129,300 sq. km	**Population**	115.0 million
GDP (PPP, constant 2017 US$, billions)	$264.1	**GDP per capita**	$2,297
Human Development Index (HDI)	0.498	**HDI category**	Low

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		89.5 /100	
ABSOLUTE		53.5 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Ethiopia

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	0.87	kg/capita	100.0	●	↓	95.07	Gg	2018
Spillover SO_2 emissions	0.53	kg/capita	100.0	●	↓	53.36	Gg	2015
Domestic NO_X emissions	2.13	kg/capita	100.0	●	↓	232.72	Gg	2018
Spillover NO_X emissions	0.44	kg/capita	100.0	●	↓	44.40	Gg	2015
Domestic black carbon emissions	0.77	kg/capita	39.3	●	→	83.99	Gg	2018
Spillover black carbon emissions	0.02	kg/capita	100.0	●	↓	1.89	Gg	2015
GHG Emissions								
Domestic GHG emissions	3.06	t CO_2e/capita	83.5	●	↗	343.38	Tg	2019
Spillover GHG emissions	0.20	t CO_2e/capita	100.0	●	↓	22.29	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA	●	●	NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	18.10	%	84.0	●	↓	18.10	%	2020
Unprotected freshwater biodiversity sites	16.17	%	87.6	●	↓	16.17	%	2020
Domestic land use related biodiversity loss	2.38×10^{-12}	global PDF/capita	96.9	●	→	2.60×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	1.89×10^{-13}	global PDF/capita	100.0	●	↓	2.06×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.10	spp./million	55.4	●	●	10.97	species	2018
Spillover freshwater biodiversity threats	0.00	spp./million	98.4	●	●	0.27	species	2018
Domestic deforestation	0.16	%	87.9	●	↓	1.99×10^{4}	hectares	2020
Spillover deforestation	4.32×10^{-5}	ha/capita	100.0	●	↓	4.72×10^{3}	hectares	2018
Red List Index of species survival	0.85	scale 0 to 1	57.0	●	↓	0.85	scale 0 to 1	2021
Biodiversity Habitat Index	0.40	scale 0 to 1	16.0	●	●	0.40	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	1.17×10^{-6}	WOE/million	100.0	●	●	1.31×10^{2}	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	NA	WOE/million	NA	●	●	NA	WOE	NA
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic marine biodiversity threats	NA	spp./million	NA	●	●	NA	species	NA
Spillover marine biodiversity threats	0.00	spp./million	88.8	●	●	0.10	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	NA	%	NA	●	●	NA	%	NA
Domestic vulnerable fisheries catch	NA	tonnes/capita	NA	●	●	NA	Tg	NA
Spillover vulnerable fisheries catch	0.11	tonnes/capita	100.0	●	↓	0.01	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.66	scale 0 to 1.4	43.6	●	→	0.66	scale 0 to 1.4	2015
Domestic nitrogen surplus	0.91	kg/capita	98.8	●	↑	91.53	Gg	2015
Spillover nitrogen surplus	0.06	kg/capita	100.0	●	↑	5.85	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	0.23	g/capita	100.0	●	↓	25.04	kt	2018
Water Cycle								
Domestic scarce water consumption	0.66	m^3 H_2O-eq./capita	67.0	●	↓	71.64	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	5.06	m^3 H_2O-eq./capita	100.0	●	↓	553.16	Mm^3 H_2O-eq.	2018
Domestic water stress	0.54	ML H_2O-eq./capita	44.4	●	↓	58.54	Bm^3 H_2O-eq.	2018
Spillover water stress	0.18	m^3 H_2O-eq./capita	100.0	●	↓	19.47	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

European Union

OECD Member

Land area	3,999,623 sq. km	**Population**	447.5 million
GDP (PPP, constant 2017 US$, billions)	$18,669.2	**GDP per capita**	$41,721
Human Development Index (HDI)	0.903	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	29.2 /100	↓
ABSOLUTE	●	1.8 /100	↓

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

European Union

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	9.01	kg/capita	46.2	●	→	4,027.67	Gg	2018
Spillover SO_2 emissions	10.27	kg/capita	26.7	●	→	4,567.02	Gg	2015
Domestic NO_X emissions	14.60	kg/capita	80.1	●	↓	6,526.88	Gg	2018
Spillover NO_X emissions	12.76	kg/capita	20.3	●	→	5,674.37	Gg	2015
Domestic black carbon emissions	0.35	kg/capita	77.3	●	↓	155.74	Gg	2018
Spillover black carbon emissions	0.42	kg/capita	25.1	●	→	185.32	Gg	2015
GHG Emissions								
Domestic GHG emissions	9.92	t CO_2e/capita	37.9	●	→	4,435.63	Tg	2019
Spillover GHG emissions	6.48	t CO_2e/capita	22.4	●	↓	2,894.51	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.12	t CO_2e/capita	27.7	●	●	54.90	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	65.08	%	36.4	●	↓	65.08	%	2020
Unprotected freshwater biodiversity sites	59.39	%	43.0	●	↓	59.39	%	2020
Domestic land use related biodiversity loss	6.36×10^{-12}	global PDF/capita	91.6	●	→	2.84×10^{-3}	global PDF	2018
Spillover land use related biodiversity loss	8.02×10^{-12}	global PDF/capita	55.0	●	↓	3.59×10^{-3}	global PDF	2018
Domestic freshwater biodiversity threats	0.89	spp./million	25.6	●	●	399.94	species	2018
Spillover freshwater biodiversity threats	0.44	spp./million	12.1	●	●	195.31	species	2018
Domestic deforestation	0.85	%	36.5	●	↓	1.33×10^{6}	hectares	2020
Spillover deforestation	3.19×10^{-3}	ha/capita	55.3	●	↓	1.43×10^{6}	hectares	2018
Red List Index of species survival	0.84	scale 0 to 1	53.1	●	↓	0.84	scale 0 to 1	2021
Biodiversity Habitat Index	0.40	scale 0 to 1	16.7	●	●	0.40	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	4.99×10^{-7}	WOE/million	100.0	●	●	2.23×10^{2}	WOE	2019
Spillover endangered terrestrial animals	3.16×10^{-3}	WOE/capita	63.0	●	●	1.41×10^{6}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	5.78×10^{-5}	WOE/million	98.0	●	●	2.38×10^{4}	WOE	2019
Spillover endangered marine animals	1.20×10^{-3}	WOE/capita	23.5	●	●	5.35×10^{5}	WOE	2019
Unprotected marine biodiversity sites	69.98	%	30.7	●	↓	69.98	%	2020
Domestic marine biodiversity threats	0.24	spp./million	49.9	●	●	106.20	species	2018
Spillover marine biodiversity threats	0.27	spp./million	17.7	●	●	122.50	species	2018
Fish caught from overexploited or collapsed stocks	34.12	%	45.5	●	→	34.12	%	2018
Fish caught by trawling	28.17	%	54.0	●	↓	28.17	%	2018
Domestic vulnerable fisheries catch	14.77	tonnes/capita	33.0	●	↓	6.08	Tg	2018
Spillover vulnerable fisheries catch	27.01	tonnes/capita	17.6	●	→	12.07	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.57	scale 0 to 1.4	51.2	●	↓	0.57	scale 0 to 1.4	2015
Domestic nitrogen surplus	15.79	kg/capita	55.9	●	↓	7,019.17	Gg	2015
Spillover nitrogen surplus	11.23	kg/capita	14.1	●	↓	4,994.59	Tg	2015
Domestic phosphorus fertilizer	5.70	kg/capita	45.9	●	↓	2,539.49	kt	2018
Spillover phosphorus fertilizer	4.18	g/capita	25.0	●	↓	1,867.20	kt	2018
Water Cycle								
Domestic scarce water consumption	29.55	m^3 H_2O-eq./capita	24.2	●	↓	13,208.53	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	66.75	m^3 H_2O-eq./capita	32.9	●	↓	29,833.81	Mm^3 H_2O-eq.	2018
Domestic water stress	3.00	ML H_2O-eq./capita	22.2	●	↓	1,340.53	Bm^3 H_2O-eq.	2018
Spillover water stress	2.70	m^3 H_2O-eq./capita	32.6	●	↓	1,204.70	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Finland

OECD Member

Land area	303,920 sq. km	**Population**	5.5 million
GDP (PPP, constant 2017 US$, billions)	$260.9	**GDP per capita**	$47,167
Human Development Index (HDI)	0.940	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		12.5 /100	→
ABSOLUTE		57.5 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

The Global Commons Stewardship Index is a production of the Sustainable Development Solutions Network, the Yale Center for Environmental Law & Policy, and the Center for Global Commons at the University of Tokyo.

Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Finland

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	32.97	kg/capita	16.4	●	↓	181.86	Gg	2018
Spillover SO_2 emissions	13.44	kg/capita	19.2	●	↑	73.66	Gg	2015
Domestic NO_X emissions	30.99	kg/capita	46.6	●	↓	170.93	Gg	2018
Spillover NO_X emissions	18.96	kg/capita	9.8	●	↑	103.89	Gg	2015
Domestic black carbon emissions	1.36	kg/capita	1.0	●	↓	7.50	Gg	2018
Spillover black carbon emissions	0.54	kg/capita	17.7	●	→	2.98	Gg	2015
GHG Emissions								
Domestic GHG emissions	23.57	t CO_2e/capita	4.3	●	↓	130.15	Tg	2019
Spillover GHG emissions	9.89	t CO_2e/capita	10.5	●	↓	54.57	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.00	t CO_2e/capita	60.1	●	●	0.00	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	71.70	%	29.7	●	↓	71.70	%	2020
Unprotected freshwater biodiversity sites	75.81	%	26.0	●	↓	75.81	%	2020
Domestic land use related biodiversity loss	1.06×10^{-12}	global PDF/capita	98.6	●	→	5.84×10^{-6}	global PDF	2018
Spillover land use related biodiversity loss	7.89×10^{-12}	global PDF/capita	55.8	●	↓	4.35×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.21	spp./million	45.5	●	●	1.16	species	2018
Spillover freshwater biodiversity threats	0.26	spp./million	20.6	●	●	1.46	species	2018
Domestic deforestation	1.18	%	11.7	●	↓	2.69×10^{5}	hectares	2020
Spillover deforestation	6.70×10^{-3}	ha/capita	3.9	●	↓	3.69×10^{4}	hectares	2018
Red List Index of species survival	0.99	scale 0 to 1	100.0	●	↓	0.99	scale 0 to 1	2021
Biodiversity Habitat Index	0.61	scale 0 to 1	46.1	●	●	0.61	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	1.20×10^{-3}	WOE/capita	86.0	●	●	6.61×10^{3}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	3.62×10^{-6}	WOE/capita	99.8	●	●	2.00×10	WOE	2019
Unprotected marine biodiversity sites	60.67	%	39.9	●	↓	60.67	%	2020
Domestic marine biodiversity threats	0.04	spp./million	73.4	●	●	0.24	species	2018
Spillover marine biodiversity threats	0.07	spp./million	35.1	●	●	0.39	species	2018
Fish caught from overexploited or collapsed stocks	3.12	%	95.1	●	↗	3.12	%	2018
Fish caught by trawling	0.00	%	100.0	●	●	0.00	%	2018
Domestic vulnerable fisheries catch	30.67	tonnes/capita	23.4	●	↓	0.17	Tg	2018
Spillover vulnerable fisheries catch	23.59	tonnes/capita	19.9	●	↓	0.13	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.63	scale 0 to 1.4	46.7	●	↓	0.63	scale 0 to 1.4	2015
Domestic nitrogen surplus	20.50	kg/capita	42.3	●	↓	112.32	Gg	2015
Spillover nitrogen surplus	10.76	kg/capita	14.9	●	↓	58.97	Tg	2015
Domestic phosphorus fertilizer	4.59	kg/capita	51.7	●	→	25.32	kt	2018
Spillover phosphorus fertilizer	3.67	g/capita	29.0	●	↓	20.23	kt	2018
Water Cycle								
Domestic scarce water consumption	33.34	m^3 H_2O-eq./capita	22.9	●	↓	183.88	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	65.61	m^3 H_2O-eq./capita	33.3	●	↓	361.88	Mm^3 H_2O-eq.	2018
Domestic water stress	0.07	ML H_2O-eq./capita	70.1	●	↓	0.41	Bm^3 H_2O-eq.	2018
Spillover water stress	2.02	m^3 H_2O-eq./capita	40.0	●	↓	11.15	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

France

OECD Member

Land area	547,557 sq. km	**Population**	67.4 million
GDP (PPP, constant 2017 US$, billions)	$2,851.6	**GDP per capita**	$42,289
Human Development Index (HDI)	0.903	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		34.8 /100	→
ABSOLUTE		29.3 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

France

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	3.43	kg/capita	68.4	●	↓	230.56	Gg	2018
Spillover SO_2 emissions	9.54	kg/capita	28.7	●	→	635.21	Gg	2015
Domestic NO_X emissions	11.07	kg/capita	87.4	●	→	743.24	Gg	2018
Spillover NO_X emissions	12.25	kg/capita	21.4	●	→	815.81	Gg	2015
Domestic black carbon emissions	0.33	kg/capita	78.6	●	→	22.43	Gg	2018
Spillover black carbon emissions	0.40	kg/capita	26.4	●	→	26.49	Gg	2015
GHG Emissions								
Domestic GHG emissions	7.82	t CO_2e/capita	47.1	●	→	526.07	Tg	2019
Spillover GHG emissions	5.90	t CO_2e/capita	25.0	●	↓	396.31	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.00	t CO_2e/capita	48.6	●	●	0.09	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	80.95	%	20.3	●	↓	80.95	%	2020
Unprotected freshwater biodiversity sites	77.98	%	23.7	●	↓	77.98	%	2020
Domestic land use related biodiversity loss	4.76×10^{-12}	global PDF/capita	93.7	●	→	3.20×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	9.46×10^{-12}	global PDF/capita	46.4	●	↓	6.35×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	1.38	spp./million	19.6	●	●	89.72	species	2018
Spillover freshwater biodiversity threats	0.68	spp./million	4.7	●	●	44.14	species	2018
Domestic deforestation	0.42	%	68.2	●	↓	7.14×10^{4}	hectares	2020
Spillover deforestation	2.62×10^{-3}	ha/capita	63.6	●	↓	1.76×10^{5}	hectares	2018
Red List Index of species survival	0.84	scale 0 to 1	53.2	●	↓	0.84	scale 0 to 1	2021
Biodiversity Habitat Index	0.37	scale 0 to 1	11.7	●	●	0.37	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	8.92×10^{-8}	WOE/million	100.0	●	●	6.00	WOE	2019
Spillover endangered terrestrial animals	2.75×10^{-3}	WOE/capita	67.8	●	●	1.85×10^{5}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	3.50×10^{-4}	WOE/million	88.1	●	●	2.36×10^{4}	WOE	2019
Spillover endangered marine animals	1.09×10^{-3}	WOE/capita	30.5	●	●	7.32×10^{4}	WOE	2019
Unprotected marine biodiversity sites	81.89	%	18.9	●	↓	81.89	%	2020
Domestic marine biodiversity threats	0.24	spp./million	49.8	●	●	15.52	species	2018
Spillover marine biodiversity threats	0.44	spp./million	11.5	●	●	28.77	species	2018
Fish caught from overexploited or collapsed stocks	21.01	%	66.5	●	↓	21.01	%	2018
Fish caught by trawling	15.26	%	75.2	●	→	15.26	%	2018
Domestic vulnerable fisheries catch	9.01	tonnes/capita	39.5	●	→	0.60	Tg	2018
Spillover vulnerable fisheries catch	26.82	tonnes/capita	17.7	●	↓	1.80	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.39	scale 0 to 1.4	67.3	●	→	0.39	scale 0 to 1.4	2015
Domestic nitrogen surplus	15.50	kg/capita	56.7	●	↓	1,031.80	Gg	2015
Spillover nitrogen surplus	11.91	kg/capita	12.9	●	↓	793.01	Tg	2015
Domestic phosphorus fertilizer	6.41	kg/capita	42.7	●	→	430.42	kt	2018
Spillover phosphorus fertilizer	3.15	g/capita	33.7	●	→	211.74	kt	2018
Water Cycle								
Domestic scarce water consumption	19.00	m^3 H_2O-eq./capita	29.2	●	→	1,275.55	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	46.60	m^3 H_2O-eq./capita	42.2	●	↓	3,128.54	Mm^3 H_2O-eq.	2018
Domestic water stress	0.26	ML H_2O-eq./capita	53.7	●	↓	17.58	Bm^3 H_2O-eq.	2018
Spillover water stress	2.83	m^3 H_2O-eq./capita	31.3	●	↓	190.14	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Gabon

Africa

Land area	257,670 sq. km	**Population**	2.2 million
GDP (PPP, constant 2017 US$, billions)	$32.1	**GDP per capita**	$14,400
Human Development Index (HDI)	0.706	**HDI category**	High

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		34.0 /100	
ABSOLUTE		78.6 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Gabon

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	8.59	kg/capita	47.3			18.21	Gg	2018
Spillover SO_2 emissions	2.87	kg/capita	61.8			5.60	Gg	2015
Domestic NO_X emissions	16.87	kg/capita	75.5			35.76	Gg	2018
Spillover NO_X emissions	3.16	kg/capita	57.3			6.16	Gg	2015
Domestic black carbon emissions	2.09	kg/capita	1.0			4.43	Gg	2018
Spillover black carbon emissions	0.13	kg/capita	58.4			0.24	Gg	2015
GHG Emissions								
Domestic GHG emissions	16.28	t CO_2e/capita	18.6			35.38	Tg	2019
Spillover GHG emissions	1.73	t CO_2e/capita	59.4			3.67	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA			NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	60.42	%	41.1			60.42	%	2020
Unprotected freshwater biodiversity sites	93.61	%	7.6			93.61	%	2020
Domestic land use related biodiversity loss	7.44×10^{-11}	global PDF/capita	1.0			1.58×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	4.23×10^{-12}	global PDF/capita	77.7			8.97×10^{-6}	global PDF	2018
Domestic freshwater biodiversity threats	11.77	spp./million	1.0			24.95	species	2018
Spillover freshwater biodiversity threats	0.26	spp./million	20.9			0.55	species	2018
Domestic deforestation	0.10	%	92.6			2.43×10^{4}	hectares	2020
Spillover deforestation	1.77×10^{-3}	ha/capita	76.2			3.74×10^{3}	hectares	2018
Red List Index of species survival	0.95	scale 0 to 1	89.1			0.95	scale 0 to 1	2021
Biodiversity Habitat Index	0.66	scale 0 to 1	53.3			0.66	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	2.76×10^{-6}	WOE/million	100.0			6.00	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0			0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0			0.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0			0.00	WOE	2019
Unprotected marine biodiversity sites	63.70	%	36.9			63.70	%	2020
Domestic marine biodiversity threats	4.12	spp./million	10.3			8.74	species	2018
Spillover marine biodiversity threats	0.06	spp./million	37.6			0.12	species	2018
Fish caught from overexploited or collapsed stocks	69.58	%	1.0			69.58	%	2018
Fish caught by trawling	41.61	%	31.9			41.61	%	2018
Domestic vulnerable fisheries catch	123.97	tonnes/capita	5.1			0.26	Tg	2018
Spillover vulnerable fisheries catch	10.93	tonnes/capita	32.7			0.02	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	1.02	scale 0 to 1.4	11.9			1.02	scale 0 to 1.4	2015
Domestic nitrogen surplus	3.54	kg/capita	91.2			6.90	Gg	2015
Spillover nitrogen surplus	2.05	kg/capita	46.3			4.00	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA			NA	kt	NA
Spillover phosphorus fertilizer	1.50	g/capita	56.7			3.17	kt	2018
Water Cycle								
Domestic scarce water consumption	0.85	m^3 H_2O-eq./capita	64.1			1.80	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	20.51	m^3 H_2O-eq./capita	63.6			43.47	Mm^3 H_2O-eq.	2018
Domestic water stress	0.01	ML H_2O-eq./capita	100.0			0.02	Bm^3 H_2O-eq.	2018
Spillover water stress	0.90	m^3 H_2O-eq./capita	60.8			1.91	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Gambia

Africa

Land area	10,120 sq. km	**Population**	2.4 million
GDP (PPP, constant 2017 US$, billions)	$5.2	**GDP per capita**	$2,159
Human Development Index (HDI)	0.500	**HDI category**	Low

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		92.2 /100	
ABSOLUTE		94.7 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Gambia

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	1.32	kg/capita	90.4			3.01	Gg	2018
Spillover SO_2 emissions	0.59	kg/capita	100.0			1.23	Gg	2015
Domestic NO_X emissions	2.69	kg/capita	100.0			6.14	Gg	2018
Spillover NO_X emissions	0.56	kg/capita	100.0			1.17	Gg	2015
Domestic black carbon emissions	0.33	kg/capita	78.8			0.76	Gg	2018
Spillover black carbon emissions	0.03	kg/capita	100.0			0.05	Gg	2015
GHG Emissions								
Domestic GHG emissions	1.47	t CO_2e/capita	100.0			3.45	Tg	2019
Spillover GHG emissions	0.39	t CO_2e/capita	100.0			0.89	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA			NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	41.71	%	60.1			41.71	%	2020
Unprotected freshwater biodiversity sites	99.02	%	2.0			99.02	%	2020
Domestic land use related biodiversity loss	4.84×10^{-13}	global PDF/capita	99.4			1.10×10^{-6}	global PDF	2018
Spillover land use related biodiversity loss	6.61×10^{-13}	global PDF/capita	99.1			1.51×10^{-6}	global PDF	2018
Domestic freshwater biodiversity threats	0.08	spp./million	58.5			0.18	species	2018
Spillover freshwater biodiversity threats	0.00	spp./million	100.0			0.00	species	2018
Domestic deforestation	0.31	%	76.7			1.20×10	hectares	2020
Spillover deforestation	1.99×10^{-4}	ha/capita	99.2			4.54×10^{2}	hectares	2018
Red List Index of species survival	0.98	scale 0 to 1	97.1			0.98	scale 0 to 1	2021
Biodiversity Habitat Index	0.29	scale 0 to 1	1.0			0.29	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0			0.00	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0			0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0			0.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0			0.00	WOE	2019
Unprotected marine biodiversity sites	40.30	%	60.1			40.30	%	2020
Domestic marine biodiversity threats	0.25	spp./million	49.3			0.56	species	2018
Spillover marine biodiversity threats	0.00	spp./million	100.0			0.00	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA			NA	%	NA
Fish caught by trawling	4.21	%	93.4			4.21	%	2018
Domestic vulnerable fisheries catch	122.44	tonnes/capita	5.2			0.28	Tg	2018
Spillover vulnerable fisheries catch	0.40	tonnes/capita	88.1			0.00	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.86	scale 0 to 1.4	25.9			0.86	scale 0 to 1.4	2015
Domestic nitrogen surplus	2.08	kg/capita	95.4			4.34	Gg	2015
Spillover nitrogen surplus	0.25	kg/capita	86.5			0.52	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA			NA	kt	NA
Spillover phosphorus fertilizer	0.67	g/capita	81.7			1.53	kt	2018
Water Cycle								
Domestic scarce water consumption	1.36	m^3 H_2O-eq./capita	58.8			3.10	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	55.03	m^3 H_2O-eq./capita	37.9			3,659.35	Mm^3 H_2O-eq.	2018
Domestic water stress	0.05	ML H_2O-eq./capita	74.2			0.12	Bm^3 H_2O-eq.	2018
Spillover water stress	2.75	m^3 H_2O-eq./capita	32.0			183.19	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Georgia

Eastern Europe and Central Asia

Land area	69,490 sq. km	**Population**	3.7 million
GDP (PPP, constant 2017 US$, billions)	$52.3	**GDP per capita**	$14,089
Human Development Index (HDI)	0.802	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		49.1 /100	
ABSOLUTE		73.8 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

The Global Commons Stewardship Index is a production of the Sustainable Development Solutions Network, the Yale Center for Environmental Law & Policy, and the Center for Global Commons at the University of Tokyo.

Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Georgia

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	2.92	kg/capita	72.2	●	↓	10.88	Gg	2018
Spillover SO_2 emissions	4.15	kg/capita	51.7	●	→	15.44	Gg	2015
Domestic NO_X emissions	10.66	kg/capita	88.2	●	↗	39.74	Gg	2018
Spillover NO_X emissions	4.23	kg/capita	49.6	●	↓	15.75	Gg	2015
Domestic black carbon emissions	0.32	kg/capita	80.0	●	↗	1.19	Gg	2018
Spillover black carbon emissions	0.12	kg/capita	59.2	●	↓	0.45	Gg	2015
GHG Emissions								
Domestic GHG emissions	5.08	t CO_2e/capita	63.9	●	↓	18.89	Tg	2019
Spillover GHG emissions	3.29	t CO_2e/capita	41.4	●	→	12.26	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.01	t CO_2e/capita	37.6	●	●	0.05	Tg	2021
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	40.32	%	61.5	●	↓	40.32	%	2020
Unprotected freshwater biodiversity sites	38.95	%	64.1	●	↓	38.95	%	2020
Domestic land use related biodiversity loss	1.10×10^{-11}	global PDF/capita	85.4	●	→	4.11×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	3.14×10^{-12}	global PDF/capita	84.2	●	↓	1.17×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.20	spp./million	46.0	●	●	0.80	species	2018
Spillover freshwater biodiversity threats	0.06	spp./million	46.5	●	●	0.23	species	2018
Domestic deforestation	0.00	%	99.9	●	↓	5.78×10	hectares	2020
Spillover deforestation	8.82×10^{-4}	ha/capita	89.2	●	↓	3.29×10^{3}	hectares	2018
Red List Index of species survival	0.89	scale 0 to 1	69.0	●	↓	0.89	scale 0 to 1	2021
Biodiversity Habitat Index	0.39	scale 0 to 1	14.7	●	●	0.39	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	2.42×10^{-6}	WOE/capita	100.0	●	●	9.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	35.64	%	64.7	●	↓	35.64	%	2020
Domestic marine biodiversity threats	0.02	spp./million	81.6	●	●	0.10	species	2018
Spillover marine biodiversity threats	0.01	spp./million	68.6	●	●	0.02	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	5.30	%	91.6	●	↗	5.30	%	2018
Domestic vulnerable fisheries catch	13.29	tonnes/capita	34.4	●	↓	0.05	Tg	2018
Spillover vulnerable fisheries catch	5.03	tonnes/capita	45.7	●	↗	0.02	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	1.09	scale 0 to 1.4	6.2	●	↓	1.09	scale 0 to 1.4	2015
Domestic nitrogen surplus	13.00	kg/capita	63.9	●	↓	48.44	Gg	2015
Spillover nitrogen surplus	2.24	kg/capita	44.7	●	→	8.33	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	3.34	g/capita	31.9	●	↓	12.44	kt	2018
Water Cycle								
Domestic scarce water consumption	1.88	m^3 H_2O-eq./capita	55.1	●	↗	7.01	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	41.83	m^3 H_2O-eq./capita	45.0	●	→	155.89	Mm^3 H_2O-eq.	2018
Domestic water stress	3.56	ML H_2O-eq./capita	20.0	●	→	13.25	Bm^3 H_2O-eq.	2018
Spillover water stress	3.53	m^3 H_2O-eq./capita	25.6	●	↓	13.15	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Germany

OECD Member

Land area	349,380 sq. km	**Population**	83.2 million
GDP (PPP, constant 2017 US$, billions)	$4,276.4	**GDP per capita**	$51,374
Human Development Index (HDI)	0.942	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	25.7 /100	→
ABSOLUTE	●	20.6 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

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Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Germany

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	4.92	kg/capita	60.2	●	↗	407.85	Gg	2018
Spillover SO_2 emissions	13.05	kg/capita	20.1	●	→	1,066.28	Gg	2015
Domestic NO_X emissions	12.14	kg/capita	85.2	●	→	1,006.32	Gg	2018
Spillover NO_X emissions	16.31	kg/capita	13.8	●	→	1,332.38	Gg	2015
Domestic black carbon emissions	0.15	kg/capita	95.5	●	↑	12.20	Gg	2018
Spillover black carbon emissions	0.55	kg/capita	17.5	●	→	44.94	Gg	2015
GHG Emissions								
Domestic GHG emissions	11.16	t CO_2e/capita	33.3	●	→	927.42	Tg	2019
Spillover GHG emissions	7.77	t CO_2e/capita	17.2	●	↓	644.42	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.18	t CO_2e/capita	26.1	●	●	14.67	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	78.71	%	22.6	●	↓	78.71	%	2020
Unprotected freshwater biodiversity sites	78.82	%	22.9	●	↓	78.82	%	2020
Domestic land use related biodiversity loss	9.14×10^{-13}	global PDF/capita	98.8	●	↗	7.58×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	8.82×10^{-12}	global PDF/capita	50.2	●	↓	7.31×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	0.24	spp./million	43.8	●	●	19.61	species	2018
Spillover freshwater biodiversity threats	0.62	spp./million	6.2	●	●	51.64	species	2018
Domestic deforestation	0.88	%	34.1	●	↓	1.12×10^{5}	hectares	2020
Spillover deforestation	3.51×10^{-3}	ha/capita	50.6	●	↓	2.91×10^{5}	hectares	2018
Red List Index of species survival	0.98	scale 0 to 1	97.9	●	↗	0.98	scale 0 to 1	2021
Biodiversity Habitat Index	0.36	scale 0 to 1	11.2	●	●	0.36	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	3.61×10^{-8}	WOE/million	100.0	●	●	3.00	WOE	2019
Spillover endangered terrestrial animals	2.33×10^{-3}	WOE/capita	72.7	●	●	1.94×10^{5}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	6.85×10^{-4}	WOE/capita	56.2	●	●	5.69×10^{4}	WOE	2019
Unprotected marine biodiversity sites	77.00	%	23.8	●	↓	77.00	%	2020
Domestic marine biodiversity threats	0.01	spp./million	89.3	●	●	1.13	species	2018
Spillover marine biodiversity threats	0.28	spp./million	17.3	●	●	23.48	species	2018
Fish caught from overexploited or collapsed stocks	25.62	%	59.1	●	→	25.62	%	2018
Fish caught by trawling	18.82	%	69.4	●	↓	18.82	%	2018
Domestic vulnerable fisheries catch	2.48	tonnes/capita	56.5	●	↓	0.21	Tg	2018
Spillover vulnerable fisheries catch	22.23	tonnes/capita	20.9	●	↓	1.84	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.51	scale 0 to 1.4	56.8	●	↓	0.51	scale 0 to 1.4	2015
Domestic nitrogen surplus	15.33	kg/capita	57.2	●	↓	1,251.88	Gg	2015
Spillover nitrogen surplus	15.80	kg/capita	7.6	●	↓	1,290.41	Tg	2015
Domestic phosphorus fertilizer	2.43	kg/capita	68.7	●	↑	201.16	kt	2018
Spillover phosphorus fertilizer	5.11	g/capita	18.7	●	↓	423.53	kt	2018
Water Cycle								
Domestic scarce water consumption	26.70	m^3 H_2O-eq./capita	25.3	●	↓	2,213.91	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	11.31	m^3 H_2O-eq./capita	79.1	●	↓	336.79	Mm^3 H_2O-eq.	2018
Domestic water stress	0.04	ML H_2O-eq./capita	77.1	●	↓	3.54	Bm^3 H_2O-eq.	2018
Spillover water stress	0.43	m^3 H_2O-eq./capita	80.2	●	↓	12.72	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Ghana

Africa

Land area	227,540 sq. km	**Population**	31.1 million
GDP (PPP, constant 2017 US$, billions)	$164.8	**GDP per capita**	$5,305
Human Development Index (HDI)	0.632	**HDI category**	Medium

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		69.5 /100	
ABSOLUTE		57.1 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Ghana

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	1.08	kg/capita	95.1			32.04	Gg	2018
Spillover SO_2 emissions	1.76	kg/capita	75.4			48.91	Gg	2015
Domestic NO_X emissions	3.54	kg/capita	100.0			105.36	Gg	2018
Spillover NO_X emissions	1.59	kg/capita	75.6			44.33	Gg	2015
Domestic black carbon emissions	0.37	kg/capita	75.5			10.95	Gg	2018
Spillover black carbon emissions	0.07	kg/capita	73.4			2.03	Gg	2015
GHG Emissions								
Domestic GHG emissions	2.06	t CO_2e/capita	98.8			62.74	Tg	2019
Spillover GHG emissions	0.94	t CO_2e/capita	76.7			27.86	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.64	t CO_2e/capita	20.2			19.46	Tg	2019
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	68.88	%	32.5			68.88	%	2020
Unprotected freshwater biodiversity sites	80.51	%	21.1			80.51	%	2020
Domestic land use related biodiversity loss	3.80×10^{-12}	global PDF/capita	95.0			1.13×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	1.44×10^{-12}	global PDF/capita	94.5			4.28×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.56	spp./million	32.0			16.63	species	2018
Spillover freshwater biodiversity threats	0.00	spp./million	97.8			0.08	species	2018
Domestic deforestation	1.78	%	1.0			1.25×10^{5}	hectares	2020
Spillover deforestation	5.84×10^{-4}	ha/capita	93.6			1.74×10^{4}	hectares	2018
Red List Index of species survival	0.84	scale 0 to 1	54.0			0.84	scale 0 to 1	2021
Biodiversity Habitat Index	0.38	scale 0 to 1	13.8			0.38	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	7.44×10^{-4}	WOE/million	92.2			2.26×10^{4}	WOE	2019
Spillover endangered terrestrial animals	3.81×10^{-5}	WOE/capita	99.6			1.16×10^{3}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	1.64×10^{-6}	WOE/million	99.9			5.00×10	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0			0.00	WOE	2019
Unprotected marine biodiversity sites	19.56	%	80.6			19.56	%	2020
Domestic marine biodiversity threats	0.20	spp./million	52.5			5.84	species	2018
Spillover marine biodiversity threats	0.00	spp./million	71.8			0.12	species	2018
Fish caught from overexploited or collapsed stocks	44.05	%	29.7			44.05	%	2018
Fish caught by trawling	7.40	%	88.1			7.40	%	2018
Domestic vulnerable fisheries catch	22.01	tonnes/capita	27.8			0.66	Tg	2018
Spillover vulnerable fisheries catch	11.37	tonnes/capita	32.1			0.34	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.80	scale 0 to 1.4	31.9			0.80	scale 0 to 1.4	2015
Domestic nitrogen surplus	2.09	kg/capita	95.3			58.33	Gg	2015
Spillover nitrogen surplus	0.26	kg/capita	85.7			7.18	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA			NA	kt	NA
Spillover phosphorus fertilizer	1.30	g/capita	61.2			38.58	kt	2018
Water Cycle								
Domestic scarce water consumption	10.48	m^3 H_2O-eq./capita	35.9			311.86	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	67.58	m^3 H_2O-eq./capita	32.6			838.98	Mm^3 H_2O-eq.	2018
Domestic water stress	0.45	ML H_2O-eq./capita	46.7			13.36	Bm^3 H_2O-eq.	2018
Spillover water stress	2.09	m^3 H_2O-eq./capita	39.2			25.94	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Greece

OECD Member

Land area	128,900 sq. km	**Population**	10.7 million
GDP (PPP, constant 2017 US$, billions)	$292.4	**GDP per capita**	$27,287
Human Development Index (HDI)	0.887	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		31.0 /100	→
ABSOLUTE		51.2 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

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Dashboard categories
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories
Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Greece

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	20.01	kg/capita	27.9	●	→	214.79	Gg	2018
Spillover SO_2 emissions	8.63	kg/capita	31.5	●	→	93.39	Gg	2015
Domestic NO_X emissions	20.14	kg/capita	68.8	●	↓	216.17	Gg	2018
Spillover NO_X emissions	7.99	kg/capita	32.7	●	→	86.50	Gg	2015
Domestic black carbon emissions	0.32	kg/capita	79.7	●	→	3.46	Gg	2018
Spillover black carbon emissions	0.27	kg/capita	37.2	●	→	2.91	Gg	2015
GHG Emissions								
Domestic GHG emissions	8.39	t CO_2e/capita	44.4	●	→	89.99	Tg	2019
Spillover GHG emissions	5.35	t CO_2e/capita	27.7	●	↓	57.41	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.04	t CO_2e/capita	32.7	●	●	0.44	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	86.03	%	15.2	●	↓	86.03	%	2020
Unprotected freshwater biodiversity sites	90.41	%	10.9	●	↓	90.41	%	2020
Domestic land use related biodiversity loss	2.31×10^{-11}	global PDF/capita	69.2	●	→	2.48×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	7.94×10^{-12}	global PDF/capita	55.5	●	↓	8.52×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	5.20	spp./million	1.4	●	●	54.73	species	2018
Spillover freshwater biodiversity threats	0.41	spp./million	13.4	●	●	4.28	species	2018
Domestic deforestation	0.11	%	91.7	●	↓	4.02×10^{3}	hectares	2020
Spillover deforestation	2.01×10^{-3}	ha/capita	72.6	●	↓	2.16×10^{4}	hectares	2018
Red List Index of species survival	0.83	scale 0 to 1	52.4	●	↓	0.83	scale 0 to 1	2021
Biodiversity Habitat Index	0.34	scale 0 to 1	7.4	●	●	0.34	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	6.53×10^{-7}	WOE/million	100.0	●	●	7.00	WOE	2019
Spillover endangered terrestrial animals	1.32×10^{-3}	WOE/capita	84.6	●	●	1.41×10^{4}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	8.89×10^{-5}	WOE/capita	94.3	●	●	9.53×10^{2}	WOE	2019
Unprotected marine biodiversity sites	85.52	%	15.3	●	↓	85.52	%	2020
Domestic marine biodiversity threats	1.43	spp./million	25.0	●	●	15.02	species	2018
Spillover marine biodiversity threats	0.19	spp./million	22.7	●	●	1.95	species	2018
Fish caught from overexploited or collapsed stocks	62.48	%	1.0	●	→	62.48	%	2018
Fish caught by trawling	37.29	%	39.0	●	↓	37.29	%	2018
Domestic vulnerable fisheries catch	12.93	tonnes/capita	34.8	●	↓	0.14	Tg	2018
Spillover vulnerable fisheries catch	14.67	tonnes/capita	27.8	●	→	0.16	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.64	scale 0 to 1.4	45.5	●	↓	0.64	scale 0 to 1.4	2015
Domestic nitrogen surplus	10.41	kg/capita	71.4	●	↗	112.65	Gg	2015
Spillover nitrogen surplus	10.65	kg/capita	15.1	●	→	115.22	Tg	2015
Domestic phosphorus fertilizer	5.53	kg/capita	46.7	●	↓	59.33	kt	2018
Spillover phosphorus fertilizer	4.17	g/capita	25.0	●	↓	44.78	kt	2018
Water Cycle								
Domestic scarce water consumption	317.89	m^3 H_2O-eq./capita	1.0	●	↓	3,411.91	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	12.31	m^3 H_2O-eq./capita	76.9	●	↓	28.08	Mm^3 H_2O-eq.	2018
Domestic water stress	15.51	ML H_2O-eq./capita	1.0	●	↓	166.51	Bm^3 H_2O-eq.	2018
Spillover water stress	0.71	m^3 H_2O-eq./capita	67.0	●	↓	1.62	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Guatemala

Latin America and Caribbean

Land area	107,160 sq. km	**Population**	16.9 million
GDP (PPP, constant 2017 US$, billions)	$141.5	**GDP per capita**	$8,393
Human Development Index (HDI)	0.627	**HDI category**	Medium

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	59.9 /100	→
ABSOLUTE	●	60.8 /100	→

Impacts by pillar and sub-pillar

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Trajectories

Based on 5-year growth rates

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- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Guatemala

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	5.11	kg/capita	59.3	●	↗	83.57	Gg	2018
Spillover SO_2 emissions	2.01	kg/capita	71.7	●	↑	31.23	Gg	2015
Domestic NO_X emissions	9.36	kg/capita	90.9	●	↓	153.03	Gg	2018
Spillover NO_X emissions	2.16	kg/capita	67.4	●	→	33.63	Gg	2015
Domestic black carbon emissions	1.01	kg/capita	17.3	●	↓	16.56	Gg	2018
Spillover black carbon emissions	0.08	kg/capita	71.9	●	↗	1.20	Gg	2015
GHG Emissions								
Domestic GHG emissions	4.95	t CO_2e/capita	64.8	●	↓	82.20	Tg	2019
Spillover GHG emissions	1.18	t CO_2e/capita	70.1	●	↓	19.32	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.04	t CO_2e/capita	33.0	●	●	0.65	Tg	2021
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	29.98	%	72.0	●	↓	29.98	%	2020
Unprotected freshwater biodiversity sites	24.82	%	78.7	●	↓	24.82	%	2020
Domestic land use related biodiversity loss	2.27×10^{-11}	global PDF/capita	69.9	●	→	3.70×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	4.52×10^{-12}	global PDF/capita	76.0	●	↓	7.39×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.19	spp./million	46.7	●	●	3.30	species	2018
Spillover freshwater biodiversity threats	0.01	spp./million	75.3	●	●	0.18	species	2018
Domestic deforestation	1.19	%	10.4	●	↓	8.40×10^{4}	hectares	2020
Spillover deforestation	7.89×10^{-4}	ha/capita	90.5	●	↓	1.29×10^{4}	hectares	2018
Red List Index of species survival	0.72	scale 0 to 1	15.8	●	↓	0.72	scale 0 to 1	2021
Biodiversity Habitat Index	0.42	scale 0 to 1	19.7	●	●	0.42	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	48.69	%	51.8	●	↓	48.69	%	2020
Domestic marine biodiversity threats	0.27	spp./million	48.1	●	●	4.67	species	2018
Spillover marine biodiversity threats	0.07	spp./million	34.5	●	●	1.28	species	2018
Fish caught from overexploited or collapsed stocks	8.57	%	86.4	●	↑	8.57	%	2018
Fish caught by trawling	24.43	%	60.2	●	↓	24.43	%	2018
Domestic vulnerable fisheries catch	2.84	tonnes/capita	54.7	●	↗	0.05	Tg	2018
Spillover vulnerable fisheries catch	3.40	tonnes/capita	52.2	●	↓	0.06	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.99	scale 0 to 1.4	15.2	●	↓	0.99	scale 0 to 1.4	2015
Domestic nitrogen surplus	13.33	kg/capita	63.0	●	→	207.52	Gg	2015
Spillover nitrogen surplus	1.26	kg/capita	55.5	●	→	19.65	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	1.73	g/capita	52.3	●	→	28.26	kt	2018
Water Cycle								
Domestic scarce water consumption	0.38	m^3 H_2O-eq./capita	73.0	●	↗	6.29	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	50.64	m^3 H_2O-eq./capita	40.1	●	↓	543.48	Mm^3 H_2O-eq.	2018
Domestic water stress	0.03	ML H_2O-eq./capita	81.7	●	↗	0.49	Bm^3 H_2O-eq.	2018
Spillover water stress	2.65	m^3 H_2O-eq./capita	33.0	●	↓	28.44	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Guinea

Africa

Land area	**245,720 sq. km**	**Population**	**13.1 million**
GDP (PPP, constant 2017 US$, billions)	**$35.1**	**GDP per capita**	**$2,671**
Human Development Index (HDI)	**0.465**	**HDI category**	**Low**

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		74.9 /100	
ABSOLUTE		73.9 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Guinea

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	1.52	kg/capita	87.1			18.91	Gg	2018
Spillover SO_2 emissions	0.95	kg/capita	92.3			10.88	Gg	2015
Domestic NO_X emissions	3.57	kg/capita	100.0			44.37	Gg	2018
Spillover NO_X emissions	0.91	kg/capita	90.4			10.39	Gg	2015
Domestic black carbon emissions	0.79	kg/capita	37.0			9.86	Gg	2018
Spillover black carbon emissions	0.04	kg/capita	92.5			0.42	Gg	2015
GHG Emissions								
Domestic GHG emissions	3.82	t CO_2e/capita	74.9			48.73	Tg	2019
Spillover GHG emissions	0.60	t CO_2e/capita	88.9			7.50	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA			NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	69.79	%	31.6			69.79	%	2020
Unprotected freshwater biodiversity sites	90.42	%	10.9			90.42	%	2020
Domestic land use related biodiversity loss	2.06×10^{-12}	global PDF/capita	97.3			2.56×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	1.24×10^{-12}	global PDF/capita	95.6			1.54×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	1.35	spp./million	20.0			16.72	species	2018
Spillover freshwater biodiversity threats	0.00	spp./million	95.8			0.04	species	2018
Domestic deforestation	2.30	%	1.0			1.85×10^{5}	hectares	2020
Spillover deforestation	3.43×10^{-4}	ha/capita	97.1			4.26×10^{3}	hectares	2018
Red List Index of species survival	0.89	scale 0 to 1	70.5			0.89	scale 0 to 1	2021
Biodiversity Habitat Index	0.48	scale 0 to 1	28.5			0.48	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	1.57×10^{-7}	WOE/million	100.0			2.00	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0			0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0			0.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0			0.00	WOE	2019
Unprotected marine biodiversity sites	69.28	%	31.4			69.28	%	2020
Domestic marine biodiversity threats	0.45	spp./million	40.9			5.64	species	2018
Spillover marine biodiversity threats	0.00	spp./million	96.3			0.01	species	2018
Fish caught from overexploited or collapsed stocks	11.75	%	81.3			11.75	%	2018
Fish caught by trawling	25.36	%	58.6			25.36	%	2018
Domestic vulnerable fisheries catch	169.07	tonnes/capita	1.0			2.10	Tg	2018
Spillover vulnerable fisheries catch	1.22	tonnes/capita	69.3			0.02	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.87	scale 0 to 1.4	25.5			0.87	scale 0 to 1.4	2015
Domestic nitrogen surplus	4.17	kg/capita	89.4			47.70	Gg	2015
Spillover nitrogen surplus	0.15	kg/capita	95.9			1.72	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA			NA	kt	NA
Spillover phosphorus fertilizer	2.04	g/capita	47.2			25.31	kt	2018
Water Cycle								
Domestic scarce water consumption	2.74	m^3 H_2O-eq./capita	50.9			34.02	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	13.90	m^3 H_2O-eq./capita	73.7			227.22	Mm^3 H_2O-eq.	2018
Domestic water stress	0.45	ML H_2O-eq./capita	46.7			5.57	Bm^3 H_2O-eq.	2018
Spillover water stress	0.91	m^3 H_2O-eq./capita	60.7			14.86	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Haiti

Latin America and Caribbean

Land area	27,560 sq. km	**Population**	11.4 million
GDP (PPP, constant 2017 US$, billions)	$31.6	**GDP per capita**	$2,773
Human Development Index (HDI)	0.535	**HDI category**	Low

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	72.6 /100	→
ABSOLUTE	●	74.6 /100	↓

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories
Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Haiti

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	1.91	kg/capita	82.0			21.20	Gg	2018
Spillover SO_2 emissions	1.15	kg/capita	87.1			12.28	Gg	2015
Domestic NO_X emissions	4.42	kg/capita	100.0			49.21	Gg	2018
Spillover NO_X emissions	1.20	kg/capita	83.1			12.82	Gg	2015
Domestic black carbon emissions	0.83	kg/capita	34.1			9.19	Gg	2018
Spillover black carbon emissions	0.04	kg/capita	93.3			0.38	Gg	2015
GHG Emissions								
Domestic GHG emissions	2.41	t CO_2e/capita	92.7			27.18	Tg	2019
Spillover GHG emissions	0.78	t CO_2e/capita	81.8			8.68	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA			NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	29.41	%	72.5			29.41	%	2020
Unprotected freshwater biodiversity sites	0.00	%	100.0			0.00	%	2020
Domestic land use related biodiversity loss	2.54×10^{-11}	global PDF/capita	66.2			2.82×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	3.73×10^{-12}	global PDF/capita	80.7			4.15×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.07	spp./million	60.4			0.77	species	2018
Spillover freshwater biodiversity threats	0.00	spp./million	100.0			0.01	species	2018
Domestic deforestation	0.49	%	62.9			3.91×10^{3}	hectares	2020
Spillover deforestation	3.99×10^{-4}	ha/capita	96.3			4.44×10^{3}	hectares	2018
Red List Index of species survival	0.72	scale 0 to 1	16.4			0.72	scale 0 to 1	2021
Biodiversity Habitat Index	0.37	scale 0 to 1	12.8			0.37	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	NA	WOE/million	NA			NA	WOE	NA
Spillover endangered terrestrial animals	4.55×10^{-7}	WOE/capita	100.0			5.00	WOE	2017
Marine Biodiversity Loss								
Domestic export of endangered marine animals	1.50×10^{-3}	WOE/million	48.9			1.67×10^{4}	WOE	2018
Spillover endangered marine animals	NA	WOE/capita	NA			NA	WOE	NA
Unprotected marine biodiversity sites	29.34	%	71.0			29.34	%	2020
Domestic marine biodiversity threats	0.39	spp./million	42.8			4.39	species	2018
Spillover marine biodiversity threats	0.00	spp./million	76.0			0.03	species	2018
Fish caught from overexploited or collapsed stocks	7.69	%	87.8			7.69	%	2018
Fish caught by trawling	0.00	%	100.0			0.00	%	2018
Domestic vulnerable fisheries catch	3.86	tonnes/capita	50.7			0.04	Tg	2018
Spillover vulnerable fisheries catch	2.53	tonnes/capita	57.1			0.03	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.94	scale 0 to 1.4	19.2			0.94	scale 0 to 1.4	2015
Domestic nitrogen surplus	1.64	kg/capita	96.6			17.54	Gg	2015
Spillover nitrogen surplus	0.16	kg/capita	94.5			1.73	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA			NA	kt	NA
Spillover phosphorus fertilizer	1.33	g/capita	60.5			14.76	kt	2018
Water Cycle								
Domestic scarce water consumption	333.23	m^3 H_2O-eq./capita	1.0			3,706.53	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	24.75	m^3 H_2O-eq./capita	58.7			237.30	Mm^3 H_2O-eq.	2018
Domestic water stress	0.03	ML H_2O-eq./capita	82.5			0.31	Bm^3 H_2O-eq.	2018
Spillover water stress	1.35	m^3 H_2O-eq./capita	50.4			12.96	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Honduras

