

APPENDIX

SEDA's measure of well-being is based on three categories comprising ten dimensions represented by 40 indicators from publicly available sources. The 2019 data set includes 143 countries and contains 12 years of historical data, which comprises more than 68,000 data points.

The choice of indicators was not intended to provide comprehensive coverage of issues in each dimension; such coverage would have required many more indicators, with large overlaps and correlations. Rather, the goal was to include enough indicators to characterize the dimension and capture differences across countries.

The first category, *economics*, comprises three dimensions that include 6 indicators. The second category, *investments*, comprises three dimensions that include 19 indicators. The third category, *sustainability*, comprises four dimensions that include 15 indicators. (See Table 1.)

Data Gap Treatment

SEDA uses objective, credible, and the most complete data sources available covering the indicators across 143 countries. To deal with data gaps, we generally use an imputation model (the R package, *Amelia*). In specific cases, such as for “Efficiency of train services” in countries where there are no railroads, manual imputations are used to set

these to the minimum score. For series where there is a gap or ten years or more between available data points, a linear interpolation model is used to estimate the data for the missing interim years.

Normalization

As a result of differences in the scales used in the original sources, we normalize the data before feeding it into the SEDA model. Individual indicators are made comparable, while preserving the relative distance among the original data values, with a min-max normalization approach, which subtracts the minimum value of an indicator's raw data set from each country's value in a particular year. The result is then divided by the range of the indicator (maximum value minus minimum value in the data set). That result is then converted into a scale of 0 (the lowest score among the 143 countries) to 100 (the highest). Based on those normalized indicators, a score is calculated for each of the ten dimensions.

To avoid an outlier bias in the overall SEDA scores, we adjusted the model so that the min value is set at the 2.5% percentile and the max value is set at the 97.5% percentile of each series.

As a result, SEDA scores for a particular country—whether overall or for a dimension—are

TABLE 1 | Indicators for SEDA's Dimensions

Dimension	Indicators	Primary data sources
ECONOMICS		
Income	GDP per capita, purchasing-power parity (current international dollars)	The World Bank, World Development Indicators
Economic stability	Inflation, average consumer prices (absolute percentage change)	International Monetary Fund, World Economic Outlook database
	Inflation-rate volatility (standard deviation) ¹	International Monetary Fund, World Economic Outlook database ; BCG analysis
	GDP growth volatility (log standard deviation) ¹	The World Bank, World Development Indicators , BCG analysis
Employment	Unemployment, total (% total labor force)	The World Bank, World Development Indicators ; International Monetary Fund, World Economic Outlook database
	Employment-to-population ratio, age 15+, total (%) (modeled ILO estimate)	The World Bank, World Development Indicators ; BCG analysis
INVESTMENTS		
Health	Life expectancy at birth, total (years)*	The World Bank, World Development Indicators, DataBank
	Mortality rate, under age 5 (per 1,000 live births)*	The World Bank, World Development Indicators, DataBank
	Prevalence of HIV, total (% of population, aged 15–49)	The World Bank, World Development Indicators
	Incidence of tuberculosis (per 100,000 people)	The World Bank, World Development Indicators
	Prevalence of undernourishment (% of population) ²	The World Bank, World Development Indicators
	Population obesity (% BMI > 30, age-standardized estimate) ²	World Health Organization, Global Health Observatory
	Immunization, diphtheria, pertussis, and tetanus (% of children aged 12–23 months) ³	The World Bank, World Development Indicators
	Immunization, measles (% of children aged 12–23 months) ³	The World Bank, World Development Indicators
	Number of physicians (per 1,000 people)	World Health Organization, Global Health Observatory
	Number of hospital beds (per 1,000 people)	World Health Organization, Global Health Observatory
Education	School enrollment, tertiary (% gross)	The World Bank, World Development Indicators
	School life expectancy (years), primary to tertiary	The World Bank, World Development Indicators
	Pupil-teacher ratio, primary	The World Bank, World Development Indicators
	Average of math and science scores	OECD, Programme for International Student Assessment, Trends in International Mathematics and Science Study (downloaded via The World Bank DataBank)

TABLE 1 | Indicators for SEDA's Dimensions
(continued)

Dimension	Indicators	Primary data sources
INVESTMENTS		
Infrastructure	Individuals using the Internet (% of population)	The World Bank, World Development Indicators
	Mobile cellular subscriptions (per 100 people)	The World Bank, World Development Indicators
	Quality of roads network (1–7 best)	World Economic Forum, Global Competitiveness reports (and earlier editions)
	Efficiency of train services (1–7 best) ⁴	World Economic Forum, Global Competitiveness reports (and earlier editions)
	Improved water source (% of population with access)	The World Bank, World Development Indicators
	Improved sanitation facilities (% of population with access)	The World Bank, World Development Indicators
	Access to electricity (% of population) ⁵	The World Bank, World Development Indicators
	Electric power transmission and distribution losses (% of output) ⁵	The World Bank, World Development Indicators
SUSTAINABILITY		
Equality	Gini index (0–100)*	The World Bank, World Development Indicators ; Eurostat
	Inequality in education (%)	United Nations, UN Data
	Inequality in life expectancy (%)	United Nations, UN Data
Civil society	Civic activism (0–1)	Indices of Social Development
	Interpersonal safety and trust (0–1)	Indices of Social Development
	Intergroup cohesion (0–1)	Indices of Social Development
	Gender equality (0–1)	World Economic Forum, Global Gender Gap reports (and earlier editions)
Governance	Control of corruption (–2.5 to 2.5) ⁶	Worldwide Governance Indicators
	Rule of law (–2.5 to 2.5) ⁶	Worldwide Governance Indicators
	Political stability and absence of violence and terrorism (–2.5 to 2.5)	Worldwide Governance Indicators
	Voice and accountability (–2.5 to 2.5)	Worldwide Governance Indicators
	Property rights index (0–100)	Heritage Foundation, Index of Economic Freedom
Environment	Air quality index (0-100)*	Environmental Performance Index (and earlier editions)
	Carbon dioxide intensity (kg per kg of oil-equivalent energy use)*	The World Bank, World Development Indicators
	Terrestrial and marine protected areas (% total territorial area)	The World Bank, World Development Indicators
	Electricity generation from renewable sources, excluding hydro (% of total electricity generated)**	The World Bank, World Development Indicators

Source: SEDA 2019.

