



ESG SOVEREIGN ASSESSMENT

JULY 2023

ECONOMICS & INVESTMENT STRATEGY

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EXECUTIVE SUMMARY

INTRODUCTION TO ESG INVESTING

In the last decade the global investment landscape has shifted towards sustainable investing due to a number of climate and energy related global initiatives but also due to major changes in the regulatory framework around the globe. In 2015, under the Paris Agreement, commitments were made to drastically reduce greenhouse gas emissions, bringing them “close to zero” by 2050 (often referred to as the Transition to “Net Zero”).

In the European Union, the financial sector in order to achieve the goals of the European Green Deal* and other global climate-related commitments is gradually shifting long-term investments in sustainable projects and other net zero transition related activities, significantly facilitating the mobilization of capital towards these areas. Asset Managers also play an important part in contributing to this global transformation/transition effort. The Sustainable Finance Disclosure Regulation (SFDR) is pushing them to start incorporating sustainability considerations into the reporting requirements. Also from the buy side, many institutional investors and sovereign wealth funds have started integrating non-financial criteria in their investment decision process, in particular Environmental, Social and Governance (ESG) factors, while at the same time green investments are also gaining favor among retail investors.

As the demand for sustainable investing continues to grow, so does the importance of reliable and transparent data with a number of ESG rating agencies already established in this field. Yet, despite (or maybe because of) the increased interest in the field of ESG, a wide and growing divergence emerges between various raters of ESG evaluators when they assess the performance of the same corporates across the globe.

SOVEREIGN ESG ASSESSMENT

The area of Sovereign ESG assessment may not be plagued by the same degree of divergence between evaluators but is facing a number of its own challenges. The most obvious of these being the lack of timely data, the choice between focusing on public sector emissions only or emissions of both public and private sector (which introduces the risk of double counting emissions on portfolios that include both sovereign bonds and private sector financial assets such as stocks and corporate bonds) or the choice between including emissions related to domestically consumed goods. Even pure technical choices such as the way to standardize the various metrics can lead to different ranking outcomes, biasing the results in favor of richer/poorer countries, or in favor of manufacturing or services based economies.

* a set of proposals to make the EU’s climate, energy, transport and taxation policies fit for reducing greenhouse gas emissions by at least 55% by 2030, compared to 1990 levels



EXECUTIVE SUMMARY

OUR APPROACH

Against all these challenges, we do not claim to have discovered profound and definitive answers. Instead, in this study we want to provide our own attempt in understanding the challenges of providing ESG analysis to our colleagues internally at Piraeus Bank and our clients externally, especially those related to the Wealth & Asset Management arm of Piraeus Bank.

In plain English (or Greek) what we do is to construct a database of publicly available metrics on the Environmental, Social and Governance dimensions of Sovereigns' behavior, using a sample of 24 OECD countries. Then in a fully transparent and open way, we standardize and normalize these metrics to make them comparable both cross - sectionally and across-time. Finally, we aggregate all metrics to provide a total sovereign ESG ranking.

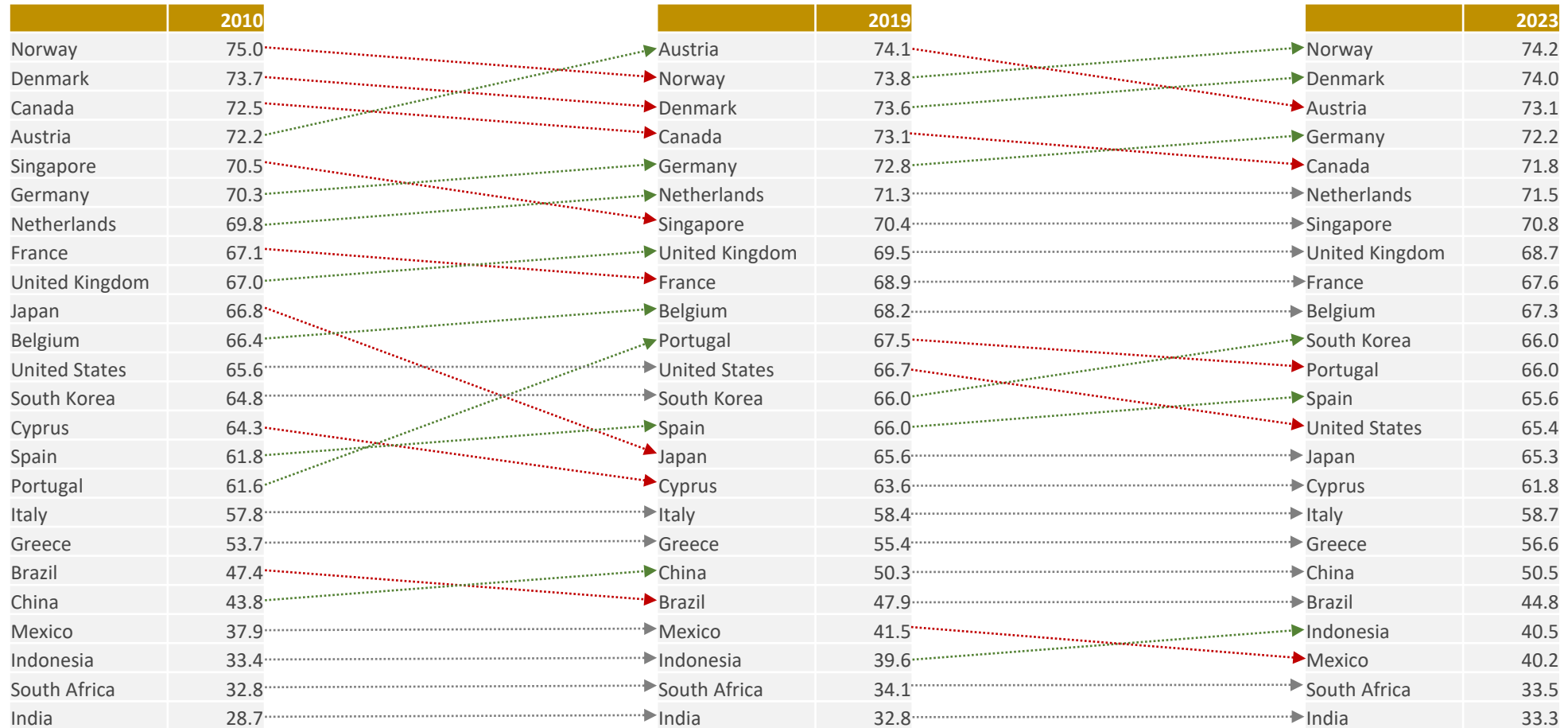
NEXT STEPS

Looking to the future, we intend to enrich our coverage both in terms of sovereign but also in terms of metrics we include into our analysis. Eventually, our long – term target is to fully incorporate our ESG Sovereign analysis methodology to our existing sovereign rating model, thus incorporating fully the ESG dimensions into our sovereign analysis.



EXECUTIVE SUMMARY

PREVIEW OF RESULTS - PIRAEUS ESG SOVEREIGN SCORE & ITS EVOLUTION





- ☐ **DESCRIPTIVES**
- ☐ METHODOLOGY
- ☐ ESG SOVEREIGN ASSESSMENT
- ☐ COUNTRY FOCUS – GREECE
- ☐ APPENDIX
COUNTRIES & THEIR 2019 38 VARIABLES



COUNTRY UNIVERSE & TIME SPAN

Countries List	Abbreviation
1 Austria	OE
2 Belgium	BG
3 Brazil	BR
4 Canada	CN
5 China	CH
6 Cyprus	CP
7 Denmark	DK
8 France	FR
9 Germany	DB
10 Greece	GR
11 India	IN
12 Indonesia	ID
13 Italy	IT
14 Japan	JP
15 Mexico	MX
16 Netherlands	NL
17 Norway	NW
18 Portugal	PT
19 Singapore	SP
20 South Africa	SA
21 South Korea	KO
22 Spain	ES
23 United Kingdom	UK
24 United States	US

○ Universe

- The selection of countries was based on the mandate of having a representative pool of developed and developing economies of a size that has already allowed them practicing ESG principles.
- The final number of countries selected to construct Piraeus ESG Sovereign Scoring Model is **24**.

○ Time Span

Realized Values: 2000 – 2020

Estimated Values: 2021 – 2023

- Main Database: WorldBank via Thomson Reuters Datastream



ESG INDICATORS

	Indicator	Database	Source
Environment	1	Adjusted Savings, Natural Resources Depletion: % of GNI	World Bank Datastream
	2	CO2 Emissions: KG per PPP \$ of GDP	World Bank Datastream
	3	PM2.5 Air Pollution: mean annual exposure micrograms per cubic meter	World Bank Datastream
	4	Forest Area: % of Land Area	World Bank Datastream
	5	Global Adaptation Index (Gain Index)	World Bank Datastream
	6	Terrestrial & Marine Protected Areas: % of total territorial area	World Bank Datastream
	7	Agricultural Land: % of total land area	World Bank Datastream
	8	Food Production Index: 2007=100	World Bank Datastream
	9	Total Natural Resources Rents: % GDP	World Bank Datastream
	10	Population Density: People per sq.km of land area	World Bank Datastream
	11	R&D Expenditure: % GDP	World Bank Datastream
	12	High-Technology Exports: % of manufactured exports	World Bank Datastream
	13	Water Productivity: constant prices 2015 US\$ GDP/M3 of fresh water withdrawal	World Bank Datastream
	14	Energy Use: KG of Oil equivalent per \$1000 GDP, constant 2017 PPP	World Bank Datastream
Social	1	Unemployment Rate: % of total labour force, modeled ILO estimate	World Bank Datastream
	2	Life Expectancy at birth: total in years	World Bank Datastream
	3	Adolescent Fertility Rate: births per 1000 women ages 15-19	World Bank Datastream
	4	Mortality Rate under 5 years: per 1000 live births	World Bank Datastream
	5	Prevalence of Undernourishment: % of population	World Bank Datastream
	6	Labour Force Participation Rate: Total, % of total population ages 15-64, modeled ILO Estimate	World Bank Datastream
	7	Fertility Rate: Total births per woman	World Bank Datastream
	8	Age Dependency Ratio: % of working-age population	World Bank Datastream
	9	Cause of death by communicable diseases & maternal, prenatal, nutrition conditions: % of total	World Bank Datastream
	10	Access to Clean Fuels & Technologies for Cooking: % of population	World Bank Datastream
	11	Gini Index	World Bank Datastream
	12	Physicians: per 1000 people	World Bank Datastream
Governance	1	Regulatory Quality: Estimate of Governance	World Bank Datastream
	2	Government Effectiveness: Estimate of Governance	World Bank Datastream
	3	Voice & Accountability: Estimate of Governance	World Bank Datastream
	4	Rule of Law: Estimate of Governance	World Bank Datastream
	5	Control of Corruption: Estimate of Governance	World Bank Datastream
	6	Political Stability and Absence of Violence/Terrorism: Estimate of Governance	World Bank Datastream
	7	Ratio of Female to Male Labor Participation Rate: %, modeled ILO Estimate	World Bank Datastream
	8	Proportion of Seats held by Women in National Parliaments: %	World Bank Datastream
	9	Individuals using the Internet: % of population	World Bank Datastream
	10	Net Migration: % over total Population	World Bank Datastream
	11	Real GDP growth: annual %	World Bank Datastream
	12	Democracy Index	EIU Datastream
Total	38		

- **38 indicators used**, enabling the comparison of the ESG related domestic risk and opportunities at a country level
- **4 Variables excluded** from the final selection due to lack of data
 - Net Forest Depletion
 - Fragility Index
 - Access to Electricity
 - Overweight Prevalence
- **3 Variables** adjustments made to correct for biases
 - Net migration (level) was divided by Total Population
 - Food Production Index was rebased to 2007 for better comparison
 - Population over 65 years was replaced with Age Dependency Ratio
- **Approx. same number of indicators per each E, S & G Pillar**
- **33.33% Weight** across Environmental, Social and Governance Pillars



INDICATOR DEFINITIONS - ENVIRONMENTAL

Indicator	Description
1 Adjusted Savings, Natural Resources Depletion: % of GNI	Natural resource depletion is the sum of net forest depletion, energy depletion, and mineral depletion. Net forest depletion is unit resource rents times the excess of roundwood harvest over natural growth. Energy depletion is the ratio of the value of the stock of energy resources to the remaining reserve lifetime. It covers coal, crude oil, and natural gas. Mineral depletion is the ratio of the value of the stock of mineral resources to the remaining reserve lifetime. It covers tin, gold, lead, zinc, iron, copper, nickel, silver, bauxite, and phosphate.
2 CO2 Emissions: KG per PPP \$ of GDP	Carbon dioxide emissions are those stemming from the burning of fossil fuels and the manufacture of cement. They include carbon dioxide produced during consumption of solid, liquid, and gas fuels and gas flaring.
3 PM2.5 Air Pollution: mean annual exposure micrograms per cubic meter	Population-weighted exposure to ambient PM2.5 pollution is defined as the average level of exposure of a nation's population to concentrations of suspended particles measuring less than 2.5 microns in aerodynamic diameter, which are capable of penetrating deep into the respiratory tract and causing severe health damage. Exposure is calculated by weighting mean annual concentrations of PM2.5 by population in both urban and rural areas.
4 Forest Area: % of Land Area	Forest area is land under natural or planted stands of trees of at least 5 meters in situ, whether productive or not, and excludes tree stands in agricultural production systems (for example, in fruit plantations and agroforestry systems) and trees in urban parks and gardens.
5 Global Adaptation Index (Gain Index)	The Notre Dame-Global Adaptation Index (ND-GAIN) Country Index is a free opensource index that shows a country's current vulnerability to climate disruptions. It also assesses a country's readiness to leverage private and public sector investment for adaptive actions. ND-GAIN is computed through the following formula: (Readiness Indicators - Vulnerability Indicators + 1) x 50 = GAIN INDEX. It is a number from (0.0 - 100.0) range. Higher is better.
6 Terrestrial & Marine Protected Areas: % of total territorial area	Terrestrial protected areas are totally or partially protected areas of at least 1,000 hectares that are designated by national authorities as scientific reserves with limited public access, national parks, natural monuments, nature reserves or wildlife sanctuaries, protected landscapes, and areas managed mainly for sustainable use. Marine protected areas are areas of intertidal or subtidal terrain--and overlying water and associated flora and fauna and historical and cultural features--that have been reserved by law or other effective means to protect part or all of the enclosed environment. Sites protected under local or provincial law are excluded.
7 Agricultural Land: % of total land area	Agricultural land refers to the share of land area that is arable, under permanent crops, and under permanent pastures. Arable land includes land defined by the FAO as land under temporary crops (double-cropped areas are counted once), temporary meadows for mowing or for pasture, land under market or kitchen gardens, and land temporarily fallow. Land abandoned as a result of shifting cultivation is excluded. Land under permanent crops is land cultivated with crops that occupy the land for long periods and need not be replanted after each harvest, such as cocoa, coffee, and rubber. This category includes land under flowering shrubs, fruit trees, nut trees, and vines, but excludes land under trees grown for wood or timber. Permanent pasture is land used for five or more years for forage, including natural and cultivated crops.
8 Food Production Index: 2007=100	Food production index covers food crops that are considered edible and that contain nutrients. Coffee and tea are excluded because, although edible, they have no nutritive value.
9 Total Natural Resources Rents: % GDP	Total natural resources rents are the sum of oil rents, natural gas rents, coal rents (hard and soft), mineral rents, and forest rents.
10 Population Density: People per sq.km of land area	Population density is midyear population divided by land area in square kilometers. Population is based on the de facto definition of population, which counts all residents regardless of legal status or citizenship--except for refugees not permanently settled in the country of asylum, who are generally considered part of the population of their country of origin. Land area is a country's total area, excluding area under inland water bodies, national claims to continental shelf, and exclusive economic zones. In most cases the definition of inland water bodies includes major rivers and lakes.
11 R&D Expenditure: % GDP	Gross domestic expenditures on research and development (R&D), expressed as a percent of GDP. They include both capital and current expenditures in the four main sectors: Business enterprise, Government, Higher education and Private non-profit. R&D covers basic research, applied research, and experimental development.
12 High-Technology Exports: % of manufactured exports	High-technology exports are products with high R&D intensity, such as in aerospace, computers, pharmaceuticals, scientific instruments, and electrical machinery.
13 Water Productivity: constant prices 2015 US\$ GDP/M3 of fresh water withdrawal	Water productivity is calculated as GDP in constant prices divided by annual total water withdrawal.
14 Energy Use: KG of Oil equivalent per \$1000 GDP, constant 2017 PPP	Energy use per PPP GDP is the kilogram of oil equivalent of energy use per constant PPP GDP. Energy use refers to use of primary energy before transformation to other end-use fuels, which is equal to indigenous production plus imports and stock changes, minus exports and fuels supplied to ships and aircraft engaged in international transport. PPP GDP is gross domestic product converted to 2011 constant international dollars using purchasing power parity rates. An international dollar has the same purchasing power over GDP as a U.S. dollar has in the United States.



INDICATOR DEFINITIONS - SOCIAL

Social	1	Unemployment Rate: % of total labour force, modeled ILO estimate	As defined by the International Labour Organization, unemployed workers are those who are currently not working but are willing and able to work for pay, currently available to work, and have actively searched for work.
	2	Life Expectancy at birth: total in years	Life expectancy at birth indicates the number of years a newborn infant would live if prevailing patterns of mortality at the time of its birth were to stay the same throughout its life.
	3	Adolescent Fertility Rate: births per 1000 women ages 15-19	Adolescent fertility rate is the number of births per 1,000 women ages 15-19.
	4	Mortality Rate under 5 years: per 1000 live births	Under-five mortality rate is the probability per 1,000 that a newborn baby will die before reaching age five, if subject to age-specific mortality rates of the specified year.
	5	Prevalence of Undernourishment: % of population	Population below minimum level of dietary energy consumption (also referred to as prevalence of undernourishment) shows the percentage of the population whose food intake is insufficient to meet dietary energy requirements continuously. Data showing as 5 may signify a prevalence of undernourishment below 5%.
	6	Labour Force Participation Rate: Total, % of total population ages 15-64, modeled ILO Estimate	Labor force participation rate is the proportion of the population ages 15-64 that is economically active: all people who supply labor for the production of goods and services during a specified period.
	7	Fertility Rate: Total births per woman	Total fertility rate represents the number of children that would be born to a woman if she were to live to the end of her childbearing years and bear children in accordance with age-specific fertility rates of the specified year.
	8	Age Dependency Ratio: % of working-age population	Age dependency ratio is the ratio of dependents--people younger than 15 or older than 64--to the working-age population--those ages 15-64. Data are shown as the proportion of dependents per 100 working-age population.
	9	Cause of death by communicable diseases & maternal, prenatal, nutrition conditions: % of total	Cause of death refers to the share of all deaths for all ages by underlying causes. Communicable diseases and maternal, prenatal and nutrition conditions include infectious and parasitic diseases, respiratory infections, and nutritional deficiencies such as underweight and stunting.
	10	Access to Clean Fuels & Technologies for Cooking: % of population	According to World Health Organization the following fuels and technologies are known to be clean for health at point of use and are categorized as clean for PM and CO household emissions: solar, electric, biogas, natural gas, liquefied petroleum gas (LPG), and alcohol fuels including ethanol.
	11	Gini Index	Gini index measures the extent to which the distribution of income (or, in some cases, consumption expenditure) among individuals or households within an economy deviates from a perfectly equal distribution. A Lorenz curve plots the cumulative percentages of total income received against the cumulative number of recipients, starting with the poorest individual or household. The Gini index measures the area between the Lorenz curve and a hypothetical line of absolute equality, expressed as a percentage of the maximum area under the line. Thus a Gini index of 0 represents perfect equality, while an index of 100 implies perfect inequality.
	12	Physicians: per 1000 people	Physicians include generalist and specialist medical practitioners.



