

**Indicator:** Access to improved sanitation**Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Health**Tertiary indicator:** Response**Explanation:** Access to improved sanitation facilities refers to the percentage of the population with at least adequate access to excreta disposal facilities that can effectively prevent human, animal, and insect contact with excreta. Improved facilities range from simple but protected pit latrines to flush toilets with a sewerage connection. To be effective, facilities must be correctly constructed and properly maintained.**Sources:** World Bank (<http://data.worldbank.org/indicator/SH.STA.ACSN>)**Period:** 1990-2011**Units:** percent of population**Most recent data**

Albania	94.0000	Ecuador	92.0000	Lebanon	98.0000	Rwanda	55.0000
Algeria	95.0000	Egypt	95.0000	Lithuania	86.0000	Saudi Arabia	-
Angola	58.0000	El Salvador	87.0000	Macedonia, FYR	88.0000	Senegal	52.0000
Argentina	90.0000	Estonia	95.0000	Madagascar	15.0000	Sierra Leone	13.0000
Armenia	90.0000	Ethiopia	21.0000	Malawi	51.0000	Slovakia	100.0000
Australia	100.0000	Finland	100.0000	Malaysia	96.0000	Slovenia	100.0000
Austria	100.0000	France	100.0000	Mali	22.0000	South Africa	79.0000
Azerbaijan	82.0000	Gabon	33.0000	Mauritania	26.0000	South Korea	100.0000
Bangladesh	56.0000	Gambia	68.0000	Mexico	85.0000	Spain	100.0000
Belarus	93.0000	Georgia	95.0000	Moldova	85.0000	Sri Lanka	92.0000
Belgium	100.0000	Germany	100.0000	Mongolia	51.0000	Sudan	26.0000
Benin	13.0000	Ghana	14.0000	Morocco	70.0000	Sweden	100.0000
Bolivia	27.0000	Greece	98.0000	Mozambique	18.0000	Switzerland	100.0000
Botswana	62.0000	Guatemala	78.0000	Namibia	32.0000	Syria	95.0000
Brazil	79.0000	Guinea	18.0000	Nepal	31.0000	Tajikistan	94.0000
Bulgaria	100.0000	Guinea Bis.	20.0000	Netherlands	100.0000	Tanzania	10.0000
Burkina Faso	17.0000	Honduras	77.0000	New Zealand	100.0000*	Thailand	96.0000
Burundi	46.0000	Hungary	100.0000	Nicaragua	52.0000	Togo	13.0000
C. African R.	34.0000	India	34.0000	Niger	9.0000	Tunisia	85.0000
Cambodia	31.0000	Indonesia	54.0000	Nigeria	31.0000	Turkey	90.0000
Cameroon	49.0000	Iran	100.0000	Norway	100.0000	UAE	98.0000
Canada	100.0000	Ireland	99.0000	Oman	99.0000	Uganda	34.0000
Chad	13.0000	Israel	100.0000	Pakistan	48.0000	UK	100.0000
Chile	96.0000	Italy	100.0000*	Panama	69.0000	Ukraine	94.0000
China	64.0000	Japan	100.0000	Papua N.G.	45.0000	Uruguay	100.0000
Colombia	77.0000	Jordan	98.0000	Paraguay	71.0000	USA	100.0000
Congo	18.0000	Kazakhstan	97.0000	Peru	71.0000	Uzbekistan	100.0000
Cote d'Ivoire	24.0000	Kenya	32.0000	Philippines	74.0000	Venezuela	91.0000
Croatia	99.0000	Kuwait	100.0000	Poland	90.0000	Vietnam	76.0000
Czech Rep.	98.0000	Kyrgyzstan	93.0000	Portugal	100.0000	Yemen	53.0000
D.R. Congo	24.0000	Laos	63.0000	Romania	73.0000	Zambia	48.0000
Denmark	100.0000	Latvia	78.0000	Russia	70.0000	Zimbabwe	40.0000

\* denotes estimated values

**Descriptive Statistics - based on most recent data**

Available	127	Mean	70.5354	Min	9.0000	Std. Deviation	30.8261	5 Percentile	14.3000
Missing	1	Median	85.0000	Max	100.0000			95 Percentile	100.0000

## Normalization

Type *LB (larger is better)* Parameters  $u=9.0000$   $\tau=100.0000$   
 Comments  $u=\min$   $r=\text{maximum possible}$