Note: All indicators in the same dimension were given equal weight except for those marked with an asterisk (*), which were assigned double the weight and double asterisk (**), which were assigned half the weight.

¹Calculation based on raw data from primary data source.

²The SEDA model uses a composite of the undernourished-population and the obese-population indicators.

³The SEDA model uses a composite of the indicators for immunization against measles and for immunization against diphtheria, pertussis, and tetanus.

⁴Due to a change in the Global Competitiveness Report methodology, the 2019 Index uses the efficiency of train services indicator while prior years use the older quality of railroad infrastructure indicator.

⁵The SEDA model uses a composite of the indicators for corruption and for the rule of law.

⁶The SEDA model uses a composite of the scores for access to electricity and for electric power transmission and distribution losses.

always relative to those of other countries. A score of zero does not mean that there is no well-being in the country. Rather, it means that the country is the worst performer in the data set.

Weighting

Reflecting that not all dimensions of well-being make equal contributions, the SEDA model utilizes a simple weighting approach: income, health, education, and governance dimensions were assigned a weighting factor of 2; infrastructure, equality, civil society, and environment dimensions were assigned a factor of 1; economic stability and employment dimensions were assigned a factor of 0.5.

We applied a similar approach at the indicator level. All indicators in a dimension were given equal weight except for those marked with asterisks in Table 1.

SEDA Score and Change in SEDA Score

- **SEDA Score.** This metric is a snapshot resulting from the normalization and weighting process described above, using the most recent data available. In addition to the overall SEDA score, a score for each dimension is also calculated for every country.
- **Change in SEDA Score.** We use change in SEDA score to track the evolution of SEDA scores for all countries, something we did in previous years using a measure called “recent progress.” The change in SEDA score is analyzed both in percentage increase and in increase in absolute points.

Change in SEDA score covers 2008 through 2019 (mostly based on data from 2007 to 2017), with the exception of three indicators: quality of railroad infrastructure indicator/efficiency of train services (in the infrastructure dimension), where data was available starting in 2009, as well as the inequality in education and inequality in life expectancy indicators (in the equality dimension), where data was available starting in 2010.

For both the SEDA score and the change in SEDA score, we used all the same indicators.

Wealth-to-Well-Being Coefficient

The coefficient compares a country’s SEDA score with the score that would be expected given the country’s GNI per capita estimated by Atlas method (current \$). The expected score reflects the average worldwide relationship between well-being and per capita GNI as estimated by the best-fit regression line, in this case a second-order polynomial regression.

Countries with a coefficient of 1.0 are generating well-being in line with what would be expected given their income levels. Countries that have a coefficient greater than 1.0 deliver higher levels of well-being than would be expected given their GNI levels, while those below 1.0 deliver lower levels of well-being than would be expected. (See Table 2.)

Methodology Updates

Since SEDA was launched in 2012, we have made modifications and improvements to the methodology. Due to various adjustments made to methodology as well as updates to series that were no longer available, some of the data series has changed this year. While this has not impacted relative trends significantly, the numerical value of the scores and wealth-to-well-being coefficients have changed.

As such, this report’s outputs should not be compared against previous reports; instead, we have gone back and calculated SEDA scores for the past twelve years using our current, updated methodology. That allows us to compare SEDA scores over that period on an apples-to-apples basis.

Focus on Global Powerhouses

Throughout our analysis, we highlighted “global powerhouses,” a subset of countries that constitute the 25 biggest economies and the 25 most populous countries. Because some countries fall into both categories, we are left with a subset of 36 global powerhouses. (See Appendix exhibit.)

TABLE 2 | Overall SEDA Scores

Country	SEDA Score											
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Albania	47.63	48.56	49.32	49.72	49.92	51.04	50.74	51.71	52.34	53.67	54.68	54.32
Algeria	42.71	42.68	42.82	42.36	43.98	43.45	43.51	43.68	43.15	42.63	43.40	43.09
Angola	18.73	20.39	20.78	21.47	22.16	21.91	22.43	22.81	22.72	22.48	23.23	22.44
Argentina	54.77	54.91	54.07	54.39	55.53	55.42	55.21	54.80	55.76	56.18	55.42	55.77
Armenia	50.41	50.14	49.87	49.91	49.24	50.00	49.63	49.18	49.21	49.28	50.72	50.26
Australia	78.49	78.35	80.63	80.59	81.11	80.43	80.72	80.93	81.92	81.82	81.68	81.60
Austria	81.67	82.91	82.27	82.47	82.70	83.13	83.19	83.33	83.27	82.68	82.89	83.30
Azerbaijan	49.02	49.55	49.88	49.38	48.95	48.93	49.51	49.17	47.05	45.99	48.05	48.01
Bahrain	60.63	60.89	60.80	59.90	61.96	61.20	60.69	62.00	63.62	63.23	62.59	63.17
Bangladesh	29.69	29.38	29.46	29.41	30.40	30.07	30.17	31.21	31.25	32.59	33.11	33.20
Belarus	54.15	56.61	56.61	56.22	56.47	57.15	56.87	57.00	56.77	56.86	58.19	58.45
Belgium	78.51	78.63	79.35	80.30	80.52	80.12	80.23	80.42	80.15	79.29	79.29	80.17
Benin	31.72	30.87	30.90	31.15	31.07	30.91	31.06	30.80	30.96	31.37	31.30	31.04
Bolivia	38.38	38.76	39.35	39.68	40.73	40.57	40.19	39.66	40.33	41.07	40.81	40.25
Bosnia and Herzegovina	46.35	47.03	46.78	45.55	46.35	48.39	48.52	49.21	48.50	49.04	47.45	47.53
Botswana	41.88	41.82	42.18	41.31	41.81	42.44	42.48	42.64	42.81	42.96	42.35	41.24
Brazil	49.16	50.03	50.46	50.84	51.30	51.12	50.64	51.04	49.97	49.14	49.57	49.26
Bulgaria	56.44	57.14	57.48	56.70	56.73	56.79	56.65	57.09	57.52	57.97	60.04	60.12
Burkina Faso	28.03	27.37	27.93	28.54	27.72	27.71	27.54	28.12	28.73	29.51	29.79	30.35
Burundi	24.78	23.81	25.21	25.31	25.13	24.97	25.40	26.64	24.92	24.51	23.64	24.34
Cambodia	33.18	32.43	33.81	32.87	33.66	34.14	33.72	33.75	34.32	34.82	35.31	35.03
Cameroon	28.79	28.52	28.21	28.24	28.57	29.01	29.64	29.29	29.27	29.45	29.80	29.36
Canada	77.77	78.57	77.99	78.87	79.42	78.28	78.40	79.21	79.39	79.17	78.96	79.19
Chad	16.83	16.56	16.43	16.92	15.99	15.60	15.59	15.79	16.38	16.13	16.40	16.11
Chile	60.91	60.81	61.06	61.53	62.51	62.50	62.88	63.33	63.44	63.32	62.93	62.57
China	41.19	41.38	46.26	46.10	46.73	47.05	47.72	48.52	48.88	49.53	51.61	51.56
Colombia	41.87	41.98	42.11	43.85	44.80	44.79	44.85	45.64	46.84	47.07	48.00	47.51
Costa Rica	54.31	53.70	53.30	54.09	55.79	56.14	56.62	57.12	58.04	58.43	58.02	58.25
Côte d'Ivoire	26.24	25.63	26.34	24.86	23.51	24.28	24.67	26.16	27.83	28.16	28.36	27.65
Croatia	60.54	60.93	61.15	62.34	62.58	62.20	62.54	63.15	63.12	63.24	64.75	64.59
Cyprus	67.77	69.45	69.57	67.64	67.08	65.02	63.75	64.24	65.12	65.38	66.13	66.22
Czechia	70.48	71.67	71.37	70.51	70.81	70.36	70.51	71.20	71.66	71.36	71.19	71.92
DR Congo	20.33	20.02	19.38	18.75	20.31	20.48	20.14	20.40	20.47	18.86	19.73	18.23
Denmark	84.47	85.01	84.22	83.66	84.60	83.70	83.70	84.24	84.23	83.67	83.87	84.13
Dominican Republic	44.44	44.84	43.14	42.92	42.62	44.58	44.04	46.37	45.91	45.99	47.52	46.96