INDICATOR DEFINITIONS - GOVERNANCE

Governance	1	Regulatory Quality: Estimate of Governance	Regulatory quality captures perceptions of the ability of the government to formulate and implement sound policies and regulations that permit and promote private sector development.
	2	Government Effectiveness: Estimate of Governance	Government Effectiveness captures perceptions of the quality of public services, the quality of the civil service and the degree of its independence from political pressures, the quality of policy formulation and implementation, and the credibility of the government's commitment to such policies. Estimate gives the country's score on the aggregate indicator, in units of a standard normal distribution, i.e. ranging from approximately -2.5 to 2.5.
	3	Voice & Accountability: Estimate of Governance	Voice and Accountability captures perceptions of the extent to which a country's citizens are able to participate in selecting their government, as well as freedom of expression, freedom of association, and a free media.
	4	Rule of Law: Estimate of Governance	Rule of law captures perceptions of the extent to which agents have confidence in and abide by the rules of society, and in particular the quality of contract enforcement, property rights, the police, and the courts, as well as the likelihood of crime and violence.
	5	Control of Corruption: Estimate of Governance	This indicator measures the extent to which public power is exercised for private gain, including both petty and grand forms of corruption, as well as "capture" of the state by elites and private interests.
	6	Political Stability and Absence of Violence/Terrorism: Estimate of Governance	Political Stability and Absence of Violence/Terrorism measures perceptions of the likelihood of political instability and/or politically-motivated violence, including terrorism.
	7	Ratio of Female to Male Labor Participation Rate: %, modeled ILO Estimate	Labor force participation rate is the proportion of the population ages 15 and older that is economically active: all people who supply labor for the production of goods and services during a specified period. Ratio of female to male labor force participation rate is calculated by dividing female labor force participation rate by male labor force participation rate and multiplying by 100.
	8	Proportion of Seats held by Women in National Parliaments: %	Women in parliaments are the percentage of parliamentary seats in a single or lower chamber held by women.
	9	Individuals using the Internet: % of population	Internet users are individuals who have used the Internet (from any location) in the last 12 months. Internet can be used via a computer, mobile phone, personal digital assistant, games machine, digital TV etc
	10	Net Migration: % over total Population	Net migration is the net total of migrants during the period, that is, the total number of immigrants less the annual number of emigrants, including both citizens and noncitizens. Data are five-year estimates.
	11	Real GDP growth: annual %	Annual percentages of constant price GDP are year-on-year changes. Expenditure-based GDP is total final expenditures at purchasers' prices (including the f.o.b. value of exports of goods and services), less the f.o.b. value of imports of goods and services.
	12	Democracy Index	EIU's Democracy Index provides a snapshot of the state of democracy in 165 independent states and two territories.



- ☐ DESCRIPTIVES
- ☐ **METHODOLOGY**
- ☐ ESG SOVEREIGN ASSESSMENT
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ESG INDEX CONSTRUCTION APPROACH

- Our approach consists of two main steps where we first identify those variables and countries where adequate data are provided and clean the resulting datasets of outliers and second we proceed with an appropriate scheme for variable standardization and index aggregation.
- **Missing Data:** In those cases where past data points are unavailable we populate missing values using linear interpolation techniques where appropriate. Moreover, due to the lagged reporting for the majority of the indicators employed to construct the index we populate the missing values up to the current year with the last available realization of each specific indicator.
- **Outliers Treatment:** Due to the diverse set of countries it is highly possible for outliers to cloud the ranking obtained via standardization. To this end we remove outliers through winsorization by replacing those sample points where their distance from the median is greater or lower than three times their interquartile range. The interquartile range is also used to determine the upper and lower bounds that replace the outlier values.
- **Indicator Weighting System:** To ensure that there are not individual pillars that are overrepresented when constructing each country's overall score index, we apply an equal weights scheme firstly across pillars and next across indicators in each individual pillar. For example, the Environmental Pillar takes a weight of $(100\%/3=33.3\%)$ which in turn is divided between the indicators under each pillar. In a similar manner we proceed with the next two pillars. Finally, we adjust the weighting scheme for missing values especially in the early sample period of our dataset. Note that since in each pillar we consider roughly the same number of indicators equal weighting is also employed for the construction of the subfactors.



ESG INDEX STANDARDIZATION AND AGGREGATION

We standardize all variables using the Distance-to-Frontier methodology, where each variable is forced to lie within a range from a maximum and a minimum value. If the min|max for each variable, i.e. GDP growth is selected separately for each country across a number of years then the model could be used only for a single country time-series comparisons. If, on the other hand, min|max are selected across a number of countries at a single point in time, then our model could be used for cross-sectional comparisons only.

In our case our approach is based on min|max across all countries as well as on a recursively expanding time window where the computation proceeds using only data available up to the year that the calculation takes place. In this way, our index may be considered as a semi-real time indicator taking into account data availability (but not data revisions).

More formally, let X_i denote the indicator of interest, then the standardized score index, S_i , is given by the following linear transformation:

$$S_i = 100 \times \left(\frac{X_i - X_{min}}{X_{max} - X_{min}} \right) \quad \text{If an increase in } X_i \text{ implies a positive impact of the variable on ESG score}$$

or

$$S_i = 100 \times \left(\frac{X_{max} - X_i}{X_{max} - X_{min}} \right) \quad \text{If an increase in } X_i \text{ implies a negative impact of the variable on ESG score}$$

where X_{max} and X_{min} are computed across both the country and time dimension of the dataset for each year up to date

Clearly, the functional form provides a measure of the gap between a country's indicator and its best realization (X_{max} and X_{min}) taking values in the range of 0 to 100. It is important to emphasize that the score index does not depend on parameters (e.g. mean or standard deviation) that may be imprecisely estimated especially under limited data availability.

As a next step we aggregate the standardized series for each country across the three pillars (E-S-G) using an equal weighting scheme. By construction, the resulting index takes values in the [0,100] interval with the highest score indicating a better reading. After aggregating each country's indicators into three subfactors, the final step is to aggregate each country's subfactor score into a composite equal weighted ESG index.



ESG INDICATORS - IMPACT PER PILLAR

ENVIRONMENT

INDICATORS	IMPACT	WEIGHTS
Adjusted Savings, Natural Resources Depletion: % of GNI	Negative	2.38%
Forest Area: % of Land Area	Positive	2.38%
CO2 Emissions: KG per PPP \$ of GDP	Negative	2.38%
PM2.5 Air Pollution: mean annual exposure micrograms per cubic meter	Negative	2.38%
Global Adaptation Index (Gain Index)	Positive	2.38%
Terrestrial & Marine Protected Areas: % of total territorial area	Positive	2.38%
Agricultural Land: % of Total land area	Negative	2.38%
Food Production Index: 2007=100	Positive	2.38%
Total Natural Resources Rents: % GDP	Negative	2.38%
Population Density: People per sq.km of land area	Negative	2.38%
Adjusted Savings: Net Forest Depletion % of GNI	Negative	2.38%
R&D Expenditure: % GDP	Positive	2.38%
High-Technology Exports: % of manufactured exports	Positive	2.38%
Water Productivity: constant prices 2015 US\$ GDP/M3 of fresh water withdrawal	Positive	2.38%
Energy Use: KG of Oil equivalent per \$1000 GDP, constant 2017 PPP	Positive	2.38%

GOVERNANCE

INDICATORS	IMPACT	WEIGHTS
Regulatory Quality: Estimate of Governance	Positive	2.78%
Government Effectiveness: Estimate of Governance	Positive	2.78%
Voice & Accountability: Estimate of Governance	Positive	2.78%
Rule of Law: Estimate of Governance	Positive	2.78%
Control of Corruption: Estimate of Governance	Positive	2.78%
Political Stability and Absence of Violence/Terrorism: Estimate of Governance	Positive	2.78%
Ratio of Female to Male Labor Participation Rate: %, modeled ILO Estimate	Positive	2.78%
Proportion of Seats held by Women in National Parliaments: %	Positive	2.78%
Net Migration: % over Total Population	Positive	2.78%
Real GDP growth: annual %	Positive	2.78%
Individuals using the Internet: % of population	Positive	2.78%
Democracy Index	Positive	2.78%

SOCIAL

INDICATORS	IMPACT	WEIGHTS
Unemployment Rate: % of total labour force, modeled ILO estimate	Negative	2.78%
Life Expectancy at birth: total in years	Positive	2.78%
Adolescent Fertility Rate: births per 1000 women ages 15-19	Negative	2.78%
Mortality Rate under 5 years: per 1000 live births	Negative	2.78%
Prevalence of Undernourishment: % of population	Negative	2.78%
Labour Force Participation Rate: Total, % of total population ages 15-64, modeled ILO Estimate	Positive	2.78%
Fertility Rate: Total births per woman	Positive	2.78%
Age Dependency Ratio: % of working-age population	Negative	2.78%
Cause of death by communicable diseases & maternal, prenatal, nutrition conditions: % of total	Negative	2.78%
Access to Clean Fuels & Technologies for Cooking: % of population	Positive	2.78%
Gini Index	Negative	2.78%
Physicians: per 1000 people	Positive	2.78%

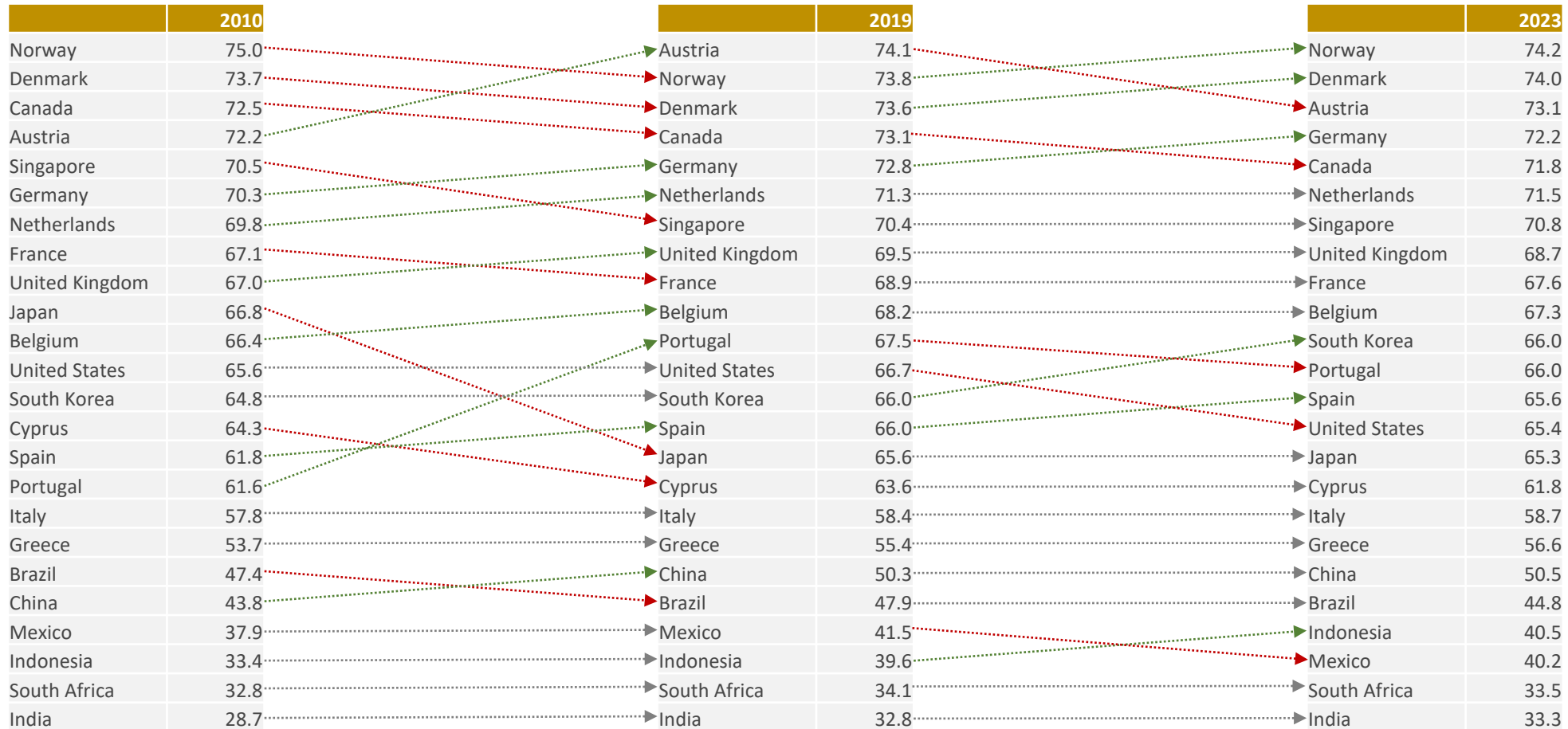
- Each variable/indicator is characterized to have a **positive** or **negative impact** on the ESG score index, thus affecting also the standardization.
- Challenges we had to resolve were with variables with a possible mixed signal (see Appendix for a detailed definition). Some examples were:
 - Agricultural Land
 - Food Production Index
 - Total Natural Resources – contribution to GDP



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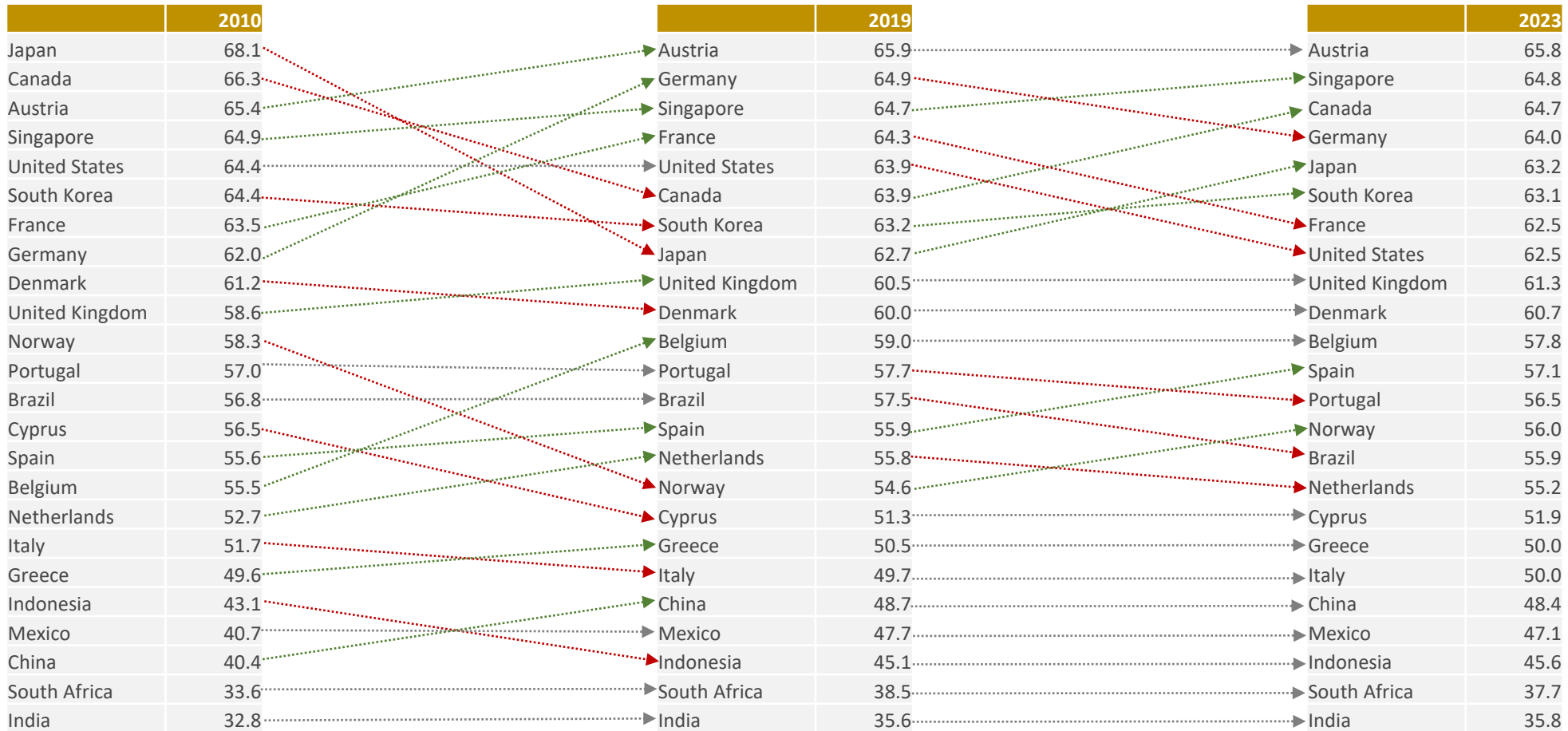
OUTPUT – PIRAEUS ESG SOVEREIGN SCORE & ITS EVOLUTION



- The evolution of the ESG sovereign scores signals that mature economies retain their high scores mainly due their strong performance in the Social and Governance Pillars and that changes in the Total Score are mainly due to the Environmental reshuffling.
- As regards countries with lower scores, changes and reshuffles are not that common, as in order to make critical long-term investments that support sustainable development, financial assistance that includes official development assistance, domestic resources and private investment is required.