Latin America and Caribbean

Land area	**111,890 sq. km**	**Population**	**9.9 million**
GDP (PPP, constant 2017 US$, billions)	**$50.9**	**GDP per capita**	**$5,138**
Human Development Index (HDI)	**0.621**	**HDI category**	**Medium**

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		**68.0** /100	
ABSOLUTE		**72.4** /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Honduras

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	8.56	kg/capita	47.4	●	→	82.04	Gg	2018
Spillover SO_2 emissions	1.81	kg/capita	74.6	●	↑	16.49	Gg	2015
Domestic NO_X emissions	14.52	kg/capita	80.3	●	→	139.19	Gg	2018
Spillover NO_X emissions	2.04	kg/capita	69.0	●	↑	18.56	Gg	2015
Domestic black carbon emissions	0.69	kg/capita	46.2	●	↓	6.64	Gg	2018
Spillover black carbon emissions	0.07	kg/capita	75.9	●	↑	0.61	Gg	2015
GHG Emissions								
Domestic GHG emissions	3.48	t CO_2e/capita	78.5	●	↑	33.90	Tg	2019
Spillover GHG emissions	1.19	t CO_2e/capita	69.8	●	↓	11.46	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA	●	●	NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	72.34	%	29.0	●	↓	72.34	%	2020
Unprotected freshwater biodiversity sites	99.45	%	1.6	●	↓	99.45	%	2020
Domestic land use related biodiversity loss	2.74×10^{-11}	global PDF/capita	63.6	●	→	2.63×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	4.70×10^{-12}	global PDF/capita	74.9	●	↓	4.51×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.16	spp./million	49.5	●	●	1.49	species	2018
Spillover freshwater biodiversity threats	0.02	spp./million	68.6	●	●	0.15	species	2018
Domestic deforestation	1.08	%	18.7	●	↓	8.18×10^{4}	hectares	2020
Spillover deforestation	8.46×10^{-4}	ha/capita	89.7	●	↓	8.11×10^{3}	hectares	2018
Red List Index of species survival	0.74	scale 0 to 1	23.8	●	↓	0.74	scale 0 to 1	2021
Biodiversity Habitat Index	0.44	scale 0 to 1	22.7	●	●	0.44	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	2.05×10^{-7}	WOE/million	100.0	●	●	2.00	WOE	2019
Spillover endangered terrestrial animals	1.44×10^{-6}	WOE/capita	100.0	●	●	1.40×10	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	1.03×10^{-6}	WOE/capita	99.9	●	●	1.00×10	WOE	2019
Unprotected marine biodiversity sites	41.01	%	59.4	●	↓	41.01	%	2020
Domestic marine biodiversity threats	1.29	spp./million	26.4	●	●	12.40	species	2018
Spillover marine biodiversity threats	0.14	spp./million	26.7	●	●	1.31	species	2018
Fish caught from overexploited or collapsed stocks	13.59	%	78.3	●	→	13.59	%	2018
Fish caught by trawling	0.00	%	100.0	●	↓	0.00	%	2018
Domestic vulnerable fisheries catch	1.92	tonnes/capita	59.8	●	↗	0.02	Tg	2018
Spillover vulnerable fisheries catch	1.64	tonnes/capita	64.4	●	↑	0.02	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	1.04	scale 0 to 1.4	10.7	●	→	1.04	scale 0 to 1.4	2015
Domestic nitrogen surplus	6.48	kg/capita	82.7	●	↑	59.02	Gg	2015
Spillover nitrogen surplus	1.51	kg/capita	52.1	●	→	13.77	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	1.59	g/capita	55.0	●	↑	15.21	kt	2018
Water Cycle								
Domestic scarce water consumption	1.14	m^3 H_2O-eq./capita	60.8	●	↗	10.88	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	35.79	m^3 H_2O-eq./capita	49.1	●	↓	146.29	Mm^3 H_2O-eq.	2018
Domestic water stress	0.10	ML H_2O-eq./capita	66.6	●	↗	0.92	Bm^3 H_2O-eq.	2018
Spillover water stress	1.28	m^3 H_2O-eq./capita	51.7	●	↓	5.25	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Hungary

OECD Member

Land area	91,260 sq. km	**Population**	9.7 million
GDP (PPP, constant 2017 US$, billions)	$302.3	**GDP per capita**	$31,008
Human Development Index (HDI)	0.846	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		37.0 /100	↓
ABSOLUTE		55.1 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Hungary

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	9.11	kg/capita	46.0			89.04	Gg	2018
Spillover SO_2 emissions	6.79	kg/capita	38.1			66.80	Gg	2015
Domestic NO_X emissions	13.40	kg/capita	82.6			131.01	Gg	2018
Spillover NO_X emissions	7.61	kg/capita	34.0			74.93	Gg	2015
Domestic black carbon emissions	0.59	kg/capita	55.7			5.75	Gg	2018
Spillover black carbon emissions	0.19	kg/capita	46.7			1.88	Gg	2015
GHG Emissions								
Domestic GHG emissions	8.55	t CO_2e/capita	43.6			83.58	Tg	2019
Spillover GHG emissions	4.89	t CO_2e/capita	30.3			47.76	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.44	t CO_2e/capita	21.9			4.26	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	82.81	%	18.4			82.81	%	2020
Unprotected freshwater biodiversity sites	84.84	%	16.7			84.84	%	2020
Domestic land use related biodiversity loss	2.72×10^{-12}	global PDF/capita	96.4			2.66×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	3.10×10^{-12}	global PDF/capita	84.5			3.04×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.28	spp./million	41.3			2.76	species	2018
Spillover freshwater biodiversity threats	0.07	spp./million	44.0			0.64	species	2018
Domestic deforestation	0.65	%	51.1			1.30×10^{4}	hectares	2020
Spillover deforestation	1.32×10^{-3}	ha/capita	82.7			1.29×10^{4}	hectares	2018
Red List Index of species survival	0.86	scale 0 to 1	61.8			0.86	scale 0 to 1	2021
Biodiversity Habitat Index	0.25	scale 0 to 1	1.0			0.25	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0			0.00	WOE	2019
Spillover endangered terrestrial animals	2.36×10^{-4}	WOE/capita	97.2			2.30×10^{3}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	NA	WOE/million	NA			NA	WOE	NA
Spillover endangered marine animals	1.66×10^{-4}	WOE/capita	89.4			1.63×10^{3}	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA			NA	%	NA
Domestic marine biodiversity threats	NA	spp./million	NA			NA	species	NA
Spillover marine biodiversity threats	0.03	spp./million	47.0			0.27	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA			NA	%	NA
Fish caught by trawling	NA	%	NA			NA	%	NA
Domestic vulnerable fisheries catch	NA	tonnes/capita	NA			NA	Tg	NA
Spillover vulnerable fisheries catch	5.98	tonnes/capita	42.8			0.06	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.35	scale 0 to 1.4	70.3			0.35	scale 0 to 1.4	2015
Domestic nitrogen surplus	17.26	kg/capita	51.6			169.93	Gg	2015
Spillover nitrogen surplus	3.45	kg/capita	36.4			33.99	Tg	2015
Domestic phosphorus fertilizer	11.98	kg/capita	26.0			117.15	kt	2018
Spillover phosphorus fertilizer	2.27	g/capita	43.9			22.19	kt	2018
Water Cycle								
Domestic scarce water consumption	0.67	m^3 H_2O-eq./capita	66.7			6.54	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	52.82	m^3 H_2O-eq./capita	39.0			587.50	Mm^3 H_2O-eq.	2018
Domestic water stress	0.04	ML H_2O-eq./capita	78.5			0.37	Bm^3 H_2O-eq.	2018
Spillover water stress	3.12	m^3 H_2O-eq./capita	28.8			34.72	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Iceland

OECD Member

Land area	100,830 sq. km	**Population**	0.4 million
GDP (PPP, constant 2017 US$, billions)	$19.2	**GDP per capita**	$52,381
Human Development Index (HDI)	0.959	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		9.5 /100	↓
ABSOLUTE		94.0 /100	↓

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

The Global Commons Stewardship Index is a production of the Sustainable Development Solutions Network, the Yale Center for Environmental Law & Policy, and the Center for Global Commons at the University of Tokyo.

Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Iceland

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	24.25	kg/capita	23.5	●	→	8.55	Gg	2018
Spillover SO_2 emissions	16.63	kg/capita	13.4	●	↓	5.50	Gg	2015
Domestic NO_X emissions	16.33	kg/capita	76.6	●	↓	5.76	Gg	2018
Spillover NO_X emissions	23.17	kg/capita	4.4	●	→	7.67	Gg	2015
Domestic black carbon emissions	0.38	kg/capita	74.7	●	↓	0.13	Gg	2018
Spillover black carbon emissions	0.72	kg/capita	10.1	●	↓	0.24	Gg	2015
GHG Emissions								
Domestic GHG emissions	13.38	t CO_2e/capita	26.3	●	→	4.82	Tg	2019
Spillover GHG emissions	13.55	t CO_2e/capita	1.6	●	↓	4.78	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA	●	●	NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	19.08	%	83.0	●	↓	19.08	%	2020
Unprotected freshwater biodiversity sites	35.85	%	67.3	●	↓	35.85	%	2020
Domestic land use related biodiversity loss	5.35×10^{-14}	global PDF/capita	100.0	●	↗	1.89×10^{-8}	global PDF	2018
Spillover land use related biodiversity loss	1.34×10^{-11}	global PDF/capita	22.6	●	→	4.73×10^{-6}	global PDF	2018
Domestic freshwater biodiversity threats	0.02	spp./million	78.3	●	●	0.01	species	2018
Spillover freshwater biodiversity threats	0.02	spp./million	64.9	●	●	0.01	species	2018
Domestic deforestation	NA	%	NA	●	●	NA	hectares	NA
Spillover deforestation	8.48×10^{-3}	ha/capita	1.0	●	↓	2.99×10^{3}	hectares	2018
Red List Index of species survival	0.87	scale 0 to 1	62.1	●	↓	0.87	scale 0 to 1	2021
Biodiversity Habitat Index	0.74	scale 0 to 1	64.8	●	●	0.74	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	5.55×10^{-6}	WOE/capita	99.9	●	●	2.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	8.32×10^{-6}	WOE/capita	99.5	●	●	3.00	WOE	2019
Unprotected marine biodiversity sites	15.21	%	84.9	●	↓	15.21	%	2020
Domestic marine biodiversity threats	10.71	spp./million	1.0	●	●	3.61	species	2018
Spillover marine biodiversity threats	0.00	spp./million	100.0	●	●	0.00	species	2018
Fish caught from overexploited or collapsed stocks	27.09	%	56.8	●	→	27.09	%	2018
Fish caught by trawling	25.99	%	57.6	●	↓	25.99	%	2018
Domestic vulnerable fisheries catch	3,405.32	tonnes/capita	1.0	●	→	1.20	Tg	2018
Spillover vulnerable fisheries catch	69.27	tonnes/capita	1.9	●	↓	0.02	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.64	scale 0 to 1.4	45.6	●	→	0.64	scale 0 to 1.4	2015
Domestic nitrogen surplus	0.02	kg/capita	100.0	●	↓	0.01	Gg	2015
Spillover nitrogen surplus	12.85	kg/capita	11.5	●	↓	4.25	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	5.82	g/capita	14.7	●	↓	2.05	kt	2018
Water Cycle								
Domestic scarce water consumption	0.87	m^3 H_2O-eq./capita	63.8	●	↓	0.31	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	31.01	m^3 H_2O-eq./capita	52.8	●	↓	303.16	Mm^3 H_2O-eq.	2018
Domestic water stress	0.06	ML H_2O-eq./capita	72.9	●	↓	0.02	Bm^3 H_2O-eq.	2018
Spillover water stress	1.31	m^3 H_2O-eq./capita	51.3	●	↓	12.79	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

India

East and South Asia

Land area	2,973,190 sq. km	**Population**	1,380.0 million
GDP (PPP, constant 2017 US$, billions)	$8,443.4	**GDP per capita**	$6,118
Human Development Index (HDI)	0.633	**HDI category**	Medium

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		70.2 /100	
ABSOLUTE		7.1 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

India

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	9.02	kg/capita	46.2	●	↓	12,195.06	Gg	2018
Spillover SO_2 emissions	0.66	kg/capita	100.0	●	↑	863.56	Gg	2015
Domestic NO_X emissions	7.22	kg/capita	95.2	●	↓	9,768.12	Gg	2018
Spillover NO_X emissions	0.63	kg/capita	100.0	●	↑	830.81	Gg	2015
Domestic black carbon emissions	0.52	kg/capita	62.2	●	→	696.99	Gg	2018
Spillover black carbon emissions	0.03	kg/capita	100.0	●	↑	35.01	Gg	2015
GHG Emissions								
Domestic GHG emissions	3.52	t CO_2e/capita	78.1	●	↓	4,803.38	Tg	2019
Spillover GHG emissions	0.48	t CO_2e/capita	95.6	●	↓	643.83	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.00	t CO_2e/capita	48.2	●	●	1.91	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	20.72	%	81.4	●	↓	20.72	%	2020
Unprotected freshwater biodiversity sites	18.92	%	84.8	●	↓	18.92	%	2020
Domestic land use related biodiversity loss	2.54×10^{-12}	global PDF/capita	96.6	●	→	3.43×10^{-3}	global PDF	2018
Spillover land use related biodiversity loss	5.03×10^{-13}	global PDF/capita	100.0	●	↓	6.81×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	0.19	spp./million	46.8	●	●	256.62	species	2018
Spillover freshwater biodiversity threats	0.02	spp./million	68.3	●	●	21.01	species	2018
Domestic deforestation	0.37	%	72.1	●	↓	1.28×10^{5}	hectares	2020
Spillover deforestation	1.45×10^{-4}	ha/capita	100.0	●	↓	1.96×10^{5}	hectares	2018
Red List Index of species survival	0.67	scale 0 to 1	2.4	●	↓	0.67	scale 0 to 1	2021
Biodiversity Habitat Index	0.31	scale 0 to 1	3.1	●	●	0.31	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	3.66×10^{-9}	WOE/capita	100.0	●	●	5.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	3.01×10^{-6}	WOE/capita	99.8	●	●	4.11×10^{3}	WOE	2019
Unprotected marine biodiversity sites	19.18	%	81.0	●	↓	19.18	%	2020
Domestic marine biodiversity threats	0.06	spp./million	68.7	●	●	82.22	species	2018
Spillover marine biodiversity threats	0.00	spp./million	68.9	●	●	6.71	species	2018
Fish caught from overexploited or collapsed stocks	7.43	%	88.2	●	↓	7.43	%	2018
Fish caught by trawling	54.94	%	10.1	●	↓	54.94	%	2018
Domestic vulnerable fisheries catch	6.05	tonnes/capita	44.8	●	↓	8.18	Tg	2018
Spillover vulnerable fisheries catch	0.15	tonnes/capita	100.0	●	↑	0.21	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.89	scale 0 to 1.4	23.8	●	→	0.89	scale 0 to 1.4	2015
Domestic nitrogen surplus	15.11	kg/capita	57.8	●	↓	19,801.58	Gg	2015
Spillover nitrogen surplus	0.43	kg/capita	75.9	●	↓	565.71	Tg	2015
Domestic phosphorus fertilizer	5.15	kg/capita	48.6	●	↓	6,967.90	kt	2018
Spillover phosphorus fertilizer	0.20	g/capita	100.0	●	↓	270.02	kt	2018
Water Cycle								
Domestic scarce water consumption	281.48	m^3 H_2O-eq./capita	1.0	●	↓	380,747.41	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	25.92	m^3 H_2O-eq./capita	57.5	●	↓	6,937.13	Mm^3 H_2O-eq.	2018
Domestic water stress	6.27	ML H_2O-eq./capita	12.7	●	↓	8,483.66	Bm^3 H_2O-eq.	2018
Spillover water stress	0.44	m^3 H_2O-eq./capita	79.5	●	↓	117.59	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Indonesia

East and South Asia

Land area	1,877,519 sq. km	**Population**	273.5 million
GDP (PPP, constant 2017 US$, billions)	$3,130.5	**GDP per capita**	$11,445
Human Development Index (HDI)	0.705	**HDI category**	High

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		59.1 /100	
ABSOLUTE		19.1 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Indonesia

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	10.88	kg/capita	41.9	●	↓	2,911.88	Gg	2018
Spillover SO_2 emissions	1.40	kg/capita	81.7	●	↑	360.78	Gg	2015
Domestic NO_X emissions	10.27	kg/capita	89.0	●	↓	2,749.05	Gg	2018
Spillover NO_X emissions	1.40	kg/capita	78.9	●	↗	362.82	Gg	2015
Domestic black carbon emissions	0.73	kg/capita	43.0	●	↓	194.95	Gg	2018
Spillover black carbon emissions	0.07	kg/capita	76.4	●	↑	16.92	Gg	2015
GHG Emissions								
Domestic GHG emissions	5.16	t CO_2e/capita	63.2	●	↓	1,397.35	Tg	2019
Spillover GHG emissions	0.76	t CO_2e/capita	82.4	●	↗	204.44	Tg	2018
CO_2 emissions embodied in fossil fuel exports	3.12	t CO_2e/capita	13.0	●	●	853.69	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	25.91	%	76.1	●	↓	25.91	%	2020
Unprotected freshwater biodiversity sites	39.00	%	64.0	●	↓	39.00	%	2020
Domestic land use related biodiversity loss	1.80×10^{-11}	global PDF/capita	76.1	●	↓	4.82×10^{-3}	global PDF	2018
Spillover land use related biodiversity loss	1.29×10^{-12}	global PDF/capita	95.3	●	↓	3.45×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	0.32	spp./million	39.6	●	●	86.06	species	2018
Spillover freshwater biodiversity threats	0.02	spp./million	61.2	●	●	6.34	species	2018
Domestic deforestation	0.70	%	47.7	●	→	1.10×10^{6}	hectares	2020
Spillover deforestation	2.36×10^{-4}	ha/capita	98.7	●	↓	6.31×10^{4}	hectares	2018
Red List Index of species survival	0.76	scale 0 to 1	28.5	●	↓	0.76	scale 0 to 1	2021
Biodiversity Habitat Index	0.51	scale 0 to 1	32.8	●	●	0.51	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	9.50×10^{-3}	WOE/million	1.0	●	●	2.57×10^{6}	WOE	2019
Spillover endangered terrestrial animals	1.46×10^{-4}	WOE/capita	98.3	●	●	3.95×10^{4}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	7.20×10^{-4}	WOE/million	75.5	●	●	1.95×10^{5}	WOE	2019
Spillover endangered marine animals	2.96×10^{-7}	WOE/capita	100.0	●	●	8.00×10	WOE	2019
Unprotected marine biodiversity sites	25.53	%	74.7	●	↓	25.53	%	2020
Domestic marine biodiversity threats	1.32	spp./million	26.1	●	●	352.85	species	2018
Spillover marine biodiversity threats	0.02	spp./million	50.7	●	●	5.59	species	2018
Fish caught from overexploited or collapsed stocks	16.69	%	73.4	●	→	16.69	%	2018
Fish caught by trawling	38.26	%	37.4	●	↓	38.26	%	2018
Domestic vulnerable fisheries catch	47.50	tonnes/capita	17.7	●	→	12.72	Tg	2018
Spillover vulnerable fisheries catch	0.81	tonnes/capita	76.1	●	↑	0.22	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.69	scale 0 to 1.4	41.2	●	→	0.69	scale 0 to 1.4	2015
Domestic nitrogen surplus	8.38	kg/capita	77.2	●	→	2,164.22	Gg	2015
Spillover nitrogen surplus	1.17	kg/capita	56.9	●	↓	303.22	Tg	2015
Domestic phosphorus fertilizer	3.05	kg/capita	62.6	●	↓	816.68	kt	2018
Spillover phosphorus fertilizer	1.15	g/capita	64.9	●	↗	307.62	kt	2018
Water Cycle								
Domestic scarce water consumption	1.04	m^3 H_2O-eq./capita	61.8	●	↗	278.42	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	3.73	m^3 H_2O-eq./capita	100.0	●	↓	5,040.21	Mm^3 H_2O-eq.	2018
Domestic water stress	1.44	ML H_2O-eq./capita	31.7	●	→	385.51	Bm^3 H_2O-eq.	2018
Spillover water stress	0.15	m^3 H_2O-eq./capita	100.0	●	↓	201.03	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Iran

Middle East and North Africa

Land area	1,628,760 sq. km	**Population**	84.0 million
GDP (PPP, constant 2017 US$, billions)	$1,044.3	**GDP per capita**	$12,433
Human Development Index (HDI)	0.774	**HDI category**	High

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		39.6 /100	
ABSOLUTE		27.4 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories
Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Iran

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	7.65	kg/capita	50.0		↑	626.15	Gg	2018
Spillover SO_2 emissions	3.00	kg/capita	60.6		↑	235.67	Gg	2015
Domestic NO_X emissions	19.38	kg/capita	70.4		→	1,585.25	Gg	2018
Spillover NO_X emissions	2.98	kg/capita	58.9		↑	233.94	Gg	2015
Domestic black carbon emissions	0.14	kg/capita	96.1		↑	11.46	Gg	2018
Spillover black carbon emissions	0.11	kg/capita	61.9		↑	8.67	Gg	2015
GHG Emissions								
Domestic GHG emissions	11.01	t CO_2e/capita	33.8		↓	912.83	Tg	2019
Spillover GHG emissions	1.97	t CO_2e/capita	55.8		↓	160.80	Tg	2018
CO_2 emissions embodied in fossil fuel exports	4.73	t CO_2e/capita	11.1			386.64	Tg	2018
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	43.60	%	58.2		↓	43.60	%	2020
Unprotected freshwater biodiversity sites	36.66	%	66.4		↓	36.66	%	2020
Domestic land use related biodiversity loss	2.72×10^{-12}	global PDF/capita	96.4		→	2.23×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	5.51×10^{-12}	global PDF/capita	70.0		↓	4.51×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	0.21	spp./million	45.7			16.80	species	2018
Spillover freshwater biodiversity threats	0.02	spp./million	60.4			2.04	species	2018
Domestic deforestation	0.00	%	100.0		↑	4.52×10^{-1}	hectares	2020
Spillover deforestation	1.79×10^{-3}	ha/capita	75.8		↓	1.47×10^{5}	hectares	2018
Red List Index of species survival	0.84	scale 0 to 1	53.0		↓	0.84	scale 0 to 1	2021
Biodiversity Habitat Index	0.45	scale 0 to 1	23.3			0.45	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	6.03×10^{-8}	WOE/million	100.0			5.00	WOE	2019
Spillover endangered terrestrial animals	1.02×10^{-6}	WOE/capita	100.0			8.45×10	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0			0.00	WOE	2019
Spillover endangered marine animals	2.34×10^{-5}	WOE/capita	98.5			1.94×10^{3}	WOE	2019
Unprotected marine biodiversity sites	68.00	%	32.7		↓	68.00	%	2020
Domestic marine biodiversity threats	0.16	spp./million	55.3			13.16	species	2018
Spillover marine biodiversity threats	0.02	spp./million	53.8			1.34	species	2018
Fish caught from overexploited or collapsed stocks	14.43	%	77.0		→	14.43	%	2018
Fish caught by trawling	1.38	%	98.0		↑	1.38	%	2018
Domestic vulnerable fisheries catch	13.56	tonnes/capita	34.2		↓	1.11	Tg	2018
Spillover vulnerable fisheries catch	2.75	tonnes/capita	55.8		↓	0.23	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.85	scale 0 to 1.4	27.5		↓	0.85	scale 0 to 1.4	2015
Domestic nitrogen surplus	13.47	kg/capita	62.6		↓	1,057.30	Gg	2015
Spillover nitrogen surplus	1.17	kg/capita	57.0		↓	92.02	Tg	2015
Domestic phosphorus fertilizer	1.20	kg/capita	87.6		↑	97.97	kt	2018
Spillover phosphorus fertilizer	6.18	g/capita	12.8		↓	505.71	kt	2018
Water Cycle								
Domestic scarce water consumption	32.56	m^3 H_2O-eq./capita	23.1		→	2,663.05	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	68.60	m^3 H_2O-eq./capita	32.2		↓	333.92	Mm^3 H_2O-eq.	2018
Domestic water stress	22.57	ML H_2O-eq./capita	1.0		→	1,845.91	Bm^3 H_2O-eq.	2018
Spillover water stress	2.65	m^3 H_2O-eq./capita	33.0		↓	12.89	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Iraq

Middle East and North Africa

Land area	434,128 sq. km	**Population**	40.2 million
GDP (PPP, constant 2017 US$, billions)	$372.3	**GDP per capita**	$9,255
Human Development Index (HDI)	0.686	**HDI category**	Medium

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	45.8 /100	→
ABSOLUTE	●	44.6 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Iraq

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	36.84	kg/capita	13.8	●	→	1,415.78	Gg	2018
Spillover SO_2 emissions	4.59	kg/capita	48.9	●	→	163.14	Gg	2015
Domestic NO_X emissions	19.48	kg/capita	70.1	●	→	748.81	Gg	2018
Spillover NO_X emissions	5.26	kg/capita	43.8	●	↓	187.20	Gg	2015
Domestic black carbon emissions	0.17	kg/capita	93.1	●	↑	6.69	Gg	2018
Spillover black carbon emissions	0.15	kg/capita	53.8	●	↓	5.27	Gg	2015
GHG Emissions								
Domestic GHG emissions	8.99	t CO_2e/capita	41.7	●	↓	353.32	Tg	2019
Spillover GHG emissions	1.64	t CO_2e/capita	60.9	●	↑	63.18	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA	●	●	NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	5.58	%	96.7	●	↓	5.58	%	2020
Unprotected freshwater biodiversity sites	8.12	%	95.9	●	↓	8.12	%	2020
Domestic land use related biodiversity loss	4.78×10^{-13}	global PDF/capita	99.4	●	↗	1.84×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	3.69×10^{-12}	global PDF/capita	81.0	●	→	1.42×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	0.11	spp./million	54.4	●	●	4.18	species	2018
Spillover freshwater biodiversity threats	0.00	spp./million	88.7	●	●	0.17	species	2018
Domestic deforestation	0.00	%	100.0	●	●	0.00	hectares	2020
Spillover deforestation	5.27×10^{-4}	ha/capita	94.4	●	↓	2.03×10^{4}	hectares	2018
Red List Index of species survival	0.80	scale 0 to 1	41.2	●	↓	0.80	scale 0 to 1	2021
Biodiversity Habitat Index	0.51	scale 0 to 1	31.7	●	●	0.51	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	2.55×10^{-5}	WOE/capita	99.7	●	●	1.00×10^{3}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	4.16×10^{-5}	WOE/capita	97.3	●	●	1.63×10^{3}	WOE	2019
Unprotected marine biodiversity sites	0.00	%	100.0	●	●	0.00	%	2020
Domestic marine biodiversity threats	0.03	spp./million	77.3	●	●	1.25	species	2018
Spillover marine biodiversity threats	0.01	spp./million	67.6	●	●	0.21	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	7.35	%	88.2	●	↓	7.35	%	2018
Domestic vulnerable fisheries catch	0.35	tonnes/capita	82.3	●	↑	0.01	Tg	2018
Spillover vulnerable fisheries catch	4.91	tonnes/capita	46.1	●	↓	0.19	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.75	scale 0 to 1.4	35.7	●	→	0.75	scale 0 to 1.4	2015
Domestic nitrogen surplus	3.31	kg/capita	91.8	●	↗	117.92	Gg	2015
Spillover nitrogen surplus	0.68	kg/capita	67.3	●	↓	24.13	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	2.92	g/capita	36.1	●	→	112.13	kt	2018
Water Cycle								
Domestic scarce water consumption	239.09	m^3 H_2O-eq./capita	1.0	●	→	9,188.93	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	93.94	m^3 H_2O-eq./capita	24.0	●	→	7,684.39	Mm^3 H_2O-eq.	2018
Domestic water stress	8.72	ML H_2O-eq./capita	8.4	●	→	335.01	Bm^3 H_2O-eq.	2018
Spillover water stress	2.88	m^3 H_2O-eq./capita	30.9	●	↓	235.71	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Ireland

OECD Member

Land area	68,890 sq. km	**Population**	5.0 million
GDP (PPP, constant 2017 US$, billions)	$452.6	**GDP per capita**	$90,625
Human Development Index (HDI)	0.945	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		8.0 /100	
ABSOLUTE		55.8 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Ireland

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	6.60	kg/capita	53.4	●	↗	32.13	Gg	2018
Spillover SO_2 emissions	18.26	kg/capita	10.8	●	↓	85.86	Gg	2015
Domestic NO_X emissions	15.56	kg/capita	78.2	●	↓	75.75	Gg	2018
Spillover NO_X emissions	48.97	kg/capita	1.0	●	↓	230.24	Gg	2015
Domestic black carbon emissions	0.28	kg/capita	83.8	●	↗	1.35	Gg	2018
Spillover black carbon emissions	1.09	kg/capita	1.0	●	↓	5.14	Gg	2015
GHG Emissions								
Domestic GHG emissions	13.63	t CO_2e/capita	25.5	●	→	67.26	Tg	2019
Spillover GHG emissions	14.64	t CO_2e/capita	1.0	●	↓	71.26	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.03	t CO_2e/capita	34.3	●	●	0.15	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	80.68	%	20.6	●	↓	80.68	%	2020
Unprotected freshwater biodiversity sites	98.56	%	2.5	●	↓	98.56	%	2020
Domestic land use related biodiversity loss	1.43×10^{-12}	global PDF/capita	98.1	●	→	6.98×10^{-6}	global PDF	2018
Spillover land use related biodiversity loss	8.75×10^{-12}	global PDF/capita	50.6	●	↓	4.26×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.43	spp./million	35.5	●	●	2.09	species	2018
Spillover freshwater biodiversity threats	0.15	spp./million	30.0	●	●	0.73	species	2018
Domestic deforestation	0.53	%	60.3	●	↓	7.93×10^{3}	hectares	2020
Spillover deforestation	5.33×10^{-3}	ha/capita	24.0	●	↓	2.59×10^{4}	hectares	2018
Red List Index of species survival	0.92	scale 0 to 1	77.5	●	↓	0.92	scale 0 to 1	2021
Biodiversity Habitat Index	0.40	scale 0 to 1	16.8	●	●	0.40	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	2.03×10^{-7}	WOE/million	100.0	●	●	1.00	WOE	2019
Spillover endangered terrestrial animals	7.50×10^{-6}	WOE/capita	99.9	●	●	3.70×10	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	3.12×10^{-4}	WOE/capita	80.1	●	●	1.54×10^{3}	WOE	2019
Unprotected marine biodiversity sites	81.94	%	18.9	●	↓	81.94	%	2020
Domestic marine biodiversity threats	0.88	spp./million	31.7	●	●	4.23	species	2018
Spillover marine biodiversity threats	0.09	spp./million	31.5	●	●	0.45	species	2018
Fish caught from overexploited or collapsed stocks	25.15	%	59.9	●	→	25.15	%	2018
Fish caught by trawling	8.62	%	86.1	●	↗	8.62	%	2018
Domestic vulnerable fisheries catch	110.82	tonnes/capita	6.5	●	→	0.54	Tg	2018
Spillover vulnerable fisheries catch	22.48	tonnes/capita	20.7	●	↓	0.11	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.01	scale 0 to 1.4	100.0	●	↑	0.01	scale 0 to 1.4	2015
Domestic nitrogen surplus	8.56	kg/capita	76.7	●	→	40.27	Gg	2015
Spillover nitrogen surplus	14.79	kg/capita	8.8	●	↓	69.52	Tg	2015
Domestic phosphorus fertilizer	26.57	kg/capita	4.7	●	↓	129.34	kt	2018
Spillover phosphorus fertilizer	4.56	g/capita	22.2	●	↓	22.22	kt	2018
Water Cycle								
Domestic scarce water consumption	2.54	m^3 H_2O-eq./capita	51.8	●	↓	12.35	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	53.88	m^3 H_2O-eq./capita	38.5	●	↓	2,070.67	Mm^3 H_2O-eq.	2018
Domestic water stress	0.08	ML H_2O-eq./capita	68.2	●	↓	0.41	Bm^3 H_2O-eq.	2018
Spillover water stress	10.35	m^3 H_2O-eq./capita	1.0	●	↓	397.62	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Israel

OECD Member

Land area	21,640 sq. km	**Population**	9.2 million
GDP (PPP, constant 2017 US$, billions)	$353.4	**GDP per capita**	$38,341
Human Development Index (HDI)	0.919	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		23.7 /100	→
ABSOLUTE		52.3 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Israel

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	5.91	kg/capita	55.9	●	↗	52.52	Gg	2018
Spillover SO_2 emissions	14.51	kg/capita	17.1	●	→	121.59	Gg	2015
Domestic NO_X emissions	27.04	kg/capita	54.7	●	→	240.15	Gg	2018
Spillover NO_X emissions	14.82	kg/capita	16.3	●	→	124.22	Gg	2015
Domestic black carbon emissions	0.23	kg/capita	88.4	●	↑	2.01	Gg	2018
Spillover black carbon emissions	0.60	kg/capita	14.9	●	→	5.06	Gg	2015
GHG Emissions								
Domestic GHG emissions	9.38	t CO_2e/capita	40.0	●	→	84.93	Tg	2019
Spillover GHG emissions	9.48	t CO_2e/capita	11.7	●	↓	84.21	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.03	t CO_2e/capita	33.6	●	●	0.31	Tg	2019
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	17.05	%	85.1	●	↓	17.05	%	2020
Unprotected freshwater biodiversity sites	22.73	%	80.8	●	↓	22.73	%	2020
Domestic land use related biodiversity loss	1.64×10^{-12}	global PDF/capita	97.8	●	↓	1.46×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	1.67×10^{-11}	global PDF/capita	3.1	●	↓	1.48×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	0.39	spp./million	36.9	●	●	3.29	species	2018
Spillover freshwater biodiversity threats	0.18	spp./million	26.9	●	●	1.53	species	2018
Domestic deforestation	0.10	%	92.3	●	→	2.97×10	hectares	2020
Spillover deforestation	4.95×10^{-3}	ha/capita	29.4	●	↓	4.40×10^{4}	hectares	2018
Red List Index of species survival	0.72	scale 0 to 1	18.7	●	↓	0.72	scale 0 to 1	2021
Biodiversity Habitat Index	0.39	scale 0 to 1	15.7	●	●	0.39	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	2.21×10^{-7}	WOE/million	100.0	●	●	2.00	WOE	2019
Spillover endangered terrestrial animals	2.21×10^{-7}	WOE/capita	100.0	●	●	2.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	3.00×10^{-4}	WOE/capita	80.8	●	●	2.72×10^{3}	WOE	2019
Unprotected marine biodiversity sites	14.84	%	85.3	●	↓	14.84	%	2020
Domestic marine biodiversity threats	0.13	spp./million	58.5	●	●	1.06	species	2018
Spillover marine biodiversity threats	0.03	spp./million	45.5	●	●	0.26	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	48.69	%	20.3	●	→	48.69	%	2018
Domestic vulnerable fisheries catch	0.51	tonnes/capita	77.4	●	↑	0.00	Tg	2018
Spillover vulnerable fisheries catch	24.69	tonnes/capita	19.1	●	↓	0.22	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.87	scale 0 to 1.4	25.4	●	→	0.87	scale 0 to 1.4	2015
Domestic nitrogen surplus	5.21	kg/capita	86.4	●	→	43.64	Gg	2015
Spillover nitrogen surplus	9.80	kg/capita	16.7	●	→	82.08	Tg	2015
Domestic phosphorus fertilizer	0.69	kg/capita	100.0	●	↑	6.10	kt	2018
Spillover phosphorus fertilizer	7.67	g/capita	6.2	●	↓	68.13	kt	2018
Water Cycle								
Domestic scarce water consumption	0.92	m^3 H_2O-eq./capita	63.2	●	↗	8.17	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	77.43	m^3 H_2O-eq./capita	29.0	●	↓	27.31	Mm^3 H_2O-eq.	2018
Domestic water stress	5.01	ML H_2O-eq./capita	15.6	●	→	44.54	Bm^3 H_2O-eq.	2018
Spillover water stress	3.13	m^3 H_2O-eq./capita	28.7	●	↓	1.11	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Italy

OECD Member

Land area	297,730 sq. km	**Population**	59.6 million
GDP (PPP, constant 2017 US$, billions)	$2,322.1	**GDP per capita**	$38,992
Human Development Index (HDI)	0.895	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		34.1 /100	
ABSOLUTE		29.5 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Italy

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	3.25	kg/capita	69.7			196.56	Gg	2018
Spillover SO_2 emissions	8.58	kg/capita	31.6			520.89	Gg	2015
Domestic NO_X emissions	12.21	kg/capita	85.0			737.59	Gg	2018
Spillover NO_X emissions	9.84	kg/capita	27.2			597.48	Gg	2015
Domestic black carbon emissions	0.19	kg/capita	91.7			11.40	Gg	2018
Spillover black carbon emissions	0.32	kg/capita	32.3			19.57	Gg	2015
GHG Emissions								
Domestic GHG emissions	7.89	t CO_2e/capita	46.8			471.12	Tg	2019
Spillover GHG emissions	5.36	t CO_2e/capita	27.7			324.08	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.03	t CO_2e/capita	33.6			2.02	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	75.66	%	25.7			75.66	%	2020
Unprotected freshwater biodiversity sites	85.15	%	16.3			85.15	%	2020
Domestic land use related biodiversity loss	9.04×10^{-12}	global PDF/capita	88.0			5.46×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	7.49×10^{-12}	global PDF/capita	58.2			4.53×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	0.82	spp./million	26.8			49.81	species	2018
Spillover freshwater biodiversity threats	0.46	spp./million	11.4			27.75	species	2018
Domestic deforestation	0.40	%	70.0			3.77×10^{4}	hectares	2020
Spillover deforestation	2.70×10^{-3}	ha/capita	62.6			1.63×10^{5}	hectares	2018
Red List Index of species survival	0.89	scale 0 to 1	71.0			0.89	scale 0 to 1	2021
Biodiversity Habitat Index	0.31	scale 0 to 1	3.8			0.31	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	7.20×10^{-7}	WOE/million	100.0			4.30×10	WOE	2019
Spillover endangered terrestrial animals	1.43×10^{-2}	WOE/capita	1.0			8.52×10^{5}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0			0.00	WOE	2019
Spillover endangered marine animals	1.21×10^{-3}	WOE/capita	22.7			7.22×10^{4}	WOE	2019
Unprotected marine biodiversity sites	76.00	%	24.8			76.00	%	2020
Domestic marine biodiversity threats	0.30	spp./million	46.8			17.98	species	2018
Spillover marine biodiversity threats	0.30	spp./million	16.5			18.22	species	2018
Fish caught from overexploited or collapsed stocks	52.30	%	16.5			52.30	%	2018
Fish caught by trawling	46.35	%	24.2			46.35	%	2018
Domestic vulnerable fisheries catch	4.35	tonnes/capita	49.1			0.26	Tg	2018
Spillover vulnerable fisheries catch	21.70	tonnes/capita	21.3			1.31	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.59	scale 0 to 1.4	50.1			0.59	scale 0 to 1.4	2015
Domestic nitrogen surplus	9.02	kg/capita	75.4			547.53	Gg	2015
Spillover nitrogen surplus	10.73	kg/capita	14.9			651.89	Tg	2015
Domestic phosphorus fertilizer	2.71	kg/capita	65.8			163.79	kt	2018
Spillover phosphorus fertilizer	3.64	g/capita	29.2			220.19	kt	2018
Water Cycle								
Domestic scarce water consumption	14.90	m^3 H_2O-eq./capita	31.9			900.04	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	105.16	m^3 H_2O-eq./capita	21.1			934.13	Mm^3 H_2O-eq.	2018
Domestic water stress	1.87	ML H_2O-eq./capita	28.3			113.07	Bm^3 H_2O-eq.	2018
Spillover water stress	4.04	m^3 H_2O-eq./capita	22.1			35.91	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Jamaica

Latin America and Caribbean

Land area	10,830 sq. km	**Population**	3.0 million
GDP (PPP, constant 2017 US$, billions)	$25.9	**GDP per capita**	$8,742
Human Development Index (HDI)	0.709	**HDI category**	High

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		59.1 /100	
ABSOLUTE		83.2 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Jamaica

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	26.46	kg/capita	21.5	●	↓	77.66	Gg	2018
Spillover SO_2 emissions	3.01	kg/capita	60.5	●	↑	8.71	Gg	2015
Domestic NO_X emissions	22.36	kg/capita	64.3	●	↓	65.61	Gg	2018
Spillover NO_X emissions	3.74	kg/capita	52.9	●	→	10.81	Gg	2015
Domestic black carbon emissions	0.45	kg/capita	68.3	●	↑	1.32	Gg	2018
Spillover black carbon emissions	0.13	kg/capita	58.3	●	↑	0.36	Gg	2015
GHG Emissions								
Domestic GHG emissions	3.80	t CO_2e/capita	75.1	●	↓	11.20	Tg	2019
Spillover GHG emissions	1.84	t CO_2e/capita	57.7	●	↗	5.39	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.00	t CO_2e/capita	91.5	●	●	0.00	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	21.92	%	80.1	●	↓	21.92	%	2020
Unprotected freshwater biodiversity sites	27.77	%	75.6	●	↓	27.77	%	2020
Domestic land use related biodiversity loss	5.30×10^{-11}	global PDF/capita	29.5	●	→	1.55×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	7.05×10^{-12}	global PDF/capita	60.8	●	→	2.07×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.07	spp./million	59.6	●	●	0.22	species	2018
Spillover freshwater biodiversity threats	0.05	spp./million	49.1	●	●	0.14	species	2018
Domestic deforestation	0.28	%	78.9	●	→	2.13×10^{3}	hectares	2020
Spillover deforestation	2.13×10^{-3}	ha/capita	70.8	●	↓	6.26×10^{3}	hectares	2018
Red List Index of species survival	0.66	scale 0 to 1	1.0	●	↓	0.66	scale 0 to 1	2021
Biodiversity Habitat Index	0.39	scale 0 to 1	15.1	●	●	0.39	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	26.60	%	73.7	●	↓	26.60	%	2020
Domestic marine biodiversity threats	1.45	spp./million	24.8	●	●	4.25	species	2018
Spillover marine biodiversity threats	0.25	spp./million	19.1	●	●	0.72	species	2018
Fish caught from overexploited or collapsed stocks	33.05	%	47.3	●	→	33.05	%	2018
Fish caught by trawling	0.00	%	100.0	●	●	0.00	%	2018
Domestic vulnerable fisheries catch	19.18	tonnes/capita	29.6	●	→	0.06	Tg	2018
Spillover vulnerable fisheries catch	17.22	tonnes/capita	25.1	●	→	0.05	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	1.06	scale 0 to 1.4	8.7	●	→	1.06	scale 0 to 1.4	2015
Domestic nitrogen surplus	3.13	kg/capita	92.4	●	↗	9.04	Gg	2015
Spillover nitrogen surplus	2.02	kg/capita	46.6	●	↓	5.83	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	2.53	g/capita	40.6	●	→	7.41	kt	2018
Water Cycle								
Domestic scarce water consumption	4.57	m^3 H_2O-eq./capita	45.2	●	↗	13.43	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	69.41	m^3 H_2O-eq./capita	31.9	●	→	4,193.74	Mm^3 H_2O-eq.	2018
Domestic water stress	0.09	ML H_2O-eq./capita	66.8	●	↗	0.28	Bm^3 H_2O-eq.	2018
Spillover water stress	2.54	m^3 H_2O-eq./capita	34.1	●	↑	153.58	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Japan

OECD Member

Land area	364,500 sq. km	**Population**	125.8 million
GDP (PPP, constant 2017 US$, billions)	$4,997.7	**GDP per capita**	$39,716
Human Development Index (HDI)	0.925	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		30.1 /100	→
ABSOLUTE		16.5 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

The Global Commons Stewardship Index is a production of the Sustainable Development Solutions Network, the Yale Center for Environmental Law & Policy, and the Center for Global Commons at the University of Tokyo.

Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Japan

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	7.68	kg/capita	49.9	●	→	971.94	Gg	2018
Spillover SO_2 emissions	10.90	kg/capita	25.0	●	→	1,385.41	Gg	2015
Domestic NO_X emissions	15.31	kg/capita	78.7	●	↑	1,937.00	Gg	2018
Spillover NO_X emissions	11.59	kg/capita	22.8	●	→	1,473.10	Gg	2015
Domestic black carbon emissions	0.19	kg/capita	91.5	●	↑	24.19	Gg	2018
Spillover black carbon emissions	0.44	kg/capita	23.4	●	→	56.54	Gg	2015
GHG Emissions								
Domestic GHG emissions	10.25	t CO_2e/capita	36.6	●	→	1,294.79	Tg	2019
Spillover GHG emissions	6.72	t CO_2e/capita	21.3	●	→	850.46	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.00	t CO_2e/capita	54.3	●	●	0.05	Tg	2021
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	65.10	%	36.4	●	↓	65.10	%	2020
Unprotected freshwater biodiversity sites	64.41	%	37.8	●	↓	64.41	%	2020
Domestic land use related biodiversity loss	2.57×10^{-12}	global PDF/capita	96.6	●	→	3.25×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	1.16×10^{-11}	global PDF/capita	33.6	●	↓	1.47×10^{-3}	global PDF	2018
Domestic freshwater biodiversity threats	0.14	spp./million	50.7	●	●	18.10	species	2018
Spillover freshwater biodiversity threats	0.59	spp./million	7.0	●	●	75.50	species	2018
Domestic deforestation	0.18	%	86.3	●	↓	4.78×10^{4}	hectares	2020
Spillover deforestation	3.18×10^{-3}	ha/capita	55.4	●	↓	4.03×10^{5}	hectares	2018
Red List Index of species survival	0.76	scale 0 to 1	31.1	●	↓	0.76	scale 0 to 1	2021
Biodiversity Habitat Index	0.44	scale 0 to 1	22.6	●	●	0.44	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	5.31×10^{-7}	WOE/million	100.0	●	●	6.70×10	WOE	2019
Spillover endangered terrestrial animals	8.82×10^{-4}	WOE/capita	89.7	●	●	1.11×10^{5}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	9.50×10^{-8}	WOE/million	100.0	●	●	1.20×10	WOE	2019
Spillover endangered marine animals	3.01×10^{-4}	WOE/capita	80.7	●	●	3.81×10^{4}	WOE	2019
Unprotected marine biodiversity sites	67.08	%	33.6	●	↓	67.08	%	2020
Domestic marine biodiversity threats	0.95	spp./million	30.6	●	●	121.30	species	2018
Spillover marine biodiversity threats	1.01	spp./million	1.0	●	●	128.75	species	2018
Fish caught from overexploited or collapsed stocks	60.92	%	2.7	●	↓	60.92	%	2018
Fish caught by trawling	10.36	%	83.3	●	↑	10.36	%	2018
Domestic vulnerable fisheries catch	62.42	tonnes/capita	14.1	●	→	7.90	Tg	2018
Spillover vulnerable fisheries catch	47.77	tonnes/capita	8.1	●	→	6.04	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.59	scale 0 to 1.4	49.8	●	→	0.59	scale 0 to 1.4	2015
Domestic nitrogen surplus	2.87	kg/capita	93.1	●	↓	364.60	Gg	2015
Spillover nitrogen surplus	12.01	kg/capita	12.8	●	↓	1,526.42	Tg	2015
Domestic phosphorus fertilizer	2.67	kg/capita	66.1	●	↗	338.10	kt	2018
Spillover phosphorus fertilizer	5.77	g/capita	15.0	●	→	729.75	kt	2018
Water Cycle								
Domestic scarce water consumption	0.55	m^3 H_2O-eq./capita	68.9	●	↗	69.88	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	28.82	m^3 H_2O-eq./capita	54.7	●	↓	84.57	Mm^3 H_2O-eq.	2018
Domestic water stress	0.01	ML H_2O-eq./capita	92.8	●	↓	1.60	Bm^3 H_2O-eq.	2018
Spillover water stress	2.58	m^3 H_2O-eq./capita	33.7	●	↓	7.57	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Jordan

Middle East and North Africa

Land area	88,780 sq. km	**Population**	10.2 million
GDP (PPP, constant 2017 US$, billions)	$100.2	**GDP per capita**	$9,817
Human Development Index (HDI)	0.720	**HDI category**	High

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		42.9 /100	
ABSOLUTE		61.2 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories
Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Jordan

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	7.35	kg/capita	50.9	●	↑	73.29	Gg	2018
Spillover SO_2 emissions	6.17	kg/capita	40.7	●	→	57.16	Gg	2015
Domestic NO_X emissions	8.62	kg/capita	92.4	●	↑	85.88	Gg	2018
Spillover NO_X emissions	5.80	kg/capita	41.2	●	→	53.77	Gg	2015
Domestic black carbon emissions	0.09	kg/capita	100.0	●	↑	0.88	Gg	2018
Spillover black carbon emissions	0.17	kg/capita	50.4	●	→	1.55	Gg	2015
GHG Emissions								
Domestic GHG emissions	3.50	t CO_2e/capita	78.2	●	↗	35.40	Tg	2019
Spillover GHG emissions	6.21	t CO_2e/capita	23.5	●	→	61.90	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.00	t CO_2e/capita	49.6	●	●	0.01	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	12.92	%	89.3	●	↓	12.92	%	2020
Unprotected freshwater biodiversity sites	18.68	%	85.0	●	↓	18.68	%	2020
Domestic land use related biodiversity loss	3.57×10^{-13}	global PDF/capita	99.5	●	↗	3.56×10^{-6}	global PDF	2018
Spillover land use related biodiversity loss	6.84×10^{-12}	global PDF/capita	62.0	●	→	6.82×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.38	spp./million	37.2	●	●	3.81	species	2018
Spillover freshwater biodiversity threats	0.04	spp./million	54.1	●	●	0.36	species	2018
Domestic deforestation	NA	%	NA	●	●	NA	hectares	NA
Spillover deforestation	1.51×10^{-3}	ha/capita	80.0	●	↓	1.50×10^{4}	hectares	2018
Red List Index of species survival	0.97	scale 0 to 1	92.9	●	↓	0.97	scale 0 to 1	2021
Biodiversity Habitat Index	0.54	scale 0 to 1	36.8	●	●	0.54	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	2.98×10^{-5}	WOE/million	99.7	●	●	3.01×10^{2}	WOE	2019
Spillover endangered terrestrial animals	8.57×10^{-5}	WOE/capita	99.0	●	●	8.66×10^{2}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	8.66×10^{-5}	WOE/capita	94.5	●	●	8.75×10^{2}	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic marine biodiversity threats	0.09	spp./million	63.3	●	●	0.89	species	2018
Spillover marine biodiversity threats	0.20	spp./million	21.5	●	●	2.03	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	0.00	%	100.0	●	●	0.00	%	2018
Domestic vulnerable fisheries catch	0.08	tonnes/capita	100.0	●	↑	0.00	Tg	2018
Spillover vulnerable fisheries catch	4.16	tonnes/capita	48.8	●	↗	0.04	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.65	scale 0 to 1.4	44.6	●	→	0.65	scale 0 to 1.4	2015
Domestic nitrogen surplus	3.49	kg/capita	91.3	●	↗	32.30	Gg	2015
Spillover nitrogen surplus	2.60	kg/capita	41.8	●	→	24.12	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	3.53	g/capita	30.2	●	↓	35.18	kt	2018
Water Cycle								
Domestic scarce water consumption	19.06	m^3 H_2O-eq./capita	29.1	●	→	189.91	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	80.84	m^3 H_2O-eq./capita	27.9	●	↑	805.59	Mm^3 H_2O-eq.	2018
Domestic water stress	1.79	ML H_2O-eq./capita	28.8	●	→	17.88	Bm^3 H_2O-eq.	2018
Spillover water stress	5.34	m^3 H_2O-eq./capita	14.9	●	↑	53.21	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Kazakhstan

Eastern Europe and Central Asia

Land area	2,699,700 sq. km	**Population**	18.8 million
GDP (PPP, constant 2017 US$, billions)	$475.2	**GDP per capita**	$25,337
Human Development Index (HDI)	0.811	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		24.4 /100	→
ABSOLUTE		38.9 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Kazakhstan

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	99.01	kg/capita	1.0	●	↓	1,809.64	Gg	2018
Spillover SO_2 emissions	6.25	kg/capita	40.4	●	→	109.60	Gg	2015
Domestic NO_X emissions	43.82	kg/capita	20.3	●	→	800.96	Gg	2018
Spillover NO_X emissions	6.69	kg/capita	37.4	●	→	117.31	Gg	2015
Domestic black carbon emissions	0.66	kg/capita	49.4	●	↓	12.03	Gg	2018
Spillover black carbon emissions	0.17	kg/capita	50.8	●	→	2.90	Gg	2015
GHG Emissions								
Domestic GHG emissions	16.96	t CO_2e/capita	17.1	●	↓	314.01	Tg	2019
Spillover GHG emissions	3.87	t CO_2e/capita	36.8	●	→	70.72	Tg	2018
CO_2 emissions embodied in fossil fuel exports	16.27	t CO_2e/capita	5.4	●	●	305.19	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	13.05	%	89.1	●	↓	13.05	%	2020
Unprotected freshwater biodiversity sites	10.03	%	93.9	●	↓	10.03	%	2020
Domestic land use related biodiversity loss	3.50×10^{-11}	global PDF/capita	53.5	●	→	6.39×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	2.20×10^{-12}	global PDF/capita	89.9	●	↓	4.02×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.55	spp./million	32.2	●	●	10.12	species	2018
Spillover freshwater biodiversity threats	0.03	spp./million	56.9	●	●	0.56	species	2018
Domestic deforestation	0.02	%	98.7	●	↓	8.00×10^{2}	hectares	2020
Spillover deforestation	9.20×10^{-4}	ha/capita	88.6	●	↓	1.68×10^{4}	hectares	2018
Red List Index of species survival	0.87	scale 0 to 1	62.6	●	↓	0.87	scale 0 to 1	2021
Biodiversity Habitat Index	0.49	scale 0 to 1	29.1	●	●	0.49	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	2.11×10^{-6}	WOE/million	100.0	●	●	3.90×10	WOE	2019
Spillover endangered terrestrial animals	1.73×10^{-6}	WOE/capita	100.0	●	●	3.20×10	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	NA	WOE/million	NA	●	●	NA	WOE	NA
Spillover endangered marine animals	9.18×10^{-6}	WOE/capita	99.4	●	●	1.70×10^{2}	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic marine biodiversity threats	NA	spp./million	NA	●	●	NA	species	NA
Spillover marine biodiversity threats	0.02	spp./million	52.4	●	●	0.34	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	NA	%	NA	●	●	NA	%	NA
Domestic vulnerable fisheries catch	NA	tonnes/capita	NA	●	●	NA	Tg	NA
Spillover vulnerable fisheries catch	5.49	tonnes/capita	44.2	●	→	0.10	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.77	scale 0 to 1.4	34.0	●	→	0.77	scale 0 to 1.4	2015
Domestic nitrogen surplus	0.48	kg/capita	100.0	●	↑	8.35	Gg	2015
Spillover nitrogen surplus	2.15	kg/capita	45.5	●	→	37.68	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	3.26	g/capita	32.6	●	→	59.63	kt	2018
Water Cycle								
Domestic scarce water consumption	1.30	m^3 H_2O-eq./capita	59.3	●	↓	23.80	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	50.96	m^3 H_2O-eq./capita	39.9	●	→	6,448.56	Mm^3 H_2O-eq.	2018
Domestic water stress	5.03	ML H_2O-eq./capita	15.5	●	↓	91.93	Bm^3 H_2O-eq.	2018
Spillover water stress	2.67	m^3 H_2O-eq./capita	32.8	●	→	338.15	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Kenya

Africa

Land area	569,140 sq. km	**Population**	53.8 million
GDP (PPP, constant 2017 US$, billions)	$226.9	**GDP per capita**	$4,220
Human Development Index (HDI)	0.575	**HDI category**	Medium

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		77.8 /100	
ABSOLUTE		54.4 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Kenya

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	1.46	kg/capita	88.1			75.08	Gg	2018
Spillover SO_2 emissions	1.12	kg/capita	87.8			53.60	Gg	2015
Domestic NO_X emissions	3.51	kg/capita	100.0			180.63	Gg	2018
Spillover NO_X emissions	0.97	kg/capita	88.8			46.33	Gg	2015
Domestic black carbon emissions	0.73	kg/capita	43.3			37.27	Gg	2018
Spillover black carbon emissions	0.07	kg/capita	74.2			3.39	Gg	2015
GHG Emissions								
Domestic GHG emissions	3.19	t CO_2e/capita	81.9			167.54	Tg	2019
Spillover GHG emissions	0.52	t CO_2e/capita	93.2			26.65	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA			NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	34.20	%	67.7			34.20	%	2020
Unprotected freshwater biodiversity sites	36.85	%	66.2			36.85	%	2020
Domestic land use related biodiversity loss	1.98×10^{-12}	global PDF/capita	97.4			1.02×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	9.57×10^{-13}	global PDF/capita	97.3			4.92×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.50	spp./million	33.6			25.63	species	2018
Spillover freshwater biodiversity threats	0.18	spp./million	27.1			9.27	species	2018
Domestic deforestation	0.48	%	64.3			1.59×10^{4}	hectares	2020
Spillover deforestation	8.74×10^{-4}	ha/capita	89.3			4.49×10^{4}	hectares	2018
Red List Index of species survival	0.79	scale 0 to 1	39.2			0.79	scale 0 to 1	2021
Biodiversity Habitat Index	0.37	scale 0 to 1	12.6			0.37	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	1.40×10^{-4}	WOE/million	98.5			7.38×10^{3}	WOE	2019
Spillover endangered terrestrial animals	1.90×10^{-8}	WOE/capita	100.0			1.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	2.66×10^{-7}	WOE/million	100.0			1.40×10	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0			0.00	WOE	2019
Unprotected marine biodiversity sites	43.10	%	57.3			43.10	%	2020
Domestic marine biodiversity threats	0.14	spp./million	57.0			7.29	species	2018
Spillover marine biodiversity threats	0.01	spp./million	58.9			0.56	species	2018
Fish caught from overexploited or collapsed stocks	22.16	%	64.7			22.16	%	2018
Fish caught by trawling	0.00	%	100.0			0.00	%	2018
Domestic vulnerable fisheries catch	0.85	tonnes/capita	70.6			0.04	Tg	2018
Spillover vulnerable fisheries catch	0.62	tonnes/capita	80.7			0.03	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.87	scale 0 to 1.4	25.4			0.87	scale 0 to 1.4	2015
Domestic nitrogen surplus	2.90	kg/capita	93.0			138.99	Gg	2015
Spillover nitrogen surplus	1.23	kg/capita	56.1			58.72	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA			NA	kt	NA
Spillover phosphorus fertilizer	0.54	g/capita	88.6			27.51	kt	2018
Water Cycle								
Domestic scarce water consumption	0.99	m^3 H_2O-eq./capita	62.4			50.84	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	155.33	m^3 H_2O-eq./capita	10.9			2,838.80	Mm^3 H_2O-eq.	2018
Domestic water stress	0.33	ML H_2O-eq./capita	50.9			16.75	Bm^3 H_2O-eq.	2018
Spillover water stress	5.49	m^3 H_2O-eq./capita	14.2			100.40	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Kuwait

Middle East and North Africa

Land area	17,820 sq. km	**Population**	4.3 million
GDP (PPP, constant 2017 US$, billions)	$191.5	**GDP per capita**	$44,847
Human Development Index (HDI)	0.831	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		3.8 /100	→
ABSOLUTE		48.6 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Kuwait

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	162.44	kg/capita	1.0	●	→	672.06	Gg	2018
Spillover SO_2 emissions	20.15	kg/capita	8.1	●	↓	77.28	Gg	2015
Domestic NO_X emissions	53.27	kg/capita	1.0	●	→	220.38	Gg	2018
Spillover NO_X emissions	20.42	kg/capita	7.8	●	↓	78.33	Gg	2015
Domestic black carbon emissions	0.40	kg/capita	72.8	●	↑	1.65	Gg	2018
Spillover black carbon emissions	0.71	kg/capita	10.2	●	↓	2.74	Gg	2015
GHG Emissions								
Domestic GHG emissions	34.77	t CO_2e/capita	1.0	●	→	146.26	Tg	2019
Spillover GHG emissions	12.54	t CO_2e/capita	3.8	●	↓	51.89	Tg	2018
CO_2 emissions embodied in fossil fuel exports	18.62	t CO_2e/capita	4.8	●	●	79.51	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	51.65	%	50.0	●	↓	51.65	%	2020
Unprotected freshwater biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic land use related biodiversity loss	1.82×10^{-14}	global PDF/capita	100.0	●	↑	7.53×10^{-8}	global PDF	2018
Spillover land use related biodiversity loss	1.77×10^{-11}	global PDF/capita	1.0	●	↓	7.33×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.00	spp./million	94.4	●	●	0.02	species	2018
Spillover freshwater biodiversity threats	0.69	spp./million	4.5	●	●	2.84	species	2018
Domestic deforestation	NA	%	NA	●	●	NA	hectares	NA
Spillover deforestation	2.26×10^{-3}	ha/capita	69.0	●	↓	9.34×10^{3}	hectares	2018
Red List Index of species survival	0.84	scale 0 to 1	53.0	●	↓	0.84	scale 0 to 1	2021
Biodiversity Habitat Index	0.53	scale 0 to 1	35.3	●	●	0.53	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	1.95×10^{-4}	WOE/capita	97.7	●	●	8.19×10^{2}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	1.14×10^{-3}	WOE/capita	27.3	●	●	4.79×10^{3}	WOE	2019
Unprotected marine biodiversity sites	32.08	%	68.2	●	↓	32.08	%	2020
Domestic marine biodiversity threats	0.11	spp./million	59.9	●	●	0.47	species	2018
Spillover marine biodiversity threats	0.37	spp./million	13.8	●	●	1.54	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	0.00	%	100.0	●	●	0.00	%	2018
Domestic vulnerable fisheries catch	12.73	tonnes/capita	35.0	●	→	0.05	Tg	2018
Spillover vulnerable fisheries catch	15.23	tonnes/capita	27.2	●	↓	0.06	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.69	scale 0 to 1.4	40.9	●	↓	0.69	scale 0 to 1.4	2015
Domestic nitrogen surplus	0.34	kg/capita	100.0	●	↑	1.29	Gg	2015
Spillover nitrogen surplus	43.64	kg/capita	1.0	●	→	167.39	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	7.48	g/capita	7.0	●	↓	30.93	kt	2018
Water Cycle								
Domestic scarce water consumption	1.84	m^3 H_2O-eq./capita	55.4	●	↗	7.62	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	3.07	m^3 H_2O-eq./capita	100.0	●	↓	19.43	Mm^3 H_2O-eq.	2018
Domestic water stress	0.35	ML H_2O-eq./capita	49.8	●	↗	1.46	Bm^3 H_2O-eq.	2018
Spillover water stress	0.45	m^3 H_2O-eq./capita	78.8	●	↓	2.85	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Kyrgyzstan

Eastern Europe and Central Asia

Land area	191,800 sq. km	**Population**	6.6 million
GDP (PPP, constant 2017 US$, billions)	$31.0	**GDP per capita**	$4,707
Human Development Index (HDI)	0.692	**HDI category**	Medium

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	74.6 /100	→
ABSOLUTE	●	78.4 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Kyrgyzstan

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	4.38	kg/capita	62.8	●	↑	27.69	Gg	2018
Spillover SO_2 emissions	0.55	kg/capita	100.0	●	↑	3.28	Gg	2015
Domestic NO_X emissions	4.87	kg/capita	100.0	●	↑	30.78	Gg	2018
Spillover NO_X emissions	1.29	kg/capita	81.2	●	↗	7.66	Gg	2015
Domestic black carbon emissions	0.10	kg/capita	99.5	●	↑	0.65	Gg	2018
Spillover black carbon emissions	0.02	kg/capita	100.0	●	↑	0.12	Gg	2015
GHG Emissions								
Domestic GHG emissions	3.33	t CO_2e/capita	80.2	●	↓	21.50	Tg	2019
Spillover GHG emissions	0.57	t CO_2e/capita	90.5	●	↓	3.62	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.22	t CO_2e/capita	25.1	●	●	1.44	Tg	2021
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	23.60	%	78.4	●	↓	23.60	%	2020
Unprotected freshwater biodiversity sites	35.40	%	67.7	●	↓	35.40	%	2020
Domestic land use related biodiversity loss	1.35×10^{-11}	global PDF/capita	82.1	●	→	8.52×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	3.94×10^{-13}	global PDF/capita	100.0	●	↑	2.49×10^{-6}	global PDF	2018
Domestic freshwater biodiversity threats	0.01	spp./million	89.0	●	●	0.04	species	2018
Spillover freshwater biodiversity threats	0.02	spp./million	68.2	●	●	0.10	species	2018
Domestic deforestation	0.00	%	100.0	●	↑	5.70×10^{-2}	hectares	2020
Spillover deforestation	7.61×10^{-5}	ha/capita	100.0	●	↓	4.81×10^{2}	hectares	2018
Red List Index of species survival	0.98	scale 0 to 1	98.3	●	↓	0.98	scale 0 to 1	2021
Biodiversity Habitat Index	0.47	scale 0 to 1	26.7	●	●	0.47	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	8.01×10^{-5}	WOE/million	99.2	●	●	5.17×10^{2}	WOE	2019
Spillover endangered terrestrial animals	4.65×10^{-7}	WOE/capita	100.0	●	●	3.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	NA	WOE/million	NA	●	●	NA	WOE	NA
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic marine biodiversity threats	0.00	spp./million	100.0	●	●	0.03	species	2018
Spillover marine biodiversity threats	0.00	spp./million	74.1	●	●	0.02	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	NA	%	NA	●	●	NA	%	NA
Domestic vulnerable fisheries catch	NA	tonnes/capita	NA	●	●	NA	Tg	NA
Spillover vulnerable fisheries catch	0.31	tonnes/capita	92.3	●	↑	0.00	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.64	scale 0 to 1.4	45.5	●	↓	0.64	scale 0 to 1.4	2015
Domestic nitrogen surplus	4.55	kg/capita	88.3	●	↓	27.08	Gg	2015
Spillover nitrogen surplus	0.73	kg/capita	66.0	●	↗	4.33	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	0.35	g/capita	100.0	●	↓	2.23	kt	2018
Water Cycle								
Domestic scarce water consumption	4.36	m^3 H_2O-eq./capita	45.7	●	↗	27.58	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	6.79	m^3 H_2O-eq./capita	92.4	●	↑	110.26	Mm^3 H_2O-eq.	2018
Domestic water stress	4.70	ML H_2O-eq./capita	16.4	●	→	29.73	Bm^3 H_2O-eq.	2018
Spillover water stress	0.22	m^3 H_2O-eq./capita	97.2	●	↓	3.60	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Laos

East and South Asia

Land area	230,800 sq. km	**Population**	7.3 million
GDP (PPP, constant 2017 US$, billions)	$56.8	**GDP per capita**	$7,806
Human Development Index (HDI)	0.607	**HDI category**	Medium

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	57.3 /100	→
ABSOLUTE	●	69.8 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Laos

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	19.16	kg/capita	28.9	●	↓	135.33	Gg	2018
Spillover SO_2 emissions	2.02	kg/capita	71.5	●	↓	13.64	Gg	2015
Domestic NO_X emissions	11.16	kg/capita	87.2	●	↓	78.80	Gg	2018
Spillover NO_X emissions	2.07	kg/capita	68.5	●	↓	13.98	Gg	2015
Domestic black carbon emissions	0.83	kg/capita	33.7	●	↓	5.87	Gg	2018
Spillover black carbon emissions	0.12	kg/capita	60.1	●	↓	0.79	Gg	2015
GHG Emissions								
Domestic GHG emissions	6.79	t CO_2e/capita	52.6	●	↓	48.68	Tg	2019
Spillover GHG emissions	1.31	t CO_2e/capita	67.3	●	→	9.22	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.06	t CO_2e/capita	31.0	●	●	0.44	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	44.04	%	57.7	●	↓	44.04	%	2020
Unprotected freshwater biodiversity sites	29.87	%	73.4	●	↓	29.87	%	2020
Domestic land use related biodiversity loss	2.55×10^{-11}	global PDF/capita	66.1	●	→	1.80×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	1.83×10^{-12}	global PDF/capita	92.1	●	↓	1.29×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	20.02	spp./million	1.0	●	●	141.34	species	2018
Spillover freshwater biodiversity threats	0.00	spp./million	95.8	●	●	0.02	species	2018
Domestic deforestation	1.89	%	1.0	●	↓	3.39×10^{5}	hectares	2020
Spillover deforestation	2.36×10^{-4}	ha/capita	98.7	●	↓	1.66×10^{3}	hectares	2018
Red List Index of species survival	0.81	scale 0 to 1	46.3	●	↓	0.81	scale 0 to 1	2021
Biodiversity Habitat Index	0.47	scale 0 to 1	26.5	●	●	0.47	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	NA	WOE/million	NA	●	●	NA	WOE	NA
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic marine biodiversity threats	0.07	spp./million	66.9	●	●	0.49	species	2018
Spillover marine biodiversity threats	0.00	spp./million	89.0	●	●	0.01	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	NA	%	NA	●	●	NA	%	NA
Domestic vulnerable fisheries catch	NA	tonnes/capita	NA	●	●	NA	Tg	NA
Spillover vulnerable fisheries catch	1.94	tonnes/capita	61.6	●	↑	0.01	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.44	scale 0 to 1.4	62.4	●	→	0.44	scale 0 to 1.4	2015
Domestic nitrogen surplus	4.77	kg/capita	87.6	●	↓	32.17	Gg	2015
Spillover nitrogen surplus	0.26	kg/capita	85.3	●	↓	1.78	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	1.02	g/capita	68.8	●	↗	7.17	kt	2018
Water Cycle								
Domestic scarce water consumption	3.68	m^3 H_2O-eq./capita	47.6	●	↓	26.02	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	85.88	m^3 H_2O-eq./capita	26.3	●	↑	4,431.90	Mm^3 H_2O-eq.	2018
Domestic water stress	0.19	ML H_2O-eq./capita	57.6	●	↗	1.37	Bm^3 H_2O-eq.	2018
Spillover water stress	3.92	m^3 H_2O-eq./capita	22.9	●	↗	202.39	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Latvia

OECD Member

Land area	62,090 sq. km	**Population**	1.9 million
GDP (PPP, constant 2017 US$, billions)	$56.9	**GDP per capita**	$29,932
Human Development Index (HDI)	0.863	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	29.1 /100	↓
ABSOLUTE	●	74.1 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

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Dashboard categories
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories
Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Latvia

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	2.20	kg/capita	78.6	●	↑	4.24	Gg	2018
Spillover SO_2 emissions	8.22	kg/capita	32.8	●	→	16.26	Gg	2015
Domestic NO_X emissions	13.68	kg/capita	82.0	●	↓	26.37	Gg	2018
Spillover NO_X emissions	11.38	kg/capita	23.3	●	→	22.50	Gg	2015
Domestic black carbon emissions	0.85	kg/capita	32.1	●	↓	1.64	Gg	2018
Spillover black carbon emissions	0.29	kg/capita	35.3	●	↓	0.57	Gg	2015
GHG Emissions								
Domestic GHG emissions	10.46	t CO_2e/capita	35.8	●	↓	20.01	Tg	2019
Spillover GHG emissions	7.22	t CO_2e/capita	19.3	●	↓	13.91	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.01	t CO_2e/capita	37.9	●	●	0.03	Tg	2021
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	97.24	%	3.8	●	↓	97.24	%	2020
Unprotected freshwater biodiversity sites	97.49	%	3.6	●	↓	97.49	%	2020
Domestic land use related biodiversity loss	2.13×10^{-12}	global PDF/capita	97.2	●	↓	4.11×10^{-6}	global PDF	2018
Spillover land use related biodiversity loss	4.93×10^{-12}	global PDF/capita	73.5	●	↓	9.50×10^{-6}	global PDF	2018
Domestic freshwater biodiversity threats	0.13	spp./million	52.0	●	●	0.25	species	2018
Spillover freshwater biodiversity threats	0.02	spp./million	61.0	●	●	0.05	species	2018
Domestic deforestation	1.39	%	1.0	●	↓	5.13×10^{4}	hectares	2020
Spillover deforestation	3.38×10^{-3}	ha/capita	52.5	●	↓	6.52×10^{3}	hectares	2018
Red List Index of species survival	0.99	scale 0 to 1	100.0	●	↓	0.99	scale 0 to 1	2021
Biodiversity Habitat Index	0.47	scale 0 to 1	26.8	●	●	0.47	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	5.23×10^{-7}	WOE/million	100.0	●	●	1.00	WOE	2019
Spillover endangered terrestrial animals	6.80×10^{-4}	WOE/capita	92.0	●	●	1.30×10^{3}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	96.19	%	4.8	●	↓	96.19	%	2020
Domestic marine biodiversity threats	0.02	spp./million	85.8	●	●	0.03	species	2018
Spillover marine biodiversity threats	0.00	spp./million	76.3	●	●	0.01	species	2018
Fish caught from overexploited or collapsed stocks	5.25	%	91.7	●	↑	5.25	%	2018
Fish caught by trawling	0.00	%	100.0	●	↓	0.00	%	2018
Domestic vulnerable fisheries catch	62.54	tonnes/capita	14.1	●	↓	0.12	Tg	2018
Spillover vulnerable fisheries catch	35.81	tonnes/capita	12.9	●	↓	0.07	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.56	scale 0 to 1.4	52.1	●	→	0.56	scale 0 to 1.4	2015
Domestic nitrogen surplus	22.51	kg/capita	36.5	●	↓	44.52	Gg	2015
Spillover nitrogen surplus	7.72	kg/capita	21.2	●	↓	15.26	Tg	2015
Domestic phosphorus fertilizer	13.64	kg/capita	22.5	●	↓	26.29	kt	2018
Spillover phosphorus fertilizer	5.89	g/capita	14.3	●	↓	11.36	kt	2018
Water Cycle								
Domestic scarce water consumption	8.18	m^3 H_2O-eq./capita	38.6	●	↓	15.76	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	187.67	m^3 H_2O-eq./capita	6.0	●	↓	776.44	Mm^3 H_2O-eq.	2018
Domestic water stress	0.03	ML H_2O-eq./capita	81.8	●	↓	0.06	Bm^3 H_2O-eq.	2018
Spillover water stress	12.27	m^3 H_2O-eq./capita	1.0	●	↓	50.78	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Lebanon

Middle East and North Africa

Land area	10,230 sq. km	**Population**	6.8 million
GDP (PPP, constant 2017 US$, billions)	$79.5	**GDP per capita**	$11,649
Human Development Index (HDI)	0.706	**HDI category**	High

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		44.4 /100	→
ABSOLUTE		66.9 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories
Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Lebanon

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	34.10	kg/capita	15.6	●	↓	233.92	Gg	2018
Spillover SO_2 emissions	6.72	kg/capita	38.4	●	→	43.92	Gg	2015
Domestic NO_X emissions	29.19	kg/capita	50.3	●	↓	200.19	Gg	2018
Spillover NO_X emissions	6.65	kg/capita	37.6	●	→	43.42	Gg	2015
Domestic black carbon emissions	0.18	kg/capita	92.3	●	↗	1.25	Gg	2018
Spillover black carbon emissions	0.22	kg/capita	42.9	●	→	1.44	Gg	2015
GHG Emissions								
Domestic GHG emissions	5.22	t CO_2e/capita	62.8	●	↓	35.78	Tg	2019
Spillover GHG emissions	4.41	t CO_2e/capita	33.1	●	→	30.26	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA	●	●	NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	12.34	%	89.8	●	↓	12.34	%	2020
Unprotected freshwater biodiversity sites	21.06	%	82.5	●	↓	21.06	%	2020
Domestic land use related biodiversity loss	2.58×10^{-12}	global PDF/capita	96.6	●	→	1.77×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	1.21×10^{-11}	global PDF/capita	30.5	●	↓	8.30×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.32	spp./million	39.7	●	●	2.19	species	2018
Spillover freshwater biodiversity threats	0.08	spp./million	40.3	●	●	0.56	species	2018
Domestic deforestation	0.60	%	54.9	●	↓	3.47×10^{2}	hectares	2020
Spillover deforestation	3.91×10^{-3}	ha/capita	44.7	●	↓	2.68×10^{4}	hectares	2018
Red List Index of species survival	0.93	scale 0 to 1	82.4	●	↓	0.93	scale 0 to 1	2021
Biodiversity Habitat Index	0.32	scale 0 to 1	5.9	●	●	0.32	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	1.46×10^{-7}	WOE/million	100.0	●	●	1.00	WOE	2019
Spillover endangered terrestrial animals	1.10×10^{-5}	WOE/capita	99.9	●	●	7.55×10	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	1.08×10^{-4}	WOE/capita	93.1	●	●	7.43×10^{2}	WOE	2019
Unprotected marine biodiversity sites	12.65	%	87.5	●	↓	12.65	%	2020
Domestic marine biodiversity threats	0.07	spp./million	67.5	●	●	0.45	species	2018
Spillover marine biodiversity threats	0.24	spp./million	19.6	●	●	1.62	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	0.00	%	100.0	●	●	0.00	%	2018
Domestic vulnerable fisheries catch	0.99	tonnes/capita	68.5	●	↑	0.01	Tg	2018
Spillover vulnerable fisheries catch	7.16	tonnes/capita	39.8	●	→	0.05	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.92	scale 0 to 1.4	21.3	●	↓	0.92	scale 0 to 1.4	2015
Domestic nitrogen surplus	3.01	kg/capita	92.7	●	↗	19.66	Gg	2015
Spillover nitrogen surplus	4.57	kg/capita	31.1	●	→	29.85	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	4.15	g/capita	25.2	●	↓	28.48	kt	2018
Water Cycle								
Domestic scarce water consumption	20.77	m^3 H_2O-eq./capita	28.2	●	→	142.47	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	9.34	m^3 H_2O-eq./capita	84.1	●	↓	65.94	Mm^3 H_2O-eq.	2018
Domestic water stress	9.05	ML H_2O-eq./capita	8.0	●	→	62.07	Bm^3 H_2O-eq.	2018
Spillover water stress	0.34	m^3 H_2O-eq./capita	86.0	●	↓	2.41	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Liberia

Africa

Land area	96,320 sq. km	**Population**	5.1 million
GDP (PPP, constant 2017 US$, billions)	$6.8	**GDP per capita**	$1,354
Human Development Index (HDI)	0.481	**HDI category**	Low

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		78.0 /100	
ABSOLUTE		83.7 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

The Global Commons Stewardship Index is a production of the Sustainable Development Solutions Network, the Yale Center for Environmental Law & Policy, and the Center for Global Commons at the University of Tokyo.

Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Liberia

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	1.91	kg/capita	81.9	●	↓	9.23	Gg	2018
Spillover SO_2 emissions	0.51	kg/capita	100.0	●	↓	2.27	Gg	2015
Domestic NO_X emissions	3.66	kg/capita	100.0	●	↓	17.64	Gg	2018
Spillover NO_X emissions	0.52	kg/capita	100.0	●	↓	2.32	Gg	2015
Domestic black carbon emissions	1.32	kg/capita	1.0	●	↓	6.35	Gg	2018
Spillover black carbon emissions	0.02	kg/capita	100.0	●	↑	0.10	Gg	2015
GHG Emissions								
Domestic GHG emissions	3.84	t CO_2e/capita	74.7	●	↓	18.95	Tg	2019
Spillover GHG emissions	0.22	t CO_2e/capita	100.0	●	↓	1.04	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA	●	●	NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	15.79	%	86.4	●	↓	15.79	%	2020
Unprotected freshwater biodiversity sites	24.34	%	79.2	●	↓	24.34	%	2020
Domestic land use related biodiversity loss	6.97×10^{-12}	global PDF/capita	90.8	●	→	3.36×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	2.90×10^{-13}	global PDF/capita	100.0	●	↑	1.40×10^{-6}	global PDF	2018
Domestic freshwater biodiversity threats	3.35	spp./million	7.4	●	●	16.16	species	2018
Spillover freshwater biodiversity threats	0.00	spp./million	100.0	●	●	0.01	species	2018
Domestic deforestation	2.14	%	1.0	●	↓	1.98×10^{5}	hectares	2020
Spillover deforestation	4.99×10^{-5}	ha/capita	100.0	●	↓	2.40×10^{2}	hectares	2018
Red List Index of species survival	0.90	scale 0 to 1	73.4	●	↗	0.90	scale 0 to 1	2021
Biodiversity Habitat Index	0.44	scale 0 to 1	22.1	●	●	0.44	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	96.66	%	4.3	●	↓	96.66	%	2020
Domestic marine biodiversity threats	0.68	spp./million	35.2	●	●	3.29	species	2018
Spillover marine biodiversity threats	0.00	spp./million	83.8	●	●	0.01	species	2018
Fish caught from overexploited or collapsed stocks	20.18	%	67.8	●	→	20.18	%	2018
Fish caught by trawling	0.00	%	100.0	●	↑	0.00	%	2018
Domestic vulnerable fisheries catch	59.12	tonnes/capita	14.8	●	↓	0.28	Tg	2018
Spillover vulnerable fisheries catch	0.44	tonnes/capita	86.2	●	↑	0.00	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	1.02	scale 0 to 1.4	12.7	●	↓	1.02	scale 0 to 1.4	2015
Domestic nitrogen surplus	2.17	kg/capita	95.1	●	↑	9.71	Gg	2015
Spillover nitrogen surplus	0.13	kg/capita	98.4	●	↓	0.59	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	0.44	g/capita	94.6	●	↓	2.13	kt	2018
Water Cycle								
Domestic scarce water consumption	10.75	m^3 H_2O-eq./capita	35.6	●	↗	51.80	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	69.21	m^3 H_2O-eq./capita	31.9	●	↑	474.72	Mm^3 H_2O-eq.	2018
Domestic water stress	0.01	ML H_2O-eq./capita	100.0	●	↑	0.03	Bm^3 H_2O-eq.	2018
Spillover water stress	5.46	m^3 H_2O-eq./capita	14.3	●	↑	37.48	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Lithuania

OECD Member

Land area	62,630 sq. km	**Population**	2.8 million
GDP (PPP, constant 2017 US$, billions)	$102.7	**GDP per capita**	$36,732
Human Development Index (HDI)	0.875	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		23.8 /100	↓
ABSOLUTE		67.3 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Lithuania

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	4.48	kg/capita	62.3	●	↗	12.54	Gg	2018
Spillover SO_2 emissions	10.59	kg/capita	25.8	●	→	30.77	Gg	2015
Domestic NO_X emissions	16.46	kg/capita	76.3	●	↓	46.12	Gg	2018
Spillover NO_X emissions	12.92	kg/capita	20.0	●	→	37.52	Gg	2015
Domestic black carbon emissions	0.90	kg/capita	27.2	●	↓	2.53	Gg	2018
Spillover black carbon emissions	0.32	kg/capita	32.1	●	→	0.94	Gg	2015
GHG Emissions								
Domestic GHG emissions	11.03	t CO_2e/capita	33.7	●	↓	30.83	Tg	2019
Spillover GHG emissions	8.73	t CO_2e/capita	14.0	●	↓	24.45	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.04	t CO_2e/capita	32.7	●	●	0.12	Tg	2021
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	90.95	%	10.2	●	↓	90.95	%	2020
Unprotected freshwater biodiversity sites	95.17	%	6.0	●	↓	95.17	%	2020
Domestic land use related biodiversity loss	3.02×10^{-12}	global PDF/capita	96.0	●	→	8.46×10^{-6}	global PDF	2018
Spillover land use related biodiversity loss	5.21×10^{-12}	global PDF/capita	71.9	●	↓	1.46×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.10	spp./million	55.5	●	●	0.28	species	2018
Spillover freshwater biodiversity threats	0.11	spp./million	35.9	●	●	0.30	species	2018
Domestic deforestation	0.93	%	30.5	●	↓	2.23×10^{4}	hectares	2020
Spillover deforestation	6.43×10^{-3}	ha/capita	7.8	●	↓	1.80×10^{4}	hectares	2018
Red List Index of species survival	0.99	scale 0 to 1	100.0	●	↓	0.99	scale 0 to 1	2021
Biodiversity Habitat Index	0.41	scale 0 to 1	18.3	●	●	0.41	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	7.87×10^{-6}	WOE/capita	99.9	●	●	2.20×10	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	3.58×10^{-7}	WOE/capita	100.0	●	●	1.00	WOE	2019
Unprotected marine biodiversity sites	83.45	%	17.4	●	↓	83.45	%	2020
Domestic marine biodiversity threats	0.01	spp./million	97.3	●	●	0.02	species	2018
Spillover marine biodiversity threats	0.13	spp./million	27.7	●	●	0.35	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	34.95	%	42.9	●	↓	34.95	%	2018
Domestic vulnerable fisheries catch	11.22	tonnes/capita	36.6	●	↓	0.03	Tg	2018
Spillover vulnerable fisheries catch	63.17	tonnes/capita	3.4	●	→	0.18	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.49	scale 0 to 1.4	58.4	●	↓	0.49	scale 0 to 1.4	2015
Domestic nitrogen surplus	34.84	kg/capita	1.0	●	↓	101.22	Gg	2015
Spillover nitrogen surplus	9.42	kg/capita	17.4	●	→	27.37	Tg	2015
Domestic phosphorus fertilizer	18.33	kg/capita	14.6	●	↓	51.36	kt	2018
Spillover phosphorus fertilizer	4.82	g/capita	20.5	●	↓	13.51	kt	2018
Water Cycle								
Domestic scarce water consumption	0.71	m^3 H_2O-eq./capita	66.1	●	↓	1.98	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	14.67	m^3 H_2O-eq./capita	72.3	●	↓	70.71	Mm^3 H_2O-eq.	2018
Domestic water stress	0.04	ML H_2O-eq./capita	78.4	●	↓	0.11	Bm^3 H_2O-eq.	2018
Spillover water stress	0.42	m^3 H_2O-eq./capita	80.5	●	↓	2.04	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Luxembourg

OECD Member

Land area	2,430 sq. km	**Population**	0.6 million
GDP (PPP, constant 2017 US$, billions)	$69.7	**GDP per capita**	$110,261
Human Development Index (HDI)	0.930	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		5.2 /100	→
ABSOLUTE		81.4 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Luxembourg

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	2.43	kg/capita	76.4	●	↗	1.48	Gg	2018
Spillover SO_2 emissions	35.92	kg/capita	1.0	●	→	20.46	Gg	2015
Domestic NO_X emissions	39.95	kg/capita	28.3	●	→	24.28	Gg	2018
Spillover NO_X emissions	62.99	kg/capita	1.0	●	→	35.88	Gg	2015
Domestic black carbon emissions	0.63	kg/capita	52.2	●	→	0.38	Gg	2018
Spillover black carbon emissions	1.67	kg/capita	1.0	●	→	0.95	Gg	2015
GHG Emissions								
Domestic GHG emissions	18.68	t CO_2e/capita	13.3	●	→	11.58	Tg	2019
Spillover GHG emissions	22.50	t CO_2e/capita	1.0	●	→	13.68	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA	●	●	NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	82.42	%	18.8	●	↓	82.42	%	2020
Unprotected freshwater biodiversity sites	37.13	%	65.9	●	↓	37.13	%	2020
Domestic land use related biodiversity loss	7.47×10^{-13}	global PDF/capita	99.0	●	↗	4.54×10^{-7}	global PDF	2018
Spillover land use related biodiversity loss	1.63×10^{-11}	global PDF/capita	5.1	●	↓	9.94×10^{-6}	global PDF	2018
Domestic freshwater biodiversity threats	0.02	spp./million	77.5	●	●	0.01	species	2018
Spillover freshwater biodiversity threats	0.85	spp./million	1.0	●	●	0.51	species	2018
Domestic deforestation	0.51	%	61.7	●	↓	5.28×10^{2}	hectares	2020
Spillover deforestation	5.08×10^{-3}	ha/capita	27.6	●	↓	3.09×10^{3}	hectares	2018
Red List Index of species survival	0.99	scale 0 to 1	98.9	●	↗	0.99	scale 0 to 1	2021
Biodiversity Habitat Index	0.42	scale 0 to 1	19.1	●	●	0.42	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	2.10×10^{-5}	WOE/capita	99.8	●	●	1.30×10	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	NA	WOE/million	NA	●	●	NA	WOE	NA
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic marine biodiversity threats	NA	spp./million	NA	●	●	NA	species	NA
Spillover marine biodiversity threats	0.65	spp./million	6.6	●	●	0.39	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	NA	%	NA	●	●	NA	%	NA
Domestic vulnerable fisheries catch	NA	tonnes/capita	NA	●	●	NA	Tg	NA
Spillover vulnerable fisheries catch	43.21	tonnes/capita	9.8	●	→	0.03	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.74	scale 0 to 1.4	36.9	●	↓	0.74	scale 0 to 1.4	2015
Domestic nitrogen surplus	16.12	kg/capita	54.9	●	→	9.18	Gg	2015
Spillover nitrogen surplus	55.44	kg/capita	1.0	●	→	31.58	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	8.87	g/capita	1.6	●	→	5.40	kt	2018
Water Cycle								
Domestic scarce water consumption	2.56	m^3 H_2O-eq./capita	51.7	●	↗	1.56	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	53.09	m^3 H_2O-eq./capita	38.8	●	↓	1,150.44	Mm^3 H_2O-eq.	2018
Domestic water stress	0.01	ML H_2O-eq./capita	97.0	●	↓	0.01	Bm^3 H_2O-eq.	2018
Spillover water stress	1.27	m^3 H_2O-eq./capita	52.1	●	↓	27.44	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Madagascar

Africa

Land area	581,800 sq. km	**Population**	27.7 million
GDP (PPP, constant 2017 US$, billions)	$41.8	**GDP per capita**	$1,510
Human Development Index (HDI)	0.501	**HDI category**	Low

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		87.4 /100	
ABSOLUTE		73.8 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Madagascar

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	1.48	kg/capita	87.8			38.85	Gg	2018
Spillover SO_2 emissions	0.39	kg/capita	100.0			9.44	Gg	2015
Domestic NO_X emissions	2.04	kg/capita	100.0			53.63	Gg	2018
Spillover NO_X emissions	0.38	kg/capita	100.0			9.18	Gg	2015
Domestic black carbon emissions	0.39	kg/capita	73.4			10.29	Gg	2018
Spillover black carbon emissions	0.02	kg/capita	100.0			0.45	Gg	2015
GHG Emissions								
Domestic GHG emissions	2.38	t CO_2e/capita	93.2			64.21	Tg	2019
Spillover GHG emissions	0.22	t CO_2e/capita	100.0			5.74	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA			NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	27.15	%	74.8			27.15	%	2020
Unprotected freshwater biodiversity sites	49.26	%	53.4			49.26	%	2020
Domestic land use related biodiversity loss	1.28×10^{-10}	global PDF/capita	1.0			3.36×10^{-3}	global PDF	2018
Spillover land use related biodiversity loss	4.11×10^{-13}	global PDF/capita	100.0			1.08×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	3.40	spp./million	7.2			89.34	species	2018
Spillover freshwater biodiversity threats	0.00	spp./million	100.0			0.01	species	2018
Domestic deforestation	1.73	%	1.0			2.84×10^{5}	hectares	2020
Spillover deforestation	7.94×10^{-5}	ha/capita	100.0			2.08×10^{3}	hectares	2018
Red List Index of species survival	0.74	scale 0 to 1	23.6			0.74	scale 0 to 1	2021
Biodiversity Habitat Index	0.46	scale 0 to 1	24.7			0.46	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	1.37×10^{-3}	WOE/million	85.7			3.70×10^{4}	WOE	2019
Spillover endangered terrestrial animals	5.97×10^{-4}	WOE/capita	93.0			1.61×10^{4}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	1.85×10^{-7}	WOE/million	100.0			5.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0			0.00	WOE	2019
Unprotected marine biodiversity sites	20.31	%	79.9			20.31	%	2020
Domestic marine biodiversity threats	1.28	spp./million	26.5			33.60	species	2018
Spillover marine biodiversity threats	0.00	spp./million	83.8			0.04	species	2018
Fish caught from overexploited or collapsed stocks	8.14	%	87.1			8.14	%	2018
Fish caught by trawling	0.72	%	99.1			0.72	%	2018
Domestic vulnerable fisheries catch	10.07	tonnes/capita	38.1			0.26	Tg	2018
Spillover vulnerable fisheries catch	1.26	tonnes/capita	68.8			0.03	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.65	scale 0 to 1.4	44.3			0.65	scale 0 to 1.4	2015
Domestic nitrogen surplus	0.89	kg/capita	98.8			21.61	Gg	2015
Spillover nitrogen surplus	0.14	kg/capita	97.0			3.45	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA			NA	kt	NA
Spillover phosphorus fertilizer	0.38	g/capita	99.3			9.95	kt	2018
Water Cycle								
Domestic scarce water consumption	0.49	m^3 H_2O-eq./capita	70.2			12.92	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	66.49	m^3 H_2O-eq./capita	33.0			186.27	Mm^3 H_2O-eq.	2018
Domestic water stress	0.51	ML H_2O-eq./capita	45.2			13.32	Bm^3 H_2O-eq.	2018
Spillover water stress	2.82	m^3 H_2O-eq./capita	31.4			7.90	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Malawi

Africa

Land area	94,280 sq. km	**Population**	19.1 million
GDP (PPP, constant 2017 US$, billions)	$28.4	**GDP per capita**	$1,487
Human Development Index (HDI)	0.512	**HDI category**	Low

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		89.6 /100	
ABSOLUTE		80.0 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Malawi

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	1.00	kg/capita	100.0	●	↑	12.34	Gg	2018
Spillover SO_2 emissions	0.63	kg/capita	100.0	●	↑	10.53	Gg	2015
Domestic NO_X emissions	1.26	kg/capita	100.0	●	↑	22.82	Gg	2018
Spillover NO_X emissions	0.50	kg/capita	100.0	●	↑	8.31	Gg	2015
Domestic black carbon emissions	0.33	kg/capita	78.9	●	→	6.01	Gg	2018
Spillover black carbon emissions	0.03	kg/capita	93.7	●	↓	0.59	Gg	2015
GHG Emissions								
Domestic GHG emissions	1.47	t CO_2e/capita	100.0	●	↓	27.39	Tg	2019
Spillover GHG emissions	0.30	t CO_2e/capita	100.0	●	↑	5.41	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.00	t CO_2e/capita	52.9	●	●	0.01	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	70.77	%	30.6	●	↓	70.77	%	2020
Unprotected freshwater biodiversity sites	25.84	%	77.6	●	↓	25.84	%	2020
Domestic land use related biodiversity loss	1.10×10^{-12}	global PDF/capita	98.6	●	→	2.00×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	4.05×10^{-13}	global PDF/capita	100.0	●	↑	7.36×10^{-6}	global PDF	2018
Domestic freshwater biodiversity threats	7.98	spp./million	1.0	●	●	144.81	species	2018
Spillover freshwater biodiversity threats	0.09	spp./million	38.6	●	●	1.65	species	2018
Domestic deforestation	0.98	%	26.5	●	↓	1.44×10^{4}	hectares	2020
Spillover deforestation	1.36×10^{-4}	ha/capita	100.0	●	↑	2.46×10^{3}	hectares	2018
Red List Index of species survival	0.81	scale 0 to 1	44.3	●	→	0.81	scale 0 to 1	2021
Biodiversity Habitat Index	0.43	scale 0 to 1	20.7	●	●	0.43	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	5.49×10^{-4}	WOE/million	94.3	●	●	1.02×10^{4}	WOE	2019
Spillover endangered terrestrial animals	5.37×10^{-8}	WOE/capita	100.0	●	●	1.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	NA	WOE/million	NA	●	●	NA	WOE	NA
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic marine biodiversity threats	0.00	spp./million	100.0	●	●	0.01	species	2018
Spillover marine biodiversity threats	0.02	spp./million	50.5	●	●	0.39	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	NA	%	NA	●	●	NA	%	NA
Domestic vulnerable fisheries catch	NA	tonnes/capita	NA	●	●	NA	Tg	NA
Spillover vulnerable fisheries catch	0.32	tonnes/capita	91.6	●	↓	0.01	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.75	scale 0 to 1.4	36.0	●	→	0.75	scale 0 to 1.4	2015
Domestic nitrogen surplus	5.44	kg/capita	85.7	●	↓	91.13	Gg	2015
Spillover nitrogen surplus	0.18	kg/capita	92.6	●	↓	3.00	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	0.26	g/capita	100.0	●	↓	4.71	kt	2018
Water Cycle								
Domestic scarce water consumption	0.05	m^3 H_2O-eq./capita	95.8	●	↑	0.91	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	182.41	m^3 H_2O-eq./capita	6.7	●	↓	110.89	Mm^3 H_2O-eq.	2018
Domestic water stress	0.04	ML H_2O-eq./capita	76.8	●	↗	0.79	Bm^3 H_2O-eq.	2018
Spillover water stress	5.13	m^3 H_2O-eq./capita	16.0	●	↓	3.12	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Malaysia