Country	SEDA Score											
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Ecuador	42.36	42.33	42.69	43.75	44.54	46.66	47.28	47.20	47.20	47.39	48.37	47.98
Egypt	42.75	42.72	42.64	41.76	40.79	40.80	39.78	38.04	38.14	38.83	38.87	40.64
El Salvador	46.52	46.16	45.19	45.34	44.89	45.08	44.46	45.15	45.41	45.02	43.90	42.97
Estonia	71.13	70.80	69.69	68.43	69.64	70.04	70.32	71.32	72.11	72.14	71.85	71.48
Eswatini	24.42	23.99	24.91	27.12	27.37	27.27	27.59	27.33	27.11	27.81	29.01	28.20
Ethiopia	24.51	24.24	25.20	24.77	25.54	25.48	26.96	27.44	26.63	27.53	26.29	25.96
Finland	84.56	85.62	84.81	84.37	84.90	84.49	84.88	84.85	84.29	83.98	84.09	83.99
France	74.93	75.35	75.21	75.80	75.58	74.85	74.92	75.63	75.26	74.68	75.81	76.08
Gabon	39.23	38.71	38.54	39.60	40.23	39.62	40.62	40.72	41.05	40.89	40.10	38.70
Georgia	47.46	48.80	47.10	48.69	49.37	50.22	51.53	52.43	53.91	55.10	55.50	55.43
Germany	81.10	81.67	81.80	81.19	82.19	81.56	81.53	82.35	81.92	81.35	81.04	81.53
Ghana	38.42	38.28	38.18	38.32	38.00	37.78	37.89	37.40	37.54	38.08	38.84	38.26
Greece	69.63	69.88	68.77	67.09	64.72	63.03	62.60	62.98	62.74	62.79	63.51	63.80
Guatemala	37.88	37.91	38.65	38.96	38.35	38.39	36.99	37.30	38.69	39.10	39.79	39.17
Guinea	21.73	21.99	21.71	21.06	20.85	21.64	21.93	22.15	23.16	24.08	24.25	25.03
Guyana	38.39	38.58	38.98	39.46	39.30	40.00	38.87	39.09	39.88	40.53	41.45	41.13
Honduras	37.64	37.25	37.41	36.85	36.46	35.76	35.63	35.96	37.71	38.19	38.49	38.07
Hungary	68.93	69.60	68.51	67.34	67.53	66.56	66.62	66.17	65.79	64.85	65.71	65.30
Iceland	84.75	85.04	84.24	83.12	84.38	83.29	83.64	83.90	84.42	84.79	84.90	85.58
India	32.75	32.77	32.09	32.65	34.35	34.25	34.91	35.59	36.64	37.52	37.27	37.40
Indonesia	39.82	40.98	41.58	42.09	42.14	42.60	43.09	43.78	43.82	45.85	46.86	46.25
Iran	42.32	42.45	42.32	42.11	42.65	42.02	41.53	42.66	43.57	44.13	46.26	45.87
Iraq	32.78	33.24	33.44	31.94	31.55	30.37	30.43	32.28	34.90	35.81	28.47	29.08
Ireland	79.66	78.84	77.38	77.22	77.01	76.48	76.90	78.64	82.12	82.41	82.61	82.72
Israel	64.74	64.14	63.66	63.46	64.36	64.49	65.19	65.56	66.23	66.76	66.32	67.76
Italy	70.86	71.41	71.25	70.77	70.48	69.40	68.76	68.68	68.94	68.71	69.48	69.74
Jamaica	47.16	45.34	45.07	44.24	45.04	44.74	43.97	45.30	46.20	46.60	46.71	47.31
Japan	73.88	74.76	74.97	75.36	75.26	75.12	75.04	75.24	75.56	75.34	77.24	77.20
Jordan	48.91	48.58	48.68	47.52	47.28	47.07	46.55	46.70	47.10	46.33	45.72	46.50
Kazakhstan	53.52	54.36	53.81	54.52	54.89	56.05	55.57	55.79	56.54	55.85	57.58	57.15
Kenya	29.71	28.77	28.13	29.29	28.75	28.72	29.41	31.02	31.75	32.71	32.93	33.22
Kuwait	67.89	67.32	66.92	67.23	67.10	66.28	66.36	65.95	65.42	64.64	64.38	65.69
Kyrgyzstan	41.22	41.26	41.79	40.69	40.87	41.73	40.84	41.23	41.33	42.27	43.41	42.95

TABLE 2 | Overall SEDA Scores
(continued)