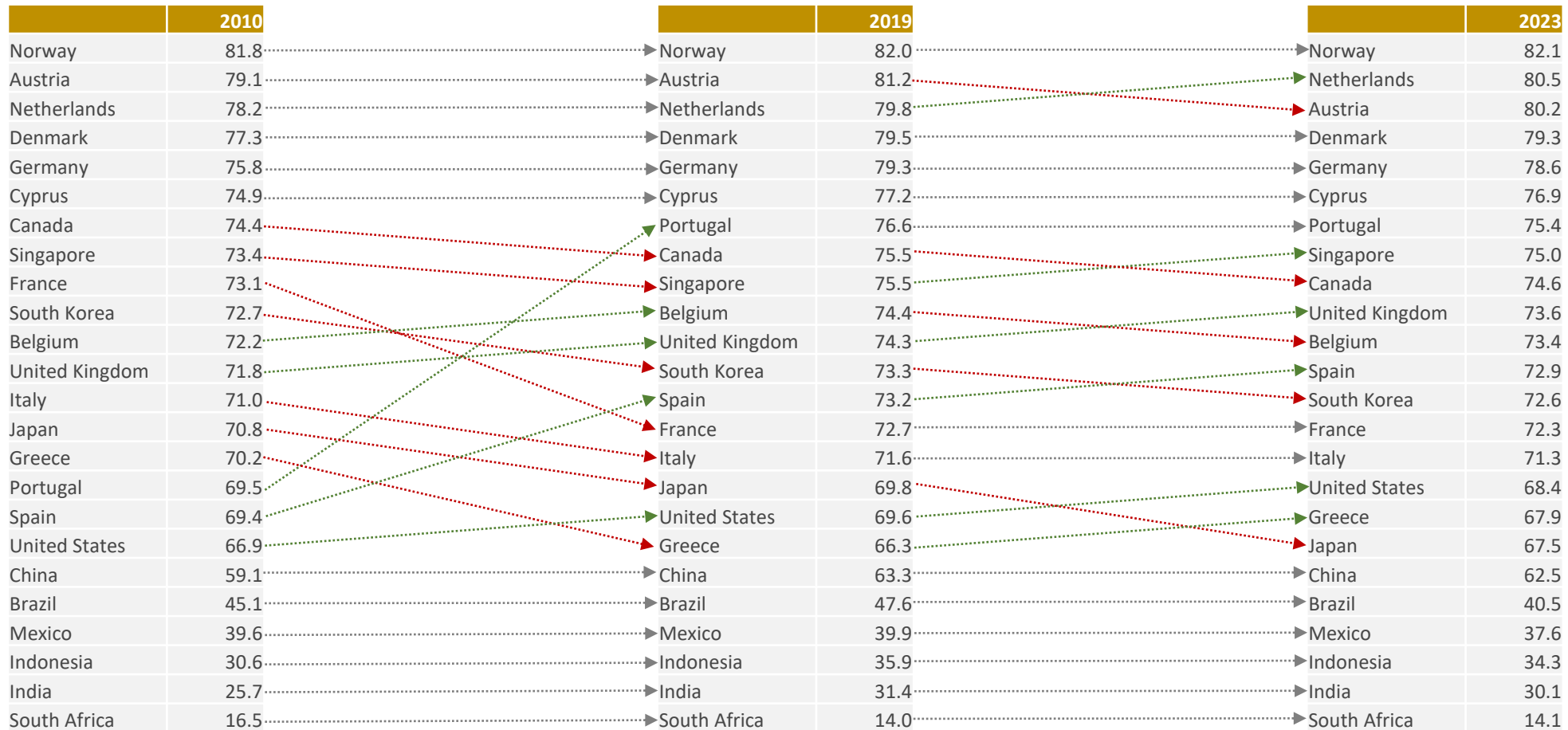
OUTPUT – THE ENVIRONMENTAL PILLAR & ITS EVOLUTION



- The Environmental Pillar is the most challenging one, as countries that are top ranked in either Total ESG score or with high **S** and **G** scores, face difficulties obtaining a high **E** score.
- We see countries such as Norway, Denmark and Canada that are persistently top performers at the S & G score not showing the respective consistency in the Environmental score.



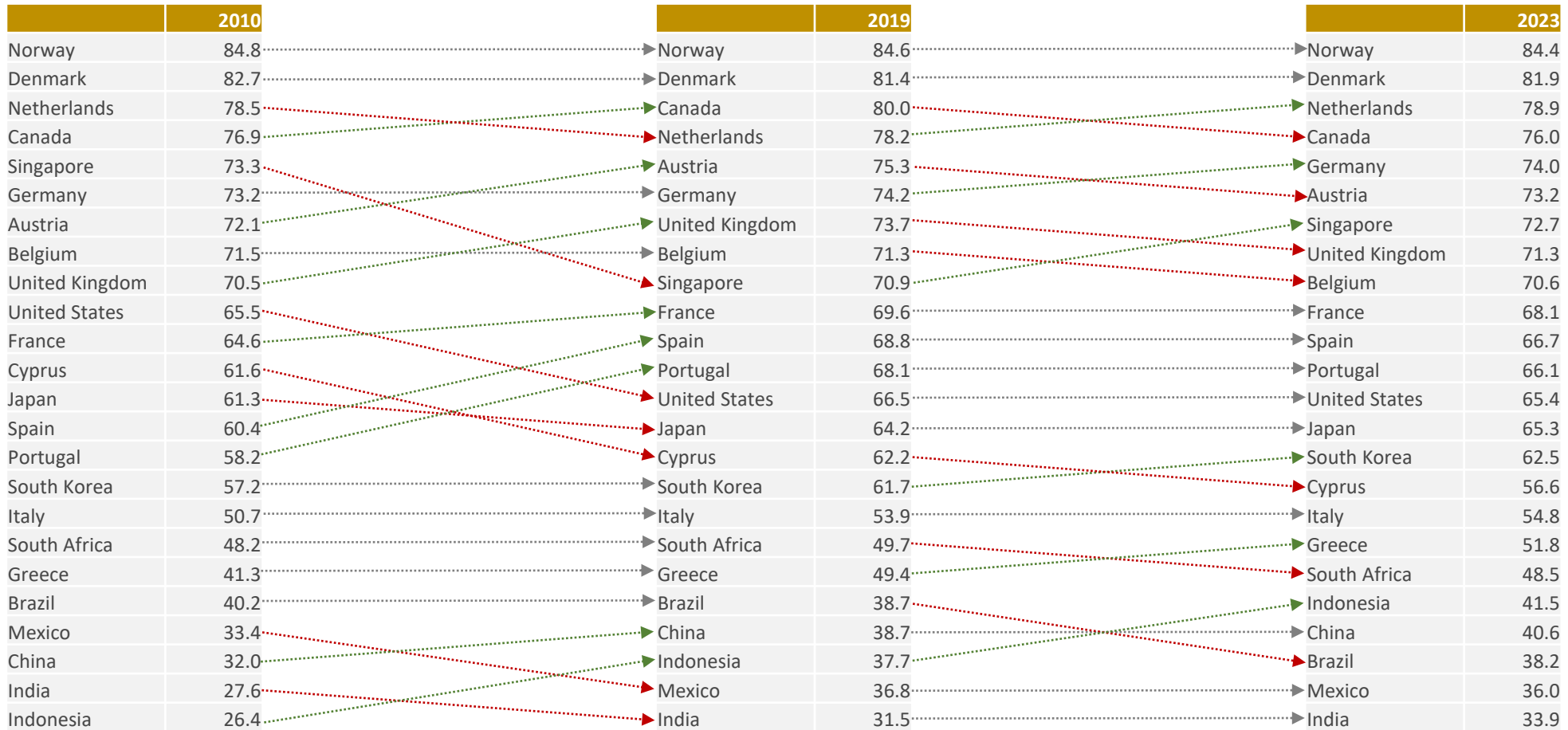
OUTPUT – THE SOCIAL PILLAR & ITS EVOLUTION



- Mature economies attain the highest Social score as expected, as the latter has a much more integrated system of social governance and structure.
- We do not expect to see great differences at the bottom performers in the near future as changes in the social infrastructure take a long time to pass through.



OUTPUT – THE GOVERNANCE PILLAR & ITS EVOLUTION

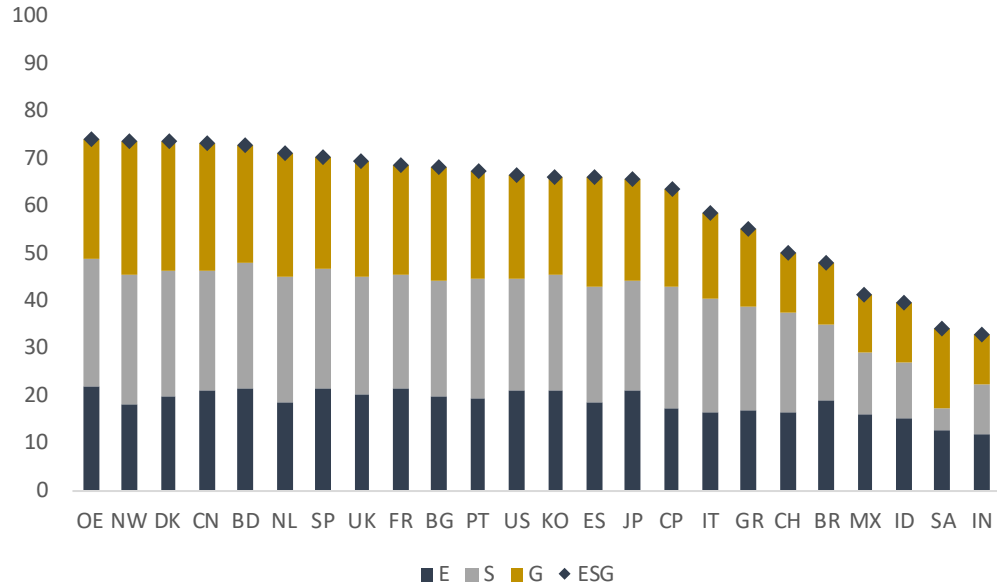


- The Governance score shows more sings off volatility at the middle and bottom rankings signaling the countries' attempt to align and converge towards international standards.

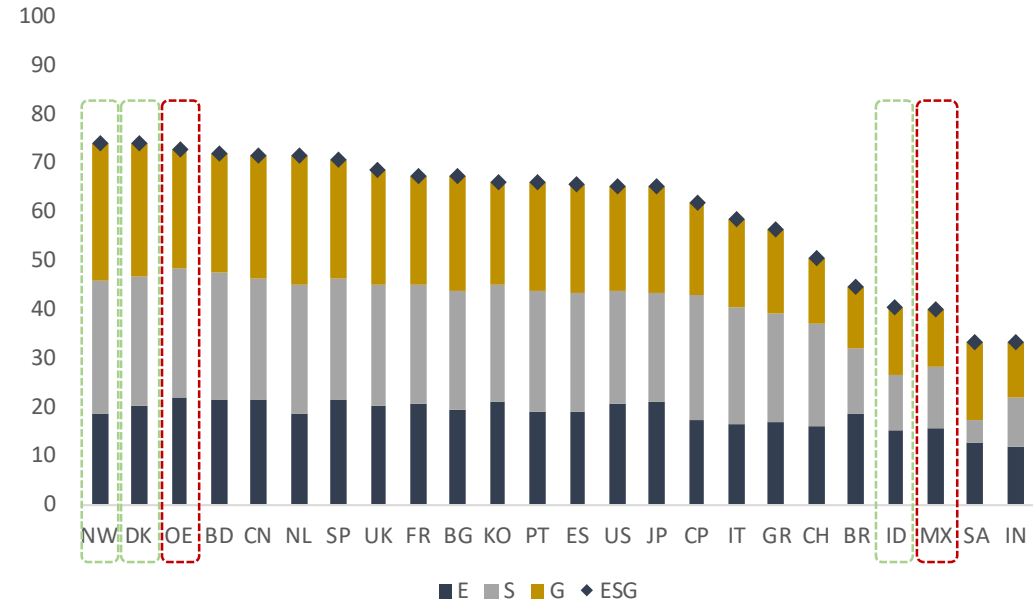


ESG SCORE DECOMPOSITION

2019 – ESG Score Decomposition



2023 – ESG Score Decomposition

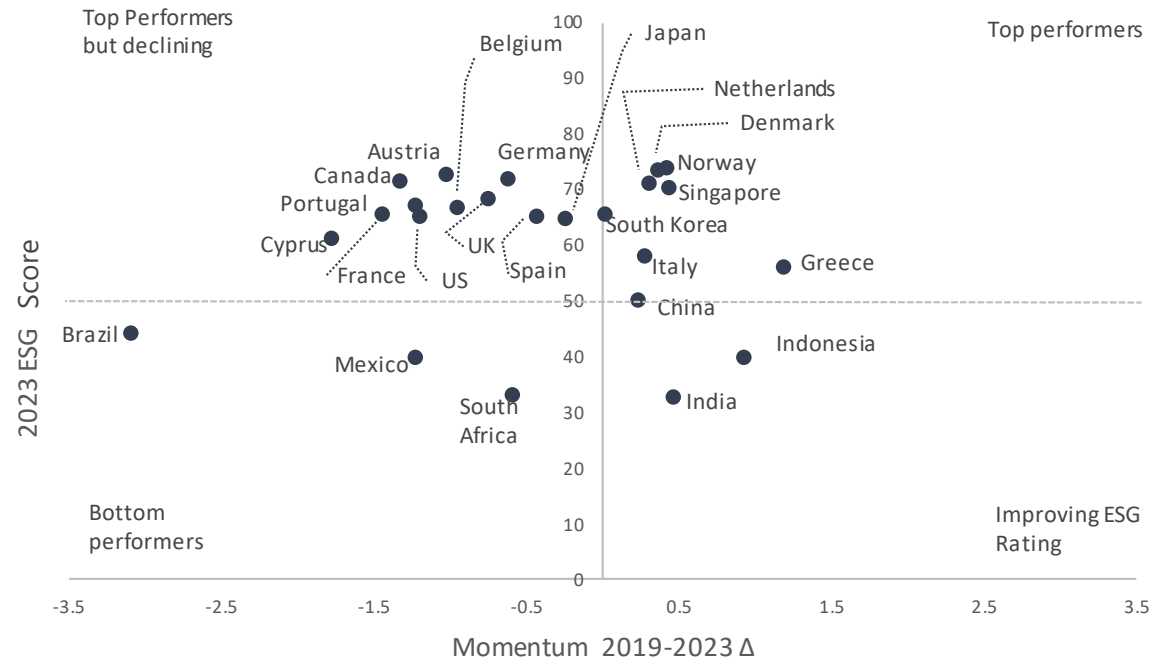


- Looking at the ESG score decomposition, in the highest ranks we see that the share of each Sub-Factor/Pillar is approximately the same, however looking at the bottom ranks the Social Sub-Factor is the one that has the smallest contribution to the total scoring.

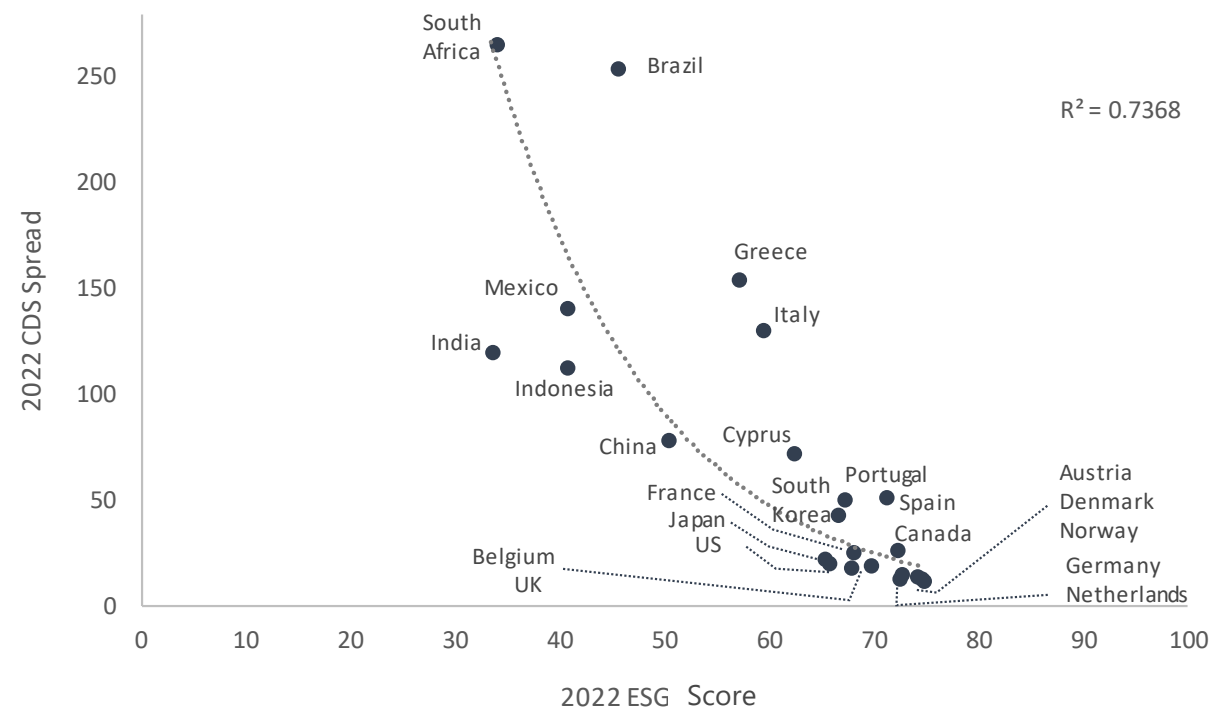


WHO IS TOP AND WHO IS BOTTOM | VALUATION AND ESG SOVEREIGN SCORE

Top vs Bottom Performers



Valuation vs ESG Sovereign Score



- The top performers are defined with the characteristics of an above the 50 score and a positive 2019-2023 momentum. In this area we see countries such as Greece Italy and also Singapore, but also usual suspects, such as Norway, Denmark and the Netherlands.
- Bottom performers are characterized with low ESG score but also a negative momentum. There we see the countries that historically are assigned with the lowest scores (i.e. Brazil, Mexico and South Africa).
- Countries that have a high (above 50 score) but have a negative momentum are the ones that we should monitor and see the reasons of this decline.

- Looking at valuations and the ESG scores, countries that are assigned a high score also attain the lowest CDS spreads, signaling that mature markets as expected are less risky.