East and South Asia

Land area	328,550 sq. km	**Population**	32.4 million
GDP (PPP, constant 2017 US$, billions)	$855.6	**GDP per capita**	$26,435
Human Development Index (HDI)	0.803	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	32.7 /100	→
ABSOLUTE	●	36.5 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Malaysia

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	17.11	kg/capita	31.5			539.32	Gg	2018
Spillover SO_2 emissions	7.56	kg/capita	35.1			228.79	Gg	2015
Domestic NO_X emissions	22.67	kg/capita	63.6			714.76	Gg	2018
Spillover NO_X emissions	7.49	kg/capita	34.4			226.81	Gg	2015
Domestic black carbon emissions	0.24	kg/capita	87.4			7.47	Gg	2018
Spillover black carbon emissions	0.37	kg/capita	28.8			11.07	Gg	2015
GHG Emissions								
Domestic GHG emissions	10.93	t CO_2e/capita	34.1			349.23	Tg	2019
Spillover GHG emissions	3.84	t CO_2e/capita	37.0			121.16	Tg	2018
CO_2 emissions embodied in fossil fuel exports	3.60	t CO_2e/capita	12.3			116.61	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	28.51	%	73.5			28.51	%	2020
Unprotected freshwater biodiversity sites	50.01	%	52.6			50.01	%	2020
Domestic land use related biodiversity loss	3.75×10^{-11}	global PDF/capita	50.1			1.18×10^{-3}	global PDF	2018
Spillover land use related biodiversity loss	7.16×10^{-12}	global PDF/capita	60.2			2.26×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	1.49	spp./million	18.6			47.05	species	2018
Spillover freshwater biodiversity threats	0.32	spp./million	17.5			10.06	species	2018
Domestic deforestation	1.28	%	4.1			3.66×10^{5}	hectares	2020
Spillover deforestation	2.31×10^{-3}	ha/capita	68.2			7.28×10^{4}	hectares	2018
Red List Index of species survival	0.70	scale 0 to 1	12.3			0.70	scale 0 to 1	2021
Biodiversity Habitat Index	0.50	scale 0 to 1	30.6			0.50	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	7.08×10^{-3}	WOE/million	26.2			2.26×10^{5}	WOE	2019
Spillover endangered terrestrial animals	2.96×10^{-4}	WOE/capita	96.5			9.46×10^{3}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	3.65×10^{-3}	WOE/million	1.0			1.17×10^{5}	WOE	2019
Spillover endangered marine animals	1.62×10^{-4}	WOE/capita	89.7			5.16×10^{3}	WOE	2019
Unprotected marine biodiversity sites	13.71	%	86.4			13.71	%	2020
Domestic marine biodiversity threats	1.08	spp./million	28.8			34.18	species	2018
Spillover marine biodiversity threats	0.22	spp./million	20.3			7.06	species	2018
Fish caught from overexploited or collapsed stocks	23.35	%	62.8			23.35	%	2018
Fish caught by trawling	28.08	%	54.2			28.08	%	2018
Domestic vulnerable fisheries catch	108.17	tonnes/capita	6.9			3.41	Tg	2018
Spillover vulnerable fisheries catch	12.05	tonnes/capita	31.1			0.38	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.54	scale 0 to 1.4	54.1			0.54	scale 0 to 1.4	2015
Domestic nitrogen surplus	3.30	kg/capita	91.9			99.92	Gg	2015
Spillover nitrogen surplus	11.28	kg/capita	14.0			341.34	Tg	2015
Domestic phosphorus fertilizer	5.49	kg/capita	46.9			172.95	kt	2018
Spillover phosphorus fertilizer	4.90	g/capita	20.0			154.50	kt	2018
Water Cycle								
Domestic scarce water consumption	0.09	m^3 H_2O-eq./capita	89.0			2.90	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	94.74	m^3 H_2O-eq./capita	23.8			182.57	Mm^3 H_2O-eq.	2018
Domestic water stress	0.01	ML H_2O-eq./capita	93.0			0.39	Bm^3 H_2O-eq.	2018
Spillover water stress	2.00	m^3 H_2O-eq./capita	40.3			3.86	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Mali

Africa

Land area	1,220,190 sq. km	**Population**	20.3 million
GDP (PPP, constant 2017 US$, billions)	$44.9	**GDP per capita**	$2,217
Human Development Index (HDI)	0.428	**HDI category**	Low

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		89.6 /100	
ABSOLUTE		75.9 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Mali

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	0.98	kg/capita	97.4	●	↓	18.62	Gg	2018
Spillover SO_2 emissions	0.62	kg/capita	100.0	●	↓	10.75	Gg	2015
Domestic NO_X emissions	2.91	kg/capita	100.0	●	↓	55.44	Gg	2018
Spillover NO_X emissions	0.57	kg/capita	100.0	●	↓	10.01	Gg	2015
Domestic black carbon emissions	0.33	kg/capita	79.0	●	↓	6.28	Gg	2018
Spillover black carbon emissions	0.03	kg/capita	95.1	●	↓	0.58	Gg	2015
GHG Emissions								
Domestic GHG emissions	2.88	t CO_2e/capita	85.9	●	↓	56.55	Tg	2019
Spillover GHG emissions	0.37	t CO_2e/capita	100.0	●	↓	7.14	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA	●	●	NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	8.06	%	94.2	●	↓	8.06	%	2020
Unprotected freshwater biodiversity sites	0.00	%	100.0	●	●	0.00	%	2020
Domestic land use related biodiversity loss	8.91×10^{-13}	global PDF/capita	98.8	●	↗	1.70×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	4.72×10^{-13}	global PDF/capita	100.0	●	↓	9.01×10^{-6}	global PDF	2018
Domestic freshwater biodiversity threats	0.50	spp./million	33.5	●	●	9.57	species	2018
Spillover freshwater biodiversity threats	0.01	spp./million	84.8	●	●	0.11	species	2018
Domestic deforestation	0.45	%	66.5	●	↓	2.19×10^{2}	hectares	2020
Spillover deforestation	4.06×10^{-4}	ha/capita	96.2	●	↓	7.74×10^{3}	hectares	2018
Red List Index of species survival	0.98	scale 0 to 1	97.2	●	↓	0.98	scale 0 to 1	2021
Biodiversity Habitat Index	0.54	scale 0 to 1	35.9	●	●	0.54	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	2.47×10^{-3}	WOE/million	74.3	●	●	4.85×10^{4}	WOE	2019
Spillover endangered terrestrial animals	2.36×10^{-5}	WOE/capita	99.7	●	●	4.64×10^{2}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	NA	WOE/million	NA	●	●	NA	WOE	NA
Spillover endangered marine animals	4.07×10^{-6}	WOE/capita	99.7	●	●	8.00×10	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic marine biodiversity threats	0.01	spp./million	92.8	●	●	0.20	species	2018
Spillover marine biodiversity threats	0.00	spp./million	72.8	●	●	0.07	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	NA	%	NA	●	●	NA	%	NA
Domestic vulnerable fisheries catch	NA	tonnes/capita	NA	●	●	NA	Tg	NA
Spillover vulnerable fisheries catch	4.66	tonnes/capita	47.0	●	↓	0.09	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.76	scale 0 to 1.4	34.8	●	→	0.76	scale 0 to 1.4	2015
Domestic nitrogen surplus	2.92	kg/capita	93.0	●	↓	50.92	Gg	2015
Spillover nitrogen surplus	0.14	kg/capita	97.3	●	↓	2.44	Tg	2015
Domestic phosphorus fertilizer	1.84	kg/capita	76.2	●	↗	35.06	kt	2018
Spillover phosphorus fertilizer	0.35	g/capita	100.0	●	↓	6.61	kt	2018
Water Cycle								
Domestic scarce water consumption	1.35	m^3 H_2O-eq./capita	58.8	●	↗	25.82	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	14.79	m^3 H_2O-eq./capita	72.1	●	↓	533.02	Mm^3 H_2O-eq.	2018
Domestic water stress	1.21	ML H_2O-eq./capita	33.9	●	→	23.08	Bm^3 H_2O-eq.	2018
Spillover water stress	1.18	m^3 H_2O-eq./capita	54.0	●	↗	42.40	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Malta

Eastern Europe and Central Asia

Land area	320 sq. km	**Population**	0.5 million
GDP (PPP, constant 2017 US$, billions)	$20.6	**GDP per capita**	$39,222
Human Development Index (HDI)	0.918	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		26.8 /100	→
ABSOLUTE		92.7 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories
Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Malta

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	2.04	kg/capita	80.4	●	↑	0.99	Gg	2018
Spillover SO_2 emissions	22.71	kg/capita	4.8	●	→	10.11	Gg	2015
Domestic NO_X emissions	9.32	kg/capita	90.9	●	↑	4.52	Gg	2018
Spillover NO_X emissions	24.80	kg/capita	2.6	●	→	11.04	Gg	2015
Domestic black carbon emissions	0.10	kg/capita	100.0	●	↑	0.05	Gg	2018
Spillover black carbon emissions	0.82	kg/capita	6.3	●	→	0.37	Gg	2015
GHG Emissions								
Domestic GHG emissions	4.42	t CO_2e/capita	69.3	●	↗	2.23	Tg	2019
Spillover GHG emissions	10.13	t CO_2e/capita	9.8	●	→	4.91	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA	●	●	NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	79.51	%	21.8	●	↓	79.51	%	2020
Unprotected freshwater biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic land use related biodiversity loss	1.28×10^{-12}	global PDF/capita	98.3	●	↓	6.22×10^{-7}	global PDF	2018
Spillover land use related biodiversity loss	9.62×10^{-12}	global PDF/capita	45.4	●	↓	4.66×10^{-6}	global PDF	2018
Domestic freshwater biodiversity threats	0.00	spp./million	100.0	●	●	0.00	species	2018
Spillover freshwater biodiversity threats	0.03	spp./million	56.6	●	●	0.01	species	2018
Domestic deforestation	NA	%	NA	●	●	NA	hectares	NA
Spillover deforestation	2.37×10^{-3}	ha/capita	67.4	●	↓	1.15×10^{3}	hectares	2018
Red List Index of species survival	0.87	scale 0 to 1	64.2	●	↓	0.87	scale 0 to 1	2021
Biodiversity Habitat Index	0.51	scale 0 to 1	31.7	●	●	0.51	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	89.54	%	11.4	●	↓	89.54	%	2020
Domestic marine biodiversity threats	1.11	spp./million	28.4	●	●	0.49	species	2018
Spillover marine biodiversity threats	0.09	spp./million	32.4	●	●	0.04	species	2018
Fish caught from overexploited or collapsed stocks	18.89	%	69.9	●	↓	18.89	%	2018
Fish caught by trawling	89.64	%	1.0	●	→	89.64	%	2018
Domestic vulnerable fisheries catch	35.33	tonnes/capita	21.6	●	↓	0.02	Tg	2018
Spillover vulnerable fisheries catch	94.88	tonnes/capita	1.0	●	↓	0.05	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.89	scale 0 to 1.4	23.5	●	↓	0.89	scale 0 to 1.4	2015
Domestic nitrogen surplus	9.51	kg/capita	74.0	●	↓	4.23	Gg	2015
Spillover nitrogen surplus	13.73	kg/capita	10.2	●	↓	6.11	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	5.65	g/capita	15.6	●	→	2.74	kt	2018
Water Cycle								
Domestic scarce water consumption	0.04	m^3 H_2O-eq./capita	98.5	●	↓	0.02	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	30.48	m^3 H_2O-eq./capita	53.3	●	↓	82.56	Mm^3 H_2O-eq.	2018
Domestic water stress	0.04	ML H_2O-eq./capita	77.2	●	↓	0.02	Bm^3 H_2O-eq.	2018
Spillover water stress	1.01	m^3 H_2O-eq./capita	57.9	●	↓	2.74	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Mauritania

Africa

Land area	1,030,700 sq. km	**Population**	4.6 million
GDP (PPP, constant 2017 US$, billions)	$23.2	**GDP per capita**	$4,983
Human Development Index (HDI)	0.556	**HDI category**	Medium

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		70.1 /100	
ABSOLUTE		84.9 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Mauritania

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	2.90	kg/capita	72.3			12.76	Gg	2018
Spillover SO_2 emissions	1.75	kg/capita	75.6			7.06	Gg	2015
Domestic NO_X emissions	6.94	kg/capita	95.8			30.55	Gg	2018
Spillover NO_X emissions	1.71	kg/capita	73.7			6.90	Gg	2015
Domestic black carbon emissions	0.52	kg/capita	61.6			2.30	Gg	2018
Spillover black carbon emissions	0.07	kg/capita	76.3			0.27	Gg	2015
GHG Emissions								
Domestic GHG emissions	4.26	t CO_2e/capita	70.7			19.28	Tg	2019
Spillover GHG emissions	0.94	t CO_2e/capita	76.4			4.15	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA			NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	11.17	%	91.0			11.17	%	2020
Unprotected freshwater biodiversity sites	0.00	%	100.0			0.00	%	2020
Domestic land use related biodiversity loss	7.48×10^{-13}	global PDF/capita	99.0			3.29×10^{-6}	global PDF	2018
Spillover land use related biodiversity loss	1.74×10^{-12}	global PDF/capita	92.7			7.64×10^{-6}	global PDF	2018
Domestic freshwater biodiversity threats	0.17	spp./million	48.6			0.73	species	2018
Spillover freshwater biodiversity threats	0.01	spp./million	84.1			0.03	species	2018
Domestic deforestation	0.00	%	100.0			0.00	hectares	2020
Spillover deforestation	4.16×10^{-4}	ha/capita	96.0			1.83×10^{3}	hectares	2018
Red List Index of species survival	0.98	scale 0 to 1	95.9			0.98	scale 0 to 1	2021
Biodiversity Habitat Index	0.63	scale 0 to 1	48.5			0.63	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0			0.00	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0			0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0			0.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0			0.00	WOE	2019
Unprotected marine biodiversity sites	37.24	%	63.1			37.24	%	2020
Domestic marine biodiversity threats	3.11	spp./million	14.2			13.71	species	2018
Spillover marine biodiversity threats	0.06	spp./million	37.8			0.25	species	2018
Fish caught from overexploited or collapsed stocks	17.63	%	71.9			17.63	%	2018
Fish caught by trawling	6.53	%	89.6			6.53	%	2018
Domestic vulnerable fisheries catch	369.54	tonnes/capita	1.0			1.63	Tg	2018
Spillover vulnerable fisheries catch	1.68	tonnes/capita	64.0			0.01	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.90	scale 0 to 1.4	23.0			0.90	scale 0 to 1.4	2015
Domestic nitrogen surplus	1.49	kg/capita	97.1			6.05	Gg	2015
Spillover nitrogen surplus	0.56	kg/capita	71.0			2.27	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA			NA	kt	NA
Spillover phosphorus fertilizer	1.97	g/capita	48.3			8.66	kt	2018
Water Cycle								
Domestic scarce water consumption	0.93	m^3 H_2O-eq./capita	63.0			4.10	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	10.44	m^3 H_2O-eq./capita	81.2			274.24	Mm^3 H_2O-eq.	2018
Domestic water stress	8.65	ML H_2O-eq./capita	8.5			38.07	Bm^3 H_2O-eq.	2018
Spillover water stress	0.43	m^3 H_2O-eq./capita	80.1			11.27	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Mexico

OECD Member

Land area	1,943,950 sq. km	**Population**	128.9 million
GDP (PPP, constant 2017 US$, billions)	$2,306.3	**GDP per capita**	$17,888
Human Development Index (HDI)	0.758	**HDI category**	High

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		47.0 /100	→
ABSOLUTE		25.4 /100	↓

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

The Global Commons Stewardship Index is a production of the Sustainable Development Solutions Network, the Yale Center for Environmental Law & Policy, and the Center for Global Commons at the University of Tokyo.

Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Mexico

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	9.88	kg/capita	44.1			1,247.32	Gg	2018
Spillover SO_2 emissions	2.94	kg/capita	61.2			358.27	Gg	2015
Domestic NO_X emissions	13.18	kg/capita	83.0			1,663.29	Gg	2018
Spillover NO_X emissions	3.57	kg/capita	54.1			435.63	Gg	2015
Domestic black carbon emissions	0.27	kg/capita	84.5			33.94	Gg	2018
Spillover black carbon emissions	0.11	kg/capita	61.3			13.75	Gg	2015
GHG Emissions								
Domestic GHG emissions	6.67	t CO_2e/capita	53.3			850.66	Tg	2019
Spillover GHG emissions	1.98	t CO_2e/capita	55.7			249.34	Tg	2018
CO_2 emissions embodied in fossil fuel exports	1.32	t CO_2e/capita	16.9			169.63	Tg	2021
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	36.19	%	65.7			36.19	%	2020
Unprotected freshwater biodiversity sites	49.99	%	52.7			49.99	%	2020
Domestic land use related biodiversity loss	2.92×10^{-11}	global PDF/capita	61.1			3.69×10^{-3}	global PDF	2018
Spillover land use related biodiversity loss	3.52×10^{-12}	global PDF/capita	82.0			4.44×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	0.63	spp./million	30.5			78.92	species	2018
Spillover freshwater biodiversity threats	0.09	spp./million	38.6			11.48	species	2018
Domestic deforestation	0.57	%	57.4			2.86×10^{5}	hectares	2020
Spillover deforestation	8.97×10^{-4}	ha/capita	89.0			1.13×10^{5}	hectares	2018
Red List Index of species survival	0.68	scale 0 to 1	3.5			0.68	scale 0 to 1	2021
Biodiversity Habitat Index	0.44	scale 0 to 1	22.5			0.44	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	7.27×10^{-6}	WOE/million	99.9			9.27×10^{2}	WOE	2019
Spillover endangered terrestrial animals	3.82×10^{-3}	WOE/capita	55.3			4.87×10^{5}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	2.91×10^{-3}	WOE/million	1.0			3.71×10^{5}	WOE	2019
Spillover endangered marine animals	8.22×10^{-5}	WOE/capita	94.7			1.05×10^{4}	WOE	2019
Unprotected marine biodiversity sites	61.90	%	38.7			61.90	%	2020
Domestic marine biodiversity threats	1.41	spp./million	25.2			177.67	species	2018
Spillover marine biodiversity threats	0.05	spp./million	40.6			5.82	species	2018
Fish caught from overexploited or collapsed stocks	17.30	%	72.4			17.30	%	2018
Fish caught by trawling	15.29	%	75.2			15.29	%	2018
Domestic vulnerable fisheries catch	38.75	tonnes/capita	20.4			4.89	Tg	2018
Spillover vulnerable fisheries catch	3.08	tonnes/capita	53.9			0.39	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.82	scale 0 to 1.4	29.8			0.82	scale 0 to 1.4	2015
Domestic nitrogen surplus	13.38	kg/capita	62.8			1,630.06	Gg	2015
Spillover nitrogen surplus	3.54	kg/capita	36.0			431.13	Tg	2015
Domestic phosphorus fertilizer	6.55	kg/capita	42.2			826.31	kt	2018
Spillover phosphorus fertilizer	2.83	g/capita	37.1			356.66	kt	2018
Water Cycle								
Domestic scarce water consumption	1.48	m^3 H_2O-eq./capita	57.9			186.18	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	27.40	m^3 H_2O-eq./capita	56.1			3,457.74	Mm^3 H_2O-eq.	2018
Domestic water stress	3.53	ML H_2O-eq./capita	20.1			445.76	Bm^3 H_2O-eq.	2018
Spillover water stress	1.24	m^3 H_2O-eq./capita	52.7			156.01	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Moldova

Eastern Europe and Central Asia

Land area	32,885 sq. km	**Population**	2.6 million
GDP (PPP, constant 2017 US$, billions)	$32.3	**GDP per capita**	$12,325
Human Development Index (HDI)	0.767	**HDI category**	High

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		52.5 /100	
ABSOLUTE		83.3 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Moldova

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	2.41	kg/capita	76.6	●	↓	6.52	Gg	2018
Spillover SO_2 emissions	4.03	kg/capita	52.5	●	↑	11.43	Gg	2015
Domestic NO_X emissions	11.18	kg/capita	87.1	●	↓	30.28	Gg	2018
Spillover NO_X emissions	3.28	kg/capita	56.4	●	↑	9.30	Gg	2015
Domestic black carbon emissions	0.22	kg/capita	89.1	●	↓	0.59	Gg	2018
Spillover black carbon emissions	0.07	kg/capita	72.6	●	↗	0.21	Gg	2015
GHG Emissions								
Domestic GHG emissions	6.05	t CO_2e/capita	57.1	●	↓	16.10	Tg	2019
Spillover GHG emissions	3.13	t CO_2e/capita	42.8	●	↓	8.48	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA	●	●	NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	0.00	%	100.0	●	●	0.00	%	2020
Unprotected freshwater biodiversity sites	0.00	%	100.0	●	●	0.00	%	2020
Domestic land use related biodiversity loss	4.01×10^{-12}	global PDF/capita	94.7	●	↓	1.09×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	2.62×10^{-12}	global PDF/capita	87.4	●	↓	7.08×10^{-6}	global PDF	2018
Domestic freshwater biodiversity threats	0.02	spp./million	75.0	●	●	0.09	species	2018
Spillover freshwater biodiversity threats	0.00	spp./million	88.3	●	●	0.02	species	2018
Domestic deforestation	0.09	%	92.9	●	↓	3.39×10^{2}	hectares	2020
Spillover deforestation	1.62×10^{-3}	ha/capita	78.4	●	↓	4.38×10^{3}	hectares	2018
Red List Index of species survival	0.95	scale 0 to 1	86.8	●	↗	0.95	scale 0 to 1	2021
Biodiversity Habitat Index	0.27	scale 0 to 1	1.0	●	●	0.27	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	1.13×10^{-6}	WOE/capita	100.0	●	●	3.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	NA	WOE/million	NA	●	●	NA	WOE	NA
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic marine biodiversity threats	0.00	spp./million	100.0	●	●	0.00	species	2018
Spillover marine biodiversity threats	0.00	spp./million	78.5	●	●	0.01	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	NA	%	NA	●	●	NA	%	NA
Domestic vulnerable fisheries catch	NA	tonnes/capita	NA	●	●	NA	Tg	NA
Spillover vulnerable fisheries catch	10.26	tonnes/capita	33.8	●	↓	0.03	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.60	scale 0 to 1.4	48.6	●	↓	0.60	scale 0 to 1.4	2015
Domestic nitrogen surplus	8.56	kg/capita	76.7	●	↓	24.25	Gg	2015
Spillover nitrogen surplus	0.07	kg/capita	100.0	●	↓	0.21	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	1.73	g/capita	52.2	●	↓	4.70	kt	2018
Water Cycle								
Domestic scarce water consumption	37.21	m^3 H_2O-eq./capita	21.6	●	↓	100.76	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	23.45	m^3 H_2O-eq./capita	60.1	●	↓	48.85	Mm^3 H_2O-eq.	2018
Domestic water stress	0.59	ML H_2O-eq./capita	43.3	●	↓	1.59	Bm^3 H_2O-eq.	2018
Spillover water stress	1.34	m^3 H_2O-eq./capita	50.6	●	↓	2.80	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Mongolia

East and South Asia

Land area	1,557,255 sq. km	**Population**	3.3 million
GDP (PPP, constant 2017 US$, billions)	$37.6	**GDP per capita**	$11,471
Human Development Index (HDI)	0.739	**HDI category**	High

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		23.1 /100	
ABSOLUTE		61.3 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Mongolia

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	39.24	kg/capita	12.4	●	↓	124.40	Gg	2018
Spillover SO_2 emissions	3.95	kg/capita	53.0	●	↑	11.85	Gg	2015
Domestic NO_X emissions	19.38	kg/capita	70.4	●	↓	61.44	Gg	2018
Spillover NO_X emissions	3.72	kg/capita	53.0	●	↑	11.16	Gg	2015
Domestic black carbon emissions	0.47	kg/capita	66.7	●	↓	1.48	Gg	2018
Spillover black carbon emissions	0.12	kg/capita	59.1	●	↑	0.37	Gg	2015
GHG Emissions								
Domestic GHG emissions	20.91	t CO_2e/capita	8.9	●	↓	67.44	Tg	2019
Spillover GHG emissions	2.46	t CO_2e/capita	49.6	●	→	7.79	Tg	2018
CO_2 emissions embodied in fossil fuel exports	25.48	t CO_2e/capita	3.4	●	●	83.53	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	45.00	%	56.7	●	↓	45.00	%	2020
Unprotected freshwater biodiversity sites	41.40	%	61.5	●	↓	41.40	%	2020
Domestic land use related biodiversity loss	4.40×10^{-11}	global PDF/capita	41.5	●	→	1.39×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	1.23×10^{-12}	global PDF/capita	95.7	●	↗	3.91×10^{-6}	global PDF	2018
Domestic freshwater biodiversity threats	0.37	spp./million	37.7	●	●	1.18	species	2018
Spillover freshwater biodiversity threats	0.01	spp./million	83.9	●	●	0.02	species	2018
Domestic deforestation	0.01	%	99.0	●	↓	4.57×10^{2}	hectares	2020
Spillover deforestation	3.48×10^{-4}	ha/capita	97.0	●	↓	1.10×10^{3}	hectares	2018
Red List Index of species survival	0.96	scale 0 to 1	90.4	●	↓	0.96	scale 0 to 1	2021
Biodiversity Habitat Index	0.52	scale 0 to 1	34.3	●	●	0.52	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	7.13×10^{-6}	WOE/million	99.9	●	●	2.30×10	WOE	2019
Spillover endangered terrestrial animals	3.11×10^{-4}	WOE/capita	96.4	●	●	1.00×10^{3}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	NA	WOE/million	NA	●	●	NA	WOE	NA
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic marine biodiversity threats	0.22	spp./million	50.9	●	●	0.70	species	2018
Spillover marine biodiversity threats	0.01	spp./million	65.4	●	●	0.02	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	NA	%	NA	●	●	NA	%	NA
Domestic vulnerable fisheries catch	NA	tonnes/capita	NA	●	●	NA	Tg	NA
Spillover vulnerable fisheries catch	2.95	tonnes/capita	54.6	●	→	0.01	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	1.14	scale 0 to 1.4	2.2	●	↓	1.14	scale 0 to 1.4	2015
Domestic nitrogen surplus	44.79	kg/capita	1.0	●	↓	134.31	Gg	2015
Spillover nitrogen surplus	1.20	kg/capita	56.5	●	↗	3.60	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	1.55	g/capita	55.7	●	↗	4.92	kt	2018
Water Cycle								
Domestic scarce water consumption	5.06	m^3 H_2O-eq./capita	44.0	●	↓	16.03	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	5.65	m^3 H_2O-eq./capita	97.1	●	↓	107.80	Mm^3 H_2O-eq.	2018
Domestic water stress	1.20	ML H_2O-eq./capita	34.0	●	↓	3.80	Bm^3 H_2O-eq.	2018
Spillover water stress	0.66	m^3 H_2O-eq./capita	69.0	●	↓	12.56	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Morocco

Middle East and North Africa

Land area	446,300 sq. km	**Population**	36.9 million
GDP (PPP, constant 2017 US$, billions)	$259.4	**GDP per capita**	$7,028
Human Development Index (HDI)	0.683	**HDI category**	Medium

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		71.5 /100	
ABSOLUTE		58.9 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories
Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Morocco

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	11.45	kg/capita	40.7			412.68	Gg	2018
Spillover SO_2 emissions	1.54	kg/capita	78.9			53.54	Gg	2015
Domestic NO_X emissions	8.00	kg/capita	93.6			288.29	Gg	2018
Spillover NO_X emissions	1.82	kg/capita	72.0			63.16	Gg	2015
Domestic black carbon emissions	0.25	kg/capita	86.6			8.86	Gg	2018
Spillover black carbon emissions	0.07	kg/capita	76.5			2.26	Gg	2015
GHG Emissions								
Domestic GHG emissions	3.21	t CO_2e/capita	81.6			117.12	Tg	2019
Spillover GHG emissions	1.14	t CO_2e/capita	71.1			41.14	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.00	t CO_2e/capita	94.0			0.00	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	38.49	%	63.3			38.49	%	2020
Unprotected freshwater biodiversity sites	54.26	%	48.2			54.26	%	2020
Domestic land use related biodiversity loss	3.34×10^{-12}	global PDF/capita	95.6			1.20×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	2.61×10^{-12}	global PDF/capita	87.4			9.39×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.33	spp./million	39.2			11.98	species	2018
Spillover freshwater biodiversity threats	0.01	spp./million	74.1			0.39	species	2018
Domestic deforestation	0.51	%	61.4			2.08×10^{3}	hectares	2020
Spillover deforestation	8.54×10^{-4}	ha/capita	89.6			3.08×10^{4}	hectares	2018
Red List Index of species survival	0.88	scale 0 to 1	67.8			0.88	scale 0 to 1	2021
Biodiversity Habitat Index	0.47	scale 0 to 1	25.8			0.47	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0			0.00	WOE	2019
Spillover endangered terrestrial animals	5.62×10^{-6}	WOE/capita	99.9			2.05×10^{2}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0			0.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0			0.00	WOE	2019
Unprotected marine biodiversity sites	43.32	%	57.1			43.32	%	2020
Domestic marine biodiversity threats	0.33	spp./million	45.3			11.93	species	2018
Spillover marine biodiversity threats	0.00	spp./million	72.3			0.14	species	2018
Fish caught from overexploited or collapsed stocks	10.56	%	83.2			10.56	%	2018
Fish caught by trawling	71.23	%	1.0			71.23	%	2018
Domestic vulnerable fisheries catch	67.86	tonnes/capita	13.0			2.44	Tg	2018
Spillover vulnerable fisheries catch	2.85	tonnes/capita	55.2			0.10	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.80	scale 0 to 1.4	31.6			0.80	scale 0 to 1.4	2015
Domestic nitrogen surplus	4.15	kg/capita	89.4			143.97	Gg	2015
Spillover nitrogen surplus	0.64	kg/capita	68.4			22.28	Tg	2015
Domestic phosphorus fertilizer	3.67	kg/capita	57.7			132.10	kt	2018
Spillover phosphorus fertilizer	2.33	g/capita	43.0			83.99	kt	2018
Water Cycle								
Domestic scarce water consumption	3.05	m^3 H_2O-eq./capita	49.7			109.75	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	71.67	m^3 H_2O-eq./capita	31.0			34.73	Mm^3 H_2O-eq.	2018
Domestic water stress	9.46	ML H_2O-eq./capita	7.4			340.68	Bm^3 H_2O-eq.	2018
Spillover water stress	4.78	m^3 H_2O-eq./capita	17.7			2.32	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Mozambique

Africa

Land area	786,380 sq. km	**Population**	31.3 million
GDP (PPP, constant 2017 US$, billions)	$38.4	**GDP per capita**	$1,229
Human Development Index (HDI)	0.446	**HDI category**	Low

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		77.3 /100	
ABSOLUTE		61.5 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Mozambique

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	0.45	kg/capita	100.0	●	↑	13.37	Gg	2018
Spillover SO_2 emissions	2.12	kg/capita	70.1	●	↗	57.42	Gg	2015
Domestic NO_X emissions	2.27	kg/capita	100.0	●	↓	67.02	Gg	2018
Spillover NO_X emissions	1.37	kg/capita	79.4	●	↗	37.18	Gg	2015
Domestic black carbon emissions	0.41	kg/capita	71.9	●	↑	12.03	Gg	2018
Spillover black carbon emissions	0.05	kg/capita	86.7	●	↓	1.22	Gg	2015
GHG Emissions								
Domestic GHG emissions	2.00	t CO_2e/capita	99.9	●	↑	60.84	Tg	2019
Spillover GHG emissions	0.61	t CO_2e/capita	88.7	●	↑	18.00	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.34	t CO_2e/capita	23.0	●	●	10.73	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	37.97	%	63.9	●	↓	37.97	%	2020
Unprotected freshwater biodiversity sites	52.31	%	50.3	●	↓	52.31	%	2020
Domestic land use related biodiversity loss	2.94×10^{-12}	global PDF/capita	96.1	●	→	8.68×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	1.01×10^{-12}	global PDF/capita	97.0	●	↑	2.97×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	1.19	spp./million	21.7	●	●	34.99	species	2018
Spillover freshwater biodiversity threats	0.01	spp./million	73.9	●	●	0.33	species	2018
Domestic deforestation	0.78	%	41.3	●	↓	2.11×10^{5}	hectares	2020
Spillover deforestation	1.63×10^{-4}	ha/capita	99.7	●	↑	4.81×10^{3}	hectares	2018
Red List Index of species survival	0.79	scale 0 to 1	38.7	●	↓	0.79	scale 0 to 1	2021
Biodiversity Habitat Index	0.54	scale 0 to 1	36.0	●	●	0.54	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	2.95×10^{-3}	WOE/million	69.3	●	●	8.95×10^{4}	WOE	2019
Spillover endangered terrestrial animals	6.59×10^{-8}	WOE/capita	100.0	●	●	2.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	75.43	%	25.3	●	↓	75.43	%	2020
Domestic marine biodiversity threats	1.19	spp./million	27.5	●	●	35.07	species	2018
Spillover marine biodiversity threats	0.01	spp./million	63.8	●	●	0.22	species	2018
Fish caught from overexploited or collapsed stocks	1.05	%	98.4	●	↑	1.05	%	2018
Fish caught by trawling	0.00	%	100.0	●	●	0.00	%	2018
Domestic vulnerable fisheries catch	15.41	tonnes/capita	32.5	●	↓	0.45	Tg	2018
Spillover vulnerable fisheries catch	1.32	tonnes/capita	68.0	●	↑	0.04	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.91	scale 0 to 1.4	22.0	●	→	0.91	scale 0 to 1.4	2015
Domestic nitrogen surplus	1.00	kg/capita	98.5	●	↑	27.10	Gg	2015
Spillover nitrogen surplus	0.11	kg/capita	100.0	●	↓	3.04	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	0.65	g/capita	82.4	●	↑	19.27	kt	2018
Water Cycle								
Domestic scarce water consumption	0.11	m^3 H_2O-eq./capita	86.7	●	↓	3.35	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	18.56	m^3 H_2O-eq./capita	66.2	●	↑	996.91	Mm^3 H_2O-eq.	2018
Domestic water stress	0.08	ML H_2O-eq./capita	68.6	●	↓	2.44	Bm^3 H_2O-eq.	2018
Spillover water stress	0.39	m^3 H_2O-eq./capita	82.7	●	↑	20.82	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Myanmar

East and South Asia

Land area	**652,790 sq. km**	**Population**	**54.4 million**
GDP (PPP, constant 2017 US$, billions)	**$247.2**	**GDP per capita**	**$4,544**
Human Development Index (HDI)	**0.585**	**HDI category**	**Medium**

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	**70.0** /100	↓
ABSOLUTE	●	**50.6** /100	↓

Impacts by pillar and sub-pillar

Proportional scores and trajectories

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Myanmar

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	1.95	kg/capita	81.4			104.71	Gg	2018
Spillover SO_2 emissions	0.95	kg/capita	92.2			50.23	Gg	2015
Domestic NO_X emissions	3.44	kg/capita	100.0			185.01	Gg	2018
Spillover NO_X emissions	0.88	kg/capita	91.4			46.13	Gg	2015
Domestic black carbon emissions	0.60	kg/capita	54.4			32.34	Gg	2018
Spillover black carbon emissions	0.05	kg/capita	84.1			2.61	Gg	2015
GHG Emissions								
Domestic GHG emissions	4.45	t CO_2e/capita	69.0			240.58	Tg	2019
Spillover GHG emissions	0.51	t CO_2e/capita	93.7			27.36	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.57	t CO_2e/capita	20.7			31.10	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	25.08	%	76.9			25.08	%	2020
Unprotected freshwater biodiversity sites	27.06	%	76.4			27.06	%	2020
Domestic land use related biodiversity loss	4.12×10^{-12}	global PDF/capita	94.5			2.21×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	8.24×10^{-13}	global PDF/capita	98.1			4.43×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	1.39	spp./million	19.5			74.83	species	2018
Spillover freshwater biodiversity threats	0.00	spp./million	100.0			0.01	species	2018
Domestic deforestation	0.73	%	45.4			2.98×10^{5}	hectares	2020
Spillover deforestation	1.58×10^{-4}	ha/capita	99.8			8.48×10^{3}	hectares	2018
Red List Index of species survival	0.79	scale 0 to 1	40.3			0.79	scale 0 to 1	2021
Biodiversity Habitat Index	0.41	scale 0 to 1	18.1			0.41	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0			0.00	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0			0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0			0.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0			0.00	WOE	2019
Unprotected marine biodiversity sites	19.20	%	81.0			19.20	%	2020
Domestic marine biodiversity threats	0.38	spp./million	43.2			20.57	species	2018
Spillover marine biodiversity threats	0.00	spp./million	100.0			0.00	species	2018
Fish caught from overexploited or collapsed stocks	20.24	%	67.7			20.24	%	2018
Fish caught by trawling	47.68	%	22.0			47.68	%	2018
Domestic vulnerable fisheries catch	64.29	tonnes/capita	13.7			3.45	Tg	2018
Spillover vulnerable fisheries catch	0.82	tonnes/capita	75.9			0.04	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.60	scale 0 to 1.4	48.6			0.60	scale 0 to 1.4	2015
Domestic nitrogen surplus	10.95	kg/capita	69.8			576.87	Gg	2015
Spillover nitrogen surplus	0.06	kg/capita	100.0			3.23	Tg	2015
Domestic phosphorus fertilizer	2.74	kg/capita	65.4			147.41	kt	2018
Spillover phosphorus fertilizer	0.73	g/capita	79.1			39.09	kt	2018
Water Cycle								
Domestic scarce water consumption	0.21	m^3 H_2O-eq./capita	79.5			11.53	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	73.83	m^3 H_2O-eq./capita	30.3			234.04	Mm^3 H_2O-eq.	2018
Domestic water stress	0.08	ML H_2O-eq./capita	69.6			4.11	Bm^3 H_2O-eq.	2018
Spillover water stress	1.01	m^3 H_2O-eq./capita	58.1			3.19	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Namibia

Africa

Land area	823,290 sq. km	**Population**	2.5 million
GDP (PPP, constant 2017 US$, billions)	$22.6	**GDP per capita**	$8,894
Human Development Index (HDI)	0.615	**HDI category**	Medium

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		41.0 /100	→
ABSOLUTE		78.1 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Namibia

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	5.44	kg/capita	57.9	●	↗	13.31	Gg	2018
Spillover SO_2 emissions	22.34	kg/capita	5.2	●	↓	51.71	Gg	2015
Domestic NO_X emissions	10.61	kg/capita	88.3	●	→	25.98	Gg	2018
Spillover NO_X emissions	14.21	kg/capita	17.4	●	↓	32.89	Gg	2015
Domestic black carbon emissions	0.64	kg/capita	50.8	●	→	1.57	Gg	2018
Spillover black carbon emissions	0.97	kg/capita	1.7	●	↓	2.25	Gg	2015
GHG Emissions								
Domestic GHG emissions	5.57	t CO_2e/capita	60.3	●	→	13.89	Tg	2019
Spillover GHG emissions	4.74	t CO_2e/capita	31.1	●	→	11.62	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA	●	●	NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	86.18	%	15.0	●	↓	86.18	%	2020
Unprotected freshwater biodiversity sites	85.70	%	15.8	●	↓	85.70	%	2020
Domestic land use related biodiversity loss	2.72×10^{-12}	global PDF/capita	96.4	●	→	6.65×10^{-6}	global PDF	2018
Spillover land use related biodiversity loss	1.10×10^{-11}	global PDF/capita	37.1	●	→	2.69×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	2.44	spp./million	11.8	●	●	5.97	species	2018
Spillover freshwater biodiversity threats	0.16	spp./million	28.8	●	●	0.40	species	2018
Domestic deforestation	0.42	%	68.1	●	↓	2.91	hectares	2020
Spillover deforestation	1.49×10^{-3}	ha/capita	80.3	●	↓	3.65×10^{3}	hectares	2018
Red List Index of species survival	0.97	scale 0 to 1	94.2	●	↓	0.97	scale 0 to 1	2021
Biodiversity Habitat Index	0.57	scale 0 to 1	41.3	●	●	0.57	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	82.98	%	17.9	●	↓	82.98	%	2020
Domestic marine biodiversity threats	7.17	spp./million	2.6	●	●	17.55	species	2018
Spillover marine biodiversity threats	0.28	spp./million	17.6	●	●	0.68	species	2018
Fish caught from overexploited or collapsed stocks	5.18	%	91.8	●	↑	5.18	%	2018
Fish caught by trawling	33.51	%	45.2	●	↓	33.51	%	2018
Domestic vulnerable fisheries catch	853.67	tonnes/capita	1.0	●	↓	2.09	Tg	2018
Spillover vulnerable fisheries catch	13.24	tonnes/capita	29.5	●	→	0.03	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	1.15	scale 0 to 1.4	1.0	●	↓	1.15	scale 0 to 1.4	2015
Domestic nitrogen surplus	7.69	kg/capita	79.2	●	↓	17.80	Gg	2015
Spillover nitrogen surplus	2.04	kg/capita	46.4	●	↓	4.73	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	2.36	g/capita	42.6	●	↑	5.79	kt	2018
Water Cycle								
Domestic scarce water consumption	0.11	m^3 H_2O-eq./capita	86.6	●	↓	0.28	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	6.92	m^3 H_2O-eq./capita	91.9	●	↓	204.13	Mm^3 H_2O-eq.	2018
Domestic water stress	0.21	ML H_2O-eq./capita	56.5	●	↓	0.51	Bm^3 H_2O-eq.	2018
Spillover water stress	0.31	m^3 H_2O-eq./capita	88.4	●	↓	9.17	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Nepal

East and South Asia

Land area	143,350 sq. km	**Population**	29.1 million
GDP (PPP, constant 2017 US$, billions)	$110.7	**GDP per capita**	$3,800
Human Development Index (HDI)	0.602	**HDI category**	Medium

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		73.0 /100	↓
ABSOLUTE		62.3 /100	↓

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Nepal

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	1.78	kg/capita	83.5			50.02	Gg	2018
Spillover SO_2 emissions	1.62	kg/capita	77.6			43.75	Gg	2015
Domestic NO_X emissions	3.72	kg/capita	100.0			104.45	Gg	2018
Spillover NO_X emissions	1.38	kg/capita	79.3			37.34	Gg	2015
Domestic black carbon emissions	0.77	kg/capita	39.2			21.65	Gg	2018
Spillover black carbon emissions	0.08	kg/capita	72.1			2.07	Gg	2015
GHG Emissions								
Domestic GHG emissions	3.67	t CO_2e/capita	76.5			104.90	Tg	2019
Spillover GHG emissions	1.14	t CO_2e/capita	71.2			31.92	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.00	t CO_2e/capita	75.4			0.00	Tg	2018
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	50.66	%	51.0			50.66	%	2020
Unprotected freshwater biodiversity sites	32.43	%	70.8			32.43	%	2020
Domestic land use related biodiversity loss	4.63×10^{-12}	global PDF/capita	93.9			1.30×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	8.86×10^{-13}	global PDF/capita	97.8			2.49×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.38	spp./million	37.3			10.68	species	2018
Spillover freshwater biodiversity threats	0.00	spp./million	100.0			0.04	species	2018
Domestic deforestation	0.02	%	98.3			1.11×10^{3}	hectares	2020
Spillover deforestation	8.15×10^{-5}	ha/capita	100.0			2.29×10^{3}	hectares	2018
Red List Index of species survival	0.83	scale 0 to 1	52.6			0.83	scale 0 to 1	2021
Biodiversity Habitat Index	0.37	scale 0 to 1	12.7			0.37	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	1.40×10^{-7}	WOE/million	100.0			4.00	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0			0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	NA	WOE/million	NA			NA	WOE	NA
Spillover endangered marine animals	0.00	WOE/capita	100.0			0.00	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA			NA	%	NA
Domestic marine biodiversity threats	0.00	spp./million	100.0			0.08	species	2018
Spillover marine biodiversity threats	0.00	spp./million	100.0			0.01	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA			NA	%	NA
Fish caught by trawling	NA	%	NA			NA	%	NA
Domestic vulnerable fisheries catch	NA	tonnes/capita	NA			NA	Tg	NA
Spillover vulnerable fisheries catch	0.97	tonnes/capita	73.1			0.03	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.72	scale 0 to 1.4	38.5			0.72	scale 0 to 1.4	2015
Domestic nitrogen surplus	6.90	kg/capita	81.5			186.32	Gg	2015
Spillover nitrogen surplus	0.42	kg/capita	76.4			11.34	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA			NA	kt	NA
Spillover phosphorus fertilizer	1.70	g/capita	52.9			47.64	kt	2018
Water Cycle								
Domestic scarce water consumption	0.04	m^3 H_2O-eq./capita	97.1			1.26	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	13.79	m^3 H_2O-eq./capita	73.9			60.72	Mm^3 H_2O-eq.	2018
Domestic water stress	0.49	ML H_2O-eq./capita	45.7			13.70	Bm^3 H_2O-eq.	2018
Spillover water stress	0.90	m^3 H_2O-eq./capita	60.9			3.97	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Netherlands

OECD Member

Land area	33,670 sq. km	**Population**	17.4 million
GDP (PPP, constant 2017 US$, billions)	$947.5	**GDP per capita**	$54,326
Human Development Index (HDI)	0.941	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		13.4 /100	→
ABSOLUTE		38.6 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Netherlands

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	3.71	kg/capita	66.6	●	↗	63.98	Gg	2018
Spillover SO_2 emissions	22.16	kg/capita	5.5	●	→	375.43	Gg	2015
Domestic NO_X emissions	14.76	kg/capita	79.8	●	→	254.42	Gg	2018
Spillover NO_X emissions	26.90	kg/capita	1.0	●	→	455.62	Gg	2015
Domestic black carbon emissions	0.14	kg/capita	96.4	●	↗	2.36	Gg	2018
Spillover black carbon emissions	0.97	kg/capita	1.8	●	→	16.42	Gg	2015
GHG Emissions								
Domestic GHG emissions	12.94	t CO_2e/capita	27.6	●	→	224.43	Tg	2019
Spillover GHG emissions	11.82	t CO_2e/capita	5.5	●	→	203.66	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.07	t CO_2e/capita	30.4	●	●	1.20	Tg	2021
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	79.59	%	21.7	●	↓	79.59	%	2020
Unprotected freshwater biodiversity sites	87.30	%	14.1	●	↓	87.30	%	2020
Domestic land use related biodiversity loss	4.04×10^{-13}	global PDF/capita	99.5	●	↗	6.96×10^{-6}	global PDF	2018
Spillover land use related biodiversity loss	1.57×10^{-11}	global PDF/capita	8.8	●	↓	2.71×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	0.01	spp./million	90.5	●	●	0.10	species	2018
Spillover freshwater biodiversity threats	0.59	spp./million	7.0	●	●	10.09	species	2018
Domestic deforestation	0.22	%	83.8	●	↓	1.54×10^{3}	hectares	2020
Spillover deforestation	6.74×10^{-3}	ha/capita	3.2	●	↓	1.16×10^{5}	hectares	2018
Red List Index of species survival	0.94	scale 0 to 1	84.4	●	↓	0.94	scale 0 to 1	2021
Biodiversity Habitat Index	0.30	scale 0 to 1	2.6	●	●	0.30	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	1.15×10^{-7}	WOE/million	100.0	●	●	2.00	WOE	2019
Spillover endangered terrestrial animals	9.77×10^{-4}	WOE/capita	88.6	●	●	1.69×10^{4}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	1.44×10^{-5}	WOE/million	99.5	●	●	2.50×10^{2}	WOE	2019
Spillover endangered marine animals	4.72×10^{-3}	WOE/capita	1.0	●	●	8.18×10^{4}	WOE	2019
Unprotected marine biodiversity sites	96.65	%	4.3	●	↓	96.65	%	2020
Domestic marine biodiversity threats	0.01	spp./million	88.6	●	●	0.24	species	2018
Spillover marine biodiversity threats	0.26	spp./million	18.2	●	●	4.49	species	2018
Fish caught from overexploited or collapsed stocks	53.06	%	15.3	●	↓	53.06	%	2018
Fish caught by trawling	31.31	%	48.9	●	→	31.31	%	2018
Domestic vulnerable fisheries catch	10.83	tonnes/capita	37.1	●	↓	0.19	Tg	2018
Spillover vulnerable fisheries catch	41.78	tonnes/capita	10.3	●	→	0.72	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.76	scale 0 to 1.4	34.8	●	↓	0.76	scale 0 to 1.4	2015
Domestic nitrogen surplus	13.48	kg/capita	62.5	●	↓	228.37	Gg	2015
Spillover nitrogen surplus	21.03	kg/capita	2.2	●	↓	356.31	Tg	2015
Domestic phosphorus fertilizer	0.75	kg/capita	100.0	●	↓	12.90	kt	2018
Spillover phosphorus fertilizer	8.11	g/capita	4.4	●	→	139.69	kt	2018
Water Cycle								
Domestic scarce water consumption	1.52	m^3 H_2O-eq./capita	57.5	●	↓	26.19	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	3.83	m^3 H_2O-eq./capita	100.0	●	→	69.56	Mm^3 H_2O-eq.	2018
Domestic water stress	0.09	ML H_2O-eq./capita	67.7	●	↓	1.52	Bm^3 H_2O-eq.	2018
Spillover water stress	0.10	m^3 H_2O-eq./capita	100.0	●	↓	1.82	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

New Zealand

OECD Member

Land area	263,310 sq. km	**Population**	5.1 million
GDP (PPP, constant 2017 US$, billions)	$215.6	**GDP per capita**	$42,404
Human Development Index (HDI)	0.937	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	15.1 /100	→
ABSOLUTE	●	52.4 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

The Global Commons Stewardship Index is a production of the Sustainable Development Solutions Network, the Yale Center for Environmental Law & Policy, and the Center for Global Commons at the University of Tokyo.

Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

New Zealand

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	7.58	kg/capita	50.2	●	↗	37.15	Gg	2018
Spillover SO_2 emissions	18.64	kg/capita	10.2	●	→	85.90	Gg	2015
Domestic NO_X emissions	39.41	kg/capita	29.4	●	→	193.15	Gg	2018
Spillover NO_X emissions	20.43	kg/capita	7.8	●	↓	94.16	Gg	2015
Domestic black carbon emissions	0.68	kg/capita	47.3	●	→	3.34	Gg	2018
Spillover black carbon emissions	0.75	kg/capita	8.9	●	↓	3.45	Gg	2015
GHG Emissions								
Domestic GHG emissions	19.01	t CO_2e/capita	12.6	●	→	94.65	Tg	2019
Spillover GHG emissions	8.07	t CO_2e/capita	16.2	●	↓	39.54	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.53	t CO_2e/capita	21.0	●	●	2.71	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	46.49	%	55.2	●	↓	46.49	%	2020
Unprotected freshwater biodiversity sites	24.58	%	78.9	●	↓	24.58	%	2020
Domestic land use related biodiversity loss	1.44×10^{-10}	global PDF/capita	1.0	●	→	7.06×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	1.45×10^{-11}	global PDF/capita	16.0	●	→	7.12×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	10.42	spp./million	1.0	●	●	49.40	species	2018
Spillover freshwater biodiversity threats	0.09	spp./million	39.0	●	●	0.42	species	2018
Domestic deforestation	0.56	%	58.2	●	↓	6.36×10^{4}	hectares	2020
Spillover deforestation	2.40×10^{-3}	ha/capita	66.9	●	↓	1.18×10^{4}	hectares	2018
Red List Index of species survival	0.62	scale 0 to 1	1.0	●	↓	0.62	scale 0 to 1	2021
Biodiversity Habitat Index	0.38	scale 0 to 1	13.1	●	●	0.38	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	4.02×10^{-6}	WOE/million	100.0	●	●	2.00×10	WOE	2019
Spillover endangered terrestrial animals	6.74×10^{-5}	WOE/capita	99.2	●	●	3.36×10^{2}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	6.02×10^{-6}	WOE/million	99.8	●	●	3.00×10	WOE	2019
Spillover endangered marine animals	1.55×10^{-3}	WOE/capita	1.0	●	●	7.71×10^{3}	WOE	2019
Unprotected marine biodiversity sites	47.08	%	53.4	●	↓	47.08	%	2020
Domestic marine biodiversity threats	12.85	spp./million	1.0	●	●	60.96	species	2018
Spillover marine biodiversity threats	0.38	spp./million	13.4	●	●	1.82	species	2018
Fish caught from overexploited or collapsed stocks	60.40	%	3.6	●	↓	60.40	%	2018
Fish caught by trawling	44.27	%	27.6	●	↓	44.27	%	2018
Domestic vulnerable fisheries catch	157.80	tonnes/capita	1.9	●	→	0.77	Tg	2018
Spillover vulnerable fisheries catch	11.87	tonnes/capita	31.3	●	↑	0.06	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.58	scale 0 to 1.4	50.3	●	→	0.58	scale 0 to 1.4	2015
Domestic nitrogen surplus	8.06	kg/capita	78.2	●	→	37.14	Gg	2015
Spillover nitrogen surplus	8.19	kg/capita	20.1	●	↓	37.76	Tg	2015
Domestic phosphorus fertilizer	63.26	kg/capita	1.0	●	→	310.00	kt	2018
Spillover phosphorus fertilizer	5.50	g/capita	16.5	●	→	26.93	kt	2018
Water Cycle								
Domestic scarce water consumption	70.71	m^3 H_2O-eq./capita	14.4	●	↓	346.52	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	141.61	m^3 H_2O-eq./capita	13.3	●	↓	4,464.64	Mm^3 H_2O-eq.	2018
Domestic water stress	1.95	ML H_2O-eq./capita	27.8	●	↓	9.53	Bm^3 H_2O-eq.	2018
Spillover water stress	2.19	m^3 H_2O-eq./capita	38.0	●	↓	69.05	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Nicaragua

Latin America and Caribbean

Land area	120,340 sq. km	**Population**	6.6 million
GDP (PPP, constant 2017 US$, billions)	$35.0	**GDP per capita**	$5,280
Human Development Index (HDI)	0.667	**HDI category**	Medium

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		71.8 /100	
ABSOLUTE		81.5 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Nicaragua

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	6.44	kg/capita	53.9			41.67	Gg	2018
Spillover SO_2 emissions	1.91	kg/capita	73.1			11.87	Gg	2015
Domestic NO_X emissions	8.95	kg/capita	91.7			57.84	Gg	2018
Spillover NO_X emissions	2.08	kg/capita	68.4			12.96	Gg	2015
Domestic black carbon emissions	0.48	kg/capita	65.6			3.09	Gg	2018
Spillover black carbon emissions	0.07	kg/capita	74.3			0.44	Gg	2015
GHG Emissions								
Domestic GHG emissions	4.25	t CO_2e/capita	70.7			27.83	Tg	2019
Spillover GHG emissions	0.92	t CO_2e/capita	77.3			5.92	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.00	t CO_2e/capita	98.9			0.00	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	69.68	%	31.7			69.68	%	2020
Unprotected freshwater biodiversity sites	73.67	%	28.2			73.67	%	2020
Domestic land use related biodiversity loss	4.21×10^{-11}	global PDF/capita	44.0			2.72×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	2.88×10^{-12}	global PDF/capita	85.8			1.86×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.40	spp./million	36.6			2.59	species	2018
Spillover freshwater biodiversity threats	0.00	spp./million	100.0			0.01	species	2018
Domestic deforestation	1.04	%	22.2			7.90×10^{4}	hectares	2020
Spillover deforestation	5.06×10^{-4}	ha/capita	94.7			3.27×10^{3}	hectares	2018
Red List Index of species survival	0.82	scale 0 to 1	48.0			0.82	scale 0 to 1	2021
Biodiversity Habitat Index	0.45	scale 0 to 1	24.3			0.45	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	1.60×10^{-5}	WOE/million	99.8			1.05×10^{2}	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0			0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0			0.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0			0.00	WOE	2019
Unprotected marine biodiversity sites	49.95	%	50.6			49.95	%	2020
Domestic marine biodiversity threats	1.63	spp./million	23.2			10.53	species	2018
Spillover marine biodiversity threats	0.02	spp./million	48.9			0.16	species	2018
Fish caught from overexploited or collapsed stocks	28.42	%	54.6			28.42	%	2018
Fish caught by trawling	0.00	%	100.0			0.00	%	2018
Domestic vulnerable fisheries catch	14.83	tonnes/capita	33.0			0.10	Tg	2018
Spillover vulnerable fisheries catch	1.18	tonnes/capita	69.8			0.01	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.99	scale 0 to 1.4	15.0			0.99	scale 0 to 1.4	2015
Domestic nitrogen surplus	14.77	kg/capita	58.8			91.90	Gg	2015
Spillover nitrogen surplus	0.85	kg/capita	63.1			5.29	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA			NA	kt	NA
Spillover phosphorus fertilizer	1.34	g/capita	60.1			8.69	kt	2018
Water Cycle								
Domestic scarce water consumption	3.87	m^3 H_2O-eq./capita	47.0			25.00	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	18.53	m^3 H_2O-eq./capita	66.2			45.37	Mm^3 H_2O-eq.	2018
Domestic water stress	0.03	ML H_2O-eq./capita	83.4			0.17	Bm^3 H_2O-eq.	2018
Spillover water stress	1.34	m^3 H_2O-eq./capita	50.6			3.28	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Niger

Africa

Land area	1,266,700 sq. km	**Population**	24.2 million
GDP (PPP, constant 2017 US$, billions)	$29.0	**GDP per capita**	$1,197
Human Development Index (HDI)	0.400	**HDI category**	Low

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		92.5 /100	
ABSOLUTE		79.7 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Niger

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	0.57	kg/capita	100.0	●	↓	12.76	Gg	2018
Spillover SO_2 emissions	0.29	kg/capita	100.0	●	↑	5.78	Gg	2015
Domestic NO_X emissions	1.99	kg/capita	100.0	●	↓	44.65	Gg	2018
Spillover NO_X emissions	0.35	kg/capita	100.0	●	↑	7.03	Gg	2015
Domestic black carbon emissions	0.27	kg/capita	84.3	●	↗	6.08	Gg	2018
Spillover black carbon emissions	0.02	kg/capita	100.0	●	↑	0.41	Gg	2015
GHG Emissions								
Domestic GHG emissions	2.22	t CO_2e/capita	95.9	●	↓	51.86	Tg	2019
Spillover GHG emissions	0.20	t CO_2e/capita	100.0	●	↓	4.45	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.00	t CO_2e/capita	77.5	●	●	0.00	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	54.69	%	46.9	●	↓	54.69	%	2020
Unprotected freshwater biodiversity sites	58.21	%	44.2	●	↓	58.21	%	2020
Domestic land use related biodiversity loss	5.20×10^{-13}	global PDF/capita	99.3	●	↗	1.17×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	3.61×10^{-13}	global PDF/capita	100.0	●	↓	8.10×10^{-6}	global PDF	2018
Domestic freshwater biodiversity threats	0.10	spp./million	55.0	●	●	2.33	species	2018
Spillover freshwater biodiversity threats	0.00	spp./million	94.5	●	●	0.07	species	2018
Domestic deforestation	0.00	%	100.0	●	●	0.00	hectares	2020
Spillover deforestation	9.51×10^{-5}	ha/capita	100.0	●	↓	2.13×10^{3}	hectares	2018
Red List Index of species survival	0.93	scale 0 to 1	82.8	●	↓	0.93	scale 0 to 1	2021
Biodiversity Habitat Index	0.56	scale 0 to 1	39.9	●	●	0.56	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	9.67×10^{-5}	WOE/million	99.0	●	●	2.25×10^{3}	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	NA	WOE/million	NA	●	●	NA	WOE	NA
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic marine biodiversity threats	0.01	spp./million	92.9	●	●	0.23	species	2018
Spillover marine biodiversity threats	0.00	spp./million	86.2	●	●	0.03	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	NA	%	NA	●	●	NA	%	NA
Domestic vulnerable fisheries catch	NA	tonnes/capita	NA	●	●	NA	Tg	NA
Spillover vulnerable fisheries catch	0.47	tonnes/capita	85.3	●	↓	0.01	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.92	scale 0 to 1.4	21.1	●	→	0.92	scale 0 to 1.4	2015
Domestic nitrogen surplus	3.18	kg/capita	92.2	●	↗	63.57	Gg	2015
Spillover nitrogen surplus	0.14	kg/capita	96.7	●	↑	2.89	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	0.35	g/capita	100.0	●	↓	7.77	kt	2018
Water Cycle								
Domestic scarce water consumption	0.43	m^3 H_2O-eq./capita	71.8	●	↓	9.59	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	10.20	m^3 H_2O-eq./capita	81.8	●	↓	229.00	Mm^3 H_2O-eq.	2018
Domestic water stress	0.20	ML H_2O-eq./capita	57.3	●	↗	4.45	Bm^3 H_2O-eq.	2018
Spillover water stress	0.56	m^3 H_2O-eq./capita	73.3	●	↓	12.53	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Nigeria

Africa

Land area	910,770 sq. km	**Population**	206.1 million
GDP (PPP, constant 2017 US$, billions)	$1,013.5	**GDP per capita**	$4,917
Human Development Index (HDI)	0.535	**HDI category**	Low

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		69.1 /100	
ABSOLUTE		32.4 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Nigeria

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	1.04	kg/capita	96.0	●	↓	203.24	Gg	2018
Spillover SO_2 emissions	0.73	kg/capita	99.8	●	↑	131.43	Gg	2015
Domestic NO_X emissions	5.49	kg/capita	98.8	●	↓	1,074.63	Gg	2018
Spillover NO_X emissions	0.75	kg/capita	95.5	●	↑	136.01	Gg	2015
Domestic black carbon emissions	1.19	kg/capita	1.0	●	→	233.76	Gg	2018
Spillover black carbon emissions	0.03	kg/capita	97.3	●	↑	5.58	Gg	2015
GHG Emissions								
Domestic GHG emissions	4.51	t CO_2e/capita	68.4	●	→	906.46	Tg	2019
Spillover GHG emissions	0.41	t CO_2e/capita	100.0	●	↑	79.81	Tg	2018
CO_2 emissions embodied in fossil fuel exports	1.06	t CO_2e/capita	17.9	●	●	218.67	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	80.41	%	20.9	●	↓	80.41	%	2020
Unprotected freshwater biodiversity sites	73.75	%	28.1	●	↓	73.75	%	2020
Domestic land use related biodiversity loss	3.72×10^{-13}	global PDF/capita	99.5	●	↗	7.29×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	5.47×10^{-13}	global PDF/capita	99.8	●	↑	1.07×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	0.31	spp./million	40.1	●	●	60.83	species	2018
Spillover freshwater biodiversity threats	0.00	spp./million	93.6	●	●	0.65	species	2018
Domestic deforestation	0.93	%	30.6	●	↓	1.01×10^{5}	hectares	2020
Spillover deforestation	1.47×10^{-4}	ha/capita	100.0	●	↓	2.88×10^{4}	hectares	2018
Red List Index of species survival	0.85	scale 0 to 1	58.0	●	↓	0.85	scale 0 to 1	2021
Biodiversity Habitat Index	0.33	scale 0 to 1	6.6	●	●	0.33	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	5.88×10^{-5}	WOE/million	99.4	●	●	1.18×10^{4}	WOE	2019
Spillover endangered terrestrial animals	1.44×10^{-7}	WOE/capita	100.0	●	●	2.90×10	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	1.74×10^{-8}	WOE/capita	100.0	●	●	3.50	WOE	2019
Unprotected marine biodiversity sites	0.00	%	100.0	●	●	0.00	%	2020
Domestic marine biodiversity threats	0.11	spp./million	60.5	●	●	21.53	species	2018
Spillover marine biodiversity threats	0.01	spp./million	62.1	●	●	1.67	species	2018
Fish caught from overexploited or collapsed stocks	10.24	%	83.7	●	↗	10.24	%	2018
Fish caught by trawling	8.18	%	86.8	●	↓	8.18	%	2018
Domestic vulnerable fisheries catch	4.48	tonnes/capita	48.7	●	→	0.88	Tg	2018
Spillover vulnerable fisheries catch	5.43	tonnes/capita	44.4	●	↓	1.06	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.84	scale 0 to 1.4	28.0	●	↓	0.84	scale 0 to 1.4	2015
Domestic nitrogen surplus	2.14	kg/capita	95.2	●	↓	387.49	Gg	2015
Spillover nitrogen surplus	0.23	kg/capita	87.6	●	↓	42.28	Tg	2015
Domestic phosphorus fertilizer	0.69	kg/capita	100.0	●	↓	136.10	kt	2018
Spillover phosphorus fertilizer	0.55	g/capita	87.8	●	↗	107.62	kt	2018
Water Cycle								
Domestic scarce water consumption	1.08	m^3 H_2O-eq./capita	61.4	●	↓	210.84	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	7.79	m^3 H_2O-eq./capita	88.8	●	↓	1,526.17	Mm^3 H_2O-eq.	2018
Domestic water stress	0.20	ML H_2O-eq./capita	57.2	●	↓	38.96	Bm^3 H_2O-eq.	2018
Spillover water stress	0.20	m^3 H_2O-eq./capita	100.0	●	↑	38.93	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

North Macedonia

Eastern Europe and Central Asia

Land area	25,220 sq. km	**Population**	2.1 million
GDP (PPP, constant 2017 US$, billions)	$33.0	**GDP per capita**	$15,848
Human Development Index (HDI)	0.770	**HDI category**	High

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		49.2 /100	
ABSOLUTE		82.6 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

North Macedonia

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	26.56	kg/capita	21.4	●	→	55.32	Gg	2018
Spillover SO_2 emissions	7.61	kg/capita	34.9	●	↑	15.82	Gg	2015
Domestic NO_X emissions	10.15	kg/capita	89.2	●	↓	21.15	Gg	2018
Spillover NO_X emissions	4.06	kg/capita	50.7	●	→	8.45	Gg	2015
Domestic black carbon emissions	0.15	kg/capita	94.9	●	↓	0.32	Gg	2018
Spillover black carbon emissions	0.11	kg/capita	61.8	●	↓	0.23	Gg	2015
GHG Emissions								
Domestic GHG emissions	5.87	t CO_2e/capita	58.3	●	↓	12.22	Tg	2019
Spillover GHG emissions	3.11	t CO_2e/capita	42.9	●	↓	6.48	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.00	t CO_2e/capita	49.8	●	●	0.00	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	24.40	%	77.6	●	↓	24.40	%	2020
Unprotected freshwater biodiversity sites	93.64	%	7.6	●	↓	93.64	%	2020
Domestic land use related biodiversity loss	7.24×10^{-12}	global PDF/capita	90.4	●	↓	1.51×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	3.13×10^{-12}	global PDF/capita	84.3	●	↓	6.52×10^{-6}	global PDF	2018
Domestic freshwater biodiversity threats	20.05	spp./million	1.0	●	●	41.77	species	2018
Spillover freshwater biodiversity threats	0.15	spp./million	29.9	●	●	0.32	species	2018
Domestic deforestation	0.26	%	80.5	●	↓	1.60×10^{3}	hectares	2020
Spillover deforestation	2.05×10^{-3}	ha/capita	72.0	●	↓	4.27×10^{3}	hectares	2018
Red List Index of species survival	0.97	scale 0 to 1	94.1	●	↓	0.97	scale 0 to 1	2021
Biodiversity Habitat Index	0.38	scale 0 to 1	14.2	●	●	0.38	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	1.97×10^{-5}	WOE/million	99.8	●	●	4.10×10	WOE	2019
Spillover endangered terrestrial animals	1.25×10^{-5}	WOE/capita	99.9	●	●	2.60×10	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	NA	WOE/million	NA	●	●	NA	WOE	NA
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic marine biodiversity threats	NA	spp./million	NA	●	●	NA	species	NA
Spillover marine biodiversity threats	0.04	spp./million	42.3	●	●	0.08	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	NA	%	NA	●	●	NA	%	NA
Domestic vulnerable fisheries catch	NA	tonnes/capita	NA	●	●	NA	Tg	NA
Spillover vulnerable fisheries catch	5.66	tonnes/capita	43.7	●	↓	0.01	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.75	scale 0 to 1.4	36.0	●	→	0.75	scale 0 to 1.4	2015
Domestic nitrogen surplus	10.21	kg/capita	72.0	●	↓	21.23	Gg	2015
Spillover nitrogen surplus	3.26	kg/capita	37.6	●	→	6.77	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	1.46	g/capita	57.6	●	→	3.03	kt	2018
Water Cycle								
Domestic scarce water consumption	3.66	m^3 H_2O-eq./capita	47.7	●	↓	7.63	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	10.66	m^3 H_2O-eq./capita	80.6	●	↓	68.92	Mm^3 H_2O-eq.	2018
Domestic water stress	12.93	ML H_2O-eq./capita	3.3	●	↓	26.94	Bm^3 H_2O-eq.	2018
Spillover water stress	0.40	m^3 H_2O-eq./capita	81.9	●	↓	2.59	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Norway

OECD Member

Land area	365,108 sq. km	**Population**	5.4 million
GDP (PPP, constant 2017 US$, billions)	$342.0	**GDP per capita**	$63,584
Human Development Index (HDI)	0.961	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		13.2 /100	→
ABSOLUTE		46.2 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Norway

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	13.73	kg/capita	36.5			72.93	Gg	2018
Spillover SO_2 emissions	17.75	kg/capita	11.6			92.11	Gg	2015
Domestic NO_X emissions	23.87	kg/capita	61.2			126.78	Gg	2018
Spillover NO_X emissions	24.90	kg/capita	2.5			129.19	Gg	2015
Domestic black carbon emissions	0.44	kg/capita	69.1			2.33	Gg	2018
Spillover black carbon emissions	0.79	kg/capita	7.4			4.10	Gg	2015
GHG Emissions								
Domestic GHG emissions	14.33	t CO_2e/capita	23.6			76.64	Tg	2019
Spillover GHG emissions	9.76	t CO_2e/capita	10.8			51.86	Tg	2018
CO_2 emissions embodied in fossil fuel exports	83.15	t CO_2e/capita	1.0			447.32	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	56.50	%	45.1			56.50	%	2020
Unprotected freshwater biodiversity sites	64.28	%	37.9			64.28	%	2020
Domestic land use related biodiversity loss	3.10×10^{-13}	global PDF/capita	99.6			1.65×10^{-6}	global PDF	2018
Spillover land use related biodiversity loss	8.27×10^{-12}	global PDF/capita	53.5			4.40×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.16	spp./million	49.5			0.83	species	2018
Spillover freshwater biodiversity threats	0.38	spp./million	14.6			2.01	species	2018
Domestic deforestation	0.47	%	65.0			6.08×10^{4}	hectares	2020
Spillover deforestation	8.41×10^{-3}	ha/capita	1.0			4.47×10^{4}	hectares	2018
Red List Index of species survival	0.95	scale 0 to 1	87.3			0.95	scale 0 to 1	2021
Biodiversity Habitat Index	0.70	scale 0 to 1	59.6			0.70	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	3.74×10^{-7}	WOE/million	100.0			2.00	WOE	2019
Spillover endangered terrestrial animals	5.03×10^{-5}	WOE/capita	99.4			2.69×10^{2}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0			0.00	WOE	2019
Spillover endangered marine animals	3.88×10^{-4}	WOE/capita	75.2			2.07×10^{3}	WOE	2019
Unprotected marine biodiversity sites	55.13	%	45.4			55.13	%	2020
Domestic marine biodiversity threats	0.97	spp./million	30.3			5.20	species	2018
Spillover marine biodiversity threats	0.42	spp./million	12.2			2.24	species	2018
Fish caught from overexploited or collapsed stocks	18.30	%	70.8			18.30	%	2018
Fish caught by trawling	33.64	%	45.0			33.64	%	2018
Domestic vulnerable fisheries catch	559.71	tonnes/capita	1.0			2.97	Tg	2018
Spillover vulnerable fisheries catch	39.21	tonnes/capita	11.4			0.21	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.84	scale 0 to 1.4	27.6			0.84	scale 0 to 1.4	2015
Domestic nitrogen surplus	21.46	kg/capita	39.6			111.33	Gg	2015
Spillover nitrogen surplus	20.16	kg/capita	3.0			104.58	Tg	2015
Domestic phosphorus fertilizer	3.84	kg/capita	56.5			20.38	kt	2018
Spillover phosphorus fertilizer	6.98	g/capita	9.1			37.08	kt	2018
Water Cycle								
Domestic scarce water consumption	0.42	m^3 H_2O-eq./capita	71.9			2.25	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	201.24	m^3 H_2O-eq./capita	4.2			3,467.66	Mm^3 H_2O-eq.	2018
Domestic water stress	0.04	ML H_2O-eq./capita	76.9			0.23	Bm^3 H_2O-eq.	2018
Spillover water stress	5.13	m^3 H_2O-eq./capita	16.0			88.34	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Oman

Middle East and North Africa

Land area	309,500 sq. km	**Population**	5.1 million
GDP (PPP, constant 2017 US$, billions)	$150.7	**GDP per capita**	$29,502
Human Development Index (HDI)	0.816	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		9.6 /100	→
ABSOLUTE		51.1 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories
Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Oman

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	11.73	kg/capita	40.2	●	↓	56.64	Gg	2018
Spillover SO_2 emissions	14.01	kg/capita	18.1	●	→	59.78	Gg	2015
Domestic NO_X emissions	33.16	kg/capita	42.1	●	→	160.16	Gg	2018
Spillover NO_X emissions	15.04	kg/capita	15.9	●	↓	64.20	Gg	2015
Domestic black carbon emissions	0.27	kg/capita	84.8	●	↗	1.28	Gg	2018
Spillover black carbon emissions	0.51	kg/capita	19.6	●	→	2.18	Gg	2015
GHG Emissions								
Domestic GHG emissions	25.27	t CO_2e/capita	1.6	●	→	125.70	Tg	2019
Spillover GHG emissions	6.67	t CO_2e/capita	21.5	●	→	32.23	Tg	2018
CO_2 emissions embodied in fossil fuel exports	30.97	t CO_2e/capita	2.5	●	●	149.56	Tg	2018
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	11.81	%	90.4	●	↓	11.81	%	2020
Unprotected freshwater biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic land use related biodiversity loss	7.90×10^{-13}	global PDF/capita	99.0	●	↗	3.82×10^{-6}	global PDF	2018
Spillover land use related biodiversity loss	7.60×10^{-12}	global PDF/capita	57.5	●	↓	3.67×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.39	spp./million	37.0	●	●	1.88	species	2018
Spillover freshwater biodiversity threats	0.24	spp./million	22.1	●	●	1.17	species	2018
Domestic deforestation	NA	%	NA	●	●	NA	hectares	NA
Spillover deforestation	1.22×10^{-3}	ha/capita	84.2	●	↓	5.90×10^{3}	hectares	2018
Red List Index of species survival	0.88	scale 0 to 1	67.7	●	↓	0.88	scale 0 to 1	2021
Biodiversity Habitat Index	0.63	scale 0 to 1	49.4	●	●	0.63	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	6.23×10^{-4}	WOE/capita	92.7	●	●	3.10×10^{3}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	1.44×10^{-3}	WOE/million	50.8	●	●	7.18×10^{3}	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	7.07	%	93.0	●	↓	7.07	%	2020
Domestic marine biodiversity threats	4.59	spp./million	8.8	●	●	22.15	species	2018
Spillover marine biodiversity threats	0.13	spp./million	27.0	●	●	0.64	species	2018
Fish caught from overexploited or collapsed stocks	3.33	%	94.7	●	↗	3.33	%	2018
Fish caught by trawling	0.00	%	100.0	●	↑	0.00	%	2018
Domestic vulnerable fisheries catch	146.47	tonnes/capita	2.9	●	↓	0.71	Tg	2018
Spillover vulnerable fisheries catch	7.19	tonnes/capita	39.7	●	↑	0.03	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.74	scale 0 to 1.4	36.3	●	→	0.74	scale 0 to 1.4	2015
Domestic nitrogen surplus	0.05	kg/capita	100.0	●	↑	0.22	Gg	2015
Spillover nitrogen surplus	6.86	kg/capita	23.4	●	→	29.28	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	3.65	g/capita	29.1	●	→	17.64	kt	2018
Water Cycle								
Domestic scarce water consumption	14.74	m^3 H_2O-eq./capita	32.0	●	→	71.21	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	122.01	m^3 H_2O-eq./capita	17.2	●	→	648.13	Mm^3 H_2O-eq.	2018
Domestic water stress	1.67	ML H_2O-eq./capita	29.8	●	→	8.06	Bm^3 H_2O-eq.	2018
Spillover water stress	3.23	m^3 H_2O-eq./capita	27.9	●	→	17.18	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Pakistan

East and South Asia

Land area	770,880 sq. km	**Population**	220.9 million
GDP (PPP, constant 2017 US$, billions)	$1,021.1	**GDP per capita**	$4,623
Human Development Index (HDI)	0.544	**HDI category**	Low

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		78.0 /100	
ABSOLUTE		38.7 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Pakistan

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	4.94	kg/capita	60.1	●	↗	1,048.16	Gg	2018
Spillover SO_2 emissions	0.72	kg/capita	100.0	●	↓	143.50	Gg	2015
Domestic NO_X emissions	4.95	kg/capita	99.9	●	↓	1,051.34	Gg	2018
Spillover NO_X emissions	0.62	kg/capita	100.0	●	↓	123.19	Gg	2015
Domestic black carbon emissions	0.44	kg/capita	69.2	●	→	93.06	Gg	2018
Spillover black carbon emissions	0.03	kg/capita	100.0	●	↓	5.56	Gg	2015
GHG Emissions								
Domestic GHG emissions	3.41	t CO_2e/capita	79.3	●	↓	738.62	Tg	2019
Spillover GHG emissions	0.33	t CO_2e/capita	100.0	●	↓	70.23	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.01	t CO_2e/capita	41.8	●	●	1.24	Tg	2021
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	34.79	%	67.1	●	↓	34.79	%	2020
Unprotected freshwater biodiversity sites	35.90	%	67.2	●	↓	35.90	%	2020
Domestic land use related biodiversity loss	5.02×10^{-13}	global PDF/capita	99.4	●	↗	1.07×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	5.12×10^{-13}	global PDF/capita	100.0	●	↓	1.09×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	0.03	spp./million	72.7	●	●	5.76	species	2018
Spillover freshwater biodiversity threats	0.01	spp./million	85.5	●	●	1.16	species	2018
Domestic deforestation	0.00	%	99.8	●	↓	1.96×10	hectares	2020
Spillover deforestation	1.51×10^{-4}	ha/capita	99.9	●	↓	3.20×10^{4}	hectares	2018
Red List Index of species survival	0.85	scale 0 to 1	58.1	●	↓	0.85	scale 0 to 1	2021
Biodiversity Habitat Index	0.40	scale 0 to 1	16.2	●	●	0.40	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	1.85×10^{-7}	WOE/million	100.0	●	●	4.00×10	WOE	2019
Spillover endangered terrestrial animals	7.37×10^{-6}	WOE/capita	99.9	●	●	1.60×10^{3}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	3.94×10^{-6}	WOE/capita	99.7	●	●	8.53×10^{2}	WOE	2019
Unprotected marine biodiversity sites	14.58	%	85.6	●	↓	14.58	%	2020
Domestic marine biodiversity threats	0.04	spp./million	75.4	●	●	7.94	species	2018
Spillover marine biodiversity threats	0.00	spp./million	100.0	●	●	0.06	species	2018
Fish caught from overexploited or collapsed stocks	30.11	%	52.0	●	→	30.11	%	2018
Fish caught by trawling	0.00	%	100.0	●	●	0.00	%	2018
Domestic vulnerable fisheries catch	4.67	tonnes/capita	48.2	●	→	0.99	Tg	2018
Spillover vulnerable fisheries catch	0.19	tonnes/capita	100.0	●	↑	0.04	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.89	scale 0 to 1.4	23.9	●	→	0.89	scale 0 to 1.4	2015
Domestic nitrogen surplus	15.32	kg/capita	57.3	●	↓	3,054.45	Gg	2015
Spillover nitrogen surplus	0.12	kg/capita	100.0	●	↑	24.20	Tg	2015
Domestic phosphorus fertilizer	5.93	kg/capita	44.8	●	↓	1,257.77	kt	2018
Spillover phosphorus fertilizer	0.37	g/capita	100.0	●	↑	78.61	kt	2018
Water Cycle								
Domestic scarce water consumption	68.07	m^3 H_2O-eq./capita	14.8	●	→	14,445.56	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	63.86	m^3 H_2O-eq./capita	34.0	●	↓	1,794.30	Mm^3 H_2O-eq.	2018
Domestic water stress	7.50	ML H_2O-eq./capita	10.4	●	→	1,590.94	Bm^3 H_2O-eq.	2018
Spillover water stress	1.51	m^3 H_2O-eq./capita	47.6	●	↓	42.33	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Panama

Latin America and Caribbean

Land area	74,177 sq. km	**Population**	4.3 million
GDP (PPP, constant 2017 US$, billions)	$109.5	**GDP per capita**	$25,382
Human Development Index (HDI)	0.805	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		49.7 /100	
ABSOLUTE		74.9 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
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50–70	High
30–50	Very high
0–30	Extreme

Trajectories
Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Panama

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	13.69	kg/capita	36.6	●	→	57.18	Gg	2018
Spillover SO_2 emissions	6.56	kg/capita	39.0	●	↑	26.02	Gg	2015
Domestic NO_X emissions	17.15	kg/capita	74.9	●	↑	71.64	Gg	2018
Spillover NO_X emissions	6.89	kg/capita	36.7	●	→	27.32	Gg	2015
Domestic black carbon emissions	0.39	kg/capita	73.5	●	↗	1.63	Gg	2018
Spillover black carbon emissions	0.32	kg/capita	32.8	●	→	1.25	Gg	2015
GHG Emissions								
Domestic GHG emissions	5.32	t CO_2e/capita	62.0	●	↓	22.59	Tg	2019
Spillover GHG emissions	2.85	t CO_2e/capita	45.4	●	→	11.92	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA	●	●	NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	33.20	%	68.7	●	↓	33.20	%	2020
Unprotected freshwater biodiversity sites	55.25	%	47.2	●	↓	55.25	%	2020
Domestic land use related biodiversity loss	6.26×10^{-11}	global PDF/capita	16.7	●	→	2.62×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	5.81×10^{-12}	global PDF/capita	68.3	●	↓	2.42×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	1.75	spp./million	16.4	●	●	7.32	species	2018
Spillover freshwater biodiversity threats	0.09	spp./million	38.8	●	●	0.38	species	2018
Domestic deforestation	0.52	%	61.0	●	↓	2.88×10^{4}	hectares	2020
Spillover deforestation	8.70×10^{-4}	ha/capita	89.4	●	↓	3.63×10^{3}	hectares	2018
Red List Index of species survival	0.73	scale 0 to 1	20.0	●	↓	0.73	scale 0 to 1	2021
Biodiversity Habitat Index	0.43	scale 0 to 1	21.3	●	●	0.43	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	9.42×10^{-7}	WOE/million	100.0	●	●	4.00	WOE	2019
Spillover endangered terrestrial animals	4.00×10^{-6}	WOE/capita	100.0	●	●	1.70×10	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	1.64×10^{-4}	WOE/capita	89.5	●	●	6.97×10^{2}	WOE	2019
Unprotected marine biodiversity sites	23.46	%	76.8	●	↓	23.46	%	2020
Domestic marine biodiversity threats	9.64	spp./million	1.0	●	●	40.28	species	2018
Spillover marine biodiversity threats	0.38	spp./million	13.4	●	●	1.61	species	2018
Fish caught from overexploited or collapsed stocks	6.11	%	90.3	●	↑	6.11	%	2018
Fish caught by trawling	0.29	%	99.8	●	↑	0.29	%	2018
Domestic vulnerable fisheries catch	35.10	tonnes/capita	21.7	●	↓	0.15	Tg	2018
Spillover vulnerable fisheries catch	3.96	tonnes/capita	49.7	●	→	0.02	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	1.02	scale 0 to 1.4	11.9	●	↓	1.02	scale 0 to 1.4	2015
Domestic nitrogen surplus	6.84	kg/capita	81.7	●	↓	27.14	Gg	2015
Spillover nitrogen surplus	4.02	kg/capita	33.6	●	→	15.93	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	1.49	g/capita	56.9	●	→	6.23	kt	2018
Water Cycle								
Domestic scarce water consumption	11.08	m^3 H_2O-eq./capita	35.2	●	↓	46.27	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	42.40	m^3 H_2O-eq./capita	44.7	●	↓	207.81	Mm^3 H_2O-eq.	2018
Domestic water stress	0.08	ML H_2O-eq./capita	69.5	●	↗	0.32	Bm^3 H_2O-eq.	2018
Spillover water stress	2.91	m^3 H_2O-eq./capita	30.6	●	↓	14.27	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Papua New Guinea

Oceania

Land area	452,860 sq. km	**Population**	8.9 million
GDP (PPP, constant 2017 US$, billions)	$36.7	**GDP per capita**	$4,101
Human Development Index (HDI)	0.558	**HDI category**	Medium

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	75.4 /100	→
ABSOLUTE	●	79.7 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Papua New Guinea

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	4.34	kg/capita	63.1			37.33	Gg	2018
Spillover SO_2 emissions	1.71	kg/capita	76.1			13.89	Gg	2015
Domestic NO_X emissions	5.63	kg/capita	98.5			48.47	Gg	2018
Spillover NO_X emissions	2.26	kg/capita	66.2			18.36	Gg	2015
Domestic black carbon emissions	0.33	kg/capita	79.0			2.84	Gg	2018
Spillover black carbon emissions	0.09	kg/capita	67.5			0.73	Gg	2015
GHG Emissions								
Domestic GHG emissions	1.95	t CO_2e/capita	100.0			17.14	Tg	2019
Spillover GHG emissions	1.14	t CO_2e/capita	71.1			9.84	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA			NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	7.31	%	95.0			7.31	%	2020
Unprotected freshwater biodiversity sites	NA	%	NA			NA	%	NA
Domestic land use related biodiversity loss	1.97×10^{-10}	global PDF/capita	1.0			1.70×10^{-3}	global PDF	2018
Spillover land use related biodiversity loss	6.54×10^{-12}	global PDF/capita	63.8			5.63×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	1.02	spp./million	23.8			8.80	species	2018
Spillover freshwater biodiversity threats	0.00	spp./million	100.0			0.01	species	2018
Domestic deforestation	0.21	%	84.1			9.07×10^{4}	hectares	2020
Spillover deforestation	5.02×10^{-4}	ha/capita	94.8			4.32×10^{3}	hectares	2018
Red List Index of species survival	0.83	scale 0 to 1	51.7			0.83	scale 0 to 1	2021
Biodiversity Habitat Index	0.67	scale 0 to 1	55.2			0.67	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	1.03×10^{-3}	WOE/million	89.2			9.06×10^{3}	WOE	2019
Spillover endangered terrestrial animals	1.14×10^{-6}	WOE/capita	100.0			1.00×10	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	2.40×10^{-4}	WOE/million	91.8			2.11×10^{3}	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0			0.00	WOE	2019
Unprotected marine biodiversity sites	1.89	%	98.1			1.89	%	2020
Domestic marine biodiversity threats	8.06	spp./million	1.0			69.35	species	2018
Spillover marine biodiversity threats	0.03	spp./million	46.3			0.25	species	2018
Fish caught from overexploited or collapsed stocks	5.04	%	92.0			5.04	%	2018
Fish caught by trawling	0.00	%	100.0			0.00	%	2018
Domestic vulnerable fisheries catch	56.51	tonnes/capita	15.4			0.49	Tg	2018
Spillover vulnerable fisheries catch	4.65	tonnes/capita	47.0			0.04	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.92	scale 0 to 1.4	21.3			0.92	scale 0 to 1.4	2015
Domestic nitrogen surplus	2.58	kg/capita	93.9			20.91	Gg	2015
Spillover nitrogen surplus	0.35	kg/capita	79.8			2.85	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA			NA	kt	NA
Spillover phosphorus fertilizer	2.19	g/capita	45.0			18.84	kt	2018
Water Cycle								
Domestic scarce water consumption	0.30	m^3 H_2O-eq./capita	75.8			2.56	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	109.33	m^3 H_2O-eq./capita	20.0			527.99	Mm^3 H_2O-eq.	2018
Domestic water stress	0.00	ML H_2O-eq./capita	100.0			0.01	Bm^3 H_2O-eq.	2018
Spillover water stress	7.33	m^3 H_2O-eq./capita	6.7			35.39	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Paraguay

Latin America and Caribbean

Land area	397,300 sq. km	**Population**	7.1 million
GDP (PPP, constant 2017 US$, billions)	$88.0	**GDP per capita**	$12,335
Human Development Index (HDI)	0.717	**HDI category**	High

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		44.5 /100	→
ABSOLUTE		70.3 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Paraguay

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	1.23	kg/capita	92.0			8.58	Gg	2018
Spillover SO_2 emissions	3.26	kg/capita	58.3			21.79	Gg	2015
Domestic NO_X emissions	16.02	kg/capita	77.2			111.43	Gg	2018
Spillover NO_X emissions	3.44	kg/capita	55.1			23.01	Gg	2015
Domestic black carbon emissions	1.30	kg/capita	1.0			9.03	Gg	2018
Spillover black carbon emissions	0.20	kg/capita	45.1			1.35	Gg	2015
GHG Emissions								
Domestic GHG emissions	9.13	t CO_2e/capita	41.1			64.33	Tg	2019
Spillover GHG emissions	1.67	t CO_2e/capita	60.4			11.60	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA			NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	36.25	%	65.6			36.25	%	2020
Unprotected freshwater biodiversity sites	38.83	%	64.2			38.83	%	2020
Domestic land use related biodiversity loss	3.67×10^{-11}	global PDF/capita	51.1			2.56×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	3.40×10^{-12}	global PDF/capita	82.7			2.36×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.29	spp./million	40.8			2.05	species	2018
Spillover freshwater biodiversity threats	0.01	spp./million	78.8			0.06	species	2018
Domestic deforestation	1.28	%	4.1			2.61×10^{5}	hectares	2020
Spillover deforestation	8.84×10^{-4}	ha/capita	89.2			6.15×10^{3}	hectares	2018
Red List Index of species survival	0.95	scale 0 to 1	89.2			0.95	scale 0 to 1	2021
Biodiversity Habitat Index	0.51	scale 0 to 1	32.9			0.51	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	5.25×10^{-4}	WOE/million	94.5			3.70×10^{3}	WOE	2019
Spillover endangered terrestrial animals	4.26×10^{-7}	WOE/capita	100.0			3.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	NA	WOE/million	NA			NA	WOE	NA
Spillover endangered marine animals	9.23×10^{-7}	WOE/capita	99.9			6.50	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA			NA	%	NA
Domestic marine biodiversity threats	NA	spp./million	NA			NA	species	NA
Spillover marine biodiversity threats	0.04	spp./million	41.7			0.29	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA			NA	%	NA
Fish caught by trawling	NA	%	NA			NA	%	NA
Domestic vulnerable fisheries catch	NA	tonnes/capita	NA			NA	Tg	NA
Spillover vulnerable fisheries catch	0.59	tonnes/capita	81.4			0.00	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.29	scale 0 to 1.4	75.9			0.29	scale 0 to 1.4	2015
Domestic nitrogen surplus	43.16	kg/capita	1.0			288.67	Gg	2015
Spillover nitrogen surplus	5.16	kg/capita	28.8			34.53	Tg	2015
Domestic phosphorus fertilizer	31.85	kg/capita	1.0			221.55	kt	2018
Spillover phosphorus fertilizer	1.70	g/capita	52.8			11.82	kt	2018
Water Cycle								
Domestic scarce water consumption	128.10	m^3 H_2O-eq./capita	7.7			891.11	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	6.04	m^3 H_2O-eq./capita	95.4			1,282.60	Mm^3 H_2O-eq.	2018
Domestic water stress	7.27	ML H_2O-eq./capita	10.8			50.59	Bm^3 H_2O-eq.	2018
Spillover water stress	0.36	m^3 H_2O-eq./capita	84.7			76.08	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Peru

Latin America and Caribbean

Land area	**1,280,000 sq. km**	**Population**	**33.0 million**
GDP (PPP, constant 2017 US$, billions)	**$371.3**	**GDP per capita**	**$11,261**
Human Development Index (HDI)	**0.762**	**HDI category**	**High**

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	**59.0** /100	→
ABSOLUTE	●	**51.1** /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories
Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Peru

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	5.91	kg/capita	55.9	●	↗	189.18	Gg	2018
Spillover SO_2 emissions	2.99	kg/capita	60.7	●	↓	91.11	Gg	2015
Domestic NO_X emissions	9.14	kg/capita	91.3	●	↓	292.51	Gg	2018
Spillover NO_X emissions	2.97	kg/capita	59.0	●	↓	90.55	Gg	2015
Domestic black carbon emissions	0.37	kg/capita	75.8	●	→	11.69	Gg	2018
Spillover black carbon emissions	0.13	kg/capita	58.4	●	↓	3.82	Gg	2015
GHG Emissions								
Domestic GHG emissions	3.64	t CO_2e/capita	76.8	●	↗	118.26	Tg	2019
Spillover GHG emissions	1.41	t CO_2e/capita	65.1	●	↓	45.14	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.39	t CO_2e/capita	22.5	●	●	12.86	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	29.60	%	72.4	●	↓	29.60	%	2020
Unprotected freshwater biodiversity sites	49.58	%	53.1	●	↓	49.58	%	2020
Domestic land use related biodiversity loss	3.38×10^{-11}	global PDF/capita	55.0	●	→	1.08×10^{-3}	global PDF	2018
Spillover land use related biodiversity loss	3.23×10^{-12}	global PDF/capita	83.7	●	↓	1.03×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	2.71	spp./million	10.4	●	●	86.61	species	2018
Spillover freshwater biodiversity threats	0.04	spp./million	51.1	●	●	1.38	species	2018
Domestic deforestation	0.30	%	77.7	●	↓	2.34×10^{5}	hectares	2020
Spillover deforestation	6.85×10^{-4}	ha/capita	92.1	●	↓	2.19×10^{4}	hectares	2018
Red List Index of species survival	0.73	scale 0 to 1	20.3	●	↓	0.73	scale 0 to 1	2021
Biodiversity Habitat Index	0.60	scale 0 to 1	44.8	●	●	0.60	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	9.56×10^{-3}	WOE/million	1.0	●	●	3.11×10^{5}	WOE	2019
Spillover endangered terrestrial animals	3.38×10^{-7}	WOE/capita	100.0	●	●	1.10×10	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	2.59×10^{-5}	WOE/million	99.1	●	●	8.41×10^{2}	WOE	2019
Spillover endangered marine animals	1.93×10^{-5}	WOE/capita	98.8	●	●	6.29×10^{2}	WOE	2019
Unprotected marine biodiversity sites	51.64	%	48.9	●	↓	51.64	%	2020
Domestic marine biodiversity threats	1.01	spp./million	29.8	●	●	32.35	species	2018
Spillover marine biodiversity threats	0.01	spp./million	59.0	●	●	0.35	species	2018
Fish caught from overexploited or collapsed stocks	1.19	%	98.2	●	↑	1.19	%	2018
Fish caught by trawling	1.27	%	98.2	●	↑	1.27	%	2018
Domestic vulnerable fisheries catch	244.86	tonnes/capita	1.0	●	↓	7.83	Tg	2018
Spillover vulnerable fisheries catch	3.69	tonnes/capita	50.9	●	→	0.12	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.83	scale 0 to 1.4	28.9	●	→	0.83	scale 0 to 1.4	2015
Domestic nitrogen surplus	7.56	kg/capita	79.6	●	↓	230.36	Gg	2015
Spillover nitrogen surplus	2.14	kg/capita	45.5	●	↓	65.27	Tg	2015
Domestic phosphorus fertilizer	2.34	kg/capita	69.7	●	↗	74.97	kt	2018
Spillover phosphorus fertilizer	3.11	g/capita	34.1	●	↓	99.58	kt	2018
Water Cycle								
Domestic scarce water consumption	0.03	m^3 H_2O-eq./capita	100.0	●	↑	1.11	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	15.83	m^3 H_2O-eq./capita	70.3	●	↓	66.12	Mm^3 H_2O-eq.	2018
Domestic water stress	0.89	ML H_2O-eq./capita	37.9	●	→	28.44	Bm^3 H_2O-eq.	2018
Spillover water stress	0.85	m^3 H_2O-eq./capita	62.5	●	↓	3.54	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Philippines

East and South Asia

Land area	298,170 sq. km	**Population**	109.6 million
GDP (PPP, constant 2017 US$, billions)	$871.6	**GDP per capita**	$7,954
Human Development Index (HDI)	0.699	**HDI category**	Medium

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		64.7 /100	↓
ABSOLUTE		38.3 /100	↓