Country	SEDA Score											
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Lao PDR	29.10	29.71	30.98	30.96	32.50	31.71	32.94	33.71	33.53	33.86	34.70	35.46
Latvia	66.99	66.38	64.73	63.47	63.27	64.18	65.03	65.54	66.02	66.21	67.41	67.20
Lebanon	48.40	48.47	50.00	48.37	45.51	43.91	43.73	42.70	41.76	42.38	42.60	43.46
Lesotho	25.08	24.98	25.93	26.32	25.93	26.39	26.32	25.33	24.43	24.64	25.15	23.43
Lithuania	67.64	67.80	65.89	66.19	67.26	67.20	67.53	67.25	67.65	68.25	68.69	68.67
Luxembourg	84.15	83.26	83.06	84.68	84.38	84.10	84.18	83.99	84.04	83.62	83.29	83.60
Macedonia	47.21	48.18	47.60	48.38	47.61	47.91	47.97	49.19	48.85	49.56	51.14	50.66
Madagascar	30.44	29.66	27.87	26.58	27.06	27.32	27.48	27.57	27.48	28.24	27.88	27.82
Malawi	28.58	28.72	29.47	29.20	29.91	28.98	27.88	28.57	28.60	28.57	28.90	28.66
Malaysia	58.08	58.51	56.57	57.06	57.75	57.88	58.36	58.98	60.01	59.30	60.62	60.75
Mali	26.86	26.71	27.03	27.72	27.50	24.91	26.13	26.07	26.29	26.45	25.67	25.74
Malta	68.44	68.23	67.09	67.24	67.32	67.89	68.13	68.76	69.41	69.68	70.13	70.88
Mauritania	26.63	25.46	24.85	23.98	24.01	24.53	24.35	25.50	25.36	25.32	25.91	25.75
Mauritius	55.98	56.11	56.17	56.81	57.36	57.72	58.04	58.00	58.34	58.34	58.44	59.06
Mexico	48.55	48.22	48.01	47.59	47.95	47.95	47.25	47.14	47.42	48.68	48.90	49.17
Moldova	49.13	49.12	46.82	46.97	48.00	47.90	47.13	47.80	47.78	48.09	48.31	48.47
Mongolia	45.69	45.05	46.33	46.48	47.45	47.29	47.78	48.14	48.81	49.45	50.03	49.59
Montenegro	51.22	52.88	54.39	54.00	54.11	53.82	53.21	53.18	53.26	53.98	54.66	54.28
Morocco	40.34	40.65	41.26	41.63	41.52	41.60	41.57	42.02	42.73	42.66	43.17	42.84
Mozambique	26.02	26.18	26.32	25.70	26.17	25.99	25.10	22.87	22.86	21.12	21.32	21.17
Myanmar	26.63	27.07	27.10	26.20	27.67	28.36	28.18	28.74	29.13	30.52	32.44	33.17
Namibia	35.24	35.14	34.45	35.44	35.70	35.46	36.12	35.66	36.69	36.51	37.58	37.77
Nepal	32.51	32.93	33.27	35.29	35.90	35.11	35.86	37.03	36.50	36.79	37.64	37.86
Netherlands	82.02	82.96	83.31	82.45	84.01	83.52	83.12	82.85	82.94	82.33	82.37	83.26
New Zealand	78.83	79.10	79.55	79.58	79.17	78.64	79.01	79.35	79.85	80.21	80.40	80.93
Nicaragua	39.55	38.45	39.17	38.90	39.11	40.04	40.52	40.65	40.21	40.86	41.94	40.99
Niger	28.45	27.71	27.29	26.57	27.55	26.71	26.97	27.58	27.50	26.99	26.43	27.30
Nigeria	23.38	23.30	22.47	21.22	22.46	22.45	22.59	23.52	23.85	23.17	23.01	22.68
Norway	87.39	88.85	88.06	87.73	88.38	88.04	89.23	89.10	88.28	87.08	87.53	87.68
Oman	61.17	61.95	63.47	62.95	59.93	59.95	59.69	60.26	61.81	61.33	60.82	61.99
Pakistan	26.35	25.67	24.76	24.56	24.34	24.15	24.69	24.96	24.74	25.43	25.31	25.41
Panama	50.12	50.34	49.90	50.33	50.32	50.34	49.41	50.94	51.71	52.13	53.60	53.05
Paraguay	41.20	41.67	43.17	42.53	42.47	42.81	42.64	42.99	43.63	44.28	44.66	44.15
Peru	43.12	43.88	43.63	44.86	46.05	45.42	44.81	46.00	46.52	47.10	47.95	47.63
Philippines	42.68	41.90	41.48	40.91	41.60	41.77	41.13	41.59	42.57	42.79	43.26	42.55
Poland	64.92	66.57	67.09	67.57	67.84	68.04	68.29	68.76	68.77	68.89	68.68	68.71
Portugal	71.13	72.27	72.18	72.08	71.55	70.03	69.80	70.32	70.69	70.70	71.55	71.28