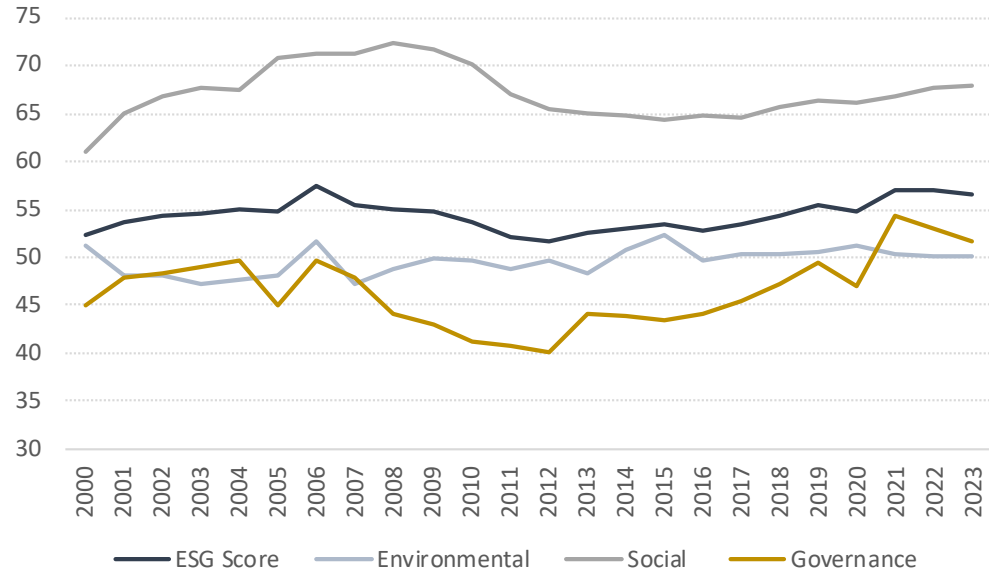


- ☐ DESCRIPTIVES
- ☐ METHODOLOGY
- ☐ ESG SOVEREIGN ASSESSMENT
- ☐ **COUNTRY FOCUS – GREECE**
- ☐ APPENDIX
COUNTRIES & THEIR 2019 38 VARIABLES



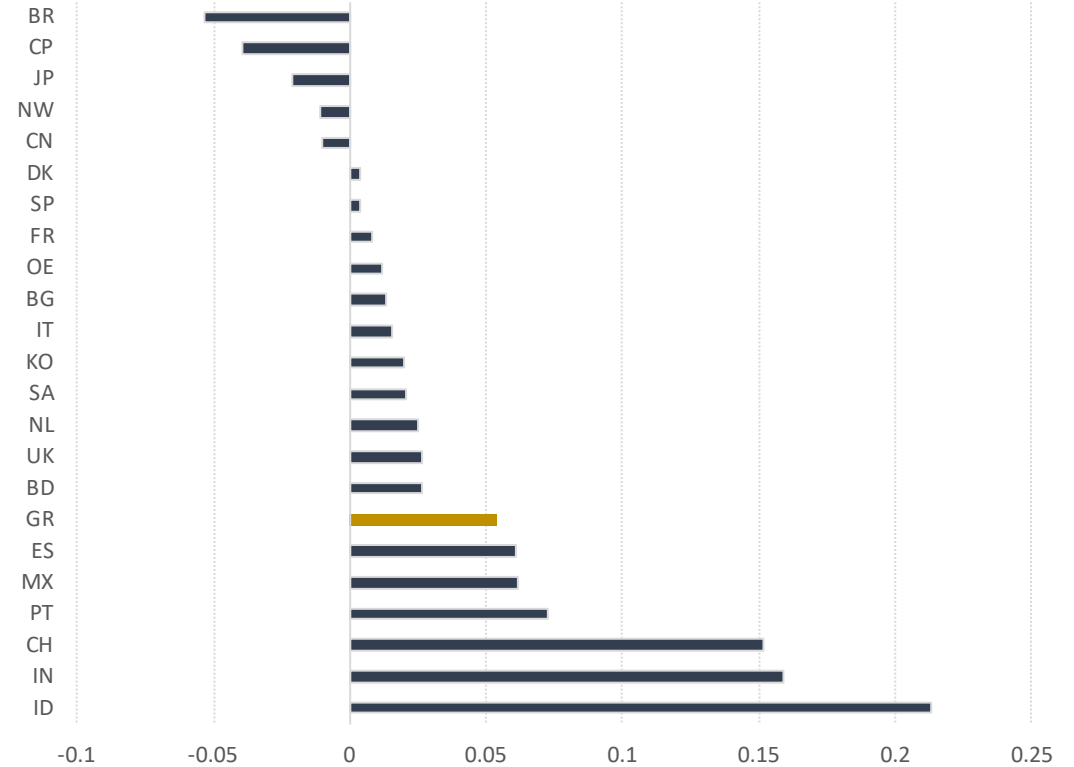
COUNTRY FOCUS: GREECE

Greece ESG Score and Components



- Greece’s total ESG score declined following the global financial crisis and reached its lowest level during Greece’s economic turmoil in 2010. It has recovered since and it is currently near the level it reached before the GFC.
- The Governance score took the strongest hit in 2011 – 2012 but it has been improving, and as for the Total Score, Greece is among the top performers as regards momentum for the period 2010 - 2023.
- The S & G scores are currently above their starting levels, only the E score is below the level attained in 2000.

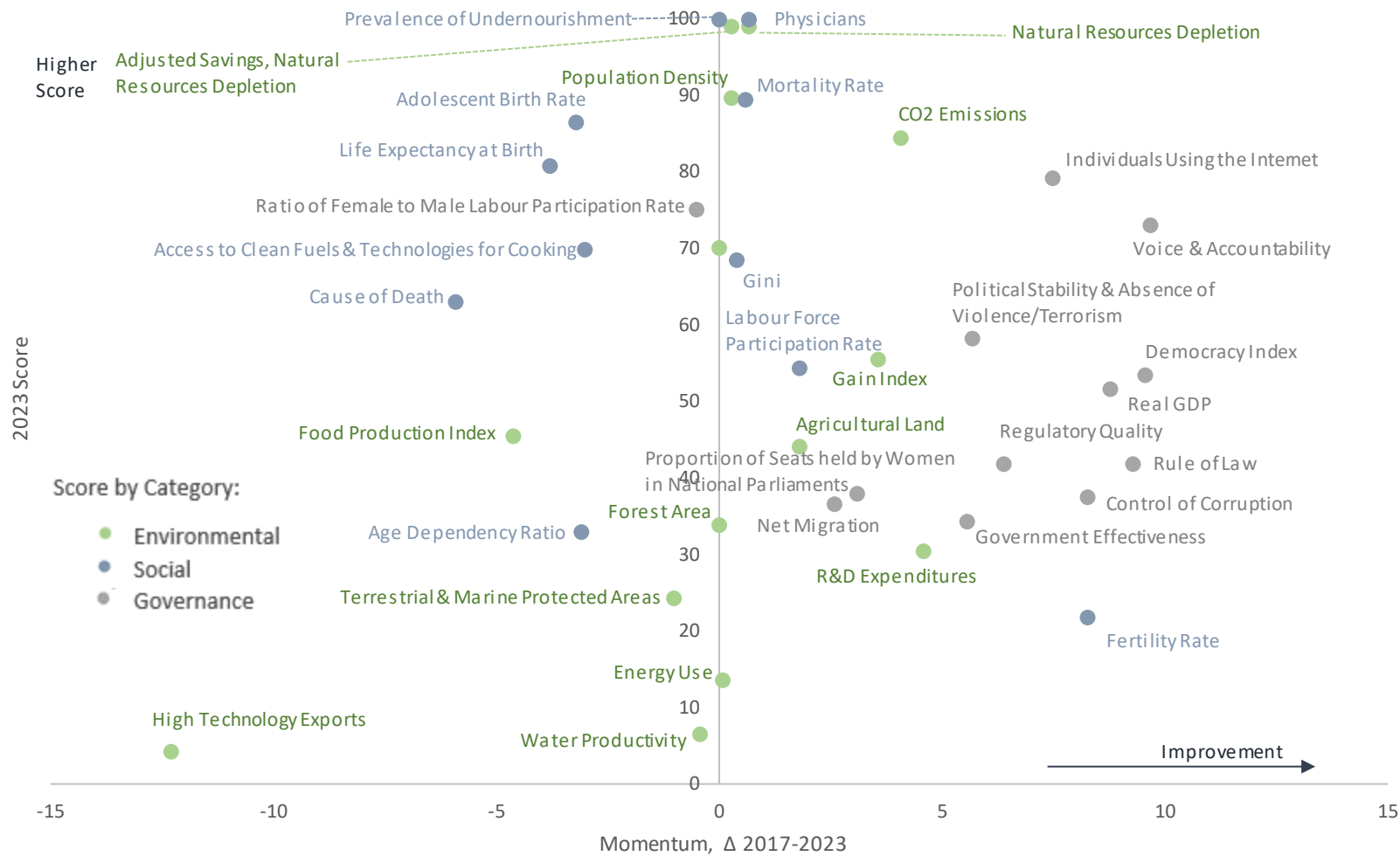
Greece’s Improving ESG Score (momentum Δ 2010-2023)





COUNTRY FOCUS: GREECE

Greece | Indicators



- Greece's strongest positive momentum is found on the Governance score with the Social score following.
- The S Sub-Factor attains high score, however with a negative momentum.
- The weakest position for Greece is the Environmental Sub-Factor as it attains not only the lowest score but also has a negative momentum.



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AUSTRIA

		Austria			
		2019 Actual	2019 Standardized	3 Year Change (2016-2019)	1 Year Change (2018-2019)
Environment	Adjusted Savings, Natural Resources Depletion: % of GNI	0.1	98.3	-0.3	0.4
	Forest Area: % of Land Area	47.2	63.2	0.2	0.1
	CO2 Emissions: KG per PPP \$ of GDP	0.12 (2019)	93.5	0.7	0.0
	PM2.5 Air Pollution: mean annual exposure micrograms per cubic meter	12.5 (2017)	81.6	0.1	0.1
	Global Adaptation Index (Gain Index)	70.5	82.3	0.2	-0.8
	Terrestrial & Marine Protected Areas: % of total territorial area	28.4	72.0	-0.2	0.0
	Agricultural Land: % of total land area	32.1	61.0	0.3	0.1
	Food Production Index: 2007=100	102.1	49.1	-2.7	-1.7
	Total Natural Resources Rents: % GDP	0.1	98.6	-0.1	0.4
	Population Density: People per sq.km of land area	107.6	86.4	0.0	0.0
	R&D Expenditure: % GDP	3.1	67.2	-9.0	-0.8
	High-Technology Exports: % of manufactured exports	11.5	15.1	-6.3	-0.4
	Water Productivity: constant prices 2015 US\$ GDP/M3 of fresh water withdrawal	118.7	43.4	0.5	0.2
	Energy Use: KG of Oil equivalent per \$1000 GDP, constant 2017 PPP	71.9 (2015)	10.4	0.1	0.0
Social	Unemployment Rate: % of total labour force, modeled ILO estimate	4.8	84.1	9.2	2.0
	Life Expectancy at birth: total in years	81.9	86.8	-0.2	0.5
	Adolescent Fertility Rate: births per 1000 women ages 15-19	5.5	93.5	2.6	0.2
	Mortality Rate under 5 years: per 1000 live births	3.6	92.2	-1.7	-0.2
	Prevalence of Undernourishment: % of population	2.5	100.0	0.0	0.0
	Labour Force Participation Rate: Total, % of total population ages 15-64, modeled ILO Estimate	76.9	81.2	2.8	0.8
	Fertility Rate: Total births per woman	1.5	23.6	3.4	1.8
	Age Dependency Ratio: % of working-age population	50.1	52.2	-1.4	-1.0
	Cause of death by communicable diseases & maternal, prenatal, nutrition conditions: % of total	3.6	96.8	-2.4	-0.8
	Access to Clean Fuels & Technologies for Cooking: % of population	100.0	100.0	0.0	0.0
	Gini Index	30.2	80.3	1.4	1.5
Governance	Physicians: per 1000 people	5.3	83.2	1.2	-0.1
	Control of Corruption: Estimate of Governance	1.6	74.7	0.5	-1.4
	Democracy Index	8.3	66.6	0.4	0.3
	Ratio of Female to Male Labor Participation Rate: %, modeled ILO Estimate	83.6	88.1	-0.7	0.5
	Proportion of Seats held by Women in National Parliaments: %	39.3	79.8	14.4	11.2
	Real GDP growth: annual %	1.5	45.5	-2.6	-5.0
	Government Effectiveness: Estimate of Governance	1.5	70.0	0.7	1.0
	Net Migration: % over total Population	0.5	58.7	-10.5	2.2
	Political Stability and Absence of Violence/Terrorism: Estimate of Governance	0.9	78.2	0.2	0.5
	Regulatory Quality: Estimate of Governance	1.5	74.4	0.6	-2.3
	Rule of Law: Estimate of Governance	1.9	93.4	3.7	0.4
	Voice & Accountability: Estimate of Governance	1.3	85.3	0.1	-1.6
Individuals using the Internet: % of population	87.8	89.4	2.8	-0.4	



BELGIUM

		Belgium			
		2019 Actual	2019 Standardized	3 Year Change (2016-2019)	1 Year Change (2018-2019)
Environment	Adjusted Savings, Natural Resources Depletion: % of GNI	0.0	99.8	0.0	0.0
	Forest Area: % of Land Area	22.8	20.9	0.0	0.0
	CO2 Emissions: KG per PPP \$ of GDP	0.1	89.9	2.3	1.1
	PM2.5 Air Pollution: mean annual exposure micrograms per cubic meter	12.9 (2017)	80.4	-0.3	0.1
	Global Adaptation Index (Gain Index)	62.4	61.2	-1.1	0.4
	Terrestrial & Marine Protected Areas: % of total territorial area	26.1	65.8	4.0	3.9
	Agricultural Land: % of total land area	44.8	45.1	-0.3	-0.1
	Food Production Index: 2007=100	108.1	59.4	5.9	4.1
	Total Natural Resources Rents: % GDP	0.0	99.7	-0.1	0.0
	Population Density: People per sq.km of land area	379.4	50.9	0.1	0.0
	R&D Expenditure: % GDP	3.2	67.9	6.6	5.0
	High-Technology Exports: % of manufactured exports	14.1	20.6	1.5	5.0
	Water Productivity: constant prices 2015 US\$ GDP/M3 of fresh water withdrawal	112.5	41.1	-1.8	0.4
	Energy Use: KG of Oil equivalent per \$1000 GDP, constant 2017 PPP	94.8 (2015)	23.1	0.1	-0.2
Social	Unemployment Rate: % of total labour force, modeled ILO estimate	5.4	81.0	13.8	3.1
	Life Expectancy at birth: total in years	82.0	87.3	1.4	1.5
	Adolescent Fertility Rate: births per 1000 women ages 15-19	5.3	93.8	1.2	0.3
	Mortality Rate under 5 years: per 1000 live births	4.1	88.9	-2.0	-0.4
	Prevalence of Undernourishment: % of population	2.5	100.0	0.0	0.0
	Labour Force Participation Rate: Total, % of total population ages 15-64, modeled ILO Estimate	69.1	55.6	5.6	1.4
	Fertility Rate: Total births per woman	1.6	29.7	2.7	1.2
	Age Dependency Ratio: % of working-age population	56.0	37.1	-0.4	-0.6
	Cause of death by communicable diseases & maternal, prenatal, nutrition conditions: % of total	7.9	81.1	-0.4	-0.1
	Access to Clean Fuels & Technologies for Cooking: % of population	100.0	100.0	0.0	0.0
	Gini Index	27.2	89.6	1.0	-0.1
	Physicians: per 1000 people	3.2	48.9	0.7	0.0
Governance	Control of Corruption: Estimate of Governance	1.5	72.8	-2.5	0.6
	Democracy Index	7.6	53.3	1.4	-2.5
	Ratio of Female to Male Labor Participation Rate: %, modeled ILO Estimate	84.3	89.4	4.8	0.8
	Proportion of Seats held by Women in National Parliaments: %	42.0	85.9	-1.2	9.1
	Real GDP growth: annual %	2.2	49.7	5.6	2.9
	Government Effectiveness: Estimate of Governance	1.1	57.4	-9.6	-4.0
	Net Migration: % over total Population	0.5	59.1	-1.0	-0.4
	Political Stability and Absence of Violence/Terrorism: Estimate of Governance	0.5	66.6	0.8	1.8
	Regulatory Quality: Estimate of Governance	1.3	69.0	-1.6	0.6
	Rule of Law: Estimate of Governance	1.4	75.7	-1.7	0.0
	Voice & Accountability: Estimate of Governance	1.3	84.3	-2.2	-0.4
	Individuals using the Internet: % of population	90.3	92.0	3.1	1.0



BRAZIL

		Brazil			
		2019 Actual	2019 Standardized	3 Year Change (2016-2019)	1 Year Change (2018-2019)
Environment	Adjusted Savings, Natural Resources Depletion: % of GNI	2.0	57.1	-23.7	0.0
	Forest Area: % of Land Area	59.6	84.6	-0.8	-0.2
	CO2 Emissions: KG per PPP \$ of GDP	0.1	91.7	1.1	0.2
	PM2.5 Air Pollution: mean annual exposure micrograms per cubic meter	12.7 (2017)	80.9	-0.4	0.1
	Global Adaptation Index (Gain Index)	47.9	23.4	-0.3	0.6
	Terrestrial & Marine Protected Areas: % of total territorial area	28.6	72.5	21.1	0.0
	Agricultural Land: % of total land area	28.3	65.7	-0.1	0.0
	Food Production Index: 2007=100	136.6	100.0	6.4	0.0
	Total Natural Resources Rents: % GDP	3.5	54.4	-16.6	1.7
	Population Density: People per sq.km of land area	25.3	97.1	-0.1	-0.1
	R&D Expenditure: % GDP	1.2	25.3	-5.5	0.2
	High-Technology Exports: % of manufactured exports	14.1	20.4	-4.1	-1.4
	Water Productivity: constant prices 2015 US\$ GDP/M3 of fresh water withdrawal	25.8	9.1	-0.6	-0.8
	Energy Use: KG of Oil equivalent per \$1000 GDP, constant 2017 PPP	94.9 (2014)	23.2	0.1	-0.2
Social	Unemployment Rate: % of total labour force, modeled ILO estimate	11.1	49.7	6.4	2.8
	Life Expectancy at birth: total in years	75.3	51.5	4.4	1.0
	Adolescent Fertility Rate: births per 1000 women ages 15-19	50.0	21.0	4.4	1.2
	Mortality Rate under 5 years: per 1000 live births	14.9	18.7	4.5	-0.5
	Prevalence of Undernourishment: % of population	2.6	83.3	-16.7	-16.7
	Labour Force Participation Rate: Total, % of total population ages 15-64, modeled ILO Estimate	70.9	61.7	5.0	2.0
	Fertility Rate: Total births per woman	1.7	34.2	5.9	0.0
	Age Dependency Ratio: % of working-age population	43.1	69.8	0.7	-0.5
	Cause of death by communicable diseases & maternal, prenatal, nutrition conditions: % of total	13.7	60.2	0.5	0.3
	Access to Clean Fuels & Technologies for Cooking: % of population	95.1	76.9	2.4	0.8
	Gini Index	53.5	8.8	-2.5	0.0
	Physicians: per 1000 people	2.3	35.3	3.1	0.8
	Governance	Control of Corruption: Estimate of Governance	-0.4	20.8	0.8
Democracy Index		6.9	37.4	4.8	-1.7
Ratio of Female to Male Labor Participation Rate: %, modeled ILO Estimate		73.7	70.6	4.7	1.7
Proportion of Seats held by Women in National Parliaments: %		15.0	24.4	10.4	0.0
Real GDP growth: annual %		1.2	43.8	25.1	-3.0
Government Effectiveness: Estimate of Governance		-0.2	12.9	0.4	9.6
Net Migration: % over total Population		0.0	43.3	-0.4	0.0
Political Stability and Absence of Violence/Terrorism: Estimate of Governance		-0.7	36.0	-8.6	-7.0
Regulatory Quality: Estimate of Governance		-0.1	24.3	2.3	5.5
Rule of Law: Estimate of Governance		-0.2	23.6	-0.7	2.7
Voice & Accountability: Estimate of Governance		0.3	52.1	-4.6	-2.2
Individuals using the Internet: % of population		73.9	75.3	12.9	3.1