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Philippines

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	4.80	kg/capita	60.7	●	↓	511.90	Gg	2018
Spillover SO_2 emissions	1.63	kg/capita	77.5	●	↓	166.00	Gg	2015
Domestic NO_X emissions	6.45	kg/capita	96.8	●	↓	688.31	Gg	2018
Spillover NO_X emissions	1.67	kg/capita	74.3	●	↓	170.57	Gg	2015
Domestic black carbon emissions	0.39	kg/capita	73.8	●	↓	41.29	Gg	2018
Spillover black carbon emissions	0.07	kg/capita	75.9	●	↓	6.81	Gg	2015
GHG Emissions								
Domestic GHG emissions	3.14	t CO_2e/capita	82.6	●	↓	339.03	Tg	2019
Spillover GHG emissions	1.17	t CO_2e/capita	70.3	●	↓	125.01	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.14	t CO_2e/capita	27.1	●	●	15.39	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	41.64	%	60.2	●	↓	41.64	%	2020
Unprotected freshwater biodiversity sites	49.84	%	52.8	●	↓	49.84	%	2020
Domestic land use related biodiversity loss	2.12×10^{-11}	global PDF/capita	71.8	●	→	2.26×10^{-3}	global PDF	2018
Spillover land use related biodiversity loss	2.12×10^{-12}	global PDF/capita	90.4	●	↓	2.26×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	0.21	spp./million	45.4	●	●	22.43	species	2018
Spillover freshwater biodiversity threats	0.01	spp./million	77.6	●	●	0.95	species	2018
Domestic deforestation	0.35	%	73.5	●	↓	6.49×10^{4}	hectares	2020
Spillover deforestation	5.53×10^{-4}	ha/capita	94.0	●	↓	5.90×10^{4}	hectares	2018
Red List Index of species survival	0.67	scale 0 to 1	2.2	●	↓	0.67	scale 0 to 1	2021
Biodiversity Habitat Index	0.36	scale 0 to 1	10.7	●	●	0.36	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	1.78×10^{-5}	WOE/million	99.8	●	●	1.93×10^{3}	WOE	2019
Spillover endangered terrestrial animals	8.45×10^{-6}	WOE/capita	99.9	●	●	9.14×10^{2}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	1.20×10^{-5}	WOE/million	99.6	●	●	1.30×10^{3}	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	38.00	%	62.4	●	↓	38.00	%	2020
Domestic marine biodiversity threats	1.14	spp./million	28.1	●	●	121.38	species	2018
Spillover marine biodiversity threats	0.02	spp./million	50.6	●	●	2.25	species	2018
Fish caught from overexploited or collapsed stocks	12.53	%	80.0	●	↗	12.53	%	2018
Fish caught by trawling	3.40	%	94.7	●	↗	3.40	%	2018
Domestic vulnerable fisheries catch	42.65	tonnes/capita	19.1	●	→	4.55	Tg	2018
Spillover vulnerable fisheries catch	3.18	tonnes/capita	53.4	●	↓	0.34	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.77	scale 0 to 1.4	33.9	●	↓	0.77	scale 0 to 1.4	2015
Domestic nitrogen surplus	4.03	kg/capita	89.8	●	↓	411.79	Gg	2015
Spillover nitrogen surplus	0.74	kg/capita	65.6	●	↓	76.00	Tg	2015
Domestic phosphorus fertilizer	1.25	kg/capita	86.5	●	↓	132.99	kt	2018
Spillover phosphorus fertilizer	1.85	g/capita	50.2	●	↓	197.49	kt	2018
Water Cycle								
Domestic scarce water consumption	0.71	m^3 H_2O-eq./capita	66.0	●	↗	76.25	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	16.34	m^3 H_2O-eq./capita	69.5	●	↓	522.82	Mm^3 H_2O-eq.	2018
Domestic water stress	0.11	ML H_2O-eq./capita	65.2	●	↗	11.42	Bm^3 H_2O-eq.	2018
Spillover water stress	0.72	m^3 H_2O-eq./capita	66.7	●	↓	23.02	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Poland

OECD Member

Land area	306,170 sq. km	**Population**	38.0 million
GDP (PPP, constant 2017 US$, billions)	$1,223.5	**GDP per capita**	$32,238
Human Development Index (HDI)	0.876	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	35.4 /100	↓
ABSOLUTE	●	37.0 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories
Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Poland

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	18.85	kg/capita	29.3	●	↓	715.72	Gg	2018
Spillover SO_2 emissions	5.14	kg/capita	45.7	●	→	195.40	Gg	2015
Domestic NO_X emissions	19.15	kg/capita	70.8	●	↓	727.05	Gg	2018
Spillover NO_X emissions	5.67	kg/capita	41.8	●	→	215.44	Gg	2015
Domestic black carbon emissions	0.60	kg/capita	54.7	●	↓	22.73	Gg	2018
Spillover black carbon emissions	0.18	kg/capita	48.6	●	→	6.79	Gg	2015
GHG Emissions								
Domestic GHG emissions	11.71	t CO_2e/capita	31.4	●	↓	444.70	Tg	2019
Spillover GHG emissions	3.66	t CO_2e/capita	38.4	●	↓	138.94	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.32	t CO_2e/capita	23.3	●	●	12.32	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	87.34	%	13.8	●	↓	87.34	%	2020
Unprotected freshwater biodiversity sites	91.13	%	10.2	●	↓	91.13	%	2020
Domestic land use related biodiversity loss	2.01×10^{-12}	global PDF/capita	97.3	●	→	7.64×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	2.61×10^{-12}	global PDF/capita	87.4	●	↓	9.91×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.06	spp./million	62.3	●	●	2.29	species	2018
Spillover freshwater biodiversity threats	0.09	spp./million	39.7	●	●	3.23	species	2018
Domestic deforestation	0.77	%	42.2	●	↓	8.19×10^{4}	hectares	2020
Spillover deforestation	1.34×10^{-3}	ha/capita	82.5	●	↓	5.08×10^{4}	hectares	2018
Red List Index of species survival	0.97	scale 0 to 1	95.3	●	↑	0.97	scale 0 to 1	2021
Biodiversity Habitat Index	0.37	scale 0 to 1	12.4	●	●	0.37	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	5.41×10^{-5}	WOE/capita	99.4	●	●	2.05×10^{3}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	1.16×10^{-3}	WOE/capita	25.6	●	●	4.42×10^{4}	WOE	2019
Unprotected marine biodiversity sites	87.32	%	13.6	●	↓	87.32	%	2020
Domestic marine biodiversity threats	0.01	spp./million	100.0	●	●	0.20	species	2018
Spillover marine biodiversity threats	0.02	spp./million	50.0	●	●	0.84	species	2018
Fish caught from overexploited or collapsed stocks	50.99	%	18.6	●	→	50.99	%	2018
Fish caught by trawling	38.75	%	36.6	●	↓	38.75	%	2018
Domestic vulnerable fisheries catch	4.80	tonnes/capita	47.8	●	↓	0.18	Tg	2018
Spillover vulnerable fisheries catch	13.57	tonnes/capita	29.1	●	↓	0.52	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.61	scale 0 to 1.4	48.2	●	→	0.61	scale 0 to 1.4	2015
Domestic nitrogen surplus	21.18	kg/capita	40.4	●	→	804.48	Gg	2015
Spillover nitrogen surplus	4.11	kg/capita	33.1	●	↓	156.28	Tg	2015
Domestic phosphorus fertilizer	9.05	kg/capita	33.5	●	↓	343.50	kt	2018
Spillover phosphorus fertilizer	1.85	g/capita	50.2	●	↓	70.30	kt	2018
Water Cycle								
Domestic scarce water consumption	96.55	m^3 H_2O-eq./capita	10.9	●	↓	3,666.37	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	13.88	m^3 H_2O-eq./capita	73.8	●	↓	1,480.27	Mm^3 H_2O-eq.	2018
Domestic water stress	0.14	ML H_2O-eq./capita	61.6	●	↓	5.40	Bm^3 H_2O-eq.	2018
Spillover water stress	0.64	m^3 H_2O-eq./capita	69.6	●	↓	68.65	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Portugal

OECD Member

Land area	91,606 sq. km	**Population**	10.3 million
GDP (PPP, constant 2017 US$, billions)	$331.6	**GDP per capita**	$32,178
Human Development Index (HDI)	0.866	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		36.5 /100	→
ABSOLUTE		57.5 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Portugal

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	7.49	kg/capita	50.5	●	↓	77.03	Gg	2018
Spillover SO_2 emissions	5.58	kg/capita	43.5	●	→	57.79	Gg	2015
Domestic NO_X emissions	14.41	kg/capita	80.5	●	↓	148.20	Gg	2018
Spillover NO_X emissions	7.47	kg/capita	34.5	●	→	77.41	Gg	2015
Domestic black carbon emissions	0.39	kg/capita	73.8	●	↓	3.99	Gg	2018
Spillover black carbon emissions	0.27	kg/capita	37.6	●	→	2.76	Gg	2015
GHG Emissions								
Domestic GHG emissions	7.90	t CO_2e/capita	46.7	●	→	81.29	Tg	2019
Spillover GHG emissions	4.74	t CO_2e/capita	31.1	●	↓	48.76	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.00	t CO_2e/capita	85.6	●	●	0.00	Tg	2021
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	75.36	%	26.0	●	↓	75.36	%	2020
Unprotected freshwater biodiversity sites	68.63	%	33.4	●	↓	68.63	%	2020
Domestic land use related biodiversity loss	1.29×10^{-11}	global PDF/capita	82.9	●	→	1.32×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	1.27×10^{-11}	global PDF/capita	26.9	●	↓	1.31×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	0.72	spp./million	28.6	●	●	7.36	species	2018
Spillover freshwater biodiversity threats	0.51	spp./million	9.6	●	●	5.21	species	2018
Domestic deforestation	2.55	%	1.0	●	↓	5.55×10^{4}	hectares	2020
Spillover deforestation	4.97×10^{-3}	ha/capita	29.3	●	↓	5.11×10^{4}	hectares	2018
Red List Index of species survival	0.86	scale 0 to 1	61.6	●	↓	0.86	scale 0 to 1	2021
Biodiversity Habitat Index	0.35	scale 0 to 1	9.4	●	●	0.35	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	5.72×10^{-3}	WOE/capita	33.1	●	●	5.88×10^{4}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	1.73×10^{-4}	WOE/capita	88.9	●	●	1.78×10^{3}	WOE	2019
Unprotected marine biodiversity sites	68.28	%	32.4	●	↓	68.28	%	2020
Domestic marine biodiversity threats	1.43	spp./million	25.0	●	●	14.62	species	2018
Spillover marine biodiversity threats	0.58	spp./million	8.1	●	●	5.93	species	2018
Fish caught from overexploited or collapsed stocks	68.92	%	1.0	●	↓	68.92	%	2018
Fish caught by trawling	33.15	%	45.8	●	↓	33.15	%	2018
Domestic vulnerable fisheries catch	41.10	tonnes/capita	19.6	●	↓	0.42	Tg	2018
Spillover vulnerable fisheries catch	73.12	tonnes/capita	1.0	●	↓	0.75	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	1.07	scale 0 to 1.4	8.4	●	→	1.07	scale 0 to 1.4	2015
Domestic nitrogen surplus	15.05	kg/capita	58.0	●	↓	155.87	Gg	2015
Spillover nitrogen surplus	13.24	kg/capita	10.9	●	↓	137.12	Tg	2015
Domestic phosphorus fertilizer	3.63	kg/capita	57.9	●	↗	37.37	kt	2018
Spillover phosphorus fertilizer	5.95	g/capita	14.0	●	↓	61.16	kt	2018
Water Cycle								
Domestic scarce water consumption	11.55	m^3 H_2O-eq./capita	34.8	●	↓	118.75	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	14.18	m^3 H_2O-eq./capita	73.2	●	↓	122.03	Mm^3 H_2O-eq.	2018
Domestic water stress	5.62	ML H_2O-eq./capita	14.1	●	→	57.84	Bm^3 H_2O-eq.	2018
Spillover water stress	0.86	m^3 H_2O-eq./capita	62.2	●	→	7.39	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Qatar

Middle East and North Africa

Land area	11,490 sq. km	**Population**	2.9 million
GDP (PPP, constant 2017 US$, billions)	$245.7	**GDP per capita**	$85,266
Human Development Index (HDI)	0.855	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	2.0 /100	→
ABSOLUTE	●	46.8 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories
Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Qatar

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	4.32	kg/capita	63.1	●	↑	12.02	Gg	2018
Spillover SO_2 emissions	39.09	kg/capita	1.0	●	→	100.30	Gg	2015
Domestic NO_X emissions	65.85	kg/capita	1.0	●	→	183.16	Gg	2018
Spillover NO_X emissions	37.45	kg/capita	1.0	●	↓	96.08	Gg	2015
Domestic black carbon emissions	0.47	kg/capita	66.4	●	↑	1.31	Gg	2018
Spillover black carbon emissions	1.31	kg/capita	1.0	●	↓	3.35	Gg	2015
GHG Emissions								
Domestic GHG emissions	67.22	t CO_2e/capita	1.0	●	→	190.36	Tg	2019
Spillover GHG emissions	18.30	t CO_2e/capita	1.0	●	→	50.90	Tg	2018
CO_2 emissions embodied in fossil fuel exports	61.18	t CO_2e/capita	1.0	●	●	176.25	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	59.99	%	41.6	●	↓	59.99	%	2020
Unprotected freshwater biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic land use related biodiversity loss	1.27×10^{-14}	global PDF/capita	100.0	●	↑	3.53×10^{-8}	global PDF	2018
Spillover land use related biodiversity loss	2.96×10^{-11}	global PDF/capita	1.0	●	→	8.22×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.00	spp./million	100.0	●	●	0.01	species	2018
Spillover freshwater biodiversity threats	0.11	spp./million	35.0	●	●	0.31	species	2018
Domestic deforestation	NA	%	NA	●	●	NA	hectares	NA
Spillover deforestation	3.95×10^{-3}	ha/capita	44.1	●	↓	1.10×10^{4}	hectares	2018
Red List Index of species survival	0.82	scale 0 to 1	47.9	●	↓	0.82	scale 0 to 1	2021
Biodiversity Habitat Index	0.61	scale 0 to 1	46.5	●	●	0.61	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	7.06×10^{-7}	WOE/million	100.0	●	●	2.00	WOE	2019
Spillover endangered terrestrial animals	1.27×10^{-5}	WOE/capita	99.9	●	●	3.60×10	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	5.73×10^{-4}	WOE/capita	63.4	●	●	1.62×10^{3}	WOE	2019
Unprotected marine biodiversity sites	59.99	%	40.6	●	↓	59.99	%	2020
Domestic marine biodiversity threats	0.56	spp./million	38.0	●	●	1.56	species	2018
Spillover marine biodiversity threats	0.09	spp./million	32.2	●	●	0.25	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	0.00	%	100.0	●	●	0.00	%	2018
Domestic vulnerable fisheries catch	10.56	tonnes/capita	37.4	●	→	0.03	Tg	2018
Spillover vulnerable fisheries catch	26.92	tonnes/capita	17.7	●	↓	0.07	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	1.02	scale 0 to 1.4	12.3	●	↓	1.02	scale 0 to 1.4	2015
Domestic nitrogen surplus	0.25	kg/capita	100.0	●	↑	0.65	Gg	2015
Spillover nitrogen surplus	10.37	kg/capita	15.6	●	→	26.61	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	12.87	g/capita	1.0	●	↓	35.79	kt	2018
Water Cycle								
Domestic scarce water consumption	0.00	m^3 H_2O-eq./capita	100.0	●	↑	0.00	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	27.73	m^3 H_2O-eq./capita	55.7	●	↓	1,052.98	Mm^3 H_2O-eq.	2018
Domestic water stress	0.19	ML H_2O-eq./capita	57.8	●	↑	0.53	Bm^3 H_2O-eq.	2018
Spillover water stress	1.17	m^3 H_2O-eq./capita	54.3	●	↓	44.25	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Romania

Eastern Europe and Central Asia

Land area	230,080 sq. km	**Population**	19.3 million
GDP (PPP, constant 2017 US$, billions)	$556.1	**GDP per capita**	$28,833
Human Development Index (HDI)	0.821	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		48.2 /100	↓
ABSOLUTE		53.4 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories
Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Romania

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	14.23	kg/capita	35.7	●	→	277.03	Gg	2018
Spillover SO_2 emissions	4.19	kg/capita	51.4	●	→	83.00	Gg	2015
Domestic NO_X emissions	12.14	kg/capita	85.2	●	↓	236.51	Gg	2018
Spillover NO_X emissions	4.39	kg/capita	48.6	●	→	87.03	Gg	2015
Domestic black carbon emissions	0.50	kg/capita	63.8	●	↓	9.69	Gg	2018
Spillover black carbon emissions	0.13	kg/capita	57.7	●	→	2.55	Gg	2015
GHG Emissions								
Domestic GHG emissions	7.23	t CO_2e/capita	50.2	●	↓	140.00	Tg	2019
Spillover GHG emissions	2.98	t CO_2e/capita	44.1	●	↓	58.04	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.01	t CO_2e/capita	39.2	●	●	0.19	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	75.97	%	25.4	●	↓	75.97	%	2020
Unprotected freshwater biodiversity sites	60.82	%	41.5	●	↓	60.82	%	2020
Domestic land use related biodiversity loss	6.04×10^{-12}	global PDF/capita	92.0	●	↓	1.18×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	2.70×10^{-12}	global PDF/capita	86.9	●	↓	5.26×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.47	spp./million	34.4	●	●	9.17	species	2018
Spillover freshwater biodiversity threats	0.09	spp./million	39.4	●	●	1.70	species	2018
Domestic deforestation	0.24	%	82.1	●	↓	1.83×10^{4}	hectares	2020
Spillover deforestation	1.06×10^{-3}	ha/capita	86.6	●	↓	2.06×10^{4}	hectares	2018
Red List Index of species survival	0.86	scale 0 to 1	61.8	●	→	0.86	scale 0 to 1	2021
Biodiversity Habitat Index	0.32	scale 0 to 1	5.1	●	●	0.32	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	1.57×10^{-4}	WOE/capita	98.2	●	●	3.04×10^{3}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	3.20×10^{-5}	WOE/capita	98.0	●	●	6.20×10^{2}	WOE	2019
Unprotected marine biodiversity sites	88.60	%	12.3	●	↓	88.60	%	2020
Domestic marine biodiversity threats	0.02	spp./million	83.6	●	●	0.40	species	2018
Spillover marine biodiversity threats	0.02	spp./million	52.4	●	●	0.36	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	0.00	%	100.0	●	●	0.00	%	2018
Domestic vulnerable fisheries catch	1.53	tonnes/capita	62.8	●	↓	0.03	Tg	2018
Spillover vulnerable fisheries catch	7.61	tonnes/capita	38.8	●	↓	0.15	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.45	scale 0 to 1.4	61.7	●	→	0.45	scale 0 to 1.4	2015
Domestic nitrogen surplus	8.90	kg/capita	75.7	●	↓	176.35	Gg	2015
Spillover nitrogen surplus	2.67	kg/capita	41.3	●	↓	52.99	Tg	2015
Domestic phosphorus fertilizer	9.68	kg/capita	31.7	●	↓	188.41	kt	2018
Spillover phosphorus fertilizer	2.33	g/capita	43.1	●	↓	45.33	kt	2018
Water Cycle								
Domestic scarce water consumption	0.05	m^3 H_2O-eq./capita	95.0	●	↓	1.06	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	41.48	m^3 H_2O-eq./capita	45.3	●	↓	426.55	Mm^3 H_2O-eq.	2018
Domestic water stress	0.27	ML H_2O-eq./capita	53.3	●	↓	5.24	Bm^3 H_2O-eq.	2018
Spillover water stress	4.52	m^3 H_2O-eq./capita	19.2	●	↓	46.46	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Russian Federation

Eastern Europe and Central Asia

Land area	16,376,870 sq. km	**Population**	144.1 million
GDP (PPP, constant 2017 US$, billions)	$3,875.7	**GDP per capita**	$26,895
Human Development Index (HDI)	0.822	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		30.4 /100	→
ABSOLUTE		14.0 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

The Global Commons Stewardship Index is a production of the Sustainable Development Solutions Network, the Yale Center for Environmental Law & Policy, and the Center for Global Commons at the University of Tokyo.

Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Russian Federation

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	17.22	kg/capita	31.3			2,488.18	Gg	2018
Spillover SO_2 emissions	3.11	kg/capita	59.6			448.84	Gg	2015
Domestic NO_X emissions	28.29	kg/capita	52.1			4,088.00	Gg	2018
Spillover NO_X emissions	3.58	kg/capita	54.0			516.48	Gg	2015
Domestic black carbon emissions	0.30	kg/capita	81.9			42.99	Gg	2018
Spillover black carbon emissions	0.11	kg/capita	61.0			16.47	Gg	2015
GHG Emissions								
Domestic GHG emissions	17.40	t CO_2e/capita	16.1			2,512.27	Tg	2019
Spillover GHG emissions	1.97	t CO_2e/capita	55.8			284.36	Tg	2018
CO_2 emissions embodied in fossil fuel exports	9.22	t CO_2e/capita	8.0			1,329.28	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	25.12	%	76.9			25.12	%	2020
Unprotected freshwater biodiversity sites	26.23	%	77.2			26.23	%	2020
Domestic land use related biodiversity loss	2.17×10^{-12}	global PDF/capita	97.1			3.13×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	2.41×10^{-12}	global PDF/capita	88.6			3.49×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	0.54	spp./million	32.5			78.65	species	2018
Spillover freshwater biodiversity threats	0.11	spp./million	35.5			15.98	species	2018
Domestic deforestation	0.13	%	90.3			9.72×10^{5}	hectares	2020
Spillover deforestation	4.39×10^{-4}	ha/capita	95.7			6.34×10^{4}	hectares	2018
Red List Index of species survival	0.95	scale 0 to 1	88.7			0.95	scale 0 to 1	2021
Biodiversity Habitat Index	0.70	scale 0 to 1	58.6			0.70	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	5.34×10^{-5}	WOE/million	99.4			7.71×10^{3}	WOE	2019
Spillover endangered terrestrial animals	2.41×10^{-5}	WOE/capita	99.7			3.47×10^{3}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	3.47×10^{-5}	WOE/million	98.8			5.01×10^{3}	WOE	2019
Spillover endangered marine animals	2.47×10^{-5}	WOE/capita	98.4			3.56×10^{3}	WOE	2019
Unprotected marine biodiversity sites	23.57	%	76.7			23.57	%	2020
Domestic marine biodiversity threats	0.17	spp./million	54.4			25.01	species	2018
Spillover marine biodiversity threats	0.05	spp./million	39.0			7.63	species	2018
Fish caught from overexploited or collapsed stocks	35.63	%	43.1			35.63	%	2018
Fish caught by trawling	4.48	%	92.9			4.48	%	2018
Domestic vulnerable fisheries catch	86.35	tonnes/capita	9.8			12.48	Tg	2018
Spillover vulnerable fisheries catch	6.58	tonnes/capita	41.2			0.95	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.59	scale 0 to 1.4	49.8			0.59	scale 0 to 1.4	2015
Domestic nitrogen surplus	3.72	kg/capita	90.6			536.60	Gg	2015
Spillover nitrogen surplus	4.60	kg/capita	31.0			663.07	Tg	2015
Domestic phosphorus fertilizer	4.16	kg/capita	54.3			600.46	kt	2018
Spillover phosphorus fertilizer	1.72	g/capita	52.5			247.87	kt	2018
Water Cycle								
Domestic scarce water consumption	497.81	m^3 H_2O-eq./capita	1.0			71,922.95	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	7.00	m^3 H_2O-eq./capita	91.6			48.72	Mm^3 H_2O-eq.	2018
Domestic water stress	0.50	ML H_2O-eq./capita	45.2			72.77	Bm^3 H_2O-eq.	2018
Spillover water stress	0.46	m^3 H_2O-eq./capita	78.2			3.21	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Rwanda

Africa

Land area	24,670 sq. km	**Population**	13.0 million
GDP (PPP, constant 2017 US$, billions)	$27.2	**GDP per capita**	$2,099
Human Development Index (HDI)	0.534	**HDI category**	Low

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		92.5 /100	
ABSOLUTE		85.9 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Rwanda

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	0.56	kg/capita	100.0	●	↑	6.86	Gg	2018
Spillover SO_2 emissions	0.58	kg/capita	100.0	●	↓	6.61	Gg	2015
Domestic NO_X emissions	1.22	kg/capita	100.0	●	↓	15.01	Gg	2018
Spillover NO_X emissions	0.57	kg/capita	100.0	●	↓	6.47	Gg	2015
Domestic black carbon emissions	0.28	kg/capita	83.7	●	↗	3.42	Gg	2018
Spillover black carbon emissions	0.09	kg/capita	66.1	●	↑	1.08	Gg	2015
GHG Emissions								
Domestic GHG emissions	1.19	t CO_2e/capita	100.0	●	↑	15.03	Tg	2019
Spillover GHG emissions	0.32	t CO_2e/capita	100.0	●	↓	3.98	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA	●	●	NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	51.69	%	50.0	●	↓	51.69	%	2020
Unprotected freshwater biodiversity sites	29.18	%	74.2	●	↓	29.18	%	2020
Domestic land use related biodiversity loss	2.46×10^{-12}	global PDF/capita	96.7	●	→	3.03×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	3.74×10^{-13}	global PDF/capita	100.0	●	↑	4.60×10^{-6}	global PDF	2018
Domestic freshwater biodiversity threats	0.60	spp./million	31.0	●	●	7.43	species	2018
Spillover freshwater biodiversity threats	0.10	spp./million	37.4	●	●	1.20	species	2018
Domestic deforestation	0.62	%	53.4	●	↓	3.22×10^{3}	hectares	2020
Spillover deforestation	2.58×10^{-3}	ha/capita	64.2	●	→	3.18×10^{4}	hectares	2018
Red List Index of species survival	0.88	scale 0 to 1	67.6	●	↓	0.88	scale 0 to 1	2021
Biodiversity Habitat Index	0.34	scale 0 to 1	8.2	●	●	0.34	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	NA	WOE/million	NA	●	●	NA	WOE	NA
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic marine biodiversity threats	0.00	spp./million	100.0	●	●	0.01	species	2018
Spillover marine biodiversity threats	0.02	spp./million	49.3	●	●	0.29	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	NA	%	NA	●	●	NA	%	NA
Domestic vulnerable fisheries catch	NA	tonnes/capita	NA	●	●	NA	Tg	NA
Spillover vulnerable fisheries catch	0.45	tonnes/capita	86.2	●	↓	0.01	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.76	scale 0 to 1.4	34.8	●	→	0.76	scale 0 to 1.4	2015
Domestic nitrogen surplus	2.21	kg/capita	95.0	●	↓	25.16	Gg	2015
Spillover nitrogen surplus	0.24	kg/capita	86.8	●	↑	2.77	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	0.24	g/capita	100.0	●	↓	2.90	kt	2018
Water Cycle								
Domestic scarce water consumption	0.49	m^3 H_2O-eq./capita	70.2	●	↗	6.05	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	360.06	m^3 H_2O-eq./capita	1.0	●	↓	1,001.58	Mm^3 H_2O-eq.	2018
Domestic water stress	1.98	ML H_2O-eq./capita	27.5	●	→	24.41	Bm^3 H_2O-eq.	2018
Spillover water stress	19.16	m^3 H_2O-eq./capita	1.0	●	↓	53.31	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Saudi Arabia

Middle East and North Africa

Land area	2,149,690 sq. km	**Population**	34.8 million
GDP (PPP, constant 2017 US$, billions)	$1,543.2	**GDP per capita**	$44,328
Human Development Index (HDI)	0.875	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	13.8 /100	→
ABSOLUTE	●	29.2 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Saudi Arabia

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	92.48	kg/capita	1.0	●	→	3,116.94	Gg	2018
Spillover SO_2 emissions	15.99	kg/capita	14.5	●	↓	507.20	Gg	2015
Domestic NO_X emissions	62.21	kg/capita	1.0	●	→	2,096.79	Gg	2018
Spillover NO_X emissions	17.12	kg/capita	12.5	●	↓	542.90	Gg	2015
Domestic black carbon emissions	0.68	kg/capita	47.7	●	→	22.80	Gg	2018
Spillover black carbon emissions	0.65	kg/capita	12.8	●	↓	20.62	Gg	2015
GHG Emissions								
Domestic GHG emissions	22.01	t CO_2e/capita	6.9	●	→	754.38	Tg	2019
Spillover GHG emissions	6.16	t CO_2e/capita	23.8	●	→	207.65	Tg	2018
CO_2 emissions embodied in fossil fuel exports	14.33	t CO_2e/capita	6.0	●	●	99.42	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	21.98	%	80.1	●	↓	21.98	%	2020
Unprotected freshwater biodiversity sites	17.68	%	86.0	●	↓	17.68	%	2020
Domestic land use related biodiversity loss	1.00×10^{-11}	global PDF/capita	86.7	●	→	3.38×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	1.24×10^{-11}	global PDF/capita	28.8	●	→	4.18×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	0.12	spp./million	52.9	●	●	4.07	species	2018
Spillover freshwater biodiversity threats	0.23	spp./million	23.3	●	●	7.63	species	2018
Domestic deforestation	NA	%	NA	●	●	NA	hectares	NA
Spillover deforestation	2.80×10^{-3}	ha/capita	61.0	●	↓	9.45×10^{4}	hectares	2018
Red List Index of species survival	0.90	scale 0 to 1	73.3	●	↓	0.90	scale 0 to 1	2021
Biodiversity Habitat Index	0.58	scale 0 to 1	42.1	●	●	0.58	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	5.67×10^{-5}	WOE/capita	99.3	●	●	1.94×10^{3}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	3.16×10^{-5}	WOE/capita	98.0	●	●	1.08×10^{3}	WOE	2019
Unprotected marine biodiversity sites	25.31	%	74.9	●	↓	25.31	%	2020
Domestic marine biodiversity threats	1.16	spp./million	27.9	●	●	39.08	species	2018
Spillover marine biodiversity threats	0.52	spp./million	9.4	●	●	17.61	species	2018
Fish caught from overexploited or collapsed stocks	15.77	%	74.9	●	→	15.77	%	2018
Fish caught by trawling	13.76	%	77.7	●	→	13.76	%	2018
Domestic vulnerable fisheries catch	3.41	tonnes/capita	52.3	●	↗	0.11	Tg	2018
Spillover vulnerable fisheries catch	19.06	tonnes/capita	23.4	●	↑	0.64	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.60	scale 0 to 1.4	48.6	●	↑	0.60	scale 0 to 1.4	2015
Domestic nitrogen surplus	0.72	kg/capita	99.3	●	↑	22.84	Gg	2015
Spillover nitrogen surplus	10.42	kg/capita	15.5	●	→	330.58	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	9.38	g/capita	1.0	●	→	316.23	kt	2018
Water Cycle								
Domestic scarce water consumption	2.83	m^3 H_2O-eq./capita	50.5	●	↗	95.51	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	26.80	m^3 H_2O-eq./capita	56.6	●	→	521.96	Mm^3 H_2O-eq.	2018
Domestic water stress	1.77	ML H_2O-eq./capita	29.0	●	→	59.77	Bm^3 H_2O-eq.	2018
Spillover water stress	1.47	m^3 H_2O-eq./capita	48.3	●	→	28.61	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Senegal

Africa

Land area	192,530 sq. km	**Population**	16.7 million
GDP (PPP, constant 2017 US$, billions)	$55.3	**GDP per capita**	$3,300
Human Development Index (HDI)	0.511	**HDI category**	Low

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		82.0 /100	
ABSOLUTE		75.7 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Senegal

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	4.96	kg/capita	60.0	●	↓	78.62	Gg	2018
Spillover SO_2 emissions	1.12	kg/capita	87.7	●	↓	16.39	Gg	2015
Domestic NO_X emissions	4.74	kg/capita	100.0	●	↓	75.13	Gg	2018
Spillover NO_X emissions	1.17	kg/capita	83.8	●	↓	17.00	Gg	2015
Domestic black carbon emissions	0.28	kg/capita	83.2	●	↑	4.49	Gg	2018
Spillover black carbon emissions	0.05	kg/capita	84.4	●	↓	0.71	Gg	2015
GHG Emissions								
Domestic GHG emissions	2.13	t CO_2e/capita	97.6	●	↓	34.68	Tg	2019
Spillover GHG emissions	0.74	t CO_2e/capita	83.4	●	↓	11.66	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.00	t CO_2e/capita	94.6	●	●	0.00	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	37.83	%	64.0	●	↓	37.83	%	2020
Unprotected freshwater biodiversity sites	23.69	%	79.8	●	↓	23.69	%	2020
Domestic land use related biodiversity loss	4.92×10^{-13}	global PDF/capita	99.4	●	↗	7.80×10^{-6}	global PDF	2018
Spillover land use related biodiversity loss	1.31×10^{-12}	global PDF/capita	95.2	●	↑	2.08×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.16	spp./million	49.3	●	●	2.50	species	2018
Spillover freshwater biodiversity threats	0.01	spp./million	79.4	●	●	0.13	species	2018
Domestic deforestation	0.92	%	31.0	●	↓	4.40×10^{2}	hectares	2020
Spillover deforestation	3.24×10^{-4}	ha/capita	97.4	●	↓	5.14×10^{3}	hectares	2018
Red List Index of species survival	0.94	scale 0 to 1	83.9	●	↓	0.94	scale 0 to 1	2021
Biodiversity Habitat Index	0.32	scale 0 to 1	5.6	●	●	0.32	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	3.20×10^{-5}	WOE/million	99.7	●	●	5.22×10^{2}	WOE	2019
Spillover endangered terrestrial animals	3.11×10^{-7}	WOE/capita	100.0	●	●	5.06	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	25.26	%	75.0	●	↓	25.26	%	2020
Domestic marine biodiversity threats	0.87	spp./million	31.8	●	●	13.82	species	2018
Spillover marine biodiversity threats	0.02	spp./million	54.0	●	●	0.26	species	2018
Fish caught from overexploited or collapsed stocks	14.39	%	77.1	●	↑	14.39	%	2018
Fish caught by trawling	8.04	%	87.1	●	↑	8.04	%	2018
Domestic vulnerable fisheries catch	65.90	tonnes/capita	13.4	●	→	1.04	Tg	2018
Spillover vulnerable fisheries catch	0.95	tonnes/capita	73.5	●	↗	0.02	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.89	scale 0 to 1.4	23.7	●	↓	0.89	scale 0 to 1.4	2015
Domestic nitrogen surplus	3.29	kg/capita	91.9	●	↓	47.90	Gg	2015
Spillover nitrogen surplus	0.40	kg/capita	77.3	●	↓	5.86	Tg	2015
Domestic phosphorus fertilizer	0.75	kg/capita	100.0	●	↓	11.96	kt	2018
Spillover phosphorus fertilizer	1.56	g/capita	55.4	●	↓	24.79	kt	2018
Water Cycle								
Domestic scarce water consumption	10.04	m^3 H_2O-eq./capita	36.3	●	→	159.14	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	10.98	m^3 H_2O-eq./capita	79.9	●	↓	1,586.08	Mm^3 H_2O-eq.	2018
Domestic water stress	3.73	ML H_2O-eq./capita	19.4	●	↓	59.07	Bm^3 H_2O-eq.	2018
Spillover water stress	1.50	m^3 H_2O-eq./capita	47.7	●	↓	216.83	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Sierra Leone

Africa

Land area	72,180 sq. km	**Population**	8.0 million
GDP (PPP, constant 2017 US$, billions)	$13.1	**GDP per capita**	$1,648
Human Development Index (HDI)	0.477	**HDI category**	Low

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		91.6 /100	
ABSOLUTE		86.0 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Sierra Leone

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	0.89	kg/capita	99.5	●	↑	6.79	Gg	2018
Spillover SO_2 emissions	0.56	kg/capita	100.0	●	↑	4.02	Gg	2015
Domestic NO_X emissions	2.11	kg/capita	100.0	●	↑	16.11	Gg	2018
Spillover NO_X emissions	0.59	kg/capita	100.0	●	↑	4.26	Gg	2015
Domestic black carbon emissions	0.67	kg/capita	48.1	●	→	5.14	Gg	2018
Spillover black carbon emissions	0.03	kg/capita	100.0	●	↑	0.19	Gg	2015
GHG Emissions								
Domestic GHG emissions	2.16	t CO_2e/capita	97.0	●	↓	16.88	Tg	2019
Spillover GHG emissions	0.28	t CO_2e/capita	100.0	●	↑	2.10	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA	●	●	NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	49.17	%	52.5	●	↓	49.17	%	2020
Unprotected freshwater biodiversity sites	51.51	%	51.1	●	↓	51.51	%	2020
Domestic land use related biodiversity loss	2.76×10^{-12}	global PDF/capita	96.3	●	→	2.11×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	5.59×10^{-13}	global PDF/capita	99.7	●	↑	4.28×10^{-6}	global PDF	2018
Domestic freshwater biodiversity threats	2.28	spp./million	12.8	●	●	17.41	species	2018
Spillover freshwater biodiversity threats	0.01	spp./million	83.2	●	●	0.05	species	2018
Domestic deforestation	3.18	%	1.0	●	↓	1.73×10^{5}	hectares	2020
Spillover deforestation	1.79×10^{-4}	ha/capita	99.5	●	↑	1.37×10^{3}	hectares	2018
Red List Index of species survival	0.93	scale 0 to 1	81.9	●	↗	0.93	scale 0 to 1	2021
Biodiversity Habitat Index	0.37	scale 0 to 1	13.0	●	●	0.37	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	1.28×10^{-7}	WOE/capita	100.0	●	●	1.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	33.33	%	67.0	●	↓	33.33	%	2020
Domestic marine biodiversity threats	0.46	spp./million	40.8	●	●	3.49	species	2018
Spillover marine biodiversity threats	0.00	spp./million	84.8	●	●	0.01	species	2018
Fish caught from overexploited or collapsed stocks	2.22	%	96.5	●	↓	2.22	%	2018
Fish caught by trawling	13.30	%	78.4	●	→	13.30	%	2018
Domestic vulnerable fisheries catch	89.36	tonnes/capita	9.4	●	↓	0.68	Tg	2018
Spillover vulnerable fisheries catch	0.30	tonnes/capita	92.5	●	↑	0.00	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.80	scale 0 to 1.4	31.3	●	→	0.80	scale 0 to 1.4	2015
Domestic nitrogen surplus	1.45	kg/capita	97.2	●	↑	10.38	Gg	2015
Spillover nitrogen surplus	0.21	kg/capita	89.9	●	↓	1.48	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	0.64	g/capita	83.3	●	↑	4.86	kt	2018
Water Cycle								
Domestic scarce water consumption	0.44	m^3 H_2O-eq./capita	71.5	●	↗	3.35	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	91.90	m^3 H_2O-eq./capita	24.6	●	↑	1,130.56	Mm^3 H_2O-eq.	2018
Domestic water stress	0.02	ML H_2O-eq./capita	88.9	●	↑	0.13	Bm^3 H_2O-eq.	2018
Spillover water stress	0.42	m^3 H_2O-eq./capita	80.8	●	↗	5.14	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Singapore

East and South Asia

Land area	709 sq. km	**Population**	5.7 million
GDP (PPP, constant 2017 US$, billions)	$531.0	**GDP per capita**	$93,397
Human Development Index (HDI)	0.939	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		6.0 /100	→
ABSOLUTE		49.7 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Singapore

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	12.96	kg/capita	37.9			73.10	Gg	2018
Spillover SO_2 emissions	46.83	kg/capita	1.0			259.19	Gg	2015
Domestic NO_X emissions	23.36	kg/capita	62.2			131.73	Gg	2018
Spillover NO_X emissions	51.21	kg/capita	1.0			283.46	Gg	2015
Domestic black carbon emissions	0.32	kg/capita	80.1			1.79	Gg	2018
Spillover black carbon emissions	2.25	kg/capita	1.0			12.47	Gg	2015
GHG Emissions								
Domestic GHG emissions	12.85	t CO_2e/capita	27.8			73.30	Tg	2019
Spillover GHG emissions	24.50	t CO_2e/capita	1.0			138.15	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA			NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	21.14	%	80.9			21.14	%	2020
Unprotected freshwater biodiversity sites	NA	%	NA			NA	%	NA
Domestic land use related biodiversity loss	8.66×10^{-14}	global PDF/capita	99.9			4.88×10^{-7}	global PDF	2018
Spillover land use related biodiversity loss	4.52×10^{-11}	global PDF/capita	1.0			2.55×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	0.13	spp./million	52.1			0.74	species	2018
Spillover freshwater biodiversity threats	1.82	spp./million	1.0			10.45	species	2018
Domestic deforestation	0.94	%	29.8			1.93×10^{2}	hectares	2020
Spillover deforestation	1.35×10^{-2}	ha/capita	1.0			7.59×10^{4}	hectares	2018
Red List Index of species survival	0.85	scale 0 to 1	55.9			0.85	scale 0 to 1	2021
Biodiversity Habitat Index	0.78	scale 0 to 1	70.6			0.78	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	9.88×10^{-4}	WOE/million	89.7			5.64×10^{3}	WOE	2019
Spillover endangered terrestrial animals	3.11×10^{-2}	WOE/capita	1.0			1.77×10^{5}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	6.66×10^{-6}	WOE/million	99.8			3.80×10	WOE	2019
Spillover endangered marine animals	6.83×10^{-3}	WOE/capita	1.0			3.90×10^{4}	WOE	2019
Unprotected marine biodiversity sites	3.25	%	96.8			3.25	%	2020
Domestic marine biodiversity threats	0.01	spp./million	100.0			0.04	species	2018
Spillover marine biodiversity threats	3.18	spp./million	1.0			18.34	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA			NA	%	NA
Fish caught by trawling	0.00	%	100.0			0.00	%	2018
Domestic vulnerable fisheries catch	0.99	tonnes/capita	68.6			0.01	Tg	2018
Spillover vulnerable fisheries catch	90.53	tonnes/capita	1.0			0.51	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	1.13	scale 0 to 1.4	3.2			1.13	scale 0 to 1.4	2015
Domestic nitrogen surplus	0.35	kg/capita	100.0			1.93	Gg	2015
Spillover nitrogen surplus	35.28	kg/capita	1.0			195.28	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA			NA	kt	NA
Spillover phosphorus fertilizer	14.38	g/capita	1.0			81.10	kt	2018
Water Cycle								
Domestic scarce water consumption	0.22	m^3 H_2O-eq./capita	79.4			1.23	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	238.43	m^3 H_2O-eq./capita	1.0			8,035.88	Mm^3 H_2O-eq.	2018
Domestic water stress	0.00	ML H_2O-eq./capita	100.0			0.01	Bm^3 H_2O-eq.	2018
Spillover water stress	11.26	m^3 H_2O-eq./capita	1.0			379.66	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Slovakia

OECD Member

Land area	48,080 sq. km	**Population**	5.5 million
GDP (PPP, constant 2017 US$, billions)	$165.6	**GDP per capita**	$30,330
Human Development Index (HDI)	0.848	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		30.2 /100	↓
ABSOLUTE		60.7 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories
Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Slovakia

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	7.86	kg/capita	49.4	●	↓	42.83	Gg	2018
Spillover SO_2 emissions	9.39	kg/capita	29.1	●	→	50.92	Gg	2015
Domestic NO_X emissions	13.73	kg/capita	81.9	●	↓	74.76	Gg	2018
Spillover NO_X emissions	10.95	kg/capita	24.3	●	→	59.40	Gg	2015
Domestic black carbon emissions	0.30	kg/capita	81.4	●	↓	1.65	Gg	2018
Spillover black carbon emissions	0.34	kg/capita	30.5	●	↓	1.86	Gg	2015
GHG Emissions								
Domestic GHG emissions	9.86	t CO_2e/capita	38.1	●	↓	53.78	Tg	2019
Spillover GHG emissions	7.25	t CO_2e/capita	19.2	●	↓	39.47	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.09	t CO_2e/capita	29.2	●	●	0.49	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	85.78	%	15.4	●	↓	85.78	%	2020
Unprotected freshwater biodiversity sites	86.27	%	15.2	●	↓	86.27	%	2020
Domestic land use related biodiversity loss	4.87×10^{-12}	global PDF/capita	93.5	●	→	2.65×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	3.69×10^{-12}	global PDF/capita	81.0	●	↓	2.01×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.27	spp./million	42.0	●	●	1.47	species	2018
Spillover freshwater biodiversity threats	0.23	spp./million	22.7	●	●	1.27	species	2018
Domestic deforestation	0.56	%	58.2	●	↓	1.32×10^{4}	hectares	2020
Spillover deforestation	1.87×10^{-3}	ha/capita	74.7	●	↓	1.02×10^{4}	hectares	2018
Red List Index of species survival	0.95	scale 0 to 1	88.8	●	↗	0.95	scale 0 to 1	2021
Biodiversity Habitat Index	0.36	scale 0 to 1	10.4	●	●	0.36	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	2.16×10^{-5}	WOE/capita	99.7	●	●	1.18×10^{2}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	NA	WOE/million	NA	●	●	NA	WOE	NA
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic marine biodiversity threats	NA	spp./million	NA	●	●	NA	species	NA
Spillover marine biodiversity threats	0.12	spp./million	28.2	●	●	0.66	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	NA	%	NA	●	●	NA	%	NA
Domestic vulnerable fisheries catch	NA	tonnes/capita	NA	●	●	NA	Tg	NA
Spillover vulnerable fisheries catch	11.21	tonnes/capita	32.3	●	↓	0.06	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.45	scale 0 to 1.4	61.8	●	↓	0.45	scale 0 to 1.4	2015
Domestic nitrogen surplus	12.25	kg/capita	66.1	●	↓	66.43	Gg	2015
Spillover nitrogen surplus	11.07	kg/capita	14.3	●	↓	60.04	Tg	2015
Domestic phosphorus fertilizer	4.71	kg/capita	51.0	●	↓	25.67	kt	2018
Spillover phosphorus fertilizer	3.20	g/capita	33.2	●	↓	17.43	kt	2018
Water Cycle								
Domestic scarce water consumption	1.98	m^3 H_2O-eq./capita	54.6	●	↓	10.78	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	40.07	m^3 H_2O-eq./capita	46.2	●	↓	635.29	Mm^3 H_2O-eq.	2018
Domestic water stress	0.10	ML H_2O-eq./capita	66.5	●	↓	0.53	Bm^3 H_2O-eq.	2018
Spillover water stress	1.63	m^3 H_2O-eq./capita	45.5	●	↓	25.89	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Slovenia

OECD Member

Land area	20,136 sq. km	**Population**	2.1 million
GDP (PPP, constant 2017 US$, billions)	$77.9	**GDP per capita**	$37,091
Human Development Index (HDI)	0.918	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		27.9 /100	→
ABSOLUTE		72.9 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories
Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Slovenia

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	6.93	kg/capita	52.3	●	↓	14.37	Gg	2018
Spillover SO_2 emissions	14.30	kg/capita	17.5	●	→	29.50	Gg	2015
Domestic NO_X emissions	14.23	kg/capita	80.9	●	→	29.52	Gg	2018
Spillover NO_X emissions	11.88	kg/capita	22.2	●	→	24.52	Gg	2015
Domestic black carbon emissions	0.67	kg/capita	48.3	●	↓	1.39	Gg	2018
Spillover black carbon emissions	0.40	kg/capita	26.3	●	→	0.83	Gg	2015
GHG Emissions								
Domestic GHG emissions	11.17	t CO_2e/capita	33.3	●	→	23.33	Tg	2019
Spillover GHG emissions	7.62	t CO_2e/capita	17.8	●	↓	15.81	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.02	t CO_2e/capita	36.4	●	●	0.04	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	73.55	%	27.8	●	↓	73.55	%	2020
Unprotected freshwater biodiversity sites	83.98	%	17.6	●	↓	83.98	%	2020
Domestic land use related biodiversity loss	3.68×10^{-12}	global PDF/capita	95.1	●	→	7.64×10^{-6}	global PDF	2018
Spillover land use related biodiversity loss	7.68×10^{-12}	global PDF/capita	57.1	●	↓	1.59×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	9.16	spp./million	1.0	●	●	19.03	species	2018
Spillover freshwater biodiversity threats	0.56	spp./million	7.9	●	●	1.17	species	2018
Domestic deforestation	0.40	%	69.7	●	↓	5.10×10^{3}	hectares	2020
Spillover deforestation	2.94×10^{-3}	ha/capita	58.9	●	↓	6.11×10^{3}	hectares	2018
Red List Index of species survival	0.93	scale 0 to 1	81.4	●	↓	0.93	scale 0 to 1	2021
Biodiversity Habitat Index	0.42	scale 0 to 1	18.7	●	●	0.42	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	4.79×10^{-7}	WOE/million	100.0	●	●	1.00	WOE	2019
Spillover endangered terrestrial animals	7.69×10^{-5}	WOE/capita	99.1	●	●	1.61×10^{2}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	62.38	%	38.2	●	↓	62.38	%	2020
Domestic marine biodiversity threats	0.03	spp./million	77.9	●	●	0.06	species	2018
Spillover marine biodiversity threats	0.08	spp./million	34.2	●	●	0.16	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	41.85	%	31.6	●	↓	41.85	%	2018
Domestic vulnerable fisheries catch	0.11	tonnes/capita	97.4	●	↑	0.00	Tg	2018
Spillover vulnerable fisheries catch	13.01	tonnes/capita	29.8	●	↓	0.03	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.73	scale 0 to 1.4	37.8	●	→	0.73	scale 0 to 1.4	2015
Domestic nitrogen surplus	15.26	kg/capita	57.4	●	↓	31.49	Gg	2015
Spillover nitrogen surplus	11.75	kg/capita	13.2	●	→	24.24	Tg	2015
Domestic phosphorus fertilizer	4.40	kg/capita	52.8	●	→	9.13	kt	2018
Spillover phosphorus fertilizer	5.34	g/capita	17.3	●	↓	11.08	kt	2018
Water Cycle								
Domestic scarce water consumption	0.07	m^3 H_2O-eq./capita	91.6	●	↓	0.15	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	215.81	m^3 H_2O-eq./capita	2.3	●	↓	1,216.86	Mm^3 H_2O-eq.	2018
Domestic water stress	0.02	ML H_2O-eq./capita	86.8	●	↓	0.04	Bm^3 H_2O-eq.	2018
Spillover water stress	7.82	m^3 H_2O-eq./capita	5.0	●	↓	44.11	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Somalia