Country	SEDA Score											
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Qatar	66.33	66.36	68.62	69.29	69.75	69.97	69.71	67.52	68.80	67.34	67.54	69.29
Republic of the Congo	24.81	25.18	25.61	26.76	27.28	27.36	27.40	28.03	27.72	27.87	28.65	26.57
Romania	54.33	56.36	56.82	56.27	55.88	55.43	55.51	56.43	56.72	57.21	58.62	58.03
Russia	52.57	54.16	52.96	53.78	54.78	54.76	55.01	54.76	54.16	54.73	56.30	56.59
Rwanda	27.78	27.54	27.87	30.38	31.31	31.52	32.45	33.92	34.25	34.25	36.41	37.09
Saudi Arabia	56.64	58.38	57.82	58.15	59.72	60.25	61.24	62.42	61.30	59.63	60.15	59.98
Senegal	34.03	33.84	34.41	33.36	33.86	34.63	35.16	36.01	36.41	36.54	36.18	36.13
Serbia	48.61	49.54	50.03	49.36	50.38	50.37	50.73	51.64	52.62	53.50	53.31	53.04
Singapore	82.85	82.49	81.79	82.19	83.12	83.25	82.45	82.24	82.65	82.35	82.27	81.18
Slovakia	67.18	67.75	67.01	67.73	67.31	66.62	66.23	66.78	66.78	66.95	68.24	67.90
Slovenia	73.12	74.54	74.08	72.94	72.62	71.88	71.83	72.42	72.77	73.04	74.05	73.98
South Africa	33.71	33.21	32.94	33.34	33.49	35.27	37.25	37.75	39.12	39.21	38.80	37.39
South Korea	68.99	69.85	70.38	70.64	70.95	70.82	70.77	71.05	71.41	71.10	71.98	73.19
Spain	73.39	73.36	72.53	72.47	72.92	71.44	70.89	71.69	72.17	72.12	72.25	72.53
Sri Lanka	43.11	43.50	46.19	46.79	47.38	46.94	46.96	47.15	48.58	48.64	48.21	48.52
Sudan	22.87	23.11	23.78	23.38	23.36	22.31	21.92	21.38	21.23	21.75	21.56	21.28
Suriname	45.52	44.78	47.12	45.86	46.45	50.63	52.43	53.03	51.49	50.15	49.72	50.31
Sweden	85.43	85.28	84.69	84.95	85.36	84.22	83.54	83.69	83.97	83.77	84.07	84.08
Switzerland	83.13	85.03	85.67	85.12	85.61	86.04	86.20	86.95	87.14	86.63	86.28	86.88
Tajikistan	38.68	38.01	38.51	38.30	39.21	38.47	38.35	38.78	38.64	39.40	40.12	38.82
Tanzania	32.29	32.16	31.48	32.58	32.51	32.45	32.24	32.39	33.17	33.68	33.43	33.78
Thailand	50.88	51.34	51.16	50.90	51.68	51.25	51.13	51.88	51.10	50.78	51.43	51.12
Togo	30.54	29.65	29.08	29.77	29.71	29.14	29.57	30.23	30.93	31.60	30.75	30.65
Trinidad and Tobago	55.81	56.10	55.97	55.09	55.40	54.36	54.37	56.04	56.77	56.71	56.27	56.40
Tunisia	48.16	48.33	48.25	48.11	48.17	47.25	46.40	47.33	47.01	46.75	47.10	47.20
Turkey	47.73	48.10	48.31	49.65	51.03	50.95	53.04	53.40	52.56	51.69	52.45	51.99
Uganda	28.63	28.06	27.04	27.74	26.84	27.59	28.19	27.39	27.08	27.24	28.06	28.23
Ukraine	55.67	55.48	53.30	53.07	53.52	54.10	52.92	50.14	48.70	50.50	51.37	51.23
United Arab Emirates	68.56	68.50	68.48	67.12	68.54	68.25	69.38	69.26	68.87	68.50	69.69	69.75
United Kingdom	75.93	75.66	74.81	74.26	74.18	74.11	74.77	75.33	75.89	75.44	75.80	76.12
United States	77.59	77.63	77.18	76.66	76.21	75.56	75.10	75.75	76.31	76.07	76.13	76.33
Uruguay	60.43	61.59	61.68	61.83	62.41	61.65	63.11	64.32	64.08	63.99	64.44	63.97
Uzbekistan	38.79	39.04	38.36	38.54	39.14	39.32	39.02	39.13	38.46	39.15	40.25	39.25
Venezuela	43.60	46.04	45.98	45.34	45.45	45.76	44.65	43.97	43.37	44.18	43.53	43.49
Vietnam	41.73	41.86	42.89	42.24	42.11	47.99	47.45	48.47	48.77	49.15	50.24	50.25
Yemen	26.96	25.22	25.26	23.61	22.30	22.09	22.15	21.21	19.68	20.02	18.19	17.04
Zambia	29.25	29.67	28.21	28.06	28.48	29.34	29.33	29.40	29.82	29.62	30.85	29.42
Zimbabwe	24.48	22.55	23.46	23.77	23.73	24.88	25.24	25.77	26.00	27.04	26.68	26.95

TABLE 3 | Wealth-to-Well-Being Coefficients

Country	Wealth-to-Well-Being Coefficient											
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Albania	1.17	1.19	1.20	1.22	1.23	1.27	1.26	1.28	1.29	1.31	1.32	1.32
Algeria	1.04	1.04	1.04	1.04	1.07	1.05	1.05	1.05	1.04	1.04	1.06	1.06
Angola	0.49	0.53	0.53	0.55	0.57	0.56	0.56	0.57	0.57	0.57	0.59	0.57
Argentina	1.20	1.18	1.16	1.12	1.10	1.09	1.07	1.07	1.06	1.06	1.00	1.00
Armenia	1.28	1.25	1.27	1.27	1.26	1.27	1.26	1.24	1.23	1.23	1.24	1.23
Australia	0.99	0.96	0.98	0.97	0.96	0.94	0.94	0.94	0.95	0.96	0.96	0.96
Austria	0.98	0.98	0.98	0.98	0.98	1.00	1.00	1.00	1.00	0.99	0.99	0.99
Azerbaijan	1.24	1.22	1.19	1.16	1.15	1.13	1.12	1.09	1.07	1.10	1.17	1.18
Bahrain	0.94	0.95	0.98	0.97	1.02	1.00	0.98	1.00	0.97	0.97	0.96	0.97
Bangladesh	0.83	0.84	0.85	0.85	0.88	0.87	0.87	0.89	0.89	0.91	0.91	0.92
Belarus	1.28	1.31	1.31	1.29	1.29	1.31	1.30	1.27	1.28	1.31	1.35	1.36
Belgium	0.95	0.94	0.95	0.96	0.96	0.97	0.98	0.98	0.97	0.96	0.96	0.97
Benin	0.89	0.88	0.89	0.90	0.90	0.89	0.90	0.89	0.89	0.90	0.89	0.89
Bolivia	1.04	1.06	1.08	1.09	1.11	1.10	1.08	1.05	1.05	1.06	1.04	1.03
Bosnia and Herzegovina	1.12	1.12	1.11	1.09	1.11	1.18	1.18	1.19	1.16	1.16	1.11	1.12
Botswana	0.94	0.96	0.99	0.97	0.94	0.95	0.95	0.96	0.97	0.95	0.92	0.90
Brazil	1.09	1.08	1.07	1.04	1.01	0.99	0.98	1.00	1.01	1.01	1.02	1.01
Bulgaria	1.31	1.29	1.27	1.26	1.25	1.27	1.27	1.27	1.27	1.25	1.27	1.27
Burkina Faso	0.79	0.79	0.81	0.83	0.81	0.81	0.80	0.82	0.84	0.86	0.86	0.88
Burundi	0.71	0.70	0.75	0.75	0.75	0.74	0.76	0.79	0.74	0.72	0.70	0.72
Cambodia	0.93	0.93	0.97	0.95	0.97	0.99	0.97	0.97	0.98	0.98	0.99	0.99
Cameroon	0.79	0.79	0.79	0.79	0.80	0.82	0.84	0.82	0.82	0.82	0.83	0.82
Canada	0.95	0.95	0.95	0.96	0.95	0.93	0.93	0.94	0.95	0.96	0.95	0.95
Chad	0.47	0.47	0.47	0.49	0.46	0.45	0.45	0.45	0.47	0.47	0.47	0.47
Chile	1.24	1.21	1.22	1.21	1.18	1.15	1.15	1.15	1.15	1.14	1.12	1.11
China	1.05	1.05	1.16	1.13	1.12	1.10	1.10	1.08	1.06	1.04	1.06	1.06
Colombia	1.00	1.00	0.99	1.03	1.03	1.01	1.00	1.00	1.04	1.06	1.09	1.08
Costa Rica	1.22	1.20	1.19	1.19	1.20	1.18	1.19	1.18	1.16	1.13	1.10	1.11
Côte d'Ivoire	0.72	0.72	0.74	0.70	0.67	0.69	0.70	0.73	0.78	0.78	0.78	0.77
Croatia	1.11	1.09	1.10	1.13	1.13	1.17	1.19	1.20	1.18	1.18	1.18	1.18
Cyprus	0.92	0.92	0.92	0.91	0.90	0.92	0.94	0.95	0.94	0.95	0.96	0.96
Czechia	1.19	1.17	1.15	1.14	1.14	1.16	1.18	1.20	1.19	1.17	1.14	1.15
DR Congo	0.58	0.58	0.57	0.56	0.60	0.61	0.60	0.60	0.60	0.55	0.58	0.54
Denmark	1.00	1.00	1.00	0.98	0.99	0.98	0.97	0.98	0.98	0.99	0.99	0.99
Dominican Republic	1.05	1.07	1.03	1.02	1.01	1.06	1.05	1.09	1.05	1.03	1.04	1.04