CANADA

		Canada			
		2019 Actual	2019 Standardized	3 Year Change (2016-2019)	1 Year Change (2018-2019)
Environment	Adjusted Savings, Natural Resources Depletion: % of GNI	0.6	87.6	-7.7	0.6
	Forest Area: % of Land Area	38.7	48.5	0.0	0.0
	CO2 Emissions: KG per PPP \$ of GDP	0.3	64.0	1.7	-0.7
	PM2.5 Air Pollution: mean annual exposure micrograms per cubic meter	6.4 (2017)	100.0	0.0	0.0
	Global Adaptation Index (Gain Index)	67.9	75.5	-1.5	0.2
	Terrestrial & Marine Protected Areas: % of total territorial area	7.8	16.6	3.7	3.7
	Agricultural Land: % of total land area	6.5	93.0	-0.1	0.0
	Food Production Index: 2007=100	138.0	100.0	0.0	0.0
	Total Natural Resources Rents: % GDP	2.0	74.1	-16.5	0.7
	Population Density: People per sq.km of land area	4.2	99.9	0.0	0.0
	R&D Expenditure: % GDP	1.6	33.6	-8.1	-2.9
	High-Technology Exports: % of manufactured exports	16.1	24.6	4.0	1.4
	Water Productivity: constant prices 2015 US\$ GDP/M3 of fresh water withdrawal	46.8	16.8	0.3	0.1
Energy Use: KG of Oil equivalent per \$1000 GDP, constant 2017 PPP	160.6 (2015)	59.8	0.4	-0.4	
Social	Unemployment Rate: % of total labour force, modeled ILO estimate	5.7	79.2	7.5	0.6
	Life Expectancy at birth: total in years	82.0	87.6	-0.8	-0.6
	Adolescent Fertility Rate: births per 1000 women ages 15-19	6.9	91.2	1.7	-0.2
	Mortality Rate under 5 years: per 1000 live births	5.2	81.8	-1.8	-0.5
	Prevalence of Undernourishment: % of population	2.5	100.0	0.0	0.0
	Labour Force Participation Rate: Total, % of total population ages 15-64, modeled ILO Estimate	79.0	88.4	3.5	1.9
	Fertility Rate: Total births per woman	1.5	24.0	1.1	0.8
	Age Dependency Ratio: % of working-age population	50.5	51.1	-4.0	-1.7
	Cause of death by communicable diseases & maternal, prenatal, nutrition conditions: % of total	4.8	92.4	2.0	0.7
	Access to Clean Fuels & Technologies for Cooking: % of population	100.0	100.0	0.0	0.0
	Gini Index	32.5 (2018)	73.3	0.1	-0.3
	Physicians: per 1000 people	2.4	37.4	1.6	-0.2
	Governance	Control of Corruption: Estimate of Governance	1.8	80.6	-6.1
Democracy Index		9.2	85.5	2.9	1.5
Ratio of Female to Male Labor Participation Rate: %, modeled ILO Estimate		87.7	95.4	0.5	-0.7
Proportion of Seats held by Women in National Parliaments: %		29.0	56.2	2.1	4.6
Real GDP growth: annual %		1.9	47.7	5.1	-4.8
Government Effectiveness: Estimate of Governance		1.7	76.6	-1.6	0.4
Net Migration: % over total Population		1.0	79.4	5.6	-3.1
Political Stability and Absence of Violence/Terrorism: Estimate of Governance		1.0	80.8	-6.2	1.0
Regulatory Quality: Estimate of Governance		1.7	82.4	-1.0	0.3
Rule of Law: Estimate of Governance		1.8	88.4	-2.6	0.0
Voice & Accountability: Estimate of Governance		1.4	88.2	-0.6	-1.9
Individuals using the Internet: % of population		96.5	98.4	4.7	1.2



CHINA

		China			
		2019 Actual	2019 Standardized	3 Year Change (2016-2019)	1 Year Change (2018-2019)
Environment	Adjusted Savings, Natural Resources Depletion: % of GNI	0.7	85.9	-2.2	4.2
	Forest Area: % of Land Area	23.1	21.6	1.0	0.4
	CO2 Emissions: KG per PPP \$ of GDP	0.5	40.8	9.2	2.3
	PM2.5 Air Pollution: mean annual exposure micrograms per cubic meter	52.7 (2017)	0.0	0.0	0.0
	Global Adaptation Index (Gain Index)	56.8	46.7	11.0	8.7
	Terrestrial & Marine Protected Areas: % of total territorial area	5.4	10.0	4.4	0.0
	Agricultural Land: % of total land area	56.1	31.0	0.0	0.0
	Food Production Index: 2007=100	128.7	94.6	-5.4	-4.4
	Total Natural Resources Rents: % GDP	1.1	85.2	-2.0	3.8
	Population Density: People per sq.km of land area	149.4	80.9	0.0	0.0
	R&D Expenditure: % GDP	2.2	47.8	-3.1	1.0
	High-Technology Exports: % of manufactured exports	30.8	54.6	0.8	-1.5
	Water Productivity: constant prices 2015 US\$ GDP/M3 of fresh water withdrawal	24.2	8.4	1.1	0.4
	Energy Use: KG of Oil equivalent per \$1000 GDP, constant 2017 PPP	187.7 (2014)	74.9	0.5	-0.5
Social	Unemployment Rate: % of total labour force, modeled ILO estimate	3.6	90.6	2.3	0.9
	Life Expectancy at birth: total in years	78.0	65.7	3.2	0.9
	Adolescent Fertility Rate: births per 1000 women ages 15-19	12.9	81.4	1.8	-0.3
	Mortality Rate under 5 years: per 1000 live births	8.0	63.6	8.0	2.7
	Prevalence of Undernourishment: % of population	2.5	100.0	0.0	0.0
	Labour Force Participation Rate: Total, % of total population ages 15-64, modeled ILO Estimate	75.9	78.0	-0.5	-0.4
	Fertility Rate: Total births per woman	1.5	25.2	-6.0	-0.4
	Age Dependency Ratio: % of working-age population	43.4	69.1	-8.3	-2.6
	Cause of death by communicable diseases & maternal, prenatal, nutrition conditions: % of total	3.6	96.8	1.5	0.5
	Access to Clean Fuels & Technologies for Cooking: % of population	57.8	0.0	0.0	0.0
	Gini Index	38.2	55.8	0.0	0.3
Physicians: per 1000 people	2.2	33.9	5.4	1.7	
Governance	Control of Corruption: Estimate of Governance	-0.3	23.6	-1.4	-0.8
	Democracy Index	2.3	0.0	0.0	0.0
	Ratio of Female to Male Labor Participation Rate: %, modeled ILO Estimate	84.0	88.8	1.3	0.6
	Proportion of Seats held by Women in National Parliaments: %	24.9	47.0	-1.1	0.1
	Real GDP growth: annual %	6.0	71.3	-3.9	-4.1
	Government Effectiveness: Estimate of Governance	0.6	38.3	6.0	1.3
	Net Migration: % over total Population	0.0	41.4	-0.5	0.0
	Political Stability and Absence of Violence/Terrorism: Estimate of Governance	-0.3	47.7	6.2	1.1
	Regulatory Quality: Estimate of Governance	-0.3	18.5	0.3	-2.3
	Rule of Law: Estimate of Governance	-0.2	22.3	2.4	-2.3
	Voice & Accountability: Estimate of Governance	-1.6	0.0	0.0	0.0
Individuals using the Internet: % of population	64.1	65.2	10.8	4.6	



CYPRUS

		Cyprus			
		2019 Actual	2019 Standardized	3 Year Change (2016-2019)	1 Year Change (2018-2019)
Environment	Adjusted Savings, Natural Resources Depletion: % of GNI	0.0	100.0	0.0	0.0
	Forest Area: % of Land Area	18.7	13.9	0.0	0.0
	CO2 Emissions: KG per PPP \$ of GDP	0.2	83.6	6.2	2.0
	PM2.5 Air Pollution: mean annual exposure micrograms per cubic meter	17.3 (2017)	67.0	-1.1	0.1
	Global Adaptation Index (Gain Index)	58.0	49.7	1.6	0.7
	Terrestrial & Marine Protected Areas: % of total territorial area	3.4	4.5	4.5	4.5
	Agricultural Land: % of total land area	13.6	84.2	-2.2	0.9
	Food Production Index: 2007=100	91.6	31.3	13.6	5.3
	Total Natural Resources Rents: % GDP	0.0	100.0	0.0	0.0
	Population Density: People per sq.km of land area	133.0	83.1	-0.2	0.0
	R&D Expenditure: % GDP	0.7	14.4	2.7	1.6
	High-Technology Exports: % of manufactured exports	19.9	32.2	13.1	0.0
	Water Productivity: constant prices 2015 US\$ GDP/M3 of fresh water withdrawal	123.8	45.3	8.0	3.0
	Energy Use: KG of Oil equivalent per \$1000 GDP, constant 2017 PPP	69.6 (2014)	9.1	0.0	-0.1
Social	Unemployment Rate: % of total labour force, modeled ILO estimate	7.1	71.7	32.5	6.7
	Life Expectancy at birth: total in years	81.4	84.1	0.3	-0.5
	Adolescent Fertility Rate: births per 1000 women ages 15-19	7.0	91.1	-2.2	-0.2
	Mortality Rate under 5 years: per 1000 live births	2.8	97.4	-2.0	-0.1
	Prevalence of Undernourishment: % of population	2.5	100.0	0.0	0.0
	Labour Force Participation Rate: Total, % of total population ages 15-64, modeled ILO Estimate	74.8	74.6	9.5	2.6
	Fertility Rate: Total births per woman	1.3	18.0	5.5	2.8
	Age Dependency Ratio: % of working-age population	42.6	71.2	-4.6	-1.9
	Cause of death by communicable diseases & maternal, prenatal, nutrition conditions: % of total	4.8	92.4	-1.0	-0.3
	Access to Clean Fuels & Technologies for Cooking: % of population	100.0	100.0	0.0	0.0
	Gini Index	31.2	77.3	4.7	4.3
Governance	Physicians: per 1000 people	3.1	48.8	18.9	2.1
	Control of Corruption: Estimate of Governance	0.6	49.2	-5.2	-0.2
	Democracy Index	7.6	52.3	3.0	0.4
	Ratio of Female to Male Labor Participation Rate: %, modeled ILO Estimate	83.4	87.9	-2.5	-2.0
	Proportion of Seats held by Women in National Parliaments: %	17.9	30.9	-2.8	0.0
	Real GDP growth: annual %	5.5	68.9	-4.8	-0.2
	Government Effectiveness: Estimate of Governance	1.0	52.5	1.0	2.7
	Net Migration: % over total Population	0.4	56.6	-0.2	-0.2
	Political Stability and Absence of Violence/Terrorism: Estimate of Governance	0.6	68.9	-1.0	1.8
	Regulatory Quality: Estimate of Governance	1.0	60.1	-1.2	4.5
	Rule of Law: Estimate of Governance	0.8	55.1	0.9	0.0
	Voice & Accountability: Estimate of Governance	1.1	76.0	0.1	1.2
	Individuals using the Internet: % of population	86.1	87.7	9.8	1.0



DENMARK

		Denmark			
		2019 Actual	2019 Standardized	3 Year Change (2016-2019)	1 Year Change (2018-2019)
Environment	Adjusted Savings, Natural Resources Depletion: % of GNI	0.4	91.6	-2.5	2.5
	Forest Area: % of Land Area	15.7	8.7	0.1	0.0
	CO2 Emissions: KG per PPP \$ of GDP	0.1	99.4	3.6	1.9
	PM2.5 Air Pollution: mean annual exposure micrograms per cubic meter	10.0 (2017)	89.1	0.0	0.1
	Global Adaptation Index (Gain Index)	70.8	83.1	-0.4	-0.4
	Terrestrial & Marine Protected Areas: % of total territorial area	17.9	43.7	0.1	0.1
	Agricultural Land: % of total land area	65.7	19.1	0.0	0.2
	Food Production Index: 2007=100	103.5	51.5	1.8	13.0
	Total Natural Resources Rents: % GDP	0.5	93.6	-2.0	1.6
	Population Density: People per sq.km of land area	145.4	81.5	0.0	0.1
	R&D Expenditure: % GDP	2.9	62.0	-13.4	-3.3
	High-Technology Exports: % of manufactured exports	12.0	16.3	-5.9	-0.6
	Water Productivity: constant prices 2015 US\$ GDP/M3 of fresh water withdrawal	360.6	100.0	0.0	0.0
	Energy Use: KG of Oil equivalent per \$1000 GDP, constant 2017 PPP	53.2 (2015)	0.0	0.0	0.0
Social	Unemployment Rate: % of total labour force, modeled ILO estimate	5.0	83.1	5.6	0.6
	Life Expectancy at birth: total in years	81.5	84.4	1.8	2.1
	Adolescent Fertility Rate: births per 1000 women ages 15-19	2.1	99.0	2.0	0.5
	Mortality Rate under 5 years: per 1000 live births	3.8	90.9	-0.6	0.4
	Prevalence of Undernourishment: % of population	2.5	100.0	0.0	0.0
	Labour Force Participation Rate: Total, % of total population ages 15-64, modeled ILO Estimate	79.0	88.3	5.7	2.7
	Fertility Rate: Total births per woman	1.7	34.0	2.0	0.6
	Age Dependency Ratio: % of working-age population	56.7	35.2	0.7	-0.2
	Cause of death by communicable diseases & maternal, prenatal, nutrition conditions: % of total	6.8	85.0	-1.5	-0.5
	Access to Clean Fuels & Technologies for Cooking: % of population	100.0	100.0	0.0	0.0
	Gini Index	27.7	88.0	1.2	1.3
Physicians: per 1000 people	4.2 (2018)	66.3	2.6	-0.9	
Governance	Control of Corruption: Estimate of Governance	2.2	91.7	-2.5	-0.8
	Democracy Index	9.2	85.5	1.7	0.1
	Ratio of Female to Male Labor Participation Rate: %, modeled ILO Estimate	86.7	93.8	-1.5	-0.4
	Proportion of Seats held by Women in National Parliaments: %	39.1	79.3	-3.1	3.8
	Real GDP growth: annual %	1.5	45.4	-9.7	-2.6
	Government Effectiveness: Estimate of Governance	1.9	82.5	1.6	2.0
	Net Migration: % over total Population	0.4	56.5	0.0	-0.1
	Political Stability and Absence of Violence/Terrorism: Estimate of Governance	1.0	80.3	3.4	1.3
	Regulatory Quality: Estimate of Governance	1.6	77.6	-0.4	-2.6
	Rule of Law: Estimate of Governance	1.9	92.4	-1.3	2.0
	Voice & Accountability: Estimate of Governance	1.6	92.0	0.3	-0.3
Individuals using the Internet: % of population	98.0	100.0	0.3	0.0	



FRANCE

		France			
		2019 Actual	2019 Standardized	3 Year Change (2016-2019)	1 Year Change (2018-2019)
Environment	Adjusted Savings, Natural Resources Depletion: % of GNI	0.0	99.8	-0.2	0.0
	Forest Area: % of Land Area	31.4	35.8	0.8	0.3
	CO2 Emissions: KG per PPP \$ of GDP	0.1	98.9	1.7	1.2
	PM2.5 Air Pollution: mean annual exposure micrograms per cubic meter	11.8 (2017)	83.7	0.0	0.1
	Global Adaptation Index (Gain Index)	67.9	75.5	2.1	1.9
	Terrestrial & Marine Protected Areas: % of total territorial area	35.0	89.9	24.1	4.9
	Agricultural Land: % of total land area	52.3	35.8	0.2	0.1
	Food Production Index: 2007=100	103.0	50.6	3.9	0.8
	Total Natural Resources Rents: % GDP	0.0	99.6	0.1	0.1
	Population Density: People per sq.km of land area	123.1	84.4	0.1	0.0
	R&D Expenditure: % GDP	2.2	46.7	-7.1	-1.4
	High-Technology Exports: % of manufactured exports	26.9	46.6	-2.5	2.0
	Water Productivity: constant prices 2015 US\$ GDP/M3 of fresh water withdrawal	97.5	35.5	-0.3	0.2
	Energy Use: KG of Oil equivalent per \$1000 GDP, constant 2017 PPP	85.2 (2015)	17.8	0.1	-0.1
	Social	Unemployment Rate: % of total labour force, modeled ILO estimate	8.4	64.4	9.4
Life Expectancy at birth: total in years		82.8	91.8	-0.4	0.1
Adolescent Fertility Rate: births per 1000 women ages 15-19		9.7	86.7	-4.3	-3.0
Mortality Rate under 5 years: per 1000 live births		4.3	87.6	-2.7	-0.4
Prevalence of Undernourishment: % of population		2.5	100.0	0.0	0.0
Labour Force Participation Rate: Total, % of total population ages 15-64, modeled ILO Estimate		71.8	64.7	2.2	-0.6
Fertility Rate: Total births per woman		1.9	41.0	3.1	1.4
Age Dependency Ratio: % of working-age population		62.3	21.0	-0.8	-0.6
Cause of death by communicable diseases & maternal, prenatal, nutrition conditions: % of total		6.4	86.7	0.4	0.2
Access to Clean Fuels & Technologies for Cooking: % of population		100.0	100.0	0.0	0.0
Gini Index		31.2	77.3	1.7	3.4
Physicians: per 1000 people		3.3	50.9	0.1	-0.1
Governance	Control of Corruption: Estimate of Governance	1.3	67.2	-2.2	-0.9
	Democracy Index	8.1	63.1	7.8	6.9
	Ratio of Female to Male Labor Participation Rate: %, modeled ILO Estimate	85.9	92.3	1.0	0.9
	Proportion of Seats held by Women in National Parliaments: %	39.7	80.6	26.2	0.2
	Real GDP growth: annual %	1.9	47.6	5.1	0.6
	Government Effectiveness: Estimate of Governance	1.4	65.0	-1.3	-2.7
	Net Migration: % over total Population	0.0	43.1	0.0	0.2
	Political Stability and Absence of Violence/Terrorism: Estimate of Governance	0.3	62.2	10.4	7.0
	Regulatory Quality: Estimate of Governance	1.4	73.8	11.8	9.3
	Rule of Law: Estimate of Governance	1.4	76.7	0.6	-1.0
	Voice & Accountability: Estimate of Governance	1.1	78.3	-0.5	-0.9
	Individuals using the Internet: % of population	83.3	84.9	3.5	0.7