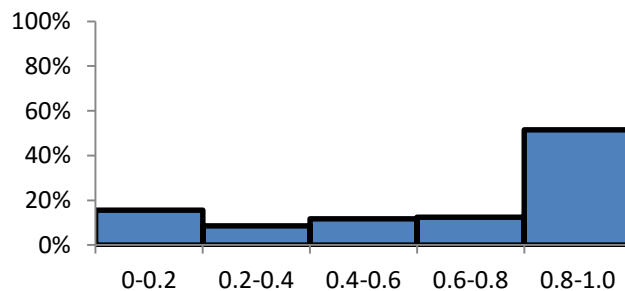
## Smoothed data

Albania	0.9341	Ecuador	0.9121	Lebanon	0.9780	Rwanda	0.5055
Algeria	0.9451	Egypt	0.9451	Lithuania	0.8462	Saudi Arabia	0.9890**
Angola	0.5385	El Salvador	0.8571	Macedonia, FYR	0.8681	Senegal	0.4725
Argentina	0.8901	Estonia	0.9451	Madagascar	0.0659	Sierra Leone	0.0440
Armenia	0.8901	Ethiopia	0.1319	Malawi	0.4615	Slovakia	1.0000
Australia	1.0000	Finland	1.0000	Malaysia	0.9560	Slovenia	1.0000
Austria	1.0000	France	1.0000	Mali	0.1429	South Africa	0.7692
Azerbaijan	0.8022	Gabon	0.2637	Mauritania	0.1868	South Korea	1.0000
Bangladesh	0.5165	Gambia	0.6484	Mexico	0.8352	Spain	1.0000
Belarus	0.9231	Georgia	0.9451	Moldova	0.8352	Sri Lanka	0.9121
Belgium	1.0000	Germany	1.0000	Mongolia	0.4615	Sudan	0.1870
Benin	0.0440	Ghana	0.0549	Morocco	0.6703	Sweden	1.0000
Bolivia	0.1978	Greece	0.9780	Mozambique	0.0989	Switzerland	1.0000
Botswana	0.5824	Guatemala	0.7582	Namibia	0.2527	Syria	0.9451
Brazil	0.7692	Guinea	0.0989	Nepal	0.2418	Tajikistan	0.9341
Bulgaria	1.0000	Guinea Bis.	0.1209	Netherlands	1.0000	Tanzania	0.0110
Burkina Faso	0.0879	Honduras	0.7473	New Zealand	1.0000*	Thailand	0.9560
Burundi	0.4066	Hungary	1.0000	Nicaragua	0.4725	Togo	0.0440
C. African R.	0.2747	India	0.2747	Niger	0.0000	Tunisia	0.8352
Cambodia	0.2418	Indonesia	0.4945	Nigeria	0.2418	Turkey	0.8901
Cameroon	0.4392	Iran	1.0000	Norway	1.0000	UAE	0.9780
Canada	1.0000	Ireland	0.9890	Oman	0.9890	Uganda	0.2747
Chad	0.0440	Israel	1.0000	Pakistan	0.4286	UK	1.0000
Chile	0.9560	Italy	1.0000*	Panama	0.6593	Ukraine	0.9341
China	0.6044	Japan	1.0000	Papua N.G.	0.3956	Uruguay	1.0000
Colombia	0.7473	Jordan	0.9780	Paraguay	0.6813	USA	1.0000
Congo	0.0989	Kazakhstan	0.9670	Peru	0.6813	Uzbekistan	1.0000
Cote d'Ivoire	0.1648	Kenya	0.2527	Philippines	0.7143	Venezuela	0.9011
Croatia	0.9890	Kuwait	1.0000	Poland	0.8901	Vietnam	0.7363
Czech Rep.	0.9780	Kyrgyzstan	0.9231	Portugal	1.0000	Yemen	0.4835
D.R. Congo	0.1648	Laos	0.5934	Romania	0.7033	Zambia	0.4271
Denmark	1.0000	Latvia	0.7582	Russia	0.6703	Zimbabwe	0.3382

\* denotes estimated values      \*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.6786	Min	0.0000	Std. Deviation	0.3386	5 Percentile	0.0588
Missing	0	Median	0.8352	Max	1.0000			95 Percentile	1.0000



**Indicator:** Access to improved water sources**Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Health**Tertiary indicator:** Response**Explanation:** Access to an improved water source refers to the percentage of the population with reasonable access to an adequate amount of water from an improved source, such as a household connection, public standpipe, borehole, protected well or spring, and rainwater collection. Unimproved sources include vendors, tanker trucks, and unprotected wells and springs. Reasonable access is defined as the availability of at least 20 liters a person a day from a source within one kilometer of the dwelling.**Sources:** World Bank (<http://data.worldbank.org/indicator/SH.H2O.SAFE.ZS>)**Period:** 1990-2011**Units:** percent of population**Most recent data**