Africa

Land area	627,340 sq. km	**Population**	15.9 million
GDP (PPP, constant 2017 US$, billions)	$23.0	**GDP per capita**	$1,444
Human Development Index (HDI)	NA	**HDI category**	Low

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		84.5 /100	
ABSOLUTE		77.6 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Somalia

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	0.69	kg/capita	100.0	●	↓	10.34	Gg	2018
Spillover SO_2 emissions	0.00	kg/capita	100.0	●	↓	0.05	Gg	2015
Domestic NO_X emissions	1.75	kg/capita	100.0	●	↑	26.20	Gg	2018
Spillover NO_X emissions	0.01	kg/capita	100.0	●	↓	0.11	Gg	2015
Domestic black carbon emissions	0.82	kg/capita	34.3	●	↓	12.37	Gg	2018
Spillover black carbon emissions	0.00	kg/capita	100.0	●	↓	0.00	Gg	2015
GHG Emissions								
Domestic GHG emissions	3.62	t CO_2e/capita	77.0	●	↗	55.95	Tg	2019
Spillover GHG emissions	0.00	t CO_2e/capita	100.0	●	↑	0.05	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA	●	●	NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	0.00	%	100.0	●	●	0.00	%	2020
Unprotected freshwater biodiversity sites	0.00	%	100.0	●	●	0.00	%	2020
Domestic land use related biodiversity loss	4.54×10^{-12}	global PDF/capita	94.0	●	→	6.81×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	9.97×10^{-15}	global PDF/capita	100.0	●	↑	1.50×10^{-7}	global PDF	2018
Domestic freshwater biodiversity threats	0.18	spp./million	47.2	●	●	2.78	species	2018
Spillover freshwater biodiversity threats	0.00	spp./million	100.0	●	●	0.00	species	2018
Domestic deforestation	0.12	%	91.1	●	↓	1.73×10^{2}	hectares	2020
Spillover deforestation	1.45×10^{-6}	ha/capita	100.0	●	↑	2.18×10	hectares	2018
Red List Index of species survival	0.90	scale 0 to 1	71.4	●	↓	0.90	scale 0 to 1	2021
Biodiversity Habitat Index	0.45	scale 0 to 1	23.3	●	●	0.45	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	3.24×10^{-8}	WOE/million	100.0	●	●	5.00×10^{-1}	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	0.00	%	100.0	●	●	0.00	%	2020
Domestic marine biodiversity threats	1.89	spp./million	21.1	●	●	28.44	species	2018
Spillover marine biodiversity threats	0.00	spp./million	100.0	●	●	0.00	species	2018
Fish caught from overexploited or collapsed stocks	13.97	%	77.7	●	→	13.97	%	2018
Fish caught by trawling	0.00	%	100.0	●	●	0.00	%	2018
Domestic vulnerable fisheries catch	12.59	tonnes/capita	35.1	●	→	0.19	Tg	2018
Spillover vulnerable fisheries catch	0.01	tonnes/capita	100.0	●	↓	0.00	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	1.11	scale 0 to 1.4	4.4	●	→	1.11	scale 0 to 1.4	2015
Domestic nitrogen surplus	0.97	kg/capita	98.6	●	↑	13.36	Gg	2015
Spillover nitrogen surplus	0.02	kg/capita	100.0	●	↑	0.24	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	0.01	g/capita	100.0	●	↓	0.13	kt	2018
Water Cycle								
Domestic scarce water consumption	1.63	m^3 H_2O-eq./capita	56.7	●	↗	24.52	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	12.78	m^3 H_2O-eq./capita	75.9	●	↑	97.76	Mm^3 H_2O-eq.	2018
Domestic water stress	0.58	ML H_2O-eq./capita	43.3	●	↗	8.76	Bm^3 H_2O-eq.	2018
Spillover water stress	0.59	m^3 H_2O-eq./capita	71.7	●	↓	4.54	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

South Africa

Africa

Land area	1,213,090 sq. km	**Population**	59.3 million
GDP (PPP, constant 2017 US$, billions)	$680.0	**GDP per capita**	$11,466
Human Development Index (HDI)	0.713	**HDI category**	High

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		46.0 /100	
ABSOLUTE		37.1 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

South Africa

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	48.76	kg/capita	7.4	●	→	2,818.09	Gg	2018
Spillover SO_2 emissions	2.47	kg/capita	66.0	●	↑	136.61	Gg	2015
Domestic NO_X emissions	33.24	kg/capita	42.0	●	→	1,920.81	Gg	2018
Spillover NO_X emissions	2.48	kg/capita	63.8	●	↑	137.34	Gg	2015
Domestic black carbon emissions	0.79	kg/capita	37.2	●	→	45.81	Gg	2018
Spillover black carbon emissions	0.12	kg/capita	59.4	●	↑	6.69	Gg	2015
GHG Emissions								
Domestic GHG emissions	10.99	t CO_2e/capita	33.9	●	→	643.35	Tg	2019
Spillover GHG emissions	1.12	t CO_2e/capita	71.6	●	↗	64.66	Tg	2018
CO_2 emissions embodied in fossil fuel exports	1.64	t CO_2e/capita	15.9	●	●	97.43	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	33.08	%	68.8	●	↓	33.08	%	2020
Unprotected freshwater biodiversity sites	36.53	%	66.6	●	↓	36.53	%	2020
Domestic land use related biodiversity loss	2.27×10^{-11}	global PDF/capita	69.8	●	→	1.31×10^{-3}	global PDF	2018
Spillover land use related biodiversity loss	1.63×10^{-12}	global PDF/capita	93.3	●	↗	9.42×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	1.04	spp./million	23.6	●	●	59.87	species	2018
Spillover freshwater biodiversity threats	0.20	spp./million	25.5	●	●	11.44	species	2018
Domestic deforestation	1.20	%	9.6	●	↓	6.36×10^{4}	hectares	2020
Spillover deforestation	3.88×10^{-4}	ha/capita	96.4	●	↓	2.24×10^{4}	hectares	2018
Red List Index of species survival	0.77	scale 0 to 1	32.7	●	↓	0.77	scale 0 to 1	2021
Biodiversity Habitat Index	0.41	scale 0 to 1	18.2	●	●	0.41	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	1.16×10^{-4}	WOE/million	98.8	●	●	6.80×10^{3}	WOE	2019
Spillover endangered terrestrial animals	1.56×10^{-3}	WOE/capita	81.7	●	●	9.14×10^{4}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	8.38×10^{-6}	WOE/million	99.7	●	●	4.91×10^{2}	WOE	2019
Spillover endangered marine animals	1.04×10^{-3}	WOE/capita	33.5	●	●	6.09×10^{4}	WOE	2019
Unprotected marine biodiversity sites	46.57	%	53.9	●	↓	46.57	%	2020
Domestic marine biodiversity threats	1.39	spp./million	25.3	●	●	80.51	species	2018
Spillover marine biodiversity threats	0.08	spp./million	33.5	●	●	4.65	species	2018
Fish caught from overexploited or collapsed stocks	20.78	%	66.9	●	→	20.78	%	2018
Fish caught by trawling	23.10	%	62.3	●	→	23.10	%	2018
Domestic vulnerable fisheries catch	11.06	tonnes/capita	36.8	●	→	0.64	Tg	2018
Spillover vulnerable fisheries catch	4.00	tonnes/capita	49.5	●	↓	0.23	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.55	scale 0 to 1.4	53.5	●	→	0.55	scale 0 to 1.4	2015
Domestic nitrogen surplus	5.13	kg/capita	86.6	●	↓	283.87	Gg	2015
Spillover nitrogen surplus	2.42	kg/capita	43.2	●	↓	134.04	Tg	2015
Domestic phosphorus fertilizer	4.31	kg/capita	53.4	●	→	248.90	kt	2018
Spillover phosphorus fertilizer	0.83	g/capita	75.0	●	↑	48.05	kt	2018
Water Cycle								
Domestic scarce water consumption	1.35	m^3 H_2O-eq./capita	58.9	●	↓	77.80	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	21.88	m^3 H_2O-eq./capita	61.9	●	↗	140.50	Mm^3 H_2O-eq.	2018
Domestic water stress	1.39	ML H_2O-eq./capita	32.1	●	↓	80.30	Bm^3 H_2O-eq.	2018
Spillover water stress	1.07	m^3 H_2O-eq./capita	56.4	●	↗	6.88	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

South Korea

OECD Member

Land area	97,520 sq. km	**Population**	51.8 million
GDP (PPP, constant 2017 US$, billions)	$2,187.8	**GDP per capita**	$42,251
Human Development Index (HDI)	0.925	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	21.7 /100	↓
ABSOLUTE	●	27.1 /100	↓

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

South Korea

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	13.89	kg/capita	36.3	●	→	716.73	Gg	2018
Spillover SO_2 emissions	12.49	kg/capita	21.3	●	→	636.97	Gg	2015
Domestic NO_X emissions	22.73	kg/capita	63.5	●	↓	1,173.19	Gg	2018
Spillover NO_X emissions	11.85	kg/capita	22.2	●	↓	604.63	Gg	2015
Domestic black carbon emissions	0.26	kg/capita	85.4	●	↗	13.36	Gg	2018
Spillover black carbon emissions	0.51	kg/capita	19.6	●	→	25.99	Gg	2015
GHG Emissions								
Domestic GHG emissions	14.43	t CO_2e/capita	23.3	●	↓	746.10	Tg	2019
Spillover GHG emissions	8.26	t CO_2e/capita	15.6	●	↓	426.07	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.00	t CO_2e/capita	48.2	●	●	0.07	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	37.57	%	64.3	●	↓	37.57	%	2020
Unprotected freshwater biodiversity sites	36.83	%	66.3	●	↓	36.83	%	2020
Domestic land use related biodiversity loss	5.91×10^{-13}	global PDF/capita	99.2	●	↗	3.05×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	1.70×10^{-11}	global PDF/capita	1.0	●	↓	8.79×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	0.03	spp./million	73.6	●	●	1.30	species	2018
Spillover freshwater biodiversity threats	0.35	spp./million	16.0	●	●	17.80	species	2018
Domestic deforestation	0.40	%	69.8	●	↓	2.05×10^{4}	hectares	2020
Spillover deforestation	2.77×10^{-3}	ha/capita	61.5	●	↓	1.43×10^{5}	hectares	2018
Red List Index of species survival	0.70	scale 0 to 1	10.1	●	↓	0.70	scale 0 to 1	2021
Biodiversity Habitat Index	0.42	scale 0 to 1	18.9	●	●	0.42	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	3.87×10^{-8}	WOE/million	100.0	●	●	2.00	WOE	2019
Spillover endangered terrestrial animals	8.45×10^{-4}	WOE/capita	90.1	●	●	4.37×10^{4}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	3.42×10^{-4}	WOE/capita	78.1	●	●	1.77×10^{4}	WOE	2019
Unprotected marine biodiversity sites	38.68	%	61.7	●	↓	38.68	%	2020
Domestic marine biodiversity threats	0.21	spp./million	51.3	●	●	10.94	species	2018
Spillover marine biodiversity threats	0.43	spp./million	11.9	●	●	22.06	species	2018
Fish caught from overexploited or collapsed stocks	42.18	%	32.7	●	↓	42.18	%	2018
Fish caught by trawling	33.71	%	44.9	●	↓	33.71	%	2018
Domestic vulnerable fisheries catch	58.29	tonnes/capita	15.0	●	→	3.01	Tg	2018
Spillover vulnerable fisheries catch	91.86	tonnes/capita	1.0	●	↓	4.74	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.64	scale 0 to 1.4	44.9	●	↓	0.64	scale 0 to 1.4	2015
Domestic nitrogen surplus	5.18	kg/capita	86.5	●	↓	264.20	Gg	2015
Spillover nitrogen surplus	11.51	kg/capita	13.6	●	↓	587.42	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	9.06	g/capita	1.0	●	→	467.55	kt	2018
Water Cycle								
Domestic scarce water consumption	6.93	m^3 H_2O-eq./capita	40.5	●	↓	357.50	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	290.61	m^3 H_2O-eq./capita	1.0	●	↓	14,935.24	Mm^3 H_2O-eq.	2018
Domestic water stress	0.05	ML H_2O-eq./capita	74.7	●	↓	2.65	Bm^3 H_2O-eq.	2018
Spillover water stress	1.14	m^3 H_2O-eq./capita	54.8	●	↓	58.77	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Spain

OECD Member

Land area	499,603 sq. km	**Population**	47.4 million
GDP (PPP, constant 2017 US$, billions)	$1,715.1	**GDP per capita**	$36,220
Human Development Index (HDI)	0.905	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	34.5 /100	→
ABSOLUTE	●	33.6 /100	↓

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Spain

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	7.72	kg/capita	49.8	●	↓	361.24	Gg	2018
Spillover SO_2 emissions	7.37	kg/capita	35.8	●	→	342.08	Gg	2015
Domestic NO_X emissions	16.69	kg/capita	75.9	●	↓	781.13	Gg	2018
Spillover NO_X emissions	8.72	kg/capita	30.4	●	→	405.12	Gg	2015
Domestic black carbon emissions	0.33	kg/capita	79.4	●	↓	15.25	Gg	2018
Spillover black carbon emissions	0.33	kg/capita	31.3	●	→	15.48	Gg	2015
GHG Emissions								
Domestic GHG emissions	8.01	t CO_2e/capita	46.2	●	→	377.40	Tg	2019
Spillover GHG emissions	4.91	t CO_2e/capita	30.1	●	↓	229.84	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.11	t CO_2e/capita	28.4	●	●	4.98	Tg	2021
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	57.60	%	44.0	●	↓	57.60	%	2020
Unprotected freshwater biodiversity sites	51.33	%	51.3	●	↓	51.33	%	2020
Domestic land use related biodiversity loss	2.29×10^{-11}	global PDF/capita	69.5	●	→	1.07×10^{-3}	global PDF	2018
Spillover land use related biodiversity loss	8.80×10^{-12}	global PDF/capita	50.3	●	↓	4.12×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	1.46	spp./million	18.8	●	●	68.30	species	2018
Spillover freshwater biodiversity threats	0.49	spp./million	10.3	●	●	22.77	species	2018
Domestic deforestation	0.86	%	35.4	●	↓	8.98×10^{4}	hectares	2020
Spillover deforestation	3.29×10^{-3}	ha/capita	53.9	●	↓	1.54×10^{5}	hectares	2018
Red List Index of species survival	0.85	scale 0 to 1	56.2	●	↓	0.85	scale 0 to 1	2021
Biodiversity Habitat Index	0.33	scale 0 to 1	6.4	●	●	0.33	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	1.70×10^{-7}	WOE/million	100.0	●	●	8.00	WOE	2019
Spillover endangered terrestrial animals	1.06×10^{-3}	WOE/capita	87.6	●	●	4.98×10^{4}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	2.35×10^{-4}	WOE/capita	85.0	●	●	1.11×10^{4}	WOE	2019
Unprotected marine biodiversity sites	85.74	%	15.1	●	↓	85.74	%	2020
Domestic marine biodiversity threats	0.68	spp./million	35.4	●	●	31.53	species	2018
Spillover marine biodiversity threats	0.64	spp./million	6.8	●	●	29.79	species	2018
Fish caught from overexploited or collapsed stocks	32.07	%	48.8	●	→	32.07	%	2018
Fish caught by trawling	42.84	%	29.9	●	↓	42.84	%	2018
Domestic vulnerable fisheries catch	12.94	tonnes/capita	34.8	●	→	0.61	Tg	2018
Spillover vulnerable fisheries catch	53.78	tonnes/capita	6.1	●	→	2.52	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.83	scale 0 to 1.4	28.9	●	↓	0.83	scale 0 to 1.4	2015
Domestic nitrogen surplus	22.19	kg/capita	37.5	●	↓	1,030.58	Gg	2015
Spillover nitrogen surplus	9.26	kg/capita	17.7	●	↓	429.93	Tg	2015
Domestic phosphorus fertilizer	9.10	kg/capita	33.3	●	↓	425.96	kt	2018
Spillover phosphorus fertilizer	5.25	g/capita	17.9	●	↓	245.76	kt	2018
Water Cycle								
Domestic scarce water consumption	0.47	m^3 H_2O-eq./capita	70.8	●	↗	21.92	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	0.40	m^3 H_2O-eq./capita	100.0	●	↓	5.93	Mm^3 H_2O-eq.	2018
Domestic water stress	20.22	ML H_2O-eq./capita	1.0	●	↓	946.33	Bm^3 H_2O-eq.	2018
Spillover water stress	0.02	m^3 H_2O-eq./capita	100.0	●	↓	0.24	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Sri Lanka

East and South Asia

Land area	61,864 sq. km	**Population**	21.9 million
GDP (PPP, constant 2017 US$, billions)	$274.8	**GDP per capita**	$12,537
Human Development Index (HDI)	0.782	**HDI category**	High

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	63.7 /100	→
ABSOLUTE	●	57.8 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Sri Lanka

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	6.68	kg/capita	53.1	●	↓	144.81	Gg	2018
Spillover SO_2 emissions	3.66	kg/capita	55.1	●	↓	76.74	Gg	2015
Domestic NO_X emissions	7.46	kg/capita	94.7	●	↓	161.71	Gg	2018
Spillover NO_X emissions	3.16	kg/capita	57.3	●	↓	66.35	Gg	2015
Domestic black carbon emissions	0.54	kg/capita	59.9	●	→	11.73	Gg	2018
Spillover black carbon emissions	0.16	kg/capita	51.5	●	↓	3.37	Gg	2015
GHG Emissions								
Domestic GHG emissions	2.98	t CO_2e/capita	84.5	●	↗	65.05	Tg	2019
Spillover GHG emissions	1.57	t CO_2e/capita	62.1	●	↓	34.06	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA	●	●	NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	43.69	%	58.1	●	↓	43.69	%	2020
Unprotected freshwater biodiversity sites	43.90	%	59.0	●	↓	43.90	%	2020
Domestic land use related biodiversity loss	2.54×10^{-11}	global PDF/capita	66.2	●	→	5.51×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	1.73×10^{-12}	global PDF/capita	92.7	●	↓	3.75×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	2.06	spp./million	14.1	●	●	43.71	species	2018
Spillover freshwater biodiversity threats	0.01	spp./million	72.6	●	●	0.25	species	2018
Domestic deforestation	0.32	%	75.7	●	↓	1.14×10^{4}	hectares	2020
Spillover deforestation	3.12×10^{-4}	ha/capita	97.5	●	↓	6.76×10^{3}	hectares	2018
Red List Index of species survival	0.57	scale 0 to 1	1.0	●	↓	0.57	scale 0 to 1	2021
Biodiversity Habitat Index	0.35	scale 0 to 1	9.7	●	●	0.35	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	2.29×10^{-7}	WOE/million	100.0	●	●	5.00	WOE	2019
Spillover endangered terrestrial animals	3.12×10^{-6}	WOE/capita	100.0	●	●	6.80×10	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	2.48×10^{-5}	WOE/million	99.2	●	●	5.40×10^{2}	WOE	2019
Spillover endangered marine animals	1.83×10^{-5}	WOE/capita	98.8	●	●	4.00×10^{2}	WOE	2019
Unprotected marine biodiversity sites	49.97	%	50.5	●	↓	49.97	%	2020
Domestic marine biodiversity threats	0.53	spp./million	38.6	●	●	11.32	species	2018
Spillover marine biodiversity threats	0.10	spp./million	30.8	●	●	2.10	species	2018
Fish caught from overexploited or collapsed stocks	11.71	%	81.4	●	→	11.71	%	2018
Fish caught by trawling	0.00	%	100.0	●	●	0.00	%	2018
Domestic vulnerable fisheries catch	43.58	tonnes/capita	18.8	●	→	0.94	Tg	2018
Spillover vulnerable fisheries catch	6.33	tonnes/capita	41.9	●	↓	0.14	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.87	scale 0 to 1.4	25.1	●	→	0.87	scale 0 to 1.4	2015
Domestic nitrogen surplus	9.80	kg/capita	73.1	●	↓	205.61	Gg	2015
Spillover nitrogen surplus	1.15	kg/capita	57.3	●	→	24.09	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	1.37	g/capita	59.4	●	↓	29.74	kt	2018
Water Cycle								
Domestic scarce water consumption	76.51	m^3 H_2O-eq./capita	13.5	●	→	1,657.97	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	35.39	m^3 H_2O-eq./capita	49.4	●	↓	192.77	Mm^3 H_2O-eq.	2018
Domestic water stress	1.41	ML H_2O-eq./capita	32.0	●	→	30.52	Bm^3 H_2O-eq.	2018
Spillover water stress	1.43	m^3 H_2O-eq./capita	49.0	●	↓	7.79	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Sweden

OECD Member

Land area	407,310 sq. km	**Population**	10.4 million
GDP (PPP, constant 2017 US$, billions)	$528.1	**GDP per capita**	$51,003
Human Development Index (HDI)	0.947	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		23.7 /100	→
ABSOLUTE		49.7 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

The Global Commons Stewardship Index is a production of the Sustainable Development Solutions Network, the Yale Center for Environmental Law & Policy, and the Center for Global Commons at the University of Tokyo.

Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Sweden

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	15.88	kg/capita	33.2			161.61	Gg	2018
Spillover SO_2 emissions	15.05	kg/capita	16.1			147.51	Gg	2015
Domestic NO_X emissions	16.61	kg/capita	76.0			169.03	Gg	2018
Spillover NO_X emissions	19.59	kg/capita	8.9			191.96	Gg	2015
Domestic black carbon emissions	0.64	kg/capita	50.8			6.54	Gg	2018
Spillover black carbon emissions	0.62	kg/capita	14.1			6.09	Gg	2015
GHG Emissions								
Domestic GHG emissions	12.85	t CO_2e/capita	27.8			132.10	Tg	2019
Spillover GHG emissions	8.42	t CO_2e/capita	15.0			85.71	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.07	t CO_2e/capita	30.5			0.70	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	59.11	%	42.4			59.11	%	2020
Unprotected freshwater biodiversity sites	59.41	%	42.9			59.41	%	2020
Domestic land use related biodiversity loss	8.62×10^{-13}	global PDF/capita	98.9			8.77×10^{-6}	global PDF	2018
Spillover land use related biodiversity loss	7.92×10^{-12}	global PDF/capita	55.6			8.06×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.13	spp./million	52.2			1.27	species	2018
Spillover freshwater biodiversity threats	0.15	spp./million	30.2			1.50	species	2018
Domestic deforestation	1.10	%	17.8			3.18×10^{5}	hectares	2020
Spillover deforestation	4.68×10^{-3}	ha/capita	33.5			4.76×10^{4}	hectares	2018
Red List Index of species survival	0.99	scale 0 to 1	100.0			0.99	scale 0 to 1	2021
Biodiversity Habitat Index	0.61	scale 0 to 1	45.8			0.61	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	9.73×10^{-7}	WOE/million	100.0			1.00×10	WOE	2019
Spillover endangered terrestrial animals	1.39×10^{-5}	WOE/capita	99.8			1.43×10^{2}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0			0.00	WOE	2019
Spillover endangered marine animals	3.95×10^{-5}	WOE/capita	97.5			4.06×10^{2}	WOE	2019
Unprotected marine biodiversity sites	60.23	%	40.4			60.23	%	2020
Domestic marine biodiversity threats	0.12	spp./million	59.3			1.19	species	2018
Spillover marine biodiversity threats	0.08	spp./million	33.2			0.82	species	2018
Fish caught from overexploited or collapsed stocks	39.16	%	37.5			39.16	%	2018
Fish caught by trawling	22.82	%	62.8			22.82	%	2018
Domestic vulnerable fisheries catch	34.96	tonnes/capita	21.7			0.36	Tg	2018
Spillover vulnerable fisheries catch	31.89	tonnes/capita	14.9			0.32	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.49	scale 0 to 1.4	58.2			0.49	scale 0 to 1.4	2015
Domestic nitrogen surplus	12.78	kg/capita	64.6			125.19	Gg	2015
Spillover nitrogen surplus	12.87	kg/capita	11.5			126.10	Tg	2015
Domestic phosphorus fertilizer	3.22	kg/capita	61.2			32.72	kt	2018
Spillover phosphorus fertilizer	4.66	g/capita	21.6			47.44	kt	2018
Water Cycle								
Domestic scarce water consumption	19.63	m^3 H_2O-eq./capita	28.8			199.72	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	78.72	m^3 H_2O-eq./capita	28.6			163.26	Mm^3 H_2O-eq.	2018
Domestic water stress	0.11	ML H_2O-eq./capita	65.4			1.07	Bm^3 H_2O-eq.	2018
Spillover water stress	3.08	m^3 H_2O-eq./capita	29.2			6.38	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Switzerland

OECD Member

Land area	39,516 sq. km	**Population**	8.6 million
GDP (PPP, constant 2017 US$, billions)	$593.8	**GDP per capita**	$68,753
Human Development Index (HDI)	0.962	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		12.8 /100	→
ABSOLUTE		55.9 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Switzerland

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	3.03	kg/capita	71.3	●	↗	25.80	Gg	2018
Spillover SO_2 emissions	20.85	kg/capita	7.1	●	→	172.67	Gg	2015
Domestic NO_X emissions	8.04	kg/capita	93.5	●	↑	68.48	Gg	2018
Spillover NO_X emissions	32.13	kg/capita	1.0	●	→	266.15	Gg	2015
Domestic black carbon emissions	0.14	kg/capita	95.9	●	↑	1.21	Gg	2018
Spillover black carbon emissions	0.84	kg/capita	5.7	●	↑	6.96	Gg	2015
GHG Emissions								
Domestic GHG emissions	6.48	t CO_2e/capita	54.4	●	→	55.55	Tg	2019
Spillover GHG emissions	13.55	t CO_2e/capita	1.6	●	↓	115.40	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.00	t CO_2e/capita	87.3	●	●	0.00	Tg	2021
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	37.03	%	64.8	●	↓	37.03	%	2020
Unprotected freshwater biodiversity sites	60.23	%	42.1	●	↓	60.23	%	2020
Domestic land use related biodiversity loss	2.28×10^{-12}	global PDF/capita	97.0	●	→	1.94×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	9.02×10^{-12}	global PDF/capita	49.0	●	↓	7.68×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.38	spp./million	37.4	●	●	3.22	species	2018
Spillover freshwater biodiversity threats	0.67	spp./million	4.9	●	●	5.72	species	2018
Domestic deforestation	0.19	%	85.8	●	↓	2.94×10^{3}	hectares	2020
Spillover deforestation	3.41×10^{-3}	ha/capita	52.1	●	↓	2.90×10^{4}	hectares	2018
Red List Index of species survival	0.97	scale 0 to 1	95.1	●	↗	0.97	scale 0 to 1	2021
Biodiversity Habitat Index	0.44	scale 0 to 1	22.7	●	●	0.44	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	9.33×10^{-7}	WOE/million	100.0	●	●	8.00	WOE	2019
Spillover endangered terrestrial animals	8.22×10^{-3}	WOE/capita	3.8	●	●	7.05×10^{4}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	NA	WOE/million	NA	●	●	NA	WOE	NA
Spillover endangered marine animals	3.09×10^{-4}	WOE/capita	80.3	●	●	2.65×10^{3}	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic marine biodiversity threats	NA	spp./million	NA	●	●	NA	species	NA
Spillover marine biodiversity threats	0.54	spp./million	9.0	●	●	4.59	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	NA	%	NA	●	●	NA	%	NA
Domestic vulnerable fisheries catch	NA	tonnes/capita	NA	●	●	NA	Tg	NA
Spillover vulnerable fisheries catch	21.04	tonnes/capita	21.8	●	→	0.18	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.69	scale 0 to 1.4	41.1	●	↓	0.69	scale 0 to 1.4	2015
Domestic nitrogen surplus	7.83	kg/capita	78.8	●	↓	64.84	Gg	2015
Spillover nitrogen surplus	23.67	kg/capita	1.0	●	↓	196.08	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	4.04	g/capita	26.0	●	↓	34.39	kt	2018
Water Cycle								
Domestic scarce water consumption	6.64	m^3 H_2O-eq./capita	41.0	●	↗	56.52	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	75.34	m^3 H_2O-eq./capita	29.7	●	→	766.60	Mm^3 H_2O-eq.	2018
Domestic water stress	0.01	ML H_2O-eq./capita	91.0	●	↓	0.12	Bm^3 H_2O-eq.	2018
Spillover water stress	3.05	m^3 H_2O-eq./capita	29.4	●	↓	31.05	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Tajikistan

Eastern Europe and Central Asia

Land area	138,790 sq. km	**Population**	9.5 million
GDP (PPP, constant 2017 US$, billions)	$34.9	**GDP per capita**	$3,658
Human Development Index (HDI)	0.685	**HDI category**	Medium

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		76.3 /100	
ABSOLUTE		78.4 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Tajikistan

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	1.50	kg/capita	87.4		↓	13.68	Gg	2018
Spillover SO_2 emissions	1.32	kg/capita	83.3		↑	11.14	Gg	2015
Domestic NO_X emissions	2.20	kg/capita	100.0		↑	20.05	Gg	2018
Spillover NO_X emissions	1.41	kg/capita	78.8		↑	11.92	Gg	2015
Domestic black carbon emissions	0.04	kg/capita	100.0		↑	0.34	Gg	2018
Spillover black carbon emissions	0.03	kg/capita	96.8		↑	0.27	Gg	2015
GHG Emissions								
Domestic GHG emissions	2.30	t CO_2e/capita	94.5		↓	21.46	Tg	2019
Spillover GHG emissions	0.73	t CO_2e/capita	83.6		↑	6.65	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.00	t CO_2e/capita	44.3			0.03	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	16.81	%	85.3		↓	16.81	%	2020
Unprotected freshwater biodiversity sites	30.48	%	72.8		↓	30.48	%	2020
Domestic land use related biodiversity loss	4.43×10^{-12}	global PDF/capita	94.1		→	4.03×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	8.07×10^{-13}	global PDF/capita	98.2		↑	7.35×10^{-6}	global PDF	2018
Domestic freshwater biodiversity threats	0.05	spp./million	63.8			0.49	species	2018
Spillover freshwater biodiversity threats	0.01	spp./million	74.7			0.10	species	2018
Domestic deforestation	0.00	%	100.0			0.00	hectares	2020
Spillover deforestation	1.50×10^{-4}	ha/capita	99.9		↑	1.37×10^{3}	hectares	2018
Red List Index of species survival	0.99	scale 0 to 1	99.7		↓	0.99	scale 0 to 1	2021
Biodiversity Habitat Index	0.47	scale 0 to 1	27.0			0.47	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	6.54×10^{-6}	WOE/million	99.9			6.10×10	WOE	2019
Spillover endangered terrestrial animals	2.15×10^{-7}	WOE/capita	100.0			2.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	NA	WOE/million	NA			NA	WOE	NA
Spillover endangered marine animals	0.00	WOE/capita	100.0			0.00	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA			NA	%	NA
Domestic marine biodiversity threats	0.00	spp./million	100.0			0.01	species	2018
Spillover marine biodiversity threats	0.01	spp./million	56.6			0.12	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA			NA	%	NA
Fish caught by trawling	NA	%	NA			NA	%	NA
Domestic vulnerable fisheries catch	NA	tonnes/capita	NA			NA	Tg	NA
Spillover vulnerable fisheries catch	0.79	tonnes/capita	76.7		↑	0.01	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.72	scale 0 to 1.4	38.3		→	0.72	scale 0 to 1.4	2015
Domestic nitrogen surplus	7.51	kg/capita	79.7		↓	63.52	Gg	2015
Spillover nitrogen surplus	0.34	kg/capita	80.3		↓	2.90	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA			NA	kt	NA
Spillover phosphorus fertilizer	0.32	g/capita	100.0		↑	2.92	kt	2018
Water Cycle								
Domestic scarce water consumption	149.50	m^3 H_2O-eq./capita	6.0		→	1,360.56	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	2.46	m^3 H_2O-eq./capita	100.0		↑	38.02	Mm^3 H_2O-eq.	2018
Domestic water stress	6.74	ML H_2O-eq./capita	11.8		→	61.34	Bm^3 H_2O-eq.	2018
Spillover water stress	0.11	m^3 H_2O-eq./capita	100.0		→	1.76	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Tanzania

Africa

Land area	885,800 sq. km	**Population**	59.7 million
GDP (PPP, constant 2017 US$, billions)	$152.8	**GDP per capita**	$2,558
Human Development Index (HDI)	0.549	**HDI category**	Low

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		82.7 /100	
ABSOLUTE		61.5 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Tanzania

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	0.89	kg/capita	99.4	●	↑	50.33	Gg	2018
Spillover SO_2 emissions	0.72	kg/capita	99.9	●	↑	37.22	Gg	2015
Domestic NO_X emissions	2.68	kg/capita	100.0	●	↑	150.99	Gg	2018
Spillover NO_X emissions	0.65	kg/capita	99.5	●	↑	33.28	Gg	2015
Domestic black carbon emissions	0.65	kg/capita	50.1	●	→	36.57	Gg	2018
Spillover black carbon emissions	0.04	kg/capita	90.3	●	↑	2.04	Gg	2015
GHG Emissions								
Domestic GHG emissions	2.68	t CO_2e/capita	88.6	●	↑	155.47	Tg	2019
Spillover GHG emissions	0.20	t CO_2e/capita	100.0	●	↑	11.37	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.00	t CO_2e/capita	45.4	●	●	0.15	Tg	2021
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	62.97	%	38.5	●	↓	62.97	%	2020
Unprotected freshwater biodiversity sites	36.21	%	66.9	●	↓	36.21	%	2020
Domestic land use related biodiversity loss	4.61×10^{-12}	global PDF/capita	93.9	●	→	2.60×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	3.17×10^{-13}	global PDF/capita	100.0	●	↑	1.79×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	2.76	spp./million	10.1	●	●	155.47	species	2018
Spillover freshwater biodiversity threats	0.01	spp./million	81.9	●	●	0.38	species	2018
Domestic deforestation	0.67	%	50.1	●	↓	1.64×10^{5}	hectares	2020
Spillover deforestation	6.33×10^{-5}	ha/capita	100.0	●	↑	3.57×10^{3}	hectares	2018
Red List Index of species survival	0.69	scale 0 to 1	8.7	●	↓	0.69	scale 0 to 1	2021
Biodiversity Habitat Index	0.46	scale 0 to 1	24.6	●	●	0.46	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	6.70×10^{-6}	WOE/million	99.9	●	●	3.89×10^{2}	WOE	2019
Spillover endangered terrestrial animals	6.90×10^{-8}	WOE/capita	100.0	●	●	4.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	5.17×10^{-8}	WOE/capita	100.0	●	●	3.00	WOE	2019
Unprotected marine biodiversity sites	52.08	%	48.4	●	↓	52.08	%	2020
Domestic marine biodiversity threats	0.28	spp./million	47.7	●	●	15.66	species	2018
Spillover marine biodiversity threats	0.00	spp./million	79.2	●	●	0.12	species	2018
Fish caught from overexploited or collapsed stocks	23.51	%	62.5	●	↓	23.51	%	2018
Fish caught by trawling	0.00	%	100.0	●	●	0.00	%	2018
Domestic vulnerable fisheries catch	3.63	tonnes/capita	51.5	●	↗	0.20	Tg	2018
Spillover vulnerable fisheries catch	0.27	tonnes/capita	94.5	●	↑	0.02	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.79	scale 0 to 1.4	32.6	●	→	0.79	scale 0 to 1.4	2015
Domestic nitrogen surplus	1.77	kg/capita	96.3	●	↗	91.12	Gg	2015
Spillover nitrogen surplus	0.18	kg/capita	92.9	●	↑	9.08	Tg	2015
Domestic phosphorus fertilizer	1.02	kg/capita	92.0	●	↓	57.29	kt	2018
Spillover phosphorus fertilizer	0.19	g/capita	100.0	●	↑	10.92	kt	2018
Water Cycle								
Domestic scarce water consumption	5.07	m^3 H_2O-eq./capita	44.0	●	↗	285.30	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	9.14	m^3 H_2O-eq./capita	84.6	●	↑	72.07	Mm^3 H_2O-eq.	2018
Domestic water stress	0.23	ML H_2O-eq./capita	55.2	●	↗	13.13	Bm^3 H_2O-eq.	2018
Spillover water stress	0.36	m^3 H_2O-eq./capita	84.7	●	↑	2.84	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Thailand

East and South Asia

Land area	510,890 sq. km	**Population**	69.8 million
GDP (PPP, constant 2017 US$, billions)	$1,206.6	**GDP per capita**	$17,287
Human Development Index (HDI)	0.800	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	43.7 /100	→
ABSOLUTE	●	33.7 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Thailand

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	8.49	kg/capita	47.6	●	↗	589.21	Gg	2018
Spillover SO_2 emissions	3.83	kg/capita	53.9	●	→	263.37	Gg	2015
Domestic NO_X emissions	15.09	kg/capita	79.1	●	↓	1,047.75	Gg	2018
Spillover NO_X emissions	3.77	kg/capita	52.7	●	↓	259.00	Gg	2015
Domestic black carbon emissions	0.97	kg/capita	21.3	●	→	67.22	Gg	2018
Spillover black carbon emissions	0.17	kg/capita	49.7	●	↓	11.79	Gg	2015
GHG Emissions								
Domestic GHG emissions	10.03	t CO_2e/capita	37.4	●	↓	698.48	Tg	2019
Spillover GHG emissions	2.05	t CO_2e/capita	54.6	●	↓	142.48	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.07	t CO_2e/capita	30.2	●	●	4.94	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	71.10	%	30.3	●	↓	71.10	%	2020
Unprotected freshwater biodiversity sites	40.67	%	62.3	●	↓	40.67	%	2020
Domestic land use related biodiversity loss	1.29×10^{-11}	global PDF/capita	82.8	●	→	8.99×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	2.89×10^{-12}	global PDF/capita	85.7	●	↓	2.01×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	2.72	spp./million	10.3	●	●	188.76	species	2018
Spillover freshwater biodiversity threats	0.35	spp./million	15.9	●	●	24.23	species	2018
Domestic deforestation	0.66	%	50.6	●	↓	1.27×10^{5}	hectares	2020
Spillover deforestation	1.07×10^{-3}	ha/capita	86.4	●	↓	7.44×10^{4}	hectares	2018
Red List Index of species survival	0.77	scale 0 to 1	33.5	●	↓	0.77	scale 0 to 1	2021
Biodiversity Habitat Index	0.32	scale 0 to 1	4.9	●	●	0.32	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	8.81×10^{-4}	WOE/million	90.8	●	●	6.13×10^{4}	WOE	2019
Spillover endangered terrestrial animals	1.07×10^{-3}	WOE/capita	87.5	●	●	7.45×10^{4}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	1.56×10^{-4}	WOE/million	94.7	●	●	1.09×10^{4}	WOE	2019
Spillover endangered marine animals	2.15×10^{-5}	WOE/capita	98.6	●	●	1.50×10^{3}	WOE	2019
Unprotected marine biodiversity sites	47.54	%	52.9	●	↓	47.54	%	2020
Domestic marine biodiversity threats	0.27	spp./million	48.1	●	●	18.72	species	2018
Spillover marine biodiversity threats	0.05	spp./million	38.4	●	●	3.78	species	2018
Fish caught from overexploited or collapsed stocks	46.25	%	26.2	●	→	46.25	%	2018
Fish caught by trawling	16.27	%	73.6	●	↓	16.27	%	2018
Domestic vulnerable fisheries catch	28.07	tonnes/capita	24.6	●	→	1.95	Tg	2018
Spillover vulnerable fisheries catch	26.15	tonnes/capita	18.2	●	↓	1.82	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.87	scale 0 to 1.4	25.0	●	↓	0.87	scale 0 to 1.4	2015
Domestic nitrogen surplus	25.81	kg/capita	27.0	●	↓	1,773.63	Gg	2015
Spillover nitrogen surplus	2.83	kg/capita	40.3	●	↓	194.18	Tg	2015
Domestic phosphorus fertilizer	5.30	kg/capita	47.8	●	↑	367.75	kt	2018
Spillover phosphorus fertilizer	1.77	g/capita	51.5	●	↗	123.13	kt	2018
Water Cycle								
Domestic scarce water consumption	41.41	m^3 H_2O-eq./capita	20.4	●	→	2,875.36	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	20.89	m^3 H_2O-eq./capita	63.1	●	↓	1,450.45	Mm^3 H_2O-eq.	2018
Domestic water stress	0.78	ML H_2O-eq./capita	39.6	●	↓	54.13	Bm^3 H_2O-eq.	2018
Spillover water stress	0.90	m^3 H_2O-eq./capita	61.0	●	↓	62.37	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Togo

Africa

Land area	**54,390 sq. km**	**Population**	**8.3 million**
GDP (PPP, constant 2017 US$, billions)	**$17.5**	**GDP per capita**	**$2,108**
Human Development Index (HDI)	**0.539**	**HDI category**	**Low**

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		91.5 /100	
ABSOLUTE		85.5 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Togo

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	0.38	kg/capita	100.0	●	↓	2.96	Gg	2018
Spillover SO_2 emissions	0.66	kg/capita	100.0	●	↑	4.87	Gg	2015
Domestic NO_X emissions	3.14	kg/capita	100.0	●	↓	24.80	Gg	2018
Spillover NO_X emissions	0.60	kg/capita	100.0	●	↑	4.39	Gg	2015
Domestic black carbon emissions	0.76	kg/capita	40.2	●	→	5.99	Gg	2018
Spillover black carbon emissions	0.03	kg/capita	99.1	●	↑	0.21	Gg	2015
GHG Emissions								
Domestic GHG emissions	2.16	t CO_2e/capita	96.9	●	↓	17.49	Tg	2019
Spillover GHG emissions	0.31	t CO_2e/capita	100.0	●	↑	2.44	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA	●	●	NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	79.45	%	21.8	●	↓	79.45	%	2020
Unprotected freshwater biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic land use related biodiversity loss	7.33×10^{-13}	global PDF/capita	99.0	●	↗	5.79×10^{-6}	global PDF	2018
Spillover land use related biodiversity loss	8.97×10^{-13}	global PDF/capita	97.7	●	↗	7.07×10^{-6}	global PDF	2018
Domestic freshwater biodiversity threats	0.32	spp./million	39.7	●	●	2.51	species	2018
Spillover freshwater biodiversity threats	0.00	spp./million	89.8	●	●	0.03	species	2018
Domestic deforestation	0.97	%	26.9	●	↓	5.84×10^{3}	hectares	2020
Spillover deforestation	8.52×10^{-4}	ha/capita	89.6	●	↓	6.72×10^{3}	hectares	2018
Red List Index of species survival	0.86	scale 0 to 1	59.9	●	↓	0.86	scale 0 to 1	2021
Biodiversity Habitat Index	0.37	scale 0 to 1	12.6	●	●	0.37	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	1.92×10^{-3}	WOE/million	80.0	●	●	1.55×10^{4}	WOE	2019
Spillover endangered terrestrial animals	3.63×10^{-4}	WOE/capita	95.8	●	●	2.93×10^{3}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic marine biodiversity threats	0.09	spp./million	62.9	●	●	0.73	species	2018
Spillover marine biodiversity threats	0.01	spp./million	55.8	●	●	0.11	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	11.18	%	81.9	●	→	11.18	%	2018
Domestic vulnerable fisheries catch	15.36	tonnes/capita	32.5	●	→	0.12	Tg	2018
Spillover vulnerable fisheries catch	1.10	tonnes/capita	71.1	●	↗	0.01	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.85	scale 0 to 1.4	27.0	●	→	0.85	scale 0 to 1.4	2015
Domestic nitrogen surplus	1.40	kg/capita	97.3	●	↑	10.25	Gg	2015
Spillover nitrogen surplus	0.27	kg/capita	84.8	●	↓	1.98	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	0.45	g/capita	93.7	●	↗	3.58	kt	2018
Water Cycle								
Domestic scarce water consumption	1.89	m^3 H_2O-eq./capita	55.1	●	↗	14.93	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	6.60	m^3 H_2O-eq./capita	93.1	●	↓	60.08	Mm^3 H_2O-eq.	2018
Domestic water stress	0.07	ML H_2O-eq./capita	71.0	●	↗	0.54	Bm^3 H_2O-eq.	2018
Spillover water stress	0.71	m^3 H_2O-eq./capita	67.2	●	↓	6.43	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Tunisia

Middle East and North Africa

Land area	155,360 sq. km	**Population**	11.8 million
GDP (PPP, constant 2017 US$, billions)	$115.0	**GDP per capita**	$9,728
Human Development Index (HDI)	0.731	**HDI category**	High

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	56.0 /100	→
ABSOLUTE	●	62.4 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Tunisia

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	3.15	kg/capita	70.4	●	↑	36.42	Gg	2018
Spillover SO_2 emissions	2.34	kg/capita	67.5	●	↗	26.12	Gg	2015
Domestic NO_X emissions	9.12	kg/capita	91.3	●	↓	105.51	Gg	2018
Spillover NO_X emissions	2.67	kg/capita	61.8	●	↓	29.84	Gg	2015
Domestic black carbon emissions	0.39	kg/capita	73.5	●	↗	4.52	Gg	2018
Spillover black carbon emissions	0.09	kg/capita	67.6	●	→	1.01	Gg	2015
GHG Emissions								
Domestic GHG emissions	4.06	t CO_2e/capita	72.5	●	↗	47.46	Tg	2019
Spillover GHG emissions	1.37	t CO_2e/capita	65.9	●	↑	15.89	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.32	t CO_2e/capita	23.4	●	●	3.76	Tg	2019
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	39.50	%	62.3	●	↓	39.50	%	2020
Unprotected freshwater biodiversity sites	43.40	%	59.5	●	↓	43.40	%	2020
Domestic land use related biodiversity loss	3.75×10^{-12}	global PDF/capita	95.0	●	→	4.34×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	4.40×10^{-12}	global PDF/capita	76.7	●	↓	5.09×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.23	spp./million	44.3	●	●	2.63	species	2018
Spillover freshwater biodiversity threats	0.02	spp./million	63.8	●	●	0.24	species	2018
Domestic deforestation	0.48	%	64.0	●	↓	8.11×10^{2}	hectares	2020
Spillover deforestation	7.61×10^{-4}	ha/capita	91.0	●	↓	8.80×10^{3}	hectares	2018
Red List Index of species survival	0.97	scale 0 to 1	94.7	●	↓	0.97	scale 0 to 1	2021
Biodiversity Habitat Index	0.42	scale 0 to 1	20.0	●	●	0.42	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	1.42×10^{-5}	WOE/capita	99.8	●	●	1.66×10^{2}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	39.58	%	60.8	●	↓	39.58	%	2020
Domestic marine biodiversity threats	0.41	spp./million	42.1	●	●	4.80	species	2018
Spillover marine biodiversity threats	0.13	spp./million	27.5	●	●	1.47	species	2018
Fish caught from overexploited or collapsed stocks	22.34	%	64.4	●	↓	22.34	%	2018
Fish caught by trawling	18.77	%	69.4	●	→	18.77	%	2018
Domestic vulnerable fisheries catch	18.81	tonnes/capita	29.9	●	→	0.22	Tg	2018
Spillover vulnerable fisheries catch	4.98	tonnes/capita	45.9	●	↗	0.06	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.99	scale 0 to 1.4	14.8	●	↓	0.99	scale 0 to 1.4	2015
Domestic nitrogen surplus	6.68	kg/capita	82.1	●	↓	74.66	Gg	2015
Spillover nitrogen surplus	1.91	kg/capita	47.7	●	↓	21.33	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	3.34	g/capita	31.9	●	↓	38.58	kt	2018
Water Cycle								
Domestic scarce water consumption	161.37	m^3 H_2O-eq./capita	5.1	●	↓	1,866.25	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	27.47	m^3 H_2O-eq./capita	56.0	●	↑	317.71	Mm^3 H_2O-eq.	2018
Domestic water stress	9.27	ML H_2O-eq./capita	7.6	●	→	107.20	Bm^3 H_2O-eq.	2018
Spillover water stress	2.48	m^3 H_2O-eq./capita	34.7	●	→	28.70	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Turkey

OECD Member

Land area	769,630 sq. km	**Population**	84.3 million
GDP (PPP, constant 2017 US$, billions)	$2,394.0	**GDP per capita**	$28,385
Human Development Index (HDI)	0.838	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	48.4 /100	→
ABSOLUTE	●	34.0 /100	↓