GERMANY

		Germany			
		2019 Actual	2019 Standardized	3 Year Change (2016-2019)	1 Year Change (2018-2019)
Environment	Adjusted Savings, Natural Resources Depletion: % of GNI	0.1	98.9	-0.7	-0.5
	Forest Area: % of Land Area	32.7	38.1	0.0	0.0
	CO2 Emissions: KG per PPP \$ of GDP	0.1	91.0	4.7	2.1
	PM2.5 Air Pollution: mean annual exposure micrograms per cubic meter	12.0 (2017)	83.0	-0.5	0.1
	Global Adaptation Index (Gain Index)	70.1	81.3	-0.7	-0.3
	Terrestrial & Marine Protected Areas: % of total territorial area	38.5	99.1	-0.9	-0.9
	Agricultural Land: % of total land area	47.7	41.5	0.0	-0.1
	Food Production Index: 2007=100	102.0	49.0	-10.1	3.2
	Total Natural Resources Rents: % GDP	0.1	98.8	-0.5	-0.1
	Population Density: People per sq.km of land area	237.8	69.4	0.2	0.1
	R&D Expenditure: % GDP	3.2	68.1	-3.6	-0.4
	High-Technology Exports: % of manufactured exports	16.4	25.1	-3.7	1.3
	Water Productivity: constant prices 2015 US\$ GDP/M3 of fresh water withdrawal	147.1	53.9	-0.2	-0.1
	Energy Use: KG of Oil equivalent per \$1000 GDP, constant 2017 PPP	74.6 (2015)	11.9	0.1	-0.1
Social	Unemployment Rate: % of total labour force, modeled ILO estimate	3.0	94.1	5.2	1.2
	Life Expectancy at birth: total in years	81.3	83.5	0.1	1.5
	Adolescent Fertility Rate: births per 1000 women ages 15-19	7.5	90.2	2.1	0.3
	Mortality Rate under 5 years: per 1000 live births	3.7	91.5	-0.6	0.3
	Prevalence of Undernourishment: % of population	2.5	100.0	0.0	0.0
	Labour Force Participation Rate: Total, % of total population ages 15-64, modeled ILO Estimate	79.1	88.5	4.6	1.9
	Fertility Rate: Total births per woman	1.5	27.1	3.7	0.8
	Age Dependency Ratio: % of working-age population	54.7	40.2	-3.5	-1.8
	Cause of death by communicable diseases & maternal, prenatal, nutrition conditions: % of total	4.8	92.5	0.6	0.2
	Access to Clean Fuels & Technologies for Cooking: % of population	100.0	100.0	0.0	0.0
Governance	Gini Index	31.7	75.7	-1.4	-0.1
	Physicians: per 1000 people	4.4	68.7	1.9	0.3
	Control of Corruption: Estimate of Governance	1.9	84.4	2.2	-0.9
	Democracy Index	8.7	74.5	3.4	0.2
	Ratio of Female to Male Labor Participation Rate: %, modeled ILO Estimate	83.9	88.7	0.2	0.3
	Proportion of Seats held by Women in National Parliaments: %	30.9	60.6	-19.4	0.3
	Real GDP growth: annual %	1.1	42.8	-6.7	0.6
	Government Effectiveness: Estimate of Governance	1.5	70.0	-5.6	-1.3
	Net Migration: % over total Population	0.4	57.7	-3.2	-1.4
	Political Stability and Absence of Violence/Terrorism: Estimate of Governance	0.6	69.2	-2.8	-0.5
	Regulatory Quality: Estimate of Governance	1.7	82.7	-2.9	-1.3
	Rule of Law: Estimate of Governance	1.6	83.7	0.0	-0.4
	Voice & Accountability: Estimate of Governance	1.4	85.9	0.0	-2.3
Individuals using the Internet: % of population	88.1	89.8	3.4	0.4	



GREECE

		Greece			
		2019 Actual	2019 Standardized	3 Year Change (2016-2019)	1 Year Change (2018-2019)
Environment	Adjusted Savings, Natural Resources Depletion: % of GNI	0.1	98.9	-0.1	0.6
	Forest Area: % of Land Area	30.3	33.9	0.0	0.0
	CO2 Emissions: KG per PPP \$ of GDP	0.2	84.4	5.3	3.1
	PM2.5 Air Pollution: mean annual exposure micrograms per cubic meter	16.2 (2017)	70.3	0.3	0.2
	Global Adaptation Index (Gain Index)	59.8	54.5	2.6	1.1
	Terrestrial & Marine Protected Areas: % of total territorial area	11.0	25.2	6.7	0.0
	Agricultural Land: % of total land area	45.5	44.2	2.6	0.7
	Food Production Index: 2007=100	98.1	42.4	-6.7	-4.7
	Total Natural Resources Rents: % GDP	0.1	99.1	0.2	0.5
	Population Density: People per sq.km of land area	83.2	89.6	0.2	0.1
	R&D Expenditure: % GDP	1.3	26.9	3.1	0.9
	High-Technology Exports: % of manufactured exports	12.5	17.2	-2.6	-0.9
	Water Productivity: constant prices 2015 US\$ GDP/M3 of fresh water withdrawal	20.2	7.0	0.0	0.1
	Energy Use: KG of Oil equivalent per \$1000 GDP, constant 2017 PPP	77.2 (2015)	13.4	0.1	0.0
Social	Unemployment Rate: % of total labour force, modeled ILO estimate	17.3	15.7	15.7	10.0
	Life Expectancy at birth: total in years	81.6	85.4	-0.2	-1.4
	Adolescent Fertility Rate: births per 1000 women ages 15-19	8.3	88.9	-0.7	-0.7
	Mortality Rate under 5 years: per 1000 live births	4.0	89.6	0.6	1.0
	Prevalence of Undernourishment: % of population	2.5	100.0	0.0	0.0
	Labour Force Participation Rate: Total, % of total population ages 15-64, modeled ILO Estimate	68.7	54.4	2.4	1.0
	Fertility Rate: Total births per woman	1.3	18.4	5.0	1.9
	Age Dependency Ratio: % of working-age population	56.6	35.4	-0.6	-0.6
	Cause of death by communicable diseases & maternal, prenatal, nutrition conditions: % of total	12.9	63.3	-8.5	-2.7
	Access to Clean Fuels & Technologies for Cooking: % of population	94.2	72.8	-0.4	-0.2
	Gini Index	33.1	71.4	5.1	-1.0
Governance	Physicians: per 1000 people	6.3	100.0	0.0	0.0
	Control of Corruption: Estimate of Governance	0.0	32.8	4.2	2.0
	Democracy Index	7.4	49.0	9.1	3.3
	Ratio of Female to Male Labor Participation Rate: %, modeled ILO Estimate	76.0	74.7	-1.9	0.6
	Proportion of Seats held by Women in National Parliaments: %	20.7	37.3	-0.9	4.6
	Real GDP growth: annual %	1.9	47.6	13.3	1.5
	Government Effectiveness: Estimate of Governance	0.3	31.0	5.9	1.6
	Net Migration: % over total Population	-0.2	35.0	1.7	0.7
	Political Stability and Absence of Violence/Terrorism: Estimate of Governance	0.2	59.1	7.8	0.3
	Regulatory Quality: Estimate of Governance	0.5	44.7	12.4	3.8
	Rule of Law: Estimate of Governance	0.2	36.2	1.6	1.6
	Voice & Accountability: Estimate of Governance	0.8	68.4	4.7	2.6
Individuals using the Internet: % of population	75.7	77.1	6.3	3.0	



INDIA

		India			
		2019 Actual	2019 Standardized	3 Year Change (2016-2019)	1 Year Change (2018-2019)
Environment	Adjusted Savings, Natural Resources Depletion: % of GNI	0.9	81.4	-2.0	2.9
	Forest Area: % of Land Area	24.2	23.4	0.5	0.2
	CO2 Emissions: KG per PPP \$ of GDP	0.3	72.1	2.2	1.1
	PM2.5 Air Pollution: mean annual exposure micrograms per cubic meter	90.9 (2017)	0.0	0.0	0.0
	Global Adaptation Index (Gain Index)	42.8	10.2	6.2	2.4
	Terrestrial & Marine Protected Areas: % of total territorial area	3.5	4.8	0.0	0.0
	Agricultural Land: % of total land area	60.2	25.8	0.2	0.0
	Food Production Index: 2007=100	144.4	100.0	0.0	0.0
	Total Natural Resources Rents: % GDP	2.0	74.1	-5.0	2.4
	Population Density: People per sq.km of land area	465.2	39.7	-1.0	-0.3
	R&D Expenditure: % GDP	0.66 (2018)	13.3	-2.1	-0.3
	High-Technology Exports: % of manufactured exports	10.2	12.6	5.2	2.5
	Water Productivity: constant prices 2015 US\$ GDP/M3 of fresh water withdrawal	4.1	1.0	0.1	0.0
	Energy Use: KG of Oil equivalent per \$1000 GDP, constant 2017 PPP	124.4 (2014)	39.7	0.3	-0.2
Social	Unemployment Rate: % of total labour force, modeled ILO estimate	6.5	74.8	7.5	6.0
	Life Expectancy at birth: total in years	70.9	27.8	4.7	1.2
	Adolescent Fertility Rate: births per 1000 women ages 15-19	17.7	73.6	1.0	1.1
	Mortality Rate under 5 years: per 1000 live births	34.3	0.0	0.0	0.0
	Prevalence of Undernourishment: % of population	14.6	0.0	0.0	0.0
	Labour Force Participation Rate: Total, % of total population ages 15-64, modeled ILO Estimate	52.1	0.0	0.0	0.0
	Fertility Rate: Total births per woman	2.1	51.9	-2.0	-1.3
	Age Dependency Ratio: % of working-age population	49.4	53.9	7.2	1.7
	Cause of death by communicable diseases & maternal, prenatal, nutrition conditions: % of total	24.2	22.4	9.4	3.4
	Access to Clean Fuels & Technologies for Cooking: % of population	38.8	0.0	0.0	0.0
	Gini Index	35.7	63.4	-3.5	-3.9
Governance	Physicians: per 1000 people	0.7	9.3	-	0.2
	Control of Corruption: Estimate of Governance	-0.3	23.9	0.8	-1.9
	Democracy Index	6.9	38.2	-14.6	-6.2
	Ratio of Female to Male Labor Participation Rate: %, modeled ILO Estimate	32.2	0.0	0.0	0.0
	Proportion of Seats held by Women in National Parliaments: %	14.4	23.0	3.9	5.9
	Real GDP growth: annual %	3.9	59.2	-23.9	-14.5
	Government Effectiveness: Estimate of Governance	0.2	25.1	2.3	-4.6
	Net Migration: % over total Population	0.0	40.6	-1.9	-0.1
	Political Stability and Absence of Violence/Terrorism: Estimate of Governance	-0.8	34.5	4.7	5.7
	Regulatory Quality: Estimate of Governance	-0.1	23.3	5.1	2.2
	Rule of Law: Estimate of Governance	0.0	28.9	0.0	-2.0
Voice & Accountability: Estimate of Governance	0.3	51.1	-5.2	-2.6	
Individuals using the Internet: % of population	29.4	29.6	13.1	9.4	



INDONESIA

		Indonesia			
		2019 Actual	2019 Standardized	3 Year Change (2016-2019)	1 Year Change (2018-2019)
Environment	Adjusted Savings, Natural Resources Depletion: % of GNI	2.1	55.4	-17.5	7.3
	Forest Area: % of Land Area	49.4	67.0	-2.3	-0.5
	CO2 Emissions: KG per PPP \$ of GDP	0.2	83.5	-3.3	-0.8
	PM2.5 Air Pollution: mean annual exposure micrograms per cubic meter	16.5 (2017)	69.4	-0.5	0.1
	Global Adaptation Index (Gain Index)	46.5	19.7	4.3	0.3
	Terrestrial & Marine Protected Areas: % of total territorial area	5.3	9.6	0.5	0.0
	Agricultural Land: % of total land area	33.2	59.7	-1.4	0.0
	Food Production Index: 2007=100	128.5	94.3	22.4	-5.7
	Total Natural Resources Rents: % GDP	3.4	56.1	-12.3	10.9
	Population Density: People per sq.km of land area	143.6	81.7	-0.3	-0.1
	R&D Expenditure: % GDP	0.3	4.8	-0.2	0.8
	High-Technology Exports: % of manufactured exports	8.1	8.2	0.1	-0.2
	Water Productivity: constant prices 2015 US\$ GDP/M3 of fresh water withdrawal	4.7	1.3	0.2	0.1
	Energy Use: KG of Oil equivalent per \$1000 GDP, constant 2017 PPP	90.2 (2014)	20.6	0.2	-0.1
Social	Unemployment Rate: % of total labour force, modeled ILO estimate	5.2	82.1	2.5	0.2
	Life Expectancy at birth: total in years	70.5	25.7	4.4	1.1
	Adolescent Fertility Rate: births per 1000 women ages 15-19	34.9	45.6	-2.5	-2.2
	Mortality Rate under 5 years: per 1000 live births	23.8	0.0	0.0	0.0
	Prevalence of Undernourishment: % of population	6.2	0.0	0.0	0.0
	Labour Force Participation Rate: Total, % of total population ages 15-64, modeled ILO Estimate	70.2	59.3	7.2	1.8
	Fertility Rate: Total births per woman	2.2	56.5	1.0	0.8
	Age Dependency Ratio: % of working-age population	48.3	56.7	3.5	0.5
	Cause of death by communicable diseases & maternal, prenatal, nutrition conditions: % of total	18.9	41.3	6.7	2.4
	Access to Clean Fuels & Technologies for Cooking: % of population	54.2	0.0	0.0	0.0
	Gini Index	37.6	57.6	4.2	1.8
	Physicians: per 1000 people	0.5	5.4	2.3	0.6
Governance	Control of Corruption: Estimate of Governance	-0.5	19.2	-0.2	-4.7
	Democracy Index	6.5	29.7	-4.4	2.5
	Ratio of Female to Male Labor Participation Rate: %, modeled ILO Estimate	65.3	55.6	4.7	1.4
	Proportion of Seats held by Women in National Parliaments: %	17.4	29.8	-2.1	-5.6
	Real GDP growth: annual %	5.0	65.9	0.8	-0.4
	Government Effectiveness: Estimate of Governance	0.2	25.4	6.3	-0.3
	Net Migration: % over total Population	0.0	41.6	-0.2	0.0
	Political Stability and Absence of Violence/Terrorism: Estimate of Governance	-0.5	41.7	-3.1	1.5
	Regulatory Quality: Estimate of Governance	0.0	29.1	1.9	1.6
	Rule of Law: Estimate of Governance	-0.3	19.6	0.0	-1.0
	Voice & Accountability: Estimate of Governance	0.1	46.6	-1.1	-0.7
	Individuals using the Internet: % of population	47.7	48.4	22.6	7.7



ITALY

		Italy			
		2019 Actual	2019 Standardized	3 Year Change (2016-2019)	1 Year Change (2018-2019)
Environment	Adjusted Savings, Natural Resources Depletion: % of GNI	0.1	98.7	-0.7	0.4
	Forest Area: % of Land Area	32.2	37.2	0.9	0.3
	CO2 Emissions: KG per PPP \$ of GDP	0.1	94.5	1.7	1.0
	PM2.5 Air Pollution: mean annual exposure micrograms per cubic meter	16.75 (2017)	68.7	-0.8	0.2
	Global Adaptation Index (Gain Index)	60.1	55.2	1.9	0.6
	Terrestrial & Marine Protected Areas: % of total territorial area	13.3	31.4	-0.1	-0.1
	Agricultural Land: % of total land area	44.4	45.7	-1.3	-3.0
	Food Production Index: 2007=100	90.2	28.8	-4.3	-1.5
	Total Natural Resources Rents: % GDP	0.1	98.8	-0.6	0.2
	Population Density: People per sq.km of land area	202.0	74.1	0.8	0.5
	R&D Expenditure: % GDP	1.5	30.8	-2.0	0.2
	High-Technology Exports: % of manufactured exports	7.8	7.5	-1.2	0.5
	Water Productivity: constant prices 2015 US\$ GDP/M3 of fresh water withdrawal	56.3	20.3	-0.4	-0.2
	Energy Use: KG of Oil equivalent per \$1000 GDP, constant 2017 PPP	61.7 (2015)	4.7	0.0	0.0
Social	Unemployment Rate: % of total labour force, modeled ILO estimate	9.9	56.3	10.3	3.6
	Life Expectancy at birth: total in years	83.5	95.4	-0.5	0.1
	Adolescent Fertility Rate: births per 1000 women ages 15-19	3.9	96.1	1.1	0.2
	Mortality Rate under 5 years: per 1000 live births	3.0	96.1	1.0	1.1
	Prevalence of Undernourishment: % of population	2.5	100.0	0.0	0.0
	Labour Force Participation Rate: Total, % of total population ages 15-64, modeled ILO Estimate	65.8	45.0	4.3	0.4
	Fertility Rate: Total births per woman	1.3	15.3	3.7	1.4
	Age Dependency Ratio: % of working-age population	56.6	35.6	1.6	-0.1
	Cause of death by communicable diseases & maternal, prenatal, nutrition conditions: % of total	5.5	89.8	-1.2	-0.4
	Access to Clean Fuels & Technologies for Cooking: % of population	100.0	100.0	0.0	0.0
	Gini Index	34.6	66.8	1.1	1.3
Governance	Physicians: per 1000 people	4.0	62.6	-0.2	-0.3
	Control of Corruption: Estimate of Governance	0.3	38.9	4.2	0.6
	Democracy Index	7.5	50.9	-5.7	-3.4
	Ratio of Female to Male Labor Participation Rate: %, modeled ILO Estimate	69.7	63.5	2.1	1.1
	Proportion of Seats held by Women in National Parliaments: %	35.7	71.5	5.2	0.0
	Real GDP growth: annual %	0.5	39.5	-4.7	-2.3
	Government Effectiveness: Estimate of Governance	0.5	35.6	-3.3	1.3
	Net Migration: % over total Population	0.0	43.4	-1.8	-3.3
	Political Stability and Absence of Violence/Terrorism: Estimate of Governance	0.4	64.8	0.8	1.6
	Regulatory Quality: Estimate of Governance	1.0	58.1	7.6	7.3
	Rule of Law: Estimate of Governance	0.3	40.2	-3.0	1.3
Voice & Accountability: Estimate of Governance	0.9	71.6	-3.7	-1.2	
Individuals using the Internet: % of population	67.9	69.0	6.2	-7.3	



JAPAN

		Japan			
		2019 Actual	2019 Standardized	3 Year Change (2016-2019)	1 Year Change (2018-2019)
Environment	Adjusted Savings, Natural Resources Depletion: % of GNI	0.0	99.4	-0.4	-0.4
	Forest Area: % of Land Area	68.4	99.9	0.0	0.0
	CO2 Emissions: KG per PPP \$ of GDP	0.2	81.0	2.0	0.4
	PM2.5 Air Pollution: mean annual exposure micrograms per cubic meter	11.7 (2017)	84.0	-0.5	0.1
	Global Adaptation Index (Gain Index)	65.6	69.6	0.3	-0.3
	Terrestrial & Marine Protected Areas: % of total territorial area	10.0	22.5	21.4	0.0
	Agricultural Land: % of total land area	12.1	86.1	0.3	0.1
	Food Production Index: 2007=100	101.4	47.9	0.7	0.8
	Total Natural Resources Rents: % GDP	0.1	98.8	-1.0	-0.8
	Population Density: People per sq.km of land area	347.4	55.1	0.9	0.3
	R&D Expenditure: % GDP	3.2	68.8	-7.1	-2.1
	High-Technology Exports: % of manufactured exports	17.0	26.4	-1.4	-0.5
	Water Productivity: constant prices 2015 US\$ GDP/M3 of fresh water withdrawal	57.8	20.9	-0.4	-0.3
	Energy Use: KG of Oil equivalent per \$1000 GDP, constant 2017 PPP	84.86 (2015)	17.6	0.1	-0.1
Social	Unemployment Rate: % of total labour force, modeled ILO estimate	2.4	97.5	4.1	0.4
	Life Expectancy at birth: total in years	84.4	100.0	0.0	0.0
	Adolescent Fertility Rate: births per 1000 women ages 15-19	2.8	97.9	1.2	0.2
	Mortality Rate under 5 years: per 1000 live births	2.5	99.3	-0.1	-0.1
	Prevalence of Undernourishment: % of population	2.8	50.0	-50.0	-50.0
	Labour Force Participation Rate: Total, % of total population ages 15-64, modeled ILO Estimate	79.8	90.9	9.6	2.5
	Fertility Rate: Total births per woman	1.4	19.2	3.1	-0.4
	Age Dependency Ratio: % of working-age population	70.5	0.0	0.0	0.0
	Cause of death by communicable diseases & maternal, prenatal, nutrition conditions: % of total	10.3	72.5	7.1	2.5
	Access to Clean Fuels & Technologies for Cooking: % of population	100.0	100.0	0.0	0.0
	Gini Index	32.9 (2013)	72.0	-0.6	-0.4
Physicians: per 1000 people	2.48 (2018)	38.0	0.5	-0.5	
Governance	Control of Corruption: Estimate of Governance	1.5	72.2	-1.7	1.1
	Democracy Index	8.0	60.4	3.6	0.3
	Ratio of Female to Male Labor Participation Rate: %, modeled ILO Estimate	74.7	72.3	5.4	1.9
	Proportion of Seats held by Women in National Parliaments: %	10.1	13.2	0.3	0.0
	Real GDP growth: annual %	-0.4	34.3	-6.9	-5.9
	Government Effectiveness: Estimate of Governance	1.6	71.9	-7.6	-3.0
	Net Migration: % over total Population	0.1	47.3	0.6	0.1
	Political Stability and Absence of Violence/Terrorism: Estimate of Governance	1.0	81.1	1.3	-0.5
	Regulatory Quality: Estimate of Governance	1.3	70.3	-2.9	-0.3
	Rule of Law: Estimate of Governance	1.5	81.1	4.0	0.0
	Voice & Accountability: Estimate of Governance	0.9	72.2	-1.5	-1.6
Individuals using the Internet: % of population	92.7	94.5	-1.2	3.4	