Country	Wealth-to-Well-Being Coefficient											
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Ecuador	1.05	1.04	1.05	1.07	1.07	1.12	1.12	1.10	1.09	1.09	1.09	1.09
Egypt	1.15	1.15	1.15	1.12	1.09	1.08	1.05	0.99	0.98	0.98	0.99	1.04
El Salvador	1.16	1.16	1.15	1.16	1.15	1.16	1.14	1.15	1.14	1.11	1.09	1.08
Estonia	1.26	1.24	1.23	1.22	1.21	1.22	1.20	1.20	1.19	1.18	1.15	1.14
Eswatini	0.61	0.61	0.64	0.70	0.70	0.69	0.70	0.70	0.70	0.72	0.74	0.73
Ethiopia	0.70	0.71	0.74	0.73	0.76	0.75	0.80	0.80	0.78	0.80	0.75	0.75
Finland	1.01	1.01	1.01	1.00	1.01	1.02	1.03	1.02	1.01	1.01	1.01	1.00
France	0.92	0.92	0.91	0.92	0.92	0.93	0.94	0.94	0.94	0.93	0.94	0.94
Gabon	0.86	0.84	0.83	0.86	0.87	0.84	0.86	0.86	0.89	0.89	0.88	0.85
Georgia	1.23	1.27	1.22	1.27	1.27	1.27	1.30	1.30	1.34	1.37	1.37	1.37
Germany	0.99	0.99	0.99	0.98	0.98	0.99	1.00	1.00	0.99	0.98	0.97	0.98
Ghana	1.07	1.07	1.07	1.08	1.07	1.06	1.06	1.04	1.05	1.06	1.07	1.06
Greece	0.98	0.97	0.94	0.94	0.95	0.97	0.99	1.00	1.00	1.00	1.02	1.02
Guatemala	0.98	0.99	1.01	1.03	1.01	1.00	0.97	0.96	0.98	0.97	0.97	0.96
Guinea	0.61	0.63	0.63	0.61	0.61	0.63	0.64	0.64	0.67	0.69	0.69	0.72
Guyana	1.01	1.01	1.02	1.03	1.01	1.02	0.99	0.99	1.00	0.99	0.99	0.99
Honduras	1.01	1.01	1.03	1.01	1.00	0.98	0.98	0.98	1.03	1.02	1.02	1.02
Hungary	1.28	1.27	1.25	1.24	1.25	1.27	1.27	1.25	1.23	1.20	1.19	1.18
Iceland	1.01	1.01	1.03	1.06	1.07	1.05	1.02	1.02	1.00	1.00	1.01	1.02
India	0.90	0.92	0.90	0.92	0.97	0.96	0.98	0.99	1.02	1.03	1.01	1.02
Indonesia	1.06	1.10	1.11	1.12	1.10	1.09	1.11	1.12	1.12	1.16	1.17	1.16
Iran	1.01	1.01	0.98	0.96	0.96	0.95	0.95	0.99	1.03	1.03	1.07	1.06
Iraq	0.84	0.83	0.82	0.78	0.76	0.71	0.70	0.74	0.81	0.83	0.67	0.69
Ireland	0.94	0.93	0.93	0.93	0.94	0.96	0.96	0.96	0.97	0.97	0.97	0.97
Israel	0.94	0.92	0.89	0.87	0.87	0.88	0.88	0.87	0.86	0.85	0.83	0.84
Italy	0.90	0.90	0.90	0.90	0.89	0.91	0.92	0.92	0.92	0.91	0.91	0.91
Jamaica	1.12	1.09	1.10	1.09	1.10	1.09	1.08	1.11	1.12	1.12	1.11	1.12
Japan	0.92	0.94	0.94	0.92	0.90	0.90	0.91	0.93	0.95	0.94	0.95	0.95
Jordan	1.24	1.24	1.23	1.21	1.20	1.20	1.19	1.19	1.18	1.15	1.12	1.14
Kazakhstan	1.24	1.23	1.19	1.19	1.17	1.16	1.10	1.09	1.10	1.15	1.21	1.20
Kenya	0.83	0.81	0.80	0.84	0.82	0.82	0.84	0.88	0.90	0.91	0.91	0.92
Kuwait	0.81	0.79	0.80	0.83	0.82	0.79	0.79	0.79	0.81	0.83	0.84	0.86
Kyrgyzstan	1.15	1.17	1.19	1.17	1.18	1.20	1.17	1.17	1.17	1.19	1.22	1.22
Lao PDR	0.81	0.84	0.88	0.89	0.93	0.89	0.92	0.93	0.92	0.91	0.92	0.95
Latvia	1.26	1.21	1.16	1.19	1.17	1.20	1.20	1.19	1.18	1.16	1.16	1.16
Lebanon	1.06	1.06	1.06	1.02	0.96	0.95	0.95	0.93	0.90	0.90	0.88	0.90
Lesotho	0.68	0.69	0.73	0.74	0.73	0.74	0.74	0.71	0.69	0.69	0.70	0.66