Albania	95.0000	Ecuador	94.0000	Lebanon	100.0000	Rwanda	65.0000
Algeria	83.0000	Egypt	99.0000	Lithuania	92.0000	Saudi Arabia	90.0000
Angola	51.0000	El Salvador	88.0000	Macedonia, FYR	100.0000	Senegal	72.0000
Argentina	97.0000	Estonia	98.0000	Madagascar	46.0000	Sierra Leone	55.0000
Armenia	98.0000	Ethiopia	44.0000	Malawi	83.0000	Slovakia	100.0000
Australia	100.0000	Finland	100.0000	Malaysia	100.0000	Slovenia	99.0000
Austria	100.0000	France	100.0000	Mali	64.0000	South Africa	91.0000
Azerbaijan	80.0000	Gabon	87.0000	Mauritania	50.0000	South Korea	98.0000
Bangladesh	81.0000	Gambia	89.0000	Mexico	96.0000	Spain	100.0000
Belarus	100.0000	Georgia	98.0000	Moldova	96.0000	Sri Lanka	91.0000
Belgium	100.0000	Germany	100.0000	Mongolia	82.0000	Sudan	58.0000
Benin	75.0000	Ghana	86.0000	Morocco	83.0000	Sweden	100.0000
Bolivia	88.0000	Greece	100.0000	Mozambique	47.0000	Switzerland	100.0000
Botswana	96.0000	Guatemala	92.0000	Namibia	93.0000	Syria	90.0000
Brazil	98.0000	Guinea	74.0000	Nepal	89.0000	Tajikistan	64.0000
Bulgaria	100.0000	Guinea Bis.	64.0000	Netherlands	100.0000	Tanzania	53.0000
Burkina Faso	79.0000	Honduras	87.0000	New Zealand	100.0000	Thailand	96.0000
Burundi	72.0000	Hungary	100.0000	Nicaragua	85.0000	Togo	61.0000
C. African R.	67.0000	India	92.0000	Niger	49.0000	Tunisia	94.0000
Cambodia	64.0000	Indonesia	82.0000	Nigeria	58.0000	Turkey	100.0000
Cameroon	77.0000	Iran	96.0000	Norway	100.0000	UAE	100.0000
Canada	100.0000	Ireland	100.0000	Oman	89.0000	Uganda	72.0000
Chad	51.0000	Israel	100.0000	Pakistan	92.0000	UK	100.0000
Chile	96.0000	Italy	100.0000	Panama	93.0000	Ukraine	98.0000
China	91.0000	Japan	100.0000	Papua N.G.	40.0000	Uruguay	100.0000
Colombia	92.0000	Jordan	97.0000	Paraguay	86.0000	USA	99.0000
Congo	71.0000	Kazakhstan	95.0000	Peru	85.0000	Uzbekistan	87.0000
Cote d'Ivoire	80.0000	Kenya	59.0000	Philippines	92.0000	Venezuela	93.0000
Croatia	99.0000	Kuwait	99.0000	Poland	-	Vietnam	95.0000
Czech Rep.	100.0000	Kyrgyzstan	90.0000	Portugal	99.0000	Yemen	55.0000
D.R. Congo	45.0000	Laos	67.0000	Romania	89.0000	Zambia	61.0000
Denmark	100.0000	Latvia	99.0000	Russia	97.0000	Zimbabwe	80.0000

**Descriptive Statistics - based on most recent data**

Available	127	Mean	85.7795	Min	40.0000	Std. Deviation	16.6285	5 Percentile	50.3000
Missing	1	Median	92.0000	Max	100.0000			95 Percentile	100.0000

## Normalization

Type *LB (larger is better)* Parameters  $u=40.0000$   $\tau=100.0000$   
 Comments  $u=\min$   $r=\text{maximum possible}$