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Turkey

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	22.10	kg/capita	25.6	●	↓	1,819.61	Gg	2018
Spillover SO_2 emissions	5.21	kg/capita	45.4	●	→	409.24	Gg	2015
Domestic NO_X emissions	13.09	kg/capita	83.2	●	↓	1,077.86	Gg	2018
Spillover NO_X emissions	5.16	kg/capita	44.3	●	→	405.30	Gg	2015
Domestic black carbon emissions	0.35	kg/capita	76.9	●	→	29.09	Gg	2018
Spillover black carbon emissions	0.16	kg/capita	51.7	●	→	12.55	Gg	2015
GHG Emissions								
Domestic GHG emissions	7.37	t CO_2e/capita	49.4	●	↓	614.97	Tg	2019
Spillover GHG emissions	2.59	t CO_2e/capita	48.1	●	→	213.27	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.00	t CO_2e/capita	49.5	●	●	0.09	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	2.33	%	100.0	●	↓	2.33	%	2020
Unprotected freshwater biodiversity sites	4.17	%	100.0	●	↓	4.17	%	2020
Domestic land use related biodiversity loss	1.22×10^{-11}	global PDF/capita	83.8	●	→	1.00×10^{-3}	global PDF	2018
Spillover land use related biodiversity loss	3.32×10^{-12}	global PDF/capita	83.1	●	↓	2.74×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	1.41	spp./million	19.4	●	●	115.92	species	2018
Spillover freshwater biodiversity threats	0.10	spp./million	37.8	●	●	7.87	species	2018
Domestic deforestation	0.41	%	68.9	●	↓	3.71×10^{4}	hectares	2020
Spillover deforestation	1.70×10^{-3}	ha/capita	77.2	●	↓	1.40×10^{5}	hectares	2018
Red List Index of species survival	0.88	scale 0 to 1	66.8	●	↓	0.88	scale 0 to 1	2021
Biodiversity Habitat Index	0.37	scale 0 to 1	12.8	●	●	0.37	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	2.17×10^{-4}	WOE/million	97.7	●	●	1.81×10^{4}	WOE	2019
Spillover endangered terrestrial animals	7.07×10^{-4}	WOE/capita	91.7	●	●	5.90×10^{4}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	6.56×10^{-5}	WOE/capita	95.8	●	●	5.47×10^{3}	WOE	2019
Unprotected marine biodiversity sites	3.85	%	96.2	●	↓	3.85	%	2020
Domestic marine biodiversity threats	0.17	spp./million	54.9	●	●	13.62	species	2018
Spillover marine biodiversity threats	0.01	spp./million	57.8	●	●	0.98	species	2018
Fish caught from overexploited or collapsed stocks	57.50	%	8.2	●	→	57.50	%	2018
Fish caught by trawling	25.55	%	58.3	●	→	25.55	%	2018
Domestic vulnerable fisheries catch	4.79	tonnes/capita	47.8	●	→	0.39	Tg	2018
Spillover vulnerable fisheries catch	3.47	tonnes/capita	51.9	●	↓	0.29	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.62	scale 0 to 1.4	47.5	●	→	0.62	scale 0 to 1.4	2015
Domestic nitrogen surplus	10.18	kg/capita	72.0	●	↓	799.56	Gg	2015
Spillover nitrogen surplus	2.77	kg/capita	40.6	●	→	217.66	Tg	2015
Domestic phosphorus fertilizer	6.33	kg/capita	43.1	●	→	521.06	kt	2018
Spillover phosphorus fertilizer	1.77	g/capita	51.5	●	→	146.10	kt	2018
Water Cycle								
Domestic scarce water consumption	43.56	m^3 H_2O-eq./capita	19.8	●	→	3,587.00	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	50.92	m^3 H_2O-eq./capita	39.9	●	↓	4,192.37	Mm^3 H_2O-eq.	2018
Domestic water stress	6.48	ML H_2O-eq./capita	12.3	●	→	533.53	Bm^3 H_2O-eq.	2018
Spillover water stress	1.67	m^3 H_2O-eq./capita	45.0	●	→	137.10	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Uganda

Africa

Land area	200,520 sq. km	**Population**	45.7 million
GDP (PPP, constant 2017 US$, billions)	$99.6	**GDP per capita**	$2,178
Human Development Index (HDI)	0.525	**HDI category**	Low

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		80.7 /100	
ABSOLUTE		61.5 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Uganda

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	0.98	kg/capita	97.4	●	↗	41.70	Gg	2018
Spillover SO_2 emissions	0.47	kg/capita	100.0	●	↑	17.87	Gg	2015
Domestic NO_X emissions	2.39	kg/capita	100.0	●	↓	102.24	Gg	2018
Spillover NO_X emissions	0.41	kg/capita	100.0	●	↑	15.72	Gg	2015
Domestic black carbon emissions	0.74	kg/capita	42.1	●	→	31.57	Gg	2018
Spillover black carbon emissions	0.05	kg/capita	85.5	●	↑	1.80	Gg	2015
GHG Emissions								
Domestic GHG emissions	3.00	t CO_2e/capita	84.3	●	↓	132.84	Tg	2019
Spillover GHG emissions	0.21	t CO_2e/capita	100.0	●	↑	9.06	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA	●	●	NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	72.24	%	29.1	●	↓	72.24	%	2020
Unprotected freshwater biodiversity sites	48.48	%	54.2	●	↓	48.48	%	2020
Domestic land use related biodiversity loss	1.10×10^{-12}	global PDF/capita	98.6	●	↗	4.70×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	2.59×10^{-13}	global PDF/capita	100.0	●	↑	1.11×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	1.34	spp./million	20.1	●	●	57.17	species	2018
Spillover freshwater biodiversity threats	0.04	spp./million	52.1	●	●	1.74	species	2018
Domestic deforestation	1.07	%	20.0	●	↓	7.39×10^{4}	hectares	2020
Spillover deforestation	1.19×10^{-4}	ha/capita	100.0	●	↑	5.07×10^{3}	hectares	2018
Red List Index of species survival	0.75	scale 0 to 1	26.4	●	↓	0.75	scale 0 to 1	2021
Biodiversity Habitat Index	0.41	scale 0 to 1	17.5	●	●	0.41	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	1.99×10^{-6}	WOE/million	100.0	●	●	8.80×10	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	NA	WOE/million	NA	●	●	NA	WOE	NA
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic marine biodiversity threats	0.00	spp./million	100.0	●	●	0.10	species	2018
Spillover marine biodiversity threats	0.01	spp./million	59.7	●	●	0.44	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	NA	%	NA	●	●	NA	%	NA
Domestic vulnerable fisheries catch	NA	tonnes/capita	NA	●	●	NA	Tg	NA
Spillover vulnerable fisheries catch	0.14	tonnes/capita	100.0	●	↑	0.01	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.84	scale 0 to 1.4	28.4	●	→	0.84	scale 0 to 1.4	2015
Domestic nitrogen surplus	2.15	kg/capita	95.2	●	↓	82.08	Gg	2015
Spillover nitrogen surplus	0.16	kg/capita	94.3	●	↑	6.25	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	0.28	g/capita	100.0	●	↓	12.07	kt	2018
Water Cycle								
Domestic scarce water consumption	2,283.47	m^3 H_2O-eq./capita	1.0	●	→	97,570.59	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	5.32	m^3 H_2O-eq./capita	98.7	●	↑	299.67	Mm^3 H_2O-eq.	2018
Domestic water stress	3.17	ML H_2O-eq./capita	21.5	●	→	135.66	Bm^3 H_2O-eq.	2018
Spillover water stress	0.20	m^3 H_2O-eq./capita	100.0	●	↑	11.10	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Ukraine

Eastern Europe and Central Asia

Land area	579,400 sq. km	**Population**	44.1 million
GDP (PPP, constant 2017 US$, billions)	$516.7	**GDP per capita**	$11,707
Human Development Index (HDI)	0.773	**HDI category**	High

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		52.6 /100	→
ABSOLUTE		44.7 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories
Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Ukraine

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	19.34	kg/capita	28.7			862.90	Gg	2018
Spillover SO_2 emissions	1.56	kg/capita	78.7			70.29	Gg	2015
Domestic NO_X emissions	13.80	kg/capita	81.8			615.79	Gg	2018
Spillover NO_X emissions	1.68	kg/capita	74.1			76.01	Gg	2015
Domestic black carbon emissions	0.20	kg/capita	90.7			8.95	Gg	2018
Spillover black carbon emissions	0.04	kg/capita	87.7			1.96	Gg	2015
GHG Emissions								
Domestic GHG emissions	6.67	t CO_2e/capita	53.3			295.92	Tg	2019
Spillover GHG emissions	2.31	t CO_2e/capita	51.2			103.28	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.01	t CO_2e/capita	37.7			0.61	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	21.72	%	80.3			21.72	%	2020
Unprotected freshwater biodiversity sites	16.17	%	87.6			16.17	%	2020
Domestic land use related biodiversity loss	6.49×10^{-12}	global PDF/capita	91.4			2.90×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	1.32×10^{-12}	global PDF/capita	95.1			5.90×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.27	spp./million	42.0			11.91	species	2018
Spillover freshwater biodiversity threats	0.05	spp./million	50.1			2.04	species	2018
Domestic deforestation	0.55	%	58.7			6.25×10^{4}	hectares	2020
Spillover deforestation	3.01×10^{-4}	ha/capita	97.7			1.34×10^{4}	hectares	2018
Red List Index of species survival	0.94	scale 0 to 1	83.9			0.94	scale 0 to 1	2021
Biodiversity Habitat Index	0.30	scale 0 to 1	2.5			0.30	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	9.01×10^{-8}	WOE/million	100.0			4.00	WOE	2019
Spillover endangered terrestrial animals	1.85×10^{-5}	WOE/capita	99.8			8.19×10^{2}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0			0.00	WOE	2019
Spillover endangered marine animals	8.58×10^{-6}	WOE/capita	99.5			3.81×10^{2}	WOE	2019
Unprotected marine biodiversity sites	30.74	%	69.6			30.74	%	2020
Domestic marine biodiversity threats	0.02	spp./million	81.1			1.09	species	2018
Spillover marine biodiversity threats	0.01	spp./million	64.1			0.32	species	2018
Fish caught from overexploited or collapsed stocks	8.04	%	87.2			8.04	%	2018
Fish caught by trawling	15.21	%	75.3			15.21	%	2018
Domestic vulnerable fisheries catch	2.12	tonnes/capita	58.5			0.09	Tg	2018
Spillover vulnerable fisheries catch	12.04	tonnes/capita	31.1			0.54	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.38	scale 0 to 1.4	67.6			0.38	scale 0 to 1.4	2015
Domestic nitrogen surplus	6.24	kg/capita	83.4			281.81	Gg	2015
Spillover nitrogen surplus	2.40	kg/capita	43.3			108.43	Tg	2015
Domestic phosphorus fertilizer	9.20	kg/capita	33.1			410.35	kt	2018
Spillover phosphorus fertilizer	0.99	g/capita	69.4			44.39	kt	2018
Water Cycle								
Domestic scarce water consumption	8.16	m^3 H_2O-eq./capita	38.7			364.05	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	4.16	m^3 H_2O-eq./capita	100.0			177.88	Mm^3 H_2O-eq.	2018
Domestic water stress	0.74	ML H_2O-eq./capita	40.2			33.16	Bm^3 H_2O-eq.	2018
Spillover water stress	0.15	m^3 H_2O-eq./capita	100.0			6.53	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

United Arab Emirates

Middle East and North Africa

Land area	71,020 sq. km	**Population**	9.9 million
GDP (PPP, constant 2017 US$, billions)	$626.1	**GDP per capita**	$63,299
Human Development Index (HDI)	0.911	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		3.9 /100	→
ABSOLUTE		35.7 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

United Arab Emirates

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	11.86	kg/capita	39.9	●	→	114.25	Gg	2018
Spillover SO_2 emissions	26.04	kg/capita	1.0	●	→	241.23	Gg	2015
Domestic NO_X emissions	60.98	kg/capita	1.0	●	→	587.27	Gg	2018
Spillover NO_X emissions	26.36	kg/capita	1.0	●	→	244.22	Gg	2015
Domestic black carbon emissions	0.36	kg/capita	76.6	●	↗	3.44	Gg	2018
Spillover black carbon emissions	1.00	kg/capita	1.0	●	→	9.23	Gg	2015
GHG Emissions								
Domestic GHG emissions	27.39	t CO_2e/capita	1.0	●	→	267.60	Tg	2019
Spillover GHG emissions	11.44	t CO_2e/capita	6.4	●	→	110.16	Tg	2018
CO_2 emissions embodied in fossil fuel exports	43.15	t CO_2e/capita	1.0	●	●	426.78	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	51.55	%	50.1	●	↓	51.55	%	2020
Unprotected freshwater biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic land use related biodiversity loss	3.27×10^{-14}	global PDF/capita	100.0	●	↗	3.15×10^{-7}	global PDF	2018
Spillover land use related biodiversity loss	1.01×10^{-11}	global PDF/capita	42.4	●	↓	9.74×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.01	spp./million	83.5	●	●	0.11	species	2018
Spillover freshwater biodiversity threats	0.97	spp./million	1.0	●	●	9.35	species	2018
Domestic deforestation	NA	%	NA	●	●	NA	hectares	NA
Spillover deforestation	2.14×10^{-3}	ha/capita	70.7	●	↓	2.06×10^{4}	hectares	2018
Red List Index of species survival	0.85	scale 0 to 1	57.1	●	↓	0.85	scale 0 to 1	2021
Biodiversity Habitat Index	0.61	scale 0 to 1	45.9	●	●	0.61	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered terrestrial animals	2.23×10^{-4}	WOE/capita	97.4	●	●	2.17×10^{3}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	1.02×10^{-3}	WOE/capita	34.7	●	●	9.98×10^{3}	WOE	2019
Unprotected marine biodiversity sites	48.61	%	51.9	●	↓	48.61	%	2020
Domestic marine biodiversity threats	0.33	spp./million	45.2	●	●	3.20	species	2018
Spillover marine biodiversity threats	1.01	spp./million	1.0	●	●	9.68	species	2018
Fish caught from overexploited or collapsed stocks	49.53	%	20.9	●	↓	49.53	%	2018
Fish caught by trawling	0.00	%	100.0	●	●	0.00	%	2018
Domestic vulnerable fisheries catch	9.64	tonnes/capita	38.6	●	→	0.09	Tg	2018
Spillover vulnerable fisheries catch	8.16	tonnes/capita	37.6	●	→	0.08	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	1.20	scale 0 to 1.4	1.0	●	→	1.20	scale 0 to 1.4	2015
Domestic nitrogen surplus	1.66	kg/capita	96.6	●	↑	15.38	Gg	2015
Spillover nitrogen surplus	25.07	kg/capita	1.0	●	↓	232.21	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	5.05	g/capita	19.1	●	→	48.59	kt	2018
Water Cycle								
Domestic scarce water consumption	6.15	m^3 H_2O-eq./capita	41.8	●	→	59.25	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	19.73	m^3 H_2O-eq./capita	64.6	●	→	880.49	Mm^3 H_2O-eq.	2018
Domestic water stress	3.46	ML H_2O-eq./capita	20.4	●	→	33.37	Bm^3 H_2O-eq.	2018
Spillover water stress	1.11	m^3 H_2O-eq./capita	55.5	●	→	49.48	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

United Kingdom

OECD Member

Land area	241,930 sq. km	**Population**	67.2 million
GDP (PPP, constant 2017 US$, billions)	$2,798.0	**GDP per capita**	$41,606
Human Development Index (HDI)	0.929	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		32.2 /100	→
ABSOLUTE		26.4 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

United Kingdom

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	3.65	kg/capita	67.0	●	↑	242.74	Gg	2018
Spillover SO_2 emissions	12.34	kg/capita	21.6	●	→	804.03	Gg	2015
Domestic NO_X emissions	12.56	kg/capita	84.3	●	→	834.88	Gg	2018
Spillover NO_X emissions	16.22	kg/capita	13.9	●	→	1,056.64	Gg	2015
Domestic black carbon emissions	0.17	kg/capita	93.8	●	↗	11.01	Gg	2018
Spillover black carbon emissions	0.54	kg/capita	17.8	●	→	35.43	Gg	2015
GHG Emissions								
Domestic GHG emissions	7.62	t CO_2e/capita	48.1	●	→	509.66	Tg	2019
Spillover GHG emissions	6.00	t CO_2e/capita	24.5	●	→	398.77	Tg	2018
CO_2 emissions embodied in fossil fuel exports	1.43	t CO_2e/capita	16.6	●	●	95.84	Tg	2021
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	86.37	%	14.8	●	↓	86.37	%	2020
Unprotected freshwater biodiversity sites	91.15	%	10.1	●	↓	91.15	%	2020
Domestic land use related biodiversity loss	5.25×10^{-13}	global PDF/capita	99.3	●	↗	3.49×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	5.96×10^{-12}	global PDF/capita	67.4	●	→	3.96×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	0.10	spp./million	55.5	●	●	6.73	species	2018
Spillover freshwater biodiversity threats	0.35	spp./million	16.1	●	●	23.28	species	2018
Domestic deforestation	0.50	%	62.7	●	→	2.47×10^{4}	hectares	2020
Spillover deforestation	2.97×10^{-3}	ha/capita	58.6	●	↓	1.97×10^{5}	hectares	2018
Red List Index of species survival	0.96	scale 0 to 1	91.7	●	↓	0.96	scale 0 to 1	2021
Biodiversity Habitat Index	0.37	scale 0 to 1	12.0	●	●	0.37	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	3.89×10^{-7}	WOE/million	100.0	●	●	2.60×10	WOE	2019
Spillover endangered terrestrial animals	2.39×10^{-4}	WOE/capita	97.2	●	●	1.60×10^{4}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	1.39×10^{-3}	WOE/capita	11.4	●	●	9.27×10^{4}	WOE	2019
Unprotected marine biodiversity sites	85.31	%	15.5	●	↓	85.31	%	2020
Domestic marine biodiversity threats	0.11	spp./million	60.2	●	●	7.57	species	2018
Spillover marine biodiversity threats	0.22	spp./million	20.8	●	●	14.46	species	2018
Fish caught from overexploited or collapsed stocks	24.81	%	60.4	●	→	24.81	%	2018
Fish caught by trawling	23.16	%	62.3	●	↓	23.16	%	2018
Domestic vulnerable fisheries catch	31.73	tonnes/capita	23.0	●	→	2.11	Tg	2018
Spillover vulnerable fisheries catch	14.35	tonnes/capita	28.2	●	→	0.95	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.58	scale 0 to 1.4	50.6	●	↓	0.58	scale 0 to 1.4	2015
Domestic nitrogen surplus	14.09	kg/capita	60.8	●	↓	918.20	Gg	2015
Spillover nitrogen surplus	12.60	kg/capita	11.9	●	↓	821.11	Tg	2015
Domestic phosphorus fertilizer	2.83	kg/capita	64.6	●	↗	188.00	kt	2018
Spillover phosphorus fertilizer	4.08	g/capita	25.7	●	→	271.09	kt	2018
Water Cycle								
Domestic scarce water consumption	0.10	m^3 H_2O-eq./capita	88.4	●	↑	6.46	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	9.95	m^3 H_2O-eq./capita	82.4	●	→	34.33	Mm^3 H_2O-eq.	2018
Domestic water stress	0.07	ML H_2O-eq./capita	71.4	●	↓	4.42	Bm^3 H_2O-eq.	2018
Spillover water stress	0.73	m^3 H_2O-eq./capita	66.3	●	↓	2.53	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

United States

OECD Member

Land area	9,147,420 sq. km	**Population**	333.1 million
GDP (PPP, constant 2017 US$, billions)	$19,953.5	**GDP per capita**	$59,909
Human Development Index (HDI)	0.921	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	18.2 /100	→
ABSOLUTE	●	1.4 /100	↓

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

United States

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	22.85	kg/capita	24.8	●	→	7,550.90	Gg	2018
Spillover SO_2 emissions	13.43	kg/capita	19.3	●	→	4,357.70	Gg	2015
Domestic NO_X emissions	33.26	kg/capita	41.9	●	→	10,989.22	Gg	2018
Spillover NO_X emissions	14.95	kg/capita	16.1	●	↓	4,852.23	Gg	2015
Domestic black carbon emissions	0.58	kg/capita	56.2	●	→	192.23	Gg	2018
Spillover black carbon emissions	0.55	kg/capita	17.6	●	→	177.48	Gg	2015
GHG Emissions								
Domestic GHG emissions	20.68	t CO_2e/capita	9.4	●	→	6,864.23	Tg	2019
Spillover GHG emissions	6.31	t CO_2e/capita	23.1	●	↓	2,086.10	Tg	2018
CO_2 emissions embodied in fossil fuel exports	2.41	t CO_2e/capita	14.2	●	●	802.52	Tg	2021
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	34.92	%	67.0	●	↓	34.92	%	2020
Unprotected freshwater biodiversity sites	28.62	%	74.7	●	↓	28.62	%	2020
Domestic land use related biodiversity loss	7.26×10^{-12}	global PDF/capita	90.4	●	→	2.40×10^{-3}	global PDF	2018
Spillover land use related biodiversity loss	1.04×10^{-11}	global PDF/capita	40.8	●	↓	3.43×10^{-3}	global PDF	2018
Domestic freshwater biodiversity threats	1.59	spp./million	17.7	●	●	520.59	species	2018
Spillover freshwater biodiversity threats	0.38	spp./million	14.6	●	●	123.29	species	2018
Domestic deforestation	0.52	%	60.6	●	↓	1.43×10^{6}	hectares	2020
Spillover deforestation	3.02×10^{-3}	ha/capita	57.9	●	↓	9.97×10^{5}	hectares	2018
Red List Index of species survival	0.83	scale 0 to 1	51.7	●	↓	0.83	scale 0 to 1	2021
Biodiversity Habitat Index	0.46	scale 0 to 1	25.5	●	●	0.46	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	2.30×10^{-3}	WOE/million	76.0	●	●	7.63×10^{5}	WOE	2019
Spillover endangered terrestrial animals	5.54×10^{-4}	WOE/capita	93.5	●	●	1.84×10^{5}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	3.61×10^{-5}	WOE/million	98.8	●	●	1.20×10^{4}	WOE	2019
Spillover endangered marine animals	1.37×10^{-3}	WOE/capita	12.4	●	●	4.55×10^{5}	WOE	2019
Unprotected marine biodiversity sites	31.82	%	68.5	●	↓	31.82	%	2020
Domestic marine biodiversity threats	0.83	spp./million	32.5	●	●	272.66	species	2018
Spillover marine biodiversity threats	0.45	spp./million	11.2	●	●	148.77	species	2018
Fish caught from overexploited or collapsed stocks	22.12	%	64.7	●	→	22.12	%	2018
Fish caught by trawling	18.98	%	69.1	●	↓	18.98	%	2018
Domestic vulnerable fisheries catch	27.16	tonnes/capita	25.0	●	↓	8.97	Tg	2018
Spillover vulnerable fisheries catch	17.07	tonnes/capita	25.3	●	↓	5.64	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.32	scale 0 to 1.4	73.1	●	↓	0.32	scale 0 to 1.4	2015
Domestic nitrogen surplus	17.86	kg/capita	49.9	●	→	5,798.47	Gg	2015
Spillover nitrogen surplus	8.79	kg/capita	18.7	●	↓	2,854.60	Tg	2015
Domestic phosphorus fertilizer	12.05	kg/capita	25.8	●	↓	3,982.58	kt	2018
Spillover phosphorus fertilizer	3.70	g/capita	28.7	●	↓	1,222.39	kt	2018
Water Cycle								
Domestic scarce water consumption	123.55	m^3 H_2O-eq./capita	8.1	●	↓	40,822.34	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	42.81	m^3 H_2O-eq./capita	44.4	●	↓	14,144.90	Mm^3 H_2O-eq.	2018
Domestic water stress	6.04	ML H_2O-eq./capita	13.2	●	↓	1,996.73	Bm^3 H_2O-eq.	2018
Spillover water stress	2.11	m^3 H_2O-eq./capita	38.9	●	↓	697.43	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Uruguay

Latin America and Caribbean

Land area	175,020 sq. km	**Population**	3.5 million
GDP (PPP, constant 2017 US$, billions)	$75.1	**GDP per capita**	$21,608
Human Development Index (HDI)	0.809	**HDI category**	Very high

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		34.3 /100	
ABSOLUTE		75.0 /100	

Impacts by pillar and sub-pillar

Proportional scores and trajectories

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- Projected to meet 2050 threshold
- Projected to meet 2030 threshold only
- Insufficient progress toward threshold
- Headed in wrong direction

Uruguay

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	12.76	kg/capita	38.2	●	→	44.02	Gg	2018
Spillover SO_2 emissions	6.38	kg/capita	39.8	●	↓	21.78	Gg	2015
Domestic NO_X emissions	22.96	kg/capita	63.0	●	↓	79.20	Gg	2018
Spillover NO_X emissions	6.77	kg/capita	37.1	●	↑	23.11	Gg	2015
Domestic black carbon emissions	2.07	kg/capita	1.0	●	↓	7.14	Gg	2018
Spillover black carbon emissions	0.38	kg/capita	27.5	●	→	1.31	Gg	2015
GHG Emissions								
Domestic GHG emissions	16.46	t CO_2e/capita	18.2	●	→	56.97	Tg	2019
Spillover GHG emissions	2.70	t CO_2e/capita	47.0	●	↑	9.30	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.00	t CO_2e/capita	100.0	●	●	0.00	Tg	2018
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	23.30	%	78.7	●	↓	23.30	%	2020
Unprotected freshwater biodiversity sites	28.27	%	75.1	●	↓	28.27	%	2020
Domestic land use related biodiversity loss	3.59×10^{-11}	global PDF/capita	52.2	●	→	1.24×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	1.41×10^{-11}	global PDF/capita	18.7	●	→	4.86×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	1.32	spp./million	20.2	●	●	4.57	species	2018
Spillover freshwater biodiversity threats	0.02	spp./million	67.5	●	●	0.06	species	2018
Domestic deforestation	0.72	%	46.0	●	→	1.52×10^{4}	hectares	2020
Spillover deforestation	2.66×10^{-3}	ha/capita	63.1	●	→	9.18×10^{3}	hectares	2018
Red List Index of species survival	0.85	scale 0 to 1	58.6	●	↓	0.85	scale 0 to 1	2021
Biodiversity Habitat Index	0.29	scale 0 to 1	1.0	●	●	0.29	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	2.89×10^{-6}	WOE/million	100.0	●	●	1.00×10	WOE	2019
Spillover endangered terrestrial animals	2.31×10^{-6}	WOE/capita	100.0	●	●	8.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	2.83×10^{-5}	WOE/million	99.0	●	●	9.80×10	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	53.79	%	46.8	●	↓	53.79	%	2020
Domestic marine biodiversity threats	1.19	spp./million	27.5	●	●	4.11	species	2018
Spillover marine biodiversity threats	0.05	spp./million	39.9	●	●	0.17	species	2018
Fish caught from overexploited or collapsed stocks	42.53	%	32.1	●	↓	42.53	%	2018
Fish caught by trawling	60.46	%	1.0	●	↓	60.46	%	2018
Domestic vulnerable fisheries catch	40.20	tonnes/capita	19.9	●	→	0.14	Tg	2018
Spillover vulnerable fisheries catch	5.19	tonnes/capita	45.2	●	↑	0.02	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.47	scale 0 to 1.4	60.0	●	↓	0.47	scale 0 to 1.4	2015
Domestic nitrogen surplus	47.91	kg/capita	1.0	●	↓	163.46	Gg	2015
Spillover nitrogen surplus	11.31	kg/capita	13.9	●	↓	38.58	Tg	2015
Domestic phosphorus fertilizer	44.33	kg/capita	1.0	●	→	152.90	kt	2018
Spillover phosphorus fertilizer	2.06	g/capita	46.8	●	↑	7.12	kt	2018
Water Cycle								
Domestic scarce water consumption	0.12	m^3 H_2O-eq./capita	85.7	●	↗	0.43	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	6.70	m^3 H_2O-eq./capita	92.7	●	↑	220.74	Mm^3 H_2O-eq.	2018
Domestic water stress	0.43	ML H_2O-eq./capita	47.2	●	↗	1.49	Bm^3 H_2O-eq.	2018
Spillover water stress	0.35	m^3 H_2O-eq./capita	85.7	●	↑	11.40	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Uzbekistan

Eastern Europe and Central Asia

Land area	440,555 sq. km	**Population**	34.2 million
GDP (PPP, constant 2017 US$, billions)	$239.4	**GDP per capita**	$6,994
Human Development Index (HDI)	0.727	**HDI category**	High

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	60.8 /100	→
ABSOLUTE	●	52.6 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories
Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Uzbekistan

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	2.33	kg/capita	77.4			76.73	Gg	2018
Spillover SO_2 emissions	1.03	kg/capita	90.2			32.09	Gg	2015
Domestic NO_X emissions	3.63	kg/capita	100.0			119.55	Gg	2018
Spillover NO_X emissions	1.04	kg/capita	86.9			32.50	Gg	2015
Domestic black carbon emissions	0.03	kg/capita	100.0			1.07	Gg	2018
Spillover black carbon emissions	0.02	kg/capita	100.0			0.74	Gg	2015
GHG Emissions								
Domestic GHG emissions	6.47	t CO_2e/capita	54.5			217.20	Tg	2019
Spillover GHG emissions	1.05	t CO_2e/capita	73.4			34.59	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.44	t CO_2e/capita	21.9			15.12	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	17.73	%	84.4			17.73	%	2020
Unprotected freshwater biodiversity sites	13.44	%	90.4			13.44	%	2020
Domestic land use related biodiversity loss	3.06×10^{-12}	global PDF/capita	95.9			1.01×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	6.60×10^{-13}	global PDF/capita	99.1			2.18×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.06	spp./million	63.2			1.83	species	2018
Spillover freshwater biodiversity threats	0.01	spp./million	86.3			0.17	species	2018
Domestic deforestation	0.00	%	100.0			0.00	hectares	2020
Spillover deforestation	1.59×10^{-4}	ha/capita	99.8			5.25×10^{3}	hectares	2018
Red List Index of species survival	0.97	scale 0 to 1	94.6			0.97	scale 0 to 1	2021
Biodiversity Habitat Index	0.46	scale 0 to 1	24.5			0.46	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	1.86×10^{-3}	WOE/million	80.6			6.26×10^{4}	WOE	2019
Spillover endangered terrestrial animals	7.65×10^{-6}	WOE/capita	99.9			2.57×10^{2}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	NA	WOE/million	NA			NA	WOE	NA
Spillover endangered marine animals	3.72×10^{-6}	WOE/capita	99.8			1.25×10^{2}	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA			NA	%	NA
Domestic marine biodiversity threats	0.01	spp./million	100.0			0.19	species	2018
Spillover marine biodiversity threats	0.00	spp./million	70.4			0.14	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA			NA	%	NA
Fish caught by trawling	NA	%	NA			NA	%	NA
Domestic vulnerable fisheries catch	NA	tonnes/capita	NA			NA	Tg	NA
Spillover vulnerable fisheries catch	0.43	tonnes/capita	86.7			0.01	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.71	scale 0 to 1.4	39.4			0.71	scale 0 to 1.4	2015
Domestic nitrogen surplus	21.26	kg/capita	40.1			665.32	Gg	2015
Spillover nitrogen surplus	0.37	kg/capita	78.9			11.54	Tg	2015
Domestic phosphorus fertilizer	6.85	kg/capita	40.9			225.83	kt	2018
Spillover phosphorus fertilizer	0.20	g/capita	100.0			6.56	kt	2018
Water Cycle								
Domestic scarce water consumption	3.01	m^3 H_2O-eq./capita	49.8			99.35	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	12.12	m^3 H_2O-eq./capita	77.3			350.25	Mm^3 H_2O-eq.	2018
Domestic water stress	8.19	ML H_2O-eq./capita	9.2			270.07	Bm^3 H_2O-eq.	2018
Spillover water stress	1.09	m^3 H_2O-eq./capita	56.0			31.53	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Venezuela

Latin America and Caribbean

Land area	**882,050 sq. km**	**Population**	**28.4 million**
GDP (PPP, constant 2017 US$, billions)	**$238.8**	**GDP per capita**	**$8,399**
Human Development Index (HDI)	**0.691**	**HDI category**	**Medium**

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		50.6 /100	↗
ABSOLUTE		49.9 /100	↗

Impacts by pillar and sub-pillar

Proportional scores and trajectories

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Dashboard categories
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories
Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Venezuela

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	8.45	kg/capita	47.7	●	↑	243.99	Gg	2018
Spillover SO_2 emissions	11.05	kg/capita	24.7	●	↓	332.35	Gg	2015
Domestic NO_X emissions	16.04	kg/capita	77.2	●	↑	463.24	Gg	2018
Spillover NO_X emissions	14.18	kg/capita	17.5	●	↓	426.63	Gg	2015
Domestic black carbon emissions	0.22	kg/capita	88.7	●	↑	6.42	Gg	2018
Spillover black carbon emissions	0.48	kg/capita	21.0	●	↓	14.55	Gg	2015
GHG Emissions								
Domestic GHG emissions	7.01	t CO_2e/capita	51.3	●	↑	199.99	Tg	2019
Spillover GHG emissions	2.03	t CO_2e/capita	55.0	●	↑	58.55	Tg	2018
CO_2 emissions embodied in fossil fuel exports	NA	t CO_2e/capita	NA	●	●	NA	Tg	NA
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	53.61	%	48.0	●	↓	53.61	%	2020
Unprotected freshwater biodiversity sites	42.15	%	60.8	●	↓	42.15	%	2020
Domestic land use related biodiversity loss	3.33×10^{-11}	global PDF/capita	55.8	●	↓	9.61×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	1.70×10^{-11}	global PDF/capita	1.4	●	↑	4.90×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	0.55	spp./million	32.2	●	●	16.01	species	2018
Spillover freshwater biodiversity threats	0.04	spp./million	50.8	●	●	1.28	species	2018
Domestic deforestation	0.21	%	84.4	●	↓	1.19×10^{5}	hectares	2020
Spillover deforestation	3.62×10^{-3}	ha/capita	49.0	●	↑	1.05×10^{5}	hectares	2018
Red List Index of species survival	0.82	scale 0 to 1	48.6	●	↓	0.82	scale 0 to 1	2021
Biodiversity Habitat Index	0.57	scale 0 to 1	40.4	●	●	0.57	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	8.09×10^{-4}	WOE/million	91.6	●	●	2.31×10^{4}	WOE	2019
Spillover endangered terrestrial animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	0.00	WOE/million	100.0	●	●	0.00	WOE	2019
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	32.64	%	67.7	●	↓	32.64	%	2020
Domestic marine biodiversity threats	1.27	spp./million	26.6	●	●	36.61	species	2018
Spillover marine biodiversity threats	0.05	spp./million	40.4	●	●	1.35	species	2018
Fish caught from overexploited or collapsed stocks	16.82	%	73.2	●	↑	16.82	%	2018
Fish caught by trawling	0.45	%	99.5	●	↑	0.45	%	2018
Domestic vulnerable fisheries catch	10.83	tonnes/capita	37.1	●	↓	0.31	Tg	2018
Spillover vulnerable fisheries catch	1.74	tonnes/capita	63.4	●	↑	0.05	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	1.01	scale 0 to 1.4	13.1	●	↓	1.01	scale 0 to 1.4	2015
Domestic nitrogen surplus	11.57	kg/capita	68.0	●	→	348.10	Gg	2015
Spillover nitrogen surplus	3.43	kg/capita	36.6	●	↓	103.27	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	3.05	g/capita	34.7	●	↑	88.10	kt	2018
Water Cycle								
Domestic scarce water consumption	0.48	m^3 H_2O-eq./capita	70.5	●	↓	13.81	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	34.17	m^3 H_2O-eq./capita	50.3	●	↑	3,264.43	Mm^3 H_2O-eq.	2018
Domestic water stress	0.38	ML H_2O-eq./capita	48.8	●	↓	11.06	Bm^3 H_2O-eq.	2018
Spillover water stress	1.02	m^3 H_2O-eq./capita	57.8	●	↑	96.99	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Vietnam

East and South Asia

Land area	310,070 sq. km	**Population**	97.3 million
GDP (PPP, constant 2017 US$, billions)	$798.2	**GDP per capita**	$8,200
Human Development Index (HDI)	0.703	**HDI category**	High

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL		51.4 /100	↓
ABSOLUTE		32.0 /100	↓

Impacts by pillar and sub-pillar

Proportional scores and trajectories

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Dashboard categories
Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories
Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Vietnam

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	1.38	kg/capita	89.5			131.53	Gg	2018
Spillover SO_2 emissions	1.96	kg/capita	72.3			181.94	Gg	2015
Domestic NO_X emissions	4.89	kg/capita	100.0			467.34	Gg	2018
Spillover NO_X emissions	2.09	kg/capita	68.4			193.29	Gg	2015
Domestic black carbon emissions	0.69	kg/capita	46.1			66.28	Gg	2018
Spillover black carbon emissions	0.11	kg/capita	60.8			10.65	Gg	2015
GHG Emissions								
Domestic GHG emissions	6.20	t CO_2e/capita	56.1			598.14	Tg	2019
Spillover GHG emissions	1.61	t CO_2e/capita	61.4			154.20	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.20	t CO_2e/capita	25.6			19.06	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	39.99	%	61.8			39.99	%	2020
Unprotected freshwater biodiversity sites	38.18	%	64.9			38.18	%	2020
Domestic land use related biodiversity loss	7.87×10^{-12}	global PDF/capita	89.5			7.52×10^{-4}	global PDF	2018
Spillover land use related biodiversity loss	2.79×10^{-12}	global PDF/capita	86.3			2.66×10^{-4}	global PDF	2018
Domestic freshwater biodiversity threats	0.90	spp./million	25.5			86.37	species	2018
Spillover freshwater biodiversity threats	0.04	spp./million	53.2			3.64	species	2018
Domestic deforestation	1.32	%	1.0			2.16×10^{5}	hectares	2020
Spillover deforestation	9.03×10^{-4}	ha/capita	88.9			8.63×10^{4}	hectares	2018
Red List Index of species survival	0.72	scale 0 to 1	16.0			0.72	scale 0 to 1	2021
Biodiversity Habitat Index	0.37	scale 0 to 1	12.7			0.37	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	8.28×10^{-5}	WOE/million	99.1			7.98×10^{3}	WOE	2019
Spillover endangered terrestrial animals	8.87×10^{-4}	WOE/capita	89.6			8.55×10^{4}	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	2.51×10^{-4}	WOE/million	91.5			2.42×10^{4}	WOE	2019
Spillover endangered marine animals	1.15×10^{-3}	WOE/capita	26.5			1.11×10^{5}	WOE	2019
Unprotected marine biodiversity sites	23.89	%	76.4			23.89	%	2020
Domestic marine biodiversity threats	0.28	spp./million	47.7			26.49	species	2018
Spillover marine biodiversity threats	0.00	spp./million	68.9			0.47	species	2018
Fish caught from overexploited or collapsed stocks	5.46	%	91.3			5.46	%	2018
Fish caught by trawling	64.80	%	1.0			64.80	%	2018
Domestic vulnerable fisheries catch	68.80	tonnes/capita	12.8			6.57	Tg	2018
Spillover vulnerable fisheries catch	14.96	tonnes/capita	27.5			1.43	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.62	scale 0 to 1.4	47.0			0.62	scale 0 to 1.4	2015
Domestic nitrogen surplus	17.07	kg/capita	52.2			1,582.00	Gg	2015
Spillover nitrogen surplus	0.54	kg/capita	71.6			50.14	Tg	2015
Domestic phosphorus fertilizer	7.85	kg/capita	37.3			750.30	kt	2018
Spillover phosphorus fertilizer	2.05	g/capita	47.0			195.71	kt	2018
Water Cycle								
Domestic scarce water consumption	14.42	m^3 H_2O-eq./capita	32.3			1,377.30	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	15.20	m^3 H_2O-eq./capita	71.4			878.51	Mm^3 H_2O-eq.	2018
Domestic water stress	0.47	ML H_2O-eq./capita	46.2			44.69	Bm^3 H_2O-eq.	2018
Spillover water stress	0.53	m^3 H_2O-eq./capita	74.8			30.44	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Zambia

Africa

Land area	743,390 sq. km	**Population**	18.4 million
GDP (PPP, constant 2017 US$, billions)	$60.1	**GDP per capita**	$3,270
Human Development Index (HDI)	0.565	**HDI category**	Medium

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	76.8 /100	→
ABSOLUTE	●	71.5 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

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Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Zambia

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	10.29	kg/capita	43.2			178.63	Gg	2018
Spillover SO_2 emissions	2.15	kg/capita	69.8			34.16	Gg	2015
Domestic NO_X emissions	3.39	kg/capita	100.0			58.83	Gg	2018
Spillover NO_X emissions	1.58	kg/capita	75.8			25.05	Gg	2015
Domestic black carbon emissions	1.22	kg/capita	1.0			21.09	Gg	2018
Spillover black carbon emissions	0.10	kg/capita	63.3			1.67	Gg	2015
GHG Emissions								
Domestic GHG emissions	3.09	t CO_2e/capita	83.1			55.15	Tg	2019
Spillover GHG emissions	0.53	t CO_2e/capita	92.8			9.15	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.00	t CO_2e/capita	47.9			0.03	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	46.14	%	55.6			46.14	%	2020
Unprotected freshwater biodiversity sites	56.84	%	45.6			56.84	%	2020
Domestic land use related biodiversity loss	2.24×10^{-12}	global PDF/capita	97.0			3.88×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	5.68×10^{-13}	global PDF/capita	99.7			9.86×10^{-6}	global PDF	2018
Domestic freshwater biodiversity threats	2.02	spp./million	14.4			35.00	species	2018
Spillover freshwater biodiversity threats	0.17	spp./million	27.9			2.98	species	2018
Domestic deforestation	0.64	%	52.3			1.43×10^{5}	hectares	2020
Spillover deforestation	1.42×10^{-4}	ha/capita	100.0			2.46×10^{3}	hectares	2018
Red List Index of species survival	0.88	scale 0 to 1	65.5			0.88	scale 0 to 1	2021
Biodiversity Habitat Index	0.62	scale 0 to 1	47.1			0.62	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	3.14×10^{-3}	WOE/million	67.3			5.61×10^{4}	WOE	2019
Spillover endangered terrestrial animals	3.92×10^{-7}	WOE/capita	100.0			7.00	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	NA	WOE/million	NA			NA	WOE	NA
Spillover endangered marine animals	0.00	WOE/capita	100.0			0.00	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA			NA	%	NA
Domestic marine biodiversity threats	NA	spp./million	NA			NA	species	NA
Spillover marine biodiversity threats	0.02	spp./million	52.1			0.33	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA			NA	%	NA
Fish caught by trawling	NA	%	NA			NA	%	NA
Domestic vulnerable fisheries catch	NA	tonnes/capita	NA			NA	Tg	NA
Spillover vulnerable fisheries catch	2.82	tonnes/capita	55.3			0.05	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	0.81	scale 0 to 1.4	30.9			0.81	scale 0 to 1.4	2015
Domestic nitrogen surplus	9.34	kg/capita	74.5			148.25	Gg	2015
Spillover nitrogen surplus	0.30	kg/capita	83.0			4.71	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA			NA	kt	NA
Spillover phosphorus fertilizer	0.10	g/capita	100.0			1.81	kt	2018
Water Cycle								
Domestic scarce water consumption	0.13	m^3 H_2O-eq./capita	84.8			2.33	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	2.09	m^3 H_2O-eq./capita	100.0			36.34	Mm^3 H_2O-eq.	2018
Domestic water stress	0.04	ML H_2O-eq./capita	76.7			0.76	Bm^3 H_2O-eq.	2018
Spillover water stress	0.14	m^3 H_2O-eq./capita	100.0			2.48	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

Zimbabwe

Africa

Land area	386,850 sq. km	**Population**	14.9 million
GDP (PPP, constant 2017 US$, billions)	$40.8	**GDP per capita**	$2,745
Human Development Index (HDI)	0.593	**HDI category**	Medium

Global Commons Stewardship Index, overall scores

	Rating	Score	Trajectory
PROPORTIONAL	●	65.9 /100	→
ABSOLUTE	●	66.2 /100	→

Impacts by pillar and sub-pillar

Proportional scores and trajectories

The Global Commons Stewardship Index

The Global Commons Stewardship Index is a production of the Sustainable Development Solutions Network, the Yale Center for Environmental Law & Policy, and the Center for Global Commons at the University of Tokyo.

Dashboard categories

Negative impacts on the Global Commons

95–100	None or limited
90–95	Low
80–90	Medium-low
70–80	Medium-high
50–70	High
30–50	Very high
0–30	Extreme

Trajectories

Based on 5-year growth rates

- ↑ Projected to meet 2050 threshold
- ↗ Projected to meet 2030 threshold only
- → Insufficient progress toward threshold
- ↓ Headed in wrong direction

Zimbabwe

Performance by Indicator

Indicator	Proportional Value	Proportional Units	Score			Absolute Value	Absolute Units	Year
Aerosols								
Domestic SO_2 emissions	5.58	kg/capita	57.2	●	↗	80.62	Gg	2018
Spillover SO_2 emissions	3.28	kg/capita	58.1	●	↓	45.35	Gg	2015
Domestic NO_X emissions	5.77	kg/capita	98.2	●	↑	83.32	Gg	2018
Spillover NO_X emissions	2.40	kg/capita	64.7	●	→	33.09	Gg	2015
Domestic black carbon emissions	1.16	kg/capita	4.2	●	↓	16.71	Gg	2018
Spillover black carbon emissions	0.11	kg/capita	61.1	●	↗	1.57	Gg	2015
GHG Emissions								
Domestic GHG emissions	4.40	t CO_2e/capita	69.4	●	→	64.46	Tg	2019
Spillover GHG emissions	0.84	t CO_2e/capita	79.6	●	↗	12.18	Tg	2018
CO_2 emissions embodied in fossil fuel exports	0.02	t CO_2e/capita	36.3	●	●	0.28	Tg	2020
Terrestrial Biodiversity Loss								
Unprotected terrestrial biodiversity sites	81.22	%	20.0	●	↓	81.22	%	2020
Unprotected freshwater biodiversity sites	82.01	%	19.6	●	↓	82.01	%	2020
Domestic land use related biodiversity loss	9.68×10^{-13}	global PDF/capita	98.7	●	↗	1.40×10^{-5}	global PDF	2018
Spillover land use related biodiversity loss	2.37×10^{-12}	global PDF/capita	88.8	●	↓	3.43×10^{-5}	global PDF	2018
Domestic freshwater biodiversity threats	0.25	spp./million	43.1	●	●	3.61	species	2018
Spillover freshwater biodiversity threats	0.09	spp./million	38.8	●	●	1.30	species	2018
Domestic deforestation	0.74	%	44.2	●	↓	7.89×10^{3}	hectares	2020
Spillover deforestation	4.10×10^{-4}	ha/capita	96.1	●	↗	5.92×10^{3}	hectares	2018
Red List Index of species survival	0.79	scale 0 to 1	39.4	●	↓	0.79	scale 0 to 1	2021
Biodiversity Habitat Index	0.45	scale 0 to 1	23.5	●	●	0.45	scale 0 to 1	2020
Domestic export of endangered terrestrial animals	7.45×10^{-3}	WOE/million	22.4	●	●	1.09×10^{5}	WOE	2019
Spillover endangered terrestrial animals	8.19×10^{-7}	WOE/capita	100.0	●	●	1.20×10	WOE	2019
Marine Biodiversity Loss								
Domestic export of endangered marine animals	NA	WOE/million	NA	●	●	NA	WOE	NA
Spillover endangered marine animals	0.00	WOE/capita	100.0	●	●	0.00	WOE	2019
Unprotected marine biodiversity sites	NA	%	NA	●	●	NA	%	NA
Domestic marine biodiversity threats	NA	spp./million	NA	●	●	NA	species	NA
Spillover marine biodiversity threats	0.02	spp./million	48.8	●	●	0.35	species	2018
Fish caught from overexploited or collapsed stocks	NA	%	NA	●	●	NA	%	NA
Fish caught by trawling	NA	%	NA	●	●	NA	%	NA
Domestic vulnerable fisheries catch	NA	tonnes/capita	NA	●	●	NA	Tg	NA
Spillover vulnerable fisheries catch	1.26	tonnes/capita	68.8	●	↑	0.02	tonnes	2018
Nutrient Cycles								
Sustainable Nitrogen Management Index	1.00	scale 0 to 1.4	13.7	●	↓	1.00	scale 0 to 1.4	2015
Domestic nitrogen surplus	3.64	kg/capita	90.9	●	↑	50.27	Gg	2015
Spillover nitrogen surplus	0.36	kg/capita	79.6	●	↓	4.91	Tg	2015
Domestic phosphorus fertilizer	NA	kg/capita	NA	●	●	NA	kt	NA
Spillover phosphorus fertilizer	0.70	g/capita	80.3	●	↓	10.10	kt	2018
Water Cycle								
Domestic scarce water consumption	1.46	m^3 H_2O-eq./capita	58.0	●	↗	21.09	Mm^3 H_2O-eq.	2018
Spillover scarce water consumption	5.00	m^3 H_2O-eq./capita	100.0	●	↑	72.25	Mm^3 H_2O-eq.	2018
Domestic water stress	0.17	ML H_2O-eq./capita	59.6	●	↗	2.39	Bm^3 H_2O-eq.	2018
Spillover water stress	0.70	m^3 H_2O-eq./capita	67.6	●	↓	10.04	Mm^3 H_2O-eq.	2018

● Information unavailable

Note: PDF = potentially disappeared fraction (of species), WOE = whole organism equivalent

TACKLING ENVIRONMENTAL SPILLOVERS

GLOBAL COMMONS STEWARDSHIP INDEX 2022

SUSTAINABLE DEVELOPMENT SOLUTIONS NETWORK
A GLOBAL INITIATIVE FOR THE UNITED NATIONS

Yale Center for Environmental Law & Policy

CENTER FOR GLOBAL COMMONS