MEXICO

		Mexico			
		2019 Actual	2019 Standardized	3 Year Change (2016-2019)	1 Year Change (2018-2019)
Environment	Adjusted Savings, Natural Resources Depletion: % of GNI	1.8	60.8	-10.9	10.0
	Forest Area: % of Land Area	33.9	40.1	-0.4	-0.1
	CO2 Emissions: KG per PPP \$ of GDP	0.2	84.7	1.5	-0.7
	PM2.5 Air Pollution: mean annual exposure micrograms per cubic meter	20.9 (2017)	56.0	-0.6	0.2
	Global Adaptation Index (Gain Index)	47.6	22.8	-1.1	-1.5
	Terrestrial & Marine Protected Areas: % of total territorial area	18.9	46.4	32.7	-0.4
	Agricultural Land: % of total land area	49.4	39.3	1.4	0.2
	Food Production Index: 2007=100	130.6	97.9	9.3	2.1
	Total Natural Resources Rents: % GDP	2.3	69.7	-6.4	7.0
	Population Density: People per sq.km of land area	64.3	92.0	-0.2	-0.1
	R&D Expenditure: % GDP	0.3	5.0	-3.4	-0.8
	High-Technology Exports: % of manufactured exports	20.4	33.3	-0.8	-1.0
	Water Productivity: constant prices 2015 US\$ GDP/M3 of fresh water withdrawal	14.0	4.7	-0.2	-0.1
	Energy Use: KG of Oil equivalent per \$1000 GDP, constant 2017 PPP	79.8 (2015)	14.8	0.1	-0.1
Social	Unemployment Rate: % of total labour force, modeled ILO estimate	3.5	91.3	2.2	-1.0
	Life Expectancy at birth: total in years	74.2	45.4	-1.5	0.8
	Adolescent Fertility Rate: births per 1000 women ages 15-19	58.4	7.3	1.0	-0.4
	Mortality Rate under 5 years: per 1000 live births	14.2	23.3	3.1	0.9
	Prevalence of Undernourishment: % of population	6.0	0.0	0.0	0.0
	Labour Force Participation Rate: Total, % of total population ages 15-64, modeled ILO Estimate	65.3	43.1	5.2	3.0
	Fertility Rate: Total births per woman	1.9	43.4	-2.0	-1.7
	Age Dependency Ratio: % of working-age population	50.7	50.7	6.5	1.6
	Cause of death by communicable diseases & maternal, prenatal, nutrition conditions: % of total	9.1	76.8	2.0	0.7
	Access to Clean Fuels & Technologies for Cooking: % of population	84.9	28.8	-2.5	-0.7
	Gini Index	46.1	31.6	3.5	1.0
	Physicians: per 1000 people	2.4	37.1	1.1	-0.5
	Governance	Control of Corruption: Estimate of Governance	-0.9	6.7	-1.9
Democracy Index		6.1	21.7	-1.3	-1.3
Ratio of Female to Male Labor Participation Rate: %, modeled ILO Estimate		58.0	42.7	3.3	3.7
Proportion of Seats held by Women in National Parliaments: %		48.2	100.0	5.2	0.0
Real GDP growth: annual %		-0.2	35.5	-16.2	-13.6
Government Effectiveness: Estimate of Governance		-0.3	10.6	-11.2	-0.6
Net Migration: % over total Population		0.0	40.8	-2.5	1.5
Political Stability and Absence of Violence/Terrorism: Estimate of Governance		-0.8	32.6	-5.5	-5.0
Regulatory Quality: Estimate of Governance		0.0	28.8	-5.7	-2.2
Rule of Law: Estimate of Governance		-0.7	8.6	-3.0	-0.7
Voice & Accountability: Estimate of Governance		0.0	42.8	2.8	0.9
Individuals using the Internet: % of population	70.1	71.3	10.3	3.9	



NETHERLANDS

		Netherlands			
		2019 Actual	2019 Standardized	3 Year Change (2016-2019)	1 Year Change (2018-2019)
Environment	Adjusted Savings, Natural Resources Depletion: % of GNI	0.2	95.3	-0.9	2.0
	Forest Area: % of Land Area	11.0	0.5	0.1	0.0
	CO2 Emissions: KG per PPP \$ of GDP	0.1	90.7	4.2	1.3
	PM2.5 Air Pollution: mean annual exposure micrograms per cubic meter	12.0 (2017)	83.0	-0.2	0.1
	Global Adaptation Index (Gain Index)	66.9	72.8	-0.8	-0.5
	Terrestrial & Marine Protected Areas: % of total territorial area	25.3	63.7	20.0	11.1
	Agricultural Land: % of total land area	54.0	33.7	0.0	0.2
	Food Production Index: 2007=100	116.9	74.5	-9.4	7.7
	Total Natural Resources Rents: % GDP	0.3	96.8	-0.1	1.4
	Population Density: People per sq.km of land area	515.1	33.2	-0.1	-0.1
	R&D Expenditure: % GDP	2.2	46.5	-5.6	-0.3
	High-Technology Exports: % of manufactured exports	23.0	38.7	-2.3	1.1
	Water Productivity: constant prices 2015 US\$ GDP/M3 of fresh water withdrawal	100.0	36.5	-0.9	-1.1
	Energy Use: KG of Oil equivalent per \$1000 GDP, constant 2017 PPP	79.9 (2015)	14.9	0.1	0.0
Social	Unemployment Rate: % of total labour force, modeled ILO estimate	4.4	86.1	14.2	2.3
	Life Expectancy at birth: total in years	82.1	87.9	1.3	0.9
	Adolescent Fertility Rate: births per 1000 women ages 15-19	2.6	98.3	0.4	0.0
	Mortality Rate under 5 years: per 1000 live births	4.0	89.6	-1.9	-0.3
	Prevalence of Undernourishment: % of population	2.5	100.0	0.0	0.0
	Labour Force Participation Rate: Total, % of total population ages 15-64, modeled ILO Estimate	80.9	94.6	4.2	2.1
	Fertility Rate: Total births per woman	1.6	28.4	2.3	1.2
	Age Dependency Ratio: % of working-age population	54.0	42.1	-0.3	-0.6
	Cause of death by communicable diseases & maternal, prenatal, nutrition conditions: % of total	6.0	88.0	-0.8	-0.2
	Access to Clean Fuels & Technologies for Cooking: % of population	100.0	100.0	0.0	0.0
	Gini Index	29.2	83.4	-3.4	-3.6
Governance	Physicians: per 1000 people	3.8	58.9	2.8	0.2
	Control of Corruption: Estimate of Governance	1.9	84.4	0.0	-0.6
	Democracy Index	9.0	81.2	6.3	2.6
	Ratio of Female to Male Labor Participation Rate: %, modeled ILO Estimate	85.6	91.7	2.0	1.2
	Proportion of Seats held by Women in National Parliaments: %	31.3	61.6	-20.6	-10.6
	Real GDP growth: annual %	2.0	48.1	-1.1	-2.0
	Government Effectiveness: Estimate of Governance	1.8	79.2	-1.7	-1.3
	Net Migration: % over total Population	0.3	54.6	-0.1	-0.2
	Political Stability and Absence of Violence/Terrorism: Estimate of Governance	0.9	76.4	-1.6	0.0
	Regulatory Quality: Estimate of Governance	1.9	87.2	-3.5	-5.1
	Rule of Law: Estimate of Governance	1.8	89.0	-3.7	-0.4
Voice & Accountability: Estimate of Governance	1.5	90.1	-1.6	0.0	
Individuals using the Internet: % of population	93.3	95.1	2.2	0.7	



NORWAY

		Norway			
		2019 Actual	2019 Standardized	3 Year Change (2016-2019)	1 Year Change (2018-2019)
Environment	Adjusted Savings, Natural Resources Depletion: % of GNI	5.1	0.0	-36.2	0.0
	Forest Area: % of Land Area	33.3	39.2	0.1	0.0
	CO2 Emissions: KG per PPP \$ of GDP	0.1	97.5	2.8	0.3
	PM2.5 Air Pollution: mean annual exposure micrograms per cubic meter	6.96 (2017)	98.4	-0.3	0.0
	Global Adaptation Index (Gain Index)	75.8	96.1	-2.5	-1.5
	Terrestrial & Marine Protected Areas: % of total territorial area	5.0	8.9	0.1	-0.2
	Agricultural Land: % of total land area	2.7	97.8	0.0	0.0
	Food Production Index: 2007=100	107.2	57.9	-1.8	8.1
	Total Natural Resources Rents: % GDP	6.9	9.9	-40.3	9.9
	Population Density: People per sq.km of land area	14.6	98.5	-0.1	0.0
	R&D Expenditure: % GDP	2.2	45.9	-3.5	1.2
	High-Technology Exports: % of manufactured exports	22.5	37.6	2.9	2.8
	Water Productivity: constant prices 2015 US\$ GDP/M3 of fresh water withdrawal	151.0	55.3	-1.5	-0.3
	Energy Use: KG of Oil equivalent per \$1000 GDP, constant 2017 PPP	92.36 (2015)	21.8	0.1	-0.1
Social	Unemployment Rate: % of total labour force, modeled ILO estimate	3.7	90.0	5.6	0.6
	Life Expectancy at birth: total in years	83.0	92.5	1.3	0.4
	Adolescent Fertility Rate: births per 1000 women ages 15-19	2.4	98.5	2.0	0.2
	Mortality Rate under 5 years: per 1000 live births	2.4	100.0	0.0	0.0
	Prevalence of Undernourishment: % of population	2.5	100.0	0.0	0.0
	Labour Force Participation Rate: Total, % of total population ages 15-64, modeled ILO Estimate	78.2	85.5	1.0	1.3
	Fertility Rate: Total births per woman	1.5	26.6	-1.7	0.8
	Age Dependency Ratio: % of working-age population	53.5	43.5	-0.3	-0.4
	Cause of death by communicable diseases & maternal, prenatal, nutrition conditions: % of total	7.7	81.9	-1.1	-0.3
	Access to Clean Fuels & Technologies for Cooking: % of population	100.0	100.0	0.0	0.0
	Gini Index	27.7	88.0	2.1	-0.5
Governance	Physicians: per 1000 people	4.9	77.9	5.0	0.7
	Control of Corruption: Estimate of Governance	2.1	89.2	-3.3	-0.5
	Democracy Index	9.9	98.8	-1.2	0.0
	Ratio of Female to Male Labor Participation Rate: %, modeled ILO Estimate	90.0	99.6	0.1	0.3
	Proportion of Seats held by Women in National Parliaments: %	40.8	83.2	-4.7	-1.4
	Real GDP growth: annual %	1.1	43.2	-0.3	1.9
	Government Effectiveness: Estimate of Governance	1.9	80.9	-0.3	-0.9
	Net Migration: % over total Population	0.5	59.2	-1.0	4.7
	Political Stability and Absence of Violence/Terrorism: Estimate of Governance	1.2	84.7	-0.8	0.8
	Regulatory Quality: Estimate of Governance	1.8	85.3	3.5	0.3
	Rule of Law: Estimate of Governance	2.0	96.0	-1.7	0.7
	Voice & Accountability: Estimate of Governance	1.7	95.5	0.0	-1.3
Individuals using the Internet: % of population	98.0	100.0	0.0	0.9	



PORTUGAL

		Portugal			
		2019 Actual	2019 Standardized	3 Year Change (2016-2019)	1 Year Change (2018-2019)
Environment	Adjusted Savings, Natural Resources Depletion: % of GNI	0.1	98.7	-1.3	-0.2
	Forest Area: % of Land Area	36.2	44.1	0.0	0.0
	CO2 Emissions: KG per PPP \$ of GDP	0.1	94.5	3.4	3.0
	PM2.5 Air Pollution: mean annual exposure micrograms per cubic meter	8.16 (2017)	94.7	-0.7	0.0
	Global Adaptation Index (Gain Index)	62.4	61.3	1.8	-0.1
	Terrestrial & Marine Protected Areas: % of total territorial area	16.9	41.0	21.0	0.0
	Agricultural Land: % of total land area	42.5	48.0	-3.8	-2.5
	Food Production Index: 2007=100	123.5	85.7	19.9	16.7
	Total Natural Resources Rents: % GDP	0.2	97.7	-0.6	0.2
	Population Density: People per sq.km of land area	112.3	85.8	0.3	0.1
	R&D Expenditure: % GDP	1.4	29.5	-1.0	0.4
	High-Technology Exports: % of manufactured exports	6.9	5.9	2.3	3.4
	Water Productivity: constant prices 2015 US\$ GDP/M3 of fresh water withdrawal	36.3	12.9	4.2	0.2
	Energy Use: KG of Oil equivalent per \$1000 GDP, constant 2017 PPP	68.5 (2015)	8.5	0.1	-0.1
Social	Unemployment Rate: % of total labour force, modeled ILO estimate	6.7	73.9	26.5	2.5
	Life Expectancy at birth: total in years	81.7	85.6	1.5	1.3
	Adolescent Fertility Rate: births per 1000 women ages 15-19	7.8	89.7	-0.8	-0.9
	Mortality Rate under 5 years: per 1000 live births	3.4	93.5	0.2	1.1
	Prevalence of Undernourishment: % of population	2.5	100.0	0.0	0.0
	Labour Force Participation Rate: Total, % of total population ages 15-64, modeled ILO Estimate	75.8	77.6	6.6	1.2
	Fertility Rate: Total births per woman	1.4	22.3	9.8	2.7
	Age Dependency Ratio: % of working-age population	55.4	38.5	-1.3	-0.7
	Cause of death by communicable diseases & maternal, prenatal, nutrition conditions: % of total	8.5	78.9	1.7	0.7
	Access to Clean Fuels & Technologies for Cooking: % of population	100.0	100.0	0.0	0.0
	Gini Index	32.8	72.4	6.7	1.8
Physicians: per 1000 people	5.5	86.7	7.7	1.7	
Governance	Control of Corruption: Estimate of Governance	0.8	53.1	-3.3	-1.9
	Democracy Index	8.0	61.3	7.4	4.3
	Ratio of Female to Male Labor Participation Rate: %, modeled ILO Estimate	85.1	90.9	2.6	1.0
	Proportion of Seats held by Women in National Parliaments: %	38.7	78.4	2.6	9.0
	Real GDP growth: annual %	2.7	52.3	4.0	-0.6
	Government Effectiveness: Estimate of Governance	1.2	58.1	-0.6	-1.6
	Net Migration: % over total Population	0.4	57.3	17.8	11.6
	Political Stability and Absence of Violence/Terrorism: Estimate of Governance	1.1	82.1	2.6	-1.6
	Regulatory Quality: Estimate of Governance	1.0	58.8	4.2	2.9
	Rule of Law: Estimate of Governance	1.1	67.8	2.0	-0.3
	Voice & Accountability: Estimate of Governance	1.2	80.8	1.3	0.9
Individuals using the Internet: % of population	75.3	76.7	4.5	0.1	



SINGAPORE

		Singapore			
		2019 Actual	2019 Standardized	3 Year Change (2016-2019)	1 Year Change (2018-2019)
Environment	Adjusted Savings, Natural Resources Depletion: % of GNI	0.0	100.0	0.0	0.0
	Forest Area: % of Land Area	22.0	19.6	-1.7	-0.6
	CO2 Emissions: KG per PPP \$ of GDP	0.1	100.0	0.0	0.0
	PM2.5 Air Pollution: mean annual exposure micrograms per cubic meter	19.1 (2017)	61.6	-0.9	0.2
	Global Adaptation Index (Gain Index)	70.6	82.5	1.3	0.1
	Terrestrial & Marine Protected Areas: % of total territorial area	2.5	2.1	-0.1	0.0
	Agricultural Land: % of total land area	0.9	100.0	0.0	0.0
	Food Production Index: 2007=100	154.3	100.0	0.0	0.0
	Total Natural Resources Rents: % GDP	0.0	100.0	0.0	0.0
	Population Density: People per sq.km of land area	7965.9	0.0	0.0	0.0
	R&D Expenditure: % GDP	1.9	40.2	-9.9	0.8
	High-Technology Exports: % of manufactured exports	51.8	97.4	-1.7	0.5
	Water Productivity: constant prices 2015 US\$ GDP/M3 of fresh water withdrawal	709.7	100.0	0.0	0.0
	Energy Use: KG of Oil equivalent per \$1000 GDP, constant 2017 PPP	58.5 (2014)	2.9	0.0	0.0
Social	Unemployment Rate: % of total labour force, modeled ILO estimate	2.3	98.1	-0.9	-0.8
	Life Expectancy at birth: total in years	83.6	95.9	2.2	0.9
	Adolescent Fertility Rate: births per 1000 women ages 15-19	2.5	98.3	-0.4	-0.4
	Mortality Rate under 5 years: per 1000 live births	2.4	100.0	0.6	0.6
	Prevalence of Undernourishment: % of population	NA	NA	-	-
	Labour Force Participation Rate: Total, % of total population ages 15-64, modeled ILO Estimate	77.4	83.1	3.0	1.4
	Fertility Rate: Total births per woman	1.1	9.7	4.5	2.5
	Age Dependency Ratio: % of working-age population	32.3	97.6	-2.4	-2.4
	Cause of death by communicable diseases & maternal, prenatal, nutrition conditions: % of total	20.7	34.9	-2.7	-0.7
	Access to Clean Fuels & Technologies for Cooking: % of population	100.0	100.0	0.0	0.0
	Gini Index	NA	NA	-	-
Governance	Physicians: per 1000 people	2.5	37.7	2.2	0.7
	Control of Corruption: Estimate of Governance	2.2	91.7	2.3	-0.2
	Democracy Index	6.0	20.3	-0.7	-6.7
	Ratio of Female to Male Labor Participation Rate: %, modeled ILO Estimate	80.3	82.3	1.6	2.2
	Proportion of Seats held by Women in National Parliaments: %	23.0	42.6	-5.8	0.0
	Real GDP growth: annual %	1.3	44.4	-12.7	-12.7
	Government Effectiveness: Estimate of Governance	2.2	92.7	0.3	-0.4
	Net Migration: % over total Population	0.7	67.6	2.2	2.8
	Political Stability and Absence of Violence/Terrorism: Estimate of Governance	1.5	93.3	0.0	0.3
	Regulatory Quality: Estimate of Governance	2.2	96.8	-0.6	1.0
	Rule of Law: Estimate of Governance	1.9	92.4	1.7	1.0
	Voice & Accountability: Estimate of Governance	-0.2	35.8	-1.6	-4.1
	Individuals using the Internet: % of population	88.9	90.7	4.0	0.2