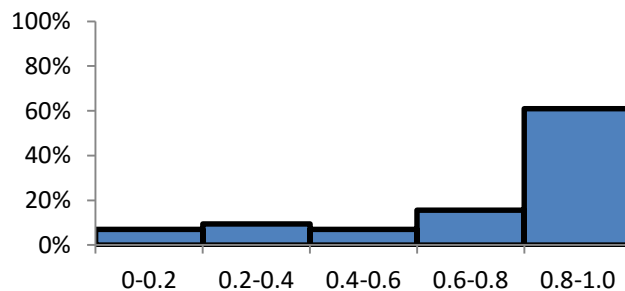
## Smoothed data

Albania	0.9172	Ecuador	0.9000	Lebanon	1.0000	Rwanda	0.4333
Algeria	0.7167	Egypt	0.9833	Lithuania	0.8667	Saudi Arabia	0.8333
Angola	0.1833	El Salvador	0.8000	Macedonia, FYR	1.0000	Senegal	0.5333
Argentina	0.9500	Estonia	0.9667	Madagascar	0.1000	Sierra Leone	0.2500
Armenia	0.9667	Ethiopia	0.0667	Malawi	0.7167	Slovakia	1.0000
Australia	1.0000	Finland	1.0000	Malaysia	1.0000	Slovenia	0.9833
Austria	1.0000	France	1.0000	Mali	0.4000	South Africa	0.8500
Azerbaijan	0.6667	Gabon	0.7833	Mauritania	0.1667	South Korea	0.9667
Bangladesh	0.6833	Gambia	0.8167	Mexico	0.9333	Spain	1.0000
Belarus	1.0000	Georgia	0.9667	Moldova	0.9333	Sri Lanka	0.8500
Belgium	1.0000	Germany	1.0000	Mongolia	0.7000	Sudan	0.3000
Benin	0.5833	Ghana	0.7667	Morocco	0.7167	Sweden	1.0000
Bolivia	0.8000	Greece	1.0000	Mozambique	0.1167	Switzerland	1.0000
Botswana	0.9333	Guatemala	0.8667	Namibia	0.8833	Syria	0.8286
Brazil	0.9667	Guinea	0.5667	Nepal	0.8167	Tajikistan	0.3989
Bulgaria	1.0000	Guinea Bis.	0.4000	Netherlands	1.0000	Tanzania	0.2167
Burkina Faso	0.6500	Honduras	0.7833	New Zealand	1.0000	Thailand	0.9333
Burundi	0.5333	Hungary	1.0000	Nicaragua	0.7500	Togo	0.3500
C. African R.	0.4500	India	0.8667	Niger	0.1500	Tunisia	0.9000
Cambodia	0.4000	Indonesia	0.7000	Nigeria	0.3000	Turkey	1.0000
Cameroon	0.6167	Iran	0.9332	Norway	1.0000	UAE	1.0000
Canada	1.0000	Ireland	1.0000	Oman	0.8167	Uganda	0.5333
Chad	0.1833	Israel	1.0000	Pakistan	0.8667	UK	1.0000
Chile	0.9333	Italy	1.0000	Panama	0.8833	Ukraine	0.9640
China	0.8500	Japan	1.0000	Papua N.G.	0.0000	Uruguay	1.0000
Colombia	0.8667	Jordan	0.9500	Paraguay	0.7667	USA	0.9833
Congo	0.5167	Kazakhstan	0.9181	Peru	0.7500	Uzbekistan	0.7833
Cote d'Ivoire	0.6667	Kenya	0.3167	Philippines	0.8667	Venezuela	0.8833
Croatia	0.9833	Kuwait	0.9833	Poland	0.9833**	Vietnam	0.9167
Czech Rep.	1.0000	Kyrgyzstan	0.8333	Portugal	0.9833	Yemen	0.2500
D.R. Congo	0.0833	Laos	0.4500	Romania	0.8167	Zambia	0.3500
Denmark	1.0000	Latvia	0.9833	Russia	0.9500	Zimbabwe	0.6660

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.7648	Min	0.0000	Std. Deviation	0.2766	5 Percentile	0.1725
Missing	0	Median	0.8667	Max	1.0000			95 Percentile	1.0000



**Indicator: BOD emissions****Primary indicator:** Ecological Sustainability (ECOS)**Secondary indicator:** Water**Tertiary indicator:** State**Explanation:** Emissions of organic water pollutants are measured by biochemical oxygen demand, which is the amount of oxygen that bacteria in water will consume to break down waste. This is a standard water treatment test for the presence of organic pollutants.**Sources:** World Bank (calculated from <http://data.worldbank.org/indicator/EE.BOD.TOTL.KG> and <http://data.worldbank.org/indicator/SP.POP.TOTL>)**Period:** 1990-2011**Units:** BOD, biological oxygen demand in kg per capita per day**Most recent data**

Albania	0.0011	Ecuador	0.0033	Lebanon	0.0040	Rwanda	0.0011
Algeria	-	Egypt	0.0032	Lithuania	0.0125	Saudi Arabia	0.0043
Angola	-	El Salvador	-	Macedonia, FYR	0.0099	Senegal	0.0007
Argentina	0.0041	Estonia	0.0120	Madagascar	0.0050	Sierra Leone	-
Armenia	-	Ethiopia	0.0004	Malawi	0.0028	Slovakia	0.0089
Australia	-	Finland	0.0105	Malaysia	0.0078	Slovenia	0.0143
Austria	0.0102	France	0.0089	Mali	-	South Africa	0.0048
Azerbaijan	0.0023	Gabon	-	Mauritania	-	South Korea	0.0066
Bangladesh	0.0024	Gambia	0.0007	Mexico	-	Spain	0.0086
Belarus	-	Georgia	-	Moldova	0.0052	Sri Lanka	0.0134
Belgium	0.0091	Germany	0.0114	Mongolia	0.0033	Sudan	0.0014
Benin	-	Ghana	0.0008	Morocco	0.0024	Sweden	0.0107
Bolivia	0.0014	Greece	0.0055	Mozambique	-	Switzerland	-
Botswana	0.0017	Guatemala	-	Namibia	-	Syria	0.0042
Brazil	-	Guinea	-	Nepal	0.0010	Tajikistan	0.0019
Bulgaria	0.0133	Guinea Bis.	-	Netherlands	0.0078	Tanzania	0.0007
Burkina Faso	-	Honduras	-	New Zealand	0.0146	Thailand	0.0086
Burundi	-	Hungary	0.0110	Nicaragua	-	Togo	-
C. African R.	-	India	-	Niger	-	Tunisia	-
Cambodia	0.0002	Indonesia	0.0038	Nigeria	-	Turkey	0.0050
Cameroon	-	Iran	0.0023	Norway	0.0101	UAE	-
Canada	0.0097	Ireland	0.0067	Oman	0.0030	Uganda	0.0001
Chad	-	Israel	0.0079	Pakistan	0.0010	UK	0.0087
Chile	0.0056	Italy	0.0081	Panama	0.0042	Ukraine	0.0107
China	0.0072	Japan	0.0088	Papua N.G.	-	Uruguay	-
Colombia	0.0020	Jordan	0.0051	Paraguay	0.0019	USA	0.0062
Congo	-	Kazakhstan	0.0063	Peru	-	Uzbekistan	-
Cote d'Ivoire	-	Kenya	-	Philippines	0.0017	Venezuela	-
Croatia	0.0097	Kuwait	-	Poland	0.0094	Vietnam	0.0065
Czech Rep.	0.0143	Kyrgyzstan	0.0023	Portugal	0.0083	Yemen	0.0022
D.R. Congo	-	Laos	0.0008	Romania	0.0103	Zambia	-
Denmark	0.0112	Latvia	0.0125	Russia	0.0097	Zimbabwe	0.0025