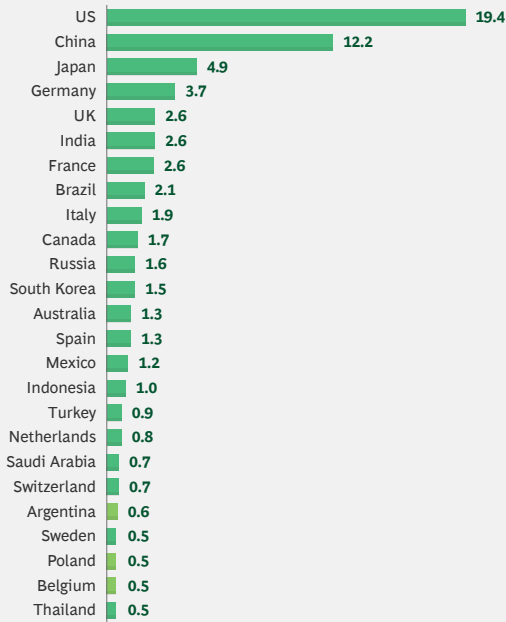
TABLE 3 | Wealth-to-Well-Being Coefficients
(continued)

Country	Wealth-to-Well-Being Coefficient											
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Lithuania	1.30	1.26	1.22	1.24	1.24	1.24	1.23	1.20	1.20	1.19	1.17	1.17
Luxembourg	1.24	1.18	1.03	1.07	1.05	1.00	0.99	0.99	1.01	1.04	1.05	1.05
Macedonia	1.15	1.17	1.14	1.17	1.15	1.17	1.18	1.19	1.17	1.17	1.20	1.20
Madagascar	0.87	0.86	0.81	0.78	0.80	0.81	0.81	0.81	0.81	0.83	0.81	0.82
Malawi	0.81	0.83	0.86	0.86	0.88	0.85	0.83	0.84	0.85	0.84	0.85	0.85
Malaysia	1.26	1.26	1.21	1.21	1.20	1.19	1.19	1.19	1.20	1.18	1.20	1.21
Mali	0.76	0.76	0.78	0.81	0.80	0.72	0.76	0.75	0.76	0.76	0.74	0.74
Malta	1.11	1.08	1.06	1.06	1.04	1.08	1.08	1.06	1.03	1.02	1.01	1.02
Mauritania	0.73	0.71	0.70	0.68	0.68	0.69	0.69	0.72	0.72	0.71	0.73	0.73
Mauritius	1.22	1.21	1.20	1.21	1.21	1.22	1.22	1.21	1.19	1.17	1.14	1.15
Mexico	0.97	0.97	0.99	0.99	1.00	0.99	0.99	0.97	0.97	1.00	1.00	1.01
Moldova	1.34	1.35	1.29	1.29	1.31	1.31	1.27	1.28	1.29	1.29	1.29	1.30
Mongolia	1.23	1.22	1.26	1.27	1.26	1.21	1.20	1.21	1.23	1.24	1.26	1.26
Montenegro	1.18	1.18	1.21	1.20	1.20	1.22	1.20	1.20	1.18	1.18	1.17	1.17
Morocco	1.04	1.05	1.07	1.09	1.08	1.09	1.10	1.10	1.11	1.11	1.11	1.11
Mozambique	0.74	0.76	0.77	0.76	0.77	0.76	0.74	0.67	0.67	0.62	0.62	0.62
Myanmar	0.76	0.78	0.78	0.75	0.79	0.81	0.80	0.81	0.83	0.86	0.91	0.94
Namibia	0.84	0.85	0.84	0.87	0.86	0.85	0.86	0.85	0.87	0.87	0.90	0.90
Nepal	0.92	0.95	0.97	1.03	1.05	1.02	1.05	1.07	1.06	1.06	1.08	1.09
Netherlands	0.97	0.98	0.98	0.97	0.98	0.99	0.99	0.99	0.99	0.98	0.98	0.99
New Zealand	1.08	1.09	1.08	1.09	1.06	1.03	1.02	1.00	1.00	1.00	0.99	0.99
Nicaragua	1.07	1.06	1.09	1.08	1.09	1.11	1.12	1.12	1.10	1.10	1.12	1.10
Niger	0.81	0.81	0.80	0.79	0.82	0.79	0.80	0.81	0.81	0.79	0.77	0.81
Nigeria	0.64	0.65	0.63	0.59	0.62	0.60	0.60	0.62	0.63	0.61	0.62	0.61
Norway	1.16	1.24	1.30	1.24	1.25	1.28	1.30	1.32	1.25	1.19	1.16	1.16
Oman	1.06	1.03	1.04	1.04	1.01	0.99	0.98	1.00	1.03	1.04	1.06	1.08
Pakistan	0.73	0.72	0.70	0.70	0.69	0.68	0.70	0.70	0.69	0.70	0.69	0.70
Panama	1.13	1.12	1.10	1.11	1.07	1.05	1.02	1.01	1.01	0.98	0.96	0.95
Paraguay	1.09	1.10	1.14	1.11	1.10	1.10	1.08	1.07	1.08	1.09	1.10	1.09
Peru	1.07	1.09	1.08	1.10	1.11	1.08	1.05	1.07	1.07	1.07	1.08	1.08
Philippines	1.13	1.12	1.11	1.09	1.10	1.10	1.07	1.07	1.09	1.08	1.07	1.06
Poland	1.27	1.26	1.24	1.26	1.26	1.28	1.30	1.29	1.27	1.27	1.25	1.25
Portugal	1.09	1.09	1.08	1.09	1.09	1.12	1.13	1.13	1.12	1.11	1.11	1.10
Qatar	0.79	0.79	0.82	0.82	0.83	0.84	0.84	0.82	0.83	0.81	0.81	0.82
Republic of the Congo	0.67	0.68	0.70	0.73	0.74	0.74	0.74	0.75	0.74	0.76	0.79	0.74