SOUTH AFRICA

		South Africa			
		2019 Actual	2019 Standardized	3 Year Change (2016-2019)	1 Year Change (2018-2019)
Environment	Adjusted Savings, Natural Resources Depletion: % of GNI	1.6	65.5	-5.8	-3.0
	Forest Area: % of Land Area	14.1	5.9	-0.2	-0.1
	CO2 Emissions: KG per PPP \$ of GDP	0.5	30.3	2.2	-1.2
	PM2.5 Air Pollution: mean annual exposure micrograms per cubic meter	25.1 (2017)	43.3	0.3	0.3
	Global Adaptation Index (Gain Index)	47.6	22.6	-3.7	-0.2
	Terrestrial & Marine Protected Areas: % of total territorial area	11.8	27.3	-3.2	4.2
	Agricultural Land: % of total land area	79.4	1.8	0.0	0.0
	Food Production Index: 2007=100	131.2	98.9	10.1	-1.1
	Total Natural Resources Rents: % GDP	3.7	51.4	-8.6	-5.9
	Population Density: People per sq.km of land area	47.9	94.2	-0.1	0.0
	R&D Expenditure: % GDP	0.6	12.4	-5.0	-1.9
	High-Technology Exports: % of manufactured exports	4.9	1.7	-3.6	-0.7
	Water Productivity: constant prices 2015 US\$ GDP/M3 of fresh water withdrawal	18.1	6.2	-0.4	-0.1
	Energy Use: KG of Oil equivalent per \$1000 GDP, constant 2017 PPP	192.0 (2014)	77.3	0.5	-0.5
Social	Unemployment Rate: % of total labour force, modeled ILO estimate	28.7	0.0	0.0	0.0
	Life Expectancy at birth: total in years	66.2	2.3	2.3	2.3
	Adolescent Fertility Rate: births per 1000 women ages 15-19	65.0	0.0	0.0	-10.7
	Mortality Rate under 5 years: per 1000 live births	34.3	0.0	0.0	0.0
	Prevalence of Undernourishment: % of population	6.3	0.0	0.0	0.0
	Labour Force Participation Rate: Total, % of total population ages 15-64, modeled ILO Estimate	60.1	26.3	4.6	0.6
	Fertility Rate: Total births per woman	2.5	67.8	14.5	4.0
	Age Dependency Ratio: % of working-age population	53.1	44.3	-2.5	-0.7
	Cause of death by communicable diseases & maternal, prenatal, nutrition conditions: % of total	35.7	0.0	0.0	0.0
	Access to Clean Fuels & Technologies for Cooking: % of population	82.4	17.0	10.6	3.9
	Gini Index	63.0 (2014)	0.0	0.0	0.0
Governance	Physicians: per 1000 people	0.8	10.7	0.3	0.5
	Control of Corruption: Estimate of Governance	0.0	32.2	-0.6	3.6
	Democracy Index	7.2	45.2	1.3	0.5
	Ratio of Female to Male Labor Participation Rate: %, modeled ILO Estimate	79.8	81.4	2.7	1.1
	Proportion of Seats held by Women in National Parliaments: %	46.4	95.8	2.0	8.2
	Real GDP growth: annual %	0.3	38.4	-2.3	-6.9
	Government Effectiveness: Estimate of Governance	0.2	25.1	1.0	1.0
	Net Migration: % over total Population	0.0	43.6	43.6	-0.3
	Political Stability and Absence of Violence/Terrorism: Estimate of Governance	-0.3	47.4	-3.4	-1.0
	Regulatory Quality: Estimate of Governance	0.0	28.4	-3.5	1.6
	Rule of Law: Estimate of Governance	-0.1	26.2	-6.0	2.6
	Voice & Accountability: Estimate of Governance	0.7	63.3	0.2	0.7
	Individuals using the Internet: % of population	68.2	69.4	14.1	5.5



SOUTH KOREA

		South Korea			
		2019 Actual	2019 Standardized	3 Year Change (2016-2019)	1 Year Change (2018-2019)
Environment	Adjusted Savings, Natural Resources Depletion: % of GNI	0.0	99.1	-0.9	-0.9
	Forest Area: % of Land Area	64.5	93.1	-0.7	-0.3
	CO2 Emissions: KG per PPP \$ of GDP	0.3	69.9	3.2	0.8
	PM2.5 Air Pollution: mean annual exposure micrograms per cubic meter	25.0 (2017)	43.5	0.3	0.3
	Global Adaptation Index (Gain Index)	67.3	74.0	1.4	-0.2
	Terrestrial & Marine Protected Areas: % of total territorial area	5.6	10.4	4.5	4.2
	Agricultural Land: % of total land area	16.8	80.2	0.9	0.2
	Food Production Index: 2007=100	107.4	58.3	1.1	0.9
	Total Natural Resources Rents: % GDP	0.1	98.7	-1.1	-1.0
	Population Density: People per sq.km of land area	530.4	31.2	0.4	0.1
	R&D Expenditure: % GDP	4.6	100.0	2.2	0.0
	High-Technology Exports: % of manufactured exports	32.4	57.8	3.4	-8.2
	Water Productivity: constant prices 2015 US\$ GDP/M3 of fresh water withdrawal	56.1	20.2	0.6	0.2
	Energy Use: KG of Oil equivalent per \$1000 GDP, constant 2017 PPP	139.4 (2015)	48.0	0.3	-0.3
	Social	Unemployment Rate: % of total labour force, modeled ILO estimate	3.8	89.7	-0.5
Life Expectancy at birth: total in years		83.2	93.9	3.4	2.5
Adolescent Fertility Rate: births per 1000 women ages 15-19		2.4	98.5	0.5	-0.2
Mortality Rate under 5 years: per 1000 live births		3.1	95.4	0.3	0.4
Prevalence of Undernourishment: % of population		2.5	100.0	0.0	0.0
Labour Force Participation Rate: Total, % of total population ages 15-64, modeled ILO Estimate		69.1	55.8	3.8	0.9
Fertility Rate: Total births per woman		0.9	0.0	-3.9	0.0
Age Dependency Ratio: % of working-age population		38.0	83.1	-5.4	-2.3
Cause of death by communicable diseases & maternal, prenatal, nutrition conditions: % of total		12.8	63.3	-9.0	-3.0
Access to Clean Fuels & Technologies for Cooking: % of population		96.8	84.8	-0.9	-0.6
Gini Index		31.4 (2016)	76.7	-0.4	-0.3
Physicians: per 1000 people		2.5	38.1	2.4	0.8
Governance	Control of Corruption: Estimate of Governance	0.7	51.9	7.7	3.6
	Democracy Index	8.0	60.7	5.4	0.4
	Ratio of Female to Male Labor Participation Rate: %, modeled ILO Estimate	73.2	69.6	3.3	1.9
	Proportion of Seats held by Women in National Parliaments: %	16.7	28.2	-3.4	-0.7
	Real GDP growth: annual %	2.2	49.7	-3.7	-3.6
	Government Effectiveness: Estimate of Governance	1.4	65.0	10.2	6.3
	Net Migration: % over total Population	0.2	49.8	0.4	-0.6
	Political Stability and Absence of Violence/Terrorism: Estimate of Governance	0.6	68.7	10.2	-2.3
	Regulatory Quality: Estimate of Governance	1.1	62.0	-1.3	-0.9
	Rule of Law: Estimate of Governance	1.2	69.8	1.4	-1.3
	Voice & Accountability: Estimate of Governance	0.8	66.5	3.7	-1.2
	Individuals using the Internet: % of population	96.2	98.1	2.7	-0.6



SPAIN

		Spain			
		2019 Actual	2019 Standardized	3 Year Change (2016-2019)	1 Year Change (2018-2019)
Environment	Adjusted Savings, Natural Resources Depletion: % of GNI	0.0	99.8	0.0	0.2
	Forest Area: % of Land Area	37.2	45.9	0.1	0.1
	CO2 Emissions: KG per PPP \$ of GDP	0.1	94.2	2.2	2.2
	PM2.5 Air Pollution: mean annual exposure micrograms per cubic meter	9.7 (2017)	90.1	-0.2	0.1
	Global Adaptation Index (Gain Index)	62.2	60.5	0.3	-0.1
	Terrestrial & Marine Protected Areas: % of total territorial area	17.9	43.6	7.1	7.8
	Agricultural Land: % of total land area	52.5	35.6	0.2	0.0
	Food Production Index: 2007=100	113.8	69.2	-3.3	-21.6
	Total Natural Resources Rents: % GDP	0.0	99.5	0.0	0.3
	Population Density: People per sq.km of land area	94.4	88.1	0.0	-0.1
	R&D Expenditure: % GDP	1.3	26.2	-2.1	-0.4
	High-Technology Exports: % of manufactured exports	6.9	5.7	-2.0	0.2
	Water Productivity: constant prices 2015 US\$ GDP/M3 of fresh water withdrawal	44.9	16.1	1.3	0.1
	Energy Use: KG of Oil equivalent per \$1000 GDP, constant 2017 PPP	68.8 (2015)	8.7	0.1	0.0
Social	Unemployment Rate: % of total labour force, modeled ILO estimate	14.1	33.3	30.9	5.7
	Life Expectancy at birth: total in years	83.8	97.2	0.8	1.4
	Adolescent Fertility Rate: births per 1000 women ages 15-19	5.9	92.8	1.3	0.0
	Mortality Rate under 5 years: per 1000 live births	3.2	94.8	-0.9	-0.2
	Prevalence of Undernourishment: % of population	2.5	100.0	0.0	0.0
	Labour Force Participation Rate: Total, % of total population ages 15-64, modeled ILO Estimate	74.2	72.4	0.0	0.4
	Fertility Rate: Total births per woman	1.2	13.6	2.0	1.1
	Age Dependency Ratio: % of working-age population	51.8	47.7	0.8	0.4
	Cause of death by communicable diseases & maternal, prenatal, nutrition conditions: % of total	5.6	89.4	-1.0	-0.3
	Access to Clean Fuels & Technologies for Cooking: % of population	100.0	100.0	0.0	0.0
	Gini Index	34.3	67.7	3.8	0.7
Governance	Physicians: per 1000 people	4.4	69.8	9.3	5.8
	Control of Corruption: Estimate of Governance	0.7	50.8	2.5	1.4
	Democracy Index	8.2	64.3	0.6	2.4
	Ratio of Female to Male Labor Participation Rate: %, modeled ILO Estimate	82.5	86.2	0.6	1.4
	Proportion of Seats held by Women in National Parliaments: %	44.0	90.4	3.7	11.0
	Real GDP growth: annual %	2.0	48.2	-5.8	-1.5
	Government Effectiveness: Estimate of Governance	1.0	52.8	-4.3	0.0
	Net Migration: % over total Population	1.0	77.0	27.9	8.9
	Political Stability and Absence of Violence/Terrorism: Estimate of Governance	0.3	62.4	-2.6	0.5
	Regulatory Quality: Estimate of Governance	1.1	61.3	1.2	3.2
	Rule of Law: Estimate of Governance	1.0	64.1	1.0	0.3
	Voice & Accountability: Estimate of Governance	1.0	75.7	0.1	0.6
Individuals using the Internet: % of population	90.7	92.5	9.8	4.1	



UNITED KINGDOM

		United Kingdom			
		2019 Actual	2019 Standardized	3 Year Change (2016-2019)	1 Year Change (2018-2019)
Environment	Adjusted Savings, Natural Resources Depletion: % of GNI	0.6 (2018)	87.1	-8.0	-0.3
	Forest Area: % of Land Area	13.2	4.3	0.1	0.0
	CO2 Emissions: KG per PPP \$ of GDP	0.1	96.2	2.2	1.0
	PM2.5 Air Pollution: mean annual exposure micrograms per cubic meter	10.5 (2017)	87.7	-0.2	0.0
	Global Adaptation Index (Gain Index)	70.0	80.8	-1.4	0.7
	Terrestrial & Marine Protected Areas: % of total territorial area	29.1	73.7	18.2	0.5
	Agricultural Land: % of total land area	72.4	10.6	-0.9	-0.9
	Food Production Index: 2007=100	114.2	69.8	7.7	6.7
	Total Natural Resources Rents: % GDP	0.6	92.5	-4.1	0.8
	Population Density: People per sq.km of land area	276.3	64.4	-0.1	0.0
	R&D Expenditure: % GDP	1.7	36.2	-3.3	-0.7
	High-Technology Exports: % of manufactured exports	23.1	38.8	-1.3	1.6
	Water Productivity: constant prices 2015 US\$ GDP/M3 of fresh water withdrawal	377.0	100.0	0.0	0.0
	Energy Use: KG of Oil equivalent per \$1000 GDP, constant 2017 PPP	61.5 (2015)	4.6	0.0	0.0
Social	Unemployment Rate: % of total labour force, modeled ILO estimate	3.8	89.5	5.9	1.3
	Life Expectancy at birth: total in years	81.2	83.1	-1.2	-0.8
	Adolescent Fertility Rate: births per 1000 women ages 15-19	11.3	84.0	2.7	0.7
	Mortality Rate under 5 years: per 1000 live births	4.4	87.3	-1.7	-0.1
	Prevalence of Undernourishment: % of population	2.5	100.0	0.0	0.0
	Labour Force Participation Rate: Total, % of total population ages 15-64, modeled ILO Estimate	78.0	85.0	3.3	0.9
	Fertility Rate: Total births per woman	1.6	31.0	-1.0	-0.1
	Age Dependency Ratio: % of working-age population	57.2	33.8	-0.8	-0.6
	Cause of death by communicable diseases & maternal, prenatal, nutrition conditions: % of total	8.2	80.2	-0.6	-0.1
	Access to Clean Fuels & Technologies for Cooking: % of population	100.0	100.0	0.0	0.0
	Gini Index	32.8	72.4	0.4	2.4
Physicians: per 1000 people	2.9	45.0	1.9	1.2	
Governance	Control of Corruption: Estimate of Governance	1.8	81.1	-3.1	-1.7
	Democracy Index	8.5	71.3	6.2	0.1
	Ratio of Female to Male Labor Participation Rate: %, modeled ILO Estimate	85.8	92.0	3.1	1.5
	Proportion of Seats held by Women in National Parliaments: %	32.0	63.1	0.2	-0.3
	Real GDP growth: annual %	1.6	46.0	-3.1	-0.3
	Government Effectiveness: Estimate of Governance	1.5	68.6	-4.0	2.9
	Net Migration: % over total Population	0.3	54.0	-1.7	-0.6
	Political Stability and Absence of Violence/Terrorism: Estimate of Governance	0.5	68.4	4.7	11.9
	Regulatory Quality: Estimate of Governance	1.6	79.6	-4.4	-5.1
	Rule of Law: Estimate of Governance	1.6	83.4	-2.3	-1.0
	Voice & Accountability: Estimate of Governance	1.3	82.7	-1.2	-3.6
Individuals using the Internet: % of population	92.5	94.3	-3.1	1.1	



UNITED STATES

		United States			
		2019 Actual	2019 Standardized	3 Year Change (2016-2019)	1 Year Change (2018-2019)
Environment	Adjusted Savings, Natural Resources Depletion: % of GNI	0.3	92.7	-5.1	0.5
	Forest Area: % of Land Area	33.9	40.1	-0.1	0.0
	CO2 Emissions: KG per PPP \$ of GDP	0.2	77.3	4.0	1.7
	PM2.5 Air Pollution: mean annual exposure micrograms per cubic meter	7.4 (2017)	97.0	-0.4	0.0
	Global Adaptation Index (Gain Index)	66.5	72.0	-2.0	-1.9
	Terrestrial & Marine Protected Areas: % of total territorial area	26.3	66.4	-0.1	0.0
	Agricultural Land: % of total land area	44.4	45.7	-0.1	0.0
	Food Production Index: 2007=100	111.7	65.5	-14.5	-7.3
	Total Natural Resources Rents: % GDP	0.6	92.6	-3.8	1.0
	Population Density: People per sq.km of land area	36.0	95.7	-0.1	-0.1
	R&D Expenditure: % GDP	3.2	68.1	-1.4	2.1
	High-Technology Exports: % of manufactured exports	18.7	29.8	-7.9	0.4
	Water Productivity: constant prices 2015 US\$ GDP/M3 of fresh water withdrawal	44.8	16.1	0.4	0.2
	Energy Use: KG of Oil equivalent per \$1000 GDP, constant 2017 PPP	116.4 (2015)	35.2	0.2	-0.2
Social	Unemployment Rate: % of total labour force, modeled ILO estimate	3.7	90.3	6.7	1.1
	Life Expectancy at birth: total in years	78.8	70.1	0.3	0.4
	Adolescent Fertility Rate: births per 1000 women ages 15-19	16.4	75.7	2.9	-0.3
	Mortality Rate under 5 years: per 1000 live births	6.4	74.0	-1.0	-0.1
	Prevalence of Undernourishment: % of population	2.5	100.0	0.0	0.0
	Labour Force Participation Rate: Total, % of total population ages 15-64, modeled ILO Estimate	73.1	68.9	4.8	1.6
	Fertility Rate: Total births per woman	1.7	34.3	0.9	0.9
	Age Dependency Ratio: % of working-age population	52.7	45.3	-2.1	-1.1
	Cause of death by communicable diseases & maternal, prenatal, nutrition conditions: % of total	5.3	90.5	0.7	0.3
	Access to Clean Fuels & Technologies for Cooking: % of population	100.0	100.0	0.0	0.0
	Gini Index	41.5	45.6	-2.4	-1.1
Governance	Physicians: per 1000 people	2.61 (2018)	40.1	-2.3	-0.5
	Control of Corruption: Estimate of Governance	1.2	65.3	-4.4	-3.0
	Democracy Index	8.0	59.8	3.2	0.3
	Ratio of Female to Male Labor Participation Rate: %, modeled ILO Estimate	83.0	87.1	1.5	0.9
	Proportion of Seats held by Women in National Parliaments: %	23.4	43.6	6.6	-0.1
	Real GDP growth: annual %	2.3	50.0	3.7	-3.5
	Government Effectiveness: Estimate of Governance	1.5	68.6	0.3	-3.0
	Net Migration: % over total Population	0.4	54.8	-3.4	-0.5
	Political Stability and Absence of Violence/Terrorism: Estimate of Governance	0.1	57.8	-7.0	-7.5
	Regulatory Quality: Estimate of Governance	1.3	70.6	-4.8	-9.0
	Rule of Law: Estimate of Governance	1.5	78.4	-5.3	-2.0
	Voice & Accountability: Estimate of Governance	0.9	71.2	-6.6	-2.6
	Individuals using the Internet: % of population	89.4	91.2	3.3	0.3



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