**Descriptive Statistics - based on most recent data**

Available	84	Mean	0.0060	Min	0.0001	Std. Deviation	0.0041	5 Percentile	0.0007
Missing	44	Median	0.0053	Max	0.0146			95 Percentile	0.0132

## Normalization

Type *SB (smaller is better)* Parameters *T=0.0090* *U=0.0146*  
 Comments *T=average of EU-14* *U=max*

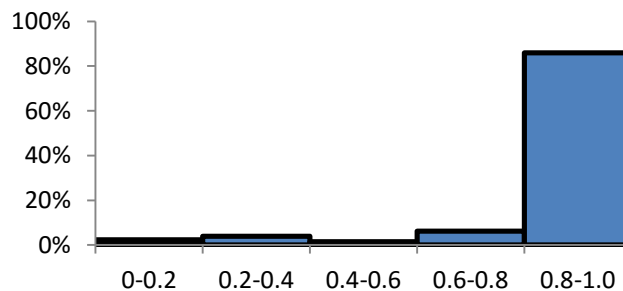
## Smoothed data

Albania	1.0000	Ecuador	1.0000	Lebanon	1.0000	Rwanda	1.0000
Algeria	0.2217**	Egypt	1.0000	Lithuania	0.3704	Saudi Arabia	1.0000
Angola	1.0000**	El Salvador	1.0000**	Macedonia, FYR	0.8285	Senegal	1.0000
Argentina	1.0000	Estonia	0.4560	Madagascar	1.0000	Sierra Leone	1.0000**
Armenia	1.0000**	Ethiopia	1.0000	Malawi	1.0000	Slovakia	1.0000
Australia	0.8659**	Finland	0.6841	Malaysia	1.0000	Slovenia	0.0740
Austria	0.7714	France	1.0000	Mali	1.0000**	South Africa	1.0000
Azerbaijan	1.0000	Gabon	1.0000**	Mauritania	1.0000**	South Korea	1.0000
Bangladesh	1.0000	Gambia	1.0000	Mexico	1.0000**	Spain	1.0000
Belarus	0.8659**	Georgia	1.0000**	Moldova	1.0000	Sri Lanka	0.2086
Belgium	0.9792	Germany	0.5725	Mongolia	1.0000	Sudan	1.0000
Benin	1.0000**	Ghana	1.0000	Morocco	1.0000	Sweden	0.6968
Bolivia	1.0000	Greece	1.0000	Mozambique	1.0000**	Switzerland	0.8857**
Botswana	1.0000	Guatemala	1.0000**	Namibia	1.0000**	Syria	1.0000
Brazil	1.0000**	Guinea	1.0000**	Nepal	1.0000	Tajikistan	1.0000
Bulgaria	0.2217	Guinea Bis.	1.0000**	Netherlands	1.0000	Tanzania	1.0000
Burkina Faso	1.0000**	Honduras	1.0000**	New Zealand	0.0000	Thailand	1.0000
Burundi	1.0000**	Hungary	0.6409	Nicaragua	1.0000**	Togo	1.0000**
C. African R.	1.0000**	India	1.0000**	Niger	1.0000**	Tunisia	0.6339**
Cambodia	1.0000	Indonesia	1.0000	Nigeria	1.0000**	Turkey	1.0000
Cameroon	1.0000**	Iran	1.0000	Norway	0.8043	UAE	1.0000**
Canada	0.8738	Ireland	0.9999	Oman	1.0000	Uganda	1.0000
Chad	1.0000**	Israel	1.0000	Pakistan	1.0000	UK	0.9952
Chile	1.0000	Italy	1.0000	Panama	1.0000	Ukraine	0.6339
China	1.0000	Japan	1.0000	Papua N.G.	1.0000**	Uruguay	1.0000**
Colombia	1.0000	Jordan	1.0000	Paraguay	1.0000	USA	0.9999
Congo	1.0000**	Kazakhstan	1.0000	Peru	1.0000**	Uzbekistan	1.0000**
Cote d'Ivoire	1.0000**	Kenya	1.0000**	Philippines	1.0000	Venezuela	1.0000**
Croatia	0.8771	Kuwait	1.0000**	Poland	0.9151	Vietnam	1.0000
Czech Rep.	0.0226	Kyrgyzstan	1.0000	Portugal	0.9956	Yemen	1.0000
D.R. Congo	1.0000**	Laos	1.0000	Romania	0.7614	Zambia	1.0000**
Denmark	0.6001	Latvia	0.3754	Russia	0.8659	Zimbabwe	1.0000