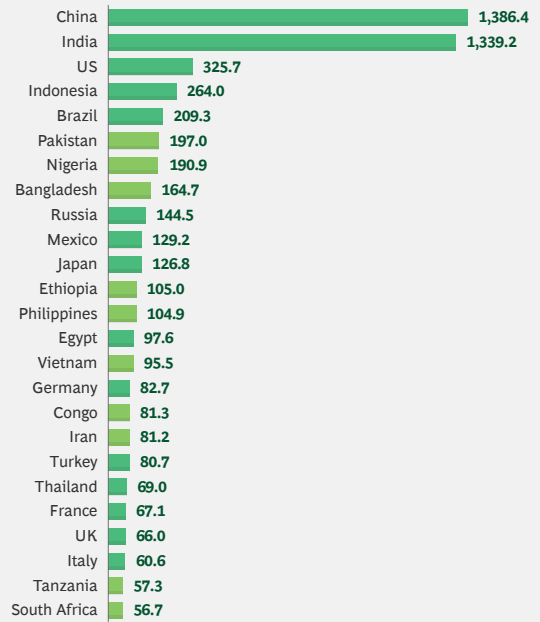
Country	Wealth-to-Well-Being Coefficient											
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Romania	1.18	1.17	1.16	1.18	1.18	1.19	1.18	1.18	1.17	1.15	1.15	1.14
Russia	1.11	1.09	1.08	1.08	1.07	1.03	1.01	1.01	1.05	1.10	1.13	1.14
Rwanda	0.79	0.80	0.81	0.89	0.92	0.92	0.95	0.99	0.99	0.99	1.05	1.07
Saudi Arabia	0.95	0.95	0.95	0.95	0.94	0.92	0.93	0.94	0.92	0.90	0.93	0.92
Senegal	0.94	0.95	0.97	0.95	0.97	0.99	1.01	1.03	1.04	1.04	1.03	1.03
Serbia	1.14	1.14	1.14	1.14	1.17	1.19	1.20	1.22	1.24	1.25	1.24	1.24
Singapore	1.05	1.05	1.03	0.99	0.99	0.99	0.97	0.96	0.97	0.97	0.97	0.95
Slovakia	1.16	1.13	1.12	1.14	1.13	1.14	1.14	1.14	1.12	1.11	1.13	1.12
Slovenia	1.10	1.09	1.08	1.07	1.07	1.11	1.13	1.12	1.12	1.11	1.10	1.10
South Africa	0.75	0.76	0.76	0.76	0.75	0.78	0.84	0.86	0.90	0.91	0.89	0.86
South Korea	1.03	1.05	1.08	1.10	1.08	1.07	1.07	1.05	1.02	0.99	0.98	0.99
Spain	0.99	0.97	0.95	0.97	0.98	1.01	1.02	1.02	1.01	1.00	0.99	1.00
Sri Lanka	1.15	1.18	1.25	1.25	1.24	1.21	1.22	1.21	1.23	1.21	1.19	1.20
Sudan	0.63	0.65	0.67	0.66	0.65	0.62	0.63	0.59	0.58	0.58	0.57	0.56
Suriname	1.05	1.00	1.03	1.00	1.00	1.09	1.13	1.12	1.08	1.10	1.12	1.14
Sweden	1.01	1.00	1.00	1.00	1.00	0.99	0.97	0.97	0.98	0.99	0.99	0.99
Switzerland	0.99	1.00	1.05	1.07	1.08	1.08	1.08	1.07	1.14	1.19	1.21	1.22
Tajikistan	1.09	1.09	1.11	1.10	1.12	1.10	1.09	1.09	1.09	1.11	1.14	1.11
Tanzania	0.91	0.92	0.91	0.95	0.95	0.94	0.94	0.93	0.95	0.96	0.95	0.97
Thailand	1.25	1.26	1.25	1.24	1.24	1.22	1.22	1.23	1.20	1.17	1.16	1.16
Togo	0.86	0.86	0.85	0.88	0.88	0.86	0.87	0.88	0.90	0.92	0.89	0.89
Trinidad and Tobago	0.96	0.93	0.95	0.94	0.98	0.94	0.93	0.95	0.93	0.95	0.96	0.96
Tunisia	1.18	1.19	1.19	1.19	1.21	1.19	1.17	1.19	1.18	1.17	1.18	1.19
Turkey	0.96	0.97	0.97	0.99	1.00	1.00	1.03	1.03	1.01	0.99	1.00	0.99
Uganda	0.81	0.81	0.79	0.81	0.79	0.81	0.83	0.80	0.79	0.79	0.81	0.82
Ukraine	1.42	1.41	1.38	1.38	1.39	1.39	1.36	1.29	1.29	1.34	1.35	1.36
United Arab Emirates	0.84	0.85	0.87	0.87	0.88	0.87	0.87	0.85	0.84	0.85	0.86	0.85
United Kingdom	0.90	0.90	0.91	0.92	0.92	0.93	0.94	0.94	0.93	0.92	0.92	0.92
United States	0.92	0.92	0.92	0.91	0.90	0.90	0.89	0.89	0.89	0.90	0.90	0.90
Uruguay	1.33	1.32	1.28	1.23	1.19	1.15	1.14	1.14	1.12	1.11	1.10	1.09
Uzbekistan	1.08	1.10	1.08	1.08	1.09	1.09	1.08	1.07	1.04	1.05	1.08	1.06
Venezuela	0.92	0.94	0.91	0.87	0.87	0.88	0.89	0.85	0.82	0.81	0.79	0.79
Vietnam	1.16	1.18	1.21	1.19	1.19	1.34	1.32	1.34	1.33	1.32	1.34	1.35
Yemen	0.75	0.71	0.71	0.67	0.64	0.63	0.63	0.60	0.56	0.57	0.51	0.48
Zambia	0.81	0.83	0.79	0.79	0.80	0.82	0.82	0.81	0.83	0.83	0.86	0.82
Zimbabwe	0.69	0.66	0.69	0.70	0.69	0.72	0.73	0.74	0.75	0.77	0.76	0.77

The Global Powerhouses

25 LARGEST ECONOMIES
(GDP, \$TRILLIONS)



25 MOST POPULOUS COUNTRIES
(MILLIONS)



Because some countries fall into both categories, there are a total of 36 global powerhouses

Source: World Bank 2017.