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.9117	Min	0.0000	Std. Deviation	0.2164	5 Percentile	0.3722
Missing	0	Median	1.0000	Max	1.0000			95 Percentile	1.0000



## Indicator: Central government debt

Primary indicator: Human Sustainability (HUMS)

Secondary indicator: Wealth

Tertiary indicator: State

Explanation: Debt is the entire stock of direct government fixed-term contractual obligations to others outstanding on a particular date. It includes domestic and foreign liabilities such as currency and money deposits, securities other than shares, and loans. It is the gross amount of government liabilities reduced by the amount of equity and financial derivatives held by the government. Because debt is a stock rather than a flow, it is measured as of a given date, usually the last day of the fiscal year.

Sources: World Bank (<http://data.worldbank.org/indicator/GC.DOD.TOTL.GD.ZS>)

Period: 1990-2011

Units: percent of GDP

### Most recent data

Albania	51.8627	Ecuador	-	Lebanon	-	Rwanda	48.4290
Algeria	-	Egypt	85.7885	Lithuania	43.6856	Saudi Arabia	-
Angola	-	El Salvador	48.0060	Macedonia, FYR	-	Senegal	68.8525
Argentina	-	Estonia	7.0583	Madagascar	96.7682	Sierra Leone	247.3814
Armenia	-	Ethiopia	84.1753	Malawi	-	Slovakia	45.5548
Australia	30.7478	Finland	47.7784	Malaysia	51.7687	Slovenia	22.0283
Austria	74.9725	France	93.9253	Mali	22.4000*	South Africa	45.2697
Azerbaijan	6.3849	Gabon	-	Mauritania	95.5000*	South Korea	9.5788
Bangladesh	36.1605	Gambia	48.7000*	Mexico	23.2178	Spain	55.1977
Belarus	44.1539	Georgia	32.6136	Moldova	23.7594	Sri Lanka	84.9944
Belgium	91.0051	Germany	55.6363	Mongolia	46.8744	Sudan	8.6587
Benin	-	Ghana	-	Morocco	56.2659	Sweden	38.2460
Bolivia	-	Greece	106.5406	Mozambique	-	Switzerland	27.6521
Botswana	11.2681	Guatemala	24.5514	Namibia	-	Syria	-
Brazil	52.7891	Guinea	83.8000*	Nepal	33.8368	Tajikistan	79.8037
Bulgaria	15.4549	Guinea Bis.	-	Netherlands	66.0398	Tanzania	-
Burkina Faso	19.8000*	Honduras	-	New Zealand	63.6214	Thailand	30.1785
Burundi	162.5614	Hungary	80.8598	Nicaragua	-	Togo	-
C. African R.	-	India	48.4982	Niger	-	Tunisia	44.0256
Cambodia	-	Indonesia	26.2199	Nigeria	2.9980	Turkey	45.9184
Cameroon	91.6629	Iran	-	Norway	20.3689	UAE	-
Canada	53.7955	Ireland	106.0344	Oman	5.1081	Uganda	42.7189
Chad	-	Israel	-	Pakistan	79.0847	UK	101.2088
Chile	-	Italy	110.8067	Panama	-	Ukraine	27.1361
China	11.6090	Japan	174.9787	Papua N.G.	69.7345	Uruguay	46.5676
Colombia	53.2009	Jordan	61.8547	Paraguay	12.7594	USA	81.7727
Congo	283.7453	Kazakhstan	9.9438	Peru	19.5366	Uzbekistan	-
Cote d'Ivoire	96.3694	Kenya	52.6441	Philippines	73.9450	Venezuela	-
Croatia	-	Kuwait	-	Poland	41.3786	Vietnam	-
Czech Rep.	38.0748	Kyrgyzstan	99.3310	Portugal	92.6145	Yemen	-
D.R. Congo	152.1870	Laos	-	Romania	-	Zambia	176.2007
Denmark	50.5685	Latvia	42.4651	Russia	9.5162	Zimbabwe	57.4068

\* denotes estimated values

### Descriptive Statistics - based on most recent data

Available	90	Mean	60.5128	Min	2.9980	Std. Deviation	48.3907	5 Percentile	9.0446
Missing	38	Median	48.5991	Max	283.7453			95 Percentile	157.8929

## Normalization

Type SB (smaller is better)

Parameters

T=77.8982

U=176.2007

Comments

T=average of EU-14

U=max (excluding 2.5% outliers)

## Smoothed data

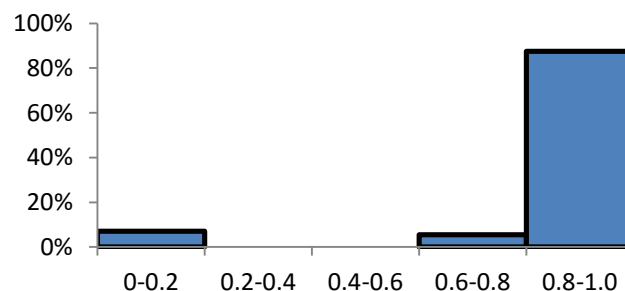
Albania	1.0000	Ecuador	1.0000**	Lebanon	1.0000**	Rwanda	1.0000
Algeria	0.9599**	Egypt	0.9197	Lithuania	1.0000	Saudi Arabia	1.0000**
Angola	1.0000**	El Salvador	1.0000	Macedonia, FYR	1.0000**	Senegal	0.9994
Argentina	1.0000**	Estonia	1.0000	Madagascar	0.8080	Sierra Leone	0.0077
Armenia	1.0000**	Ethiopia	0.9726	Malawi	0.9269**	Slovakia	1.0000
Australia	1.0000	Finland	1.0000	Malaysia	1.0000	Slovenia	1.0000
Austria	1.0000	France	0.8370	Mali	1.0000*	South Africa	1.0000
Azerbaijan	1.0000	Gabon	0.0000**	Mauritania	0.8209*	South Korea	1.0000
Bangladesh	1.0000	Gambia	1.0000*	Mexico	1.0000	Spain	1.0000
Belarus	1.0000	Georgia	1.0000	Moldova	0.9953	Sri Lanka	0.9278
Belgium	0.8667	Germany	1.0000	Mongolia	0.9845	Sudan	1.0000
Benin	0.1387**	Ghana	1.0000**	Morocco	1.0000	Sweden	1.0000
Bolivia	1.0000**	Greece	0.7086	Mozambique	0.9360**	Switzerland	1.0000
Botswana	1.0000	Guatemala	1.0000	Namibia	1.0000**	Syria	1.0000**
Brazil	1.0000	Guinea	0.9400*	Nepal	1.0000	Tajikistan	0.9806
Bulgaria	1.0000	Guinea Bis.	0.9700**	Netherlands	1.0000	Tanzania	0.9040**
Burkina Faso	1.0000*	Honduras	1.0000**	New Zealand	1.0000	Thailand	1.0000
Burundi	0.1387	Hungary	0.9697	Nicaragua	1.0000**	Togo	0.8777**
C. African R.	0.6690**	India	1.0000	Niger	1.0000**	Tunisia	1.0000
Cambodia	1.0000**	Indonesia	1.0000	Nigeria	1.0000	Turkey	1.0000
Cameroon	0.8417	Iran	0.7086**	Norway	1.0000	UAE	1.0000**
Canada	1.0000	Ireland	0.7138	Oman	1.0000	Uganda	1.0000
Chad	1.0000**	Israel	1.0000**	Pakistan	0.9927	UK	0.7629
Chile	1.0000**	Italy	0.6652	Panama	1.0000**	Ukraine	1.0000
China	1.0000	Japan	0.0124	Papua N.G.	1.0000	Uruguay	1.0000
Colombia	1.0000	Jordan	1.0000	Paraguay	1.0000	USA	0.9606
Congo	0.0000	Kazakhstan	1.0000	Peru	1.0000	Uzbekistan	1.0000**
Cote d'Ivoire	0.8121	Kenya	1.0000	Philippines	1.0000	Venezuela	1.0000**
Croatia	0.0000**	Kuwait	1.0000**	Poland	1.0000	Vietnam	1.0000**
Czech Rep.	1.0000	Kyrgyzstan	0.7820	Portugal	0.8503	Yemen	1.0000**
D.R. Congo	0.1677	Laos	1.0000**	Romania	1.0000**	Zambia	0.0525
Denmark	1.0000	Latvia	1.0000	Russia	1.0000	Zimbabwe	1.0000

\* denotes estimated values

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.9030	Min	0.0000	Std. Deviation	0.2456	5 Percentile	0.1387
Missing	0	Median	1.0000	Max	1.0000			95 Percentile	1.0000





**Indicator:** Civil liberties**Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Policy**Tertiary indicator:** State**Explanation:** The Freedom House Annual Survey employs a Civil Liberties checklist to help monitor the progress and decline of human rights worldwide. As previously, each country is rated on a seven-category scale, 1 representing the most free and 7 the least free.**Sources:** World Audit (<http://www.worldaudit.org/civillibs.htm>)**Period:** 1990-2011**Units:** seven-category scale (1 representing the most free and 7 the least free country)**Most recent data**

Albania	3.0000	Ecuador	3.0000	Lebanon	4.0000	Rwanda	5.0000
Algeria	5.0000	Egypt	5.0000	Lithuania	1.0000	Saudi Arabia	7.0000
Angola	5.0000	El Salvador	3.0000	Macedonia, FYR	3.0000	Senegal	3.0000
Argentina	2.0000	Estonia	1.0000	Madagascar	4.0000	Sierra Leone	3.0000
Armenia	4.0000	Ethiopia	6.0000	Malawi	4.0000	Slovakia	1.0000
Australia	1.0000	Finland	1.0000	Malaysia	4.0000	Slovenia	1.0000
Austria	1.0000	France	1.0000	Mali	3.0000	South Africa	2.0000
Azerbaijan	5.0000	Gabon	5.0000	Mauritania	5.0000	South Korea	2.0000
Bangladesh	4.0000	Gambia	5.0000	Mexico	3.0000	Spain	1.0000
Belarus	6.0000	Georgia	3.0000	Moldova	3.0000	Sri Lanka	4.0000
Belgium	1.0000	Germany	1.0000	Mongolia	2.0000	Sudan	7.0000
Benin	2.0000	Ghana	2.0000	Morocco	4.0000	Sweden	1.0000
Bolivia	3.0000	Greece	2.0000	Mozambique	3.0000	Switzerland	1.0000
Botswana	2.0000	Guatemala	4.0000	Namibia	2.0000	Syria	7.0000
Brazil	2.0000	Guinea	5.0000	Nepal	4.0000	Tajikistan	5.0000
Bulgaria	2.0000	Guinea Bis.	4.0000	Netherlands	1.0000	Tanzania	3.0000
Burkina Faso	3.0000	Honduras	4.0000	New Zealand	1.0000	Thailand	4.0000
Burundi	5.0000	Hungary	2.0000	Nicaragua	4.0000	Togo	4.0000
C. African R.	5.0000	India	3.0000	Niger	4.0000	Tunisia	4.0000
Cambodia	5.0000	Indonesia	3.0000	Nigeria	4.0000	Turkey	3.0000
Cameroon	6.0000	Iran	6.0000	Norway	1.0000	UAE	6.0000
Canada	1.0000	Ireland	1.0000	Oman	5.0000	Uganda	4.0000
Chad	6.0000	Israel	2.0000	Pakistan	5.0000	UK	1.0000
Chile	1.0000	Italy	1.0000	Panama	2.0000	Ukraine	3.0000
China	6.0000	Japan	2.0000	Papua N.G.	3.0000	Uruguay	1.0000
Colombia	4.0000	Jordan	5.0000	Paraguay	3.0000	USA	1.0000
Congo	5.0000	Kazakhstan	5.0000	Peru	3.0000	Uzbekistan	7.0000
Cote d'Ivoire	6.0000	Kenya	3.0000	Philippines	3.0000	Venezuela	5.0000
Croatia	2.0000	Kuwait	5.0000	Poland	1.0000	Vietnam	5.0000
Czech Rep.	1.0000	Kyrgyzstan	5.0000	Portugal	1.0000	Yemen	6.0000
D.R. Congo	6.0000	Laos	6.0000	Romania	2.0000	Zambia	4.0000
Denmark	1.0000	Latvia	2.0000	Russia	5.0000	Zimbabwe	6.0000

**Descriptive Statistics - based on most recent data**

Available	128	Mean	3.3672	Min	1.0000	Std. Deviation	1.7608	5 Percentile	1.0000
Missing	0	Median	3.0000	Max	7.0000			95 Percentile	6.0000

## Normalization

Type SB (smaller is better)

Parameters

T=1.0000

U=3.0000

Comments T=minimum possible

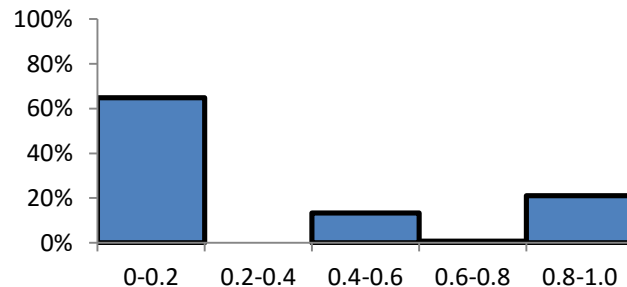
U (most developing countries range over [3,7], 3 being their best value)

## Smoothed data

Albania	0.0000	Ecuador	0.0000	Lebanon	0.0000	Rwanda	0.0000
Algeria	0.0000	Egypt	0.0000	Lithuania	1.0000	Saudi Arabia	0.0000
Angola	0.0000	El Salvador	0.0000	Macedonia, FYR	0.0000	Senegal	0.0000
Argentina	0.5000	Estonia	1.0000	Madagascar	0.0000	Sierra Leone	0.0000
Armenia	0.0000	Ethiopia	0.0000	Malawi	0.0000	Slovakia	1.0000
Australia	1.0000	Finland	1.0000	Malaysia	0.0000	Slovenia	1.0000
Austria	1.0000	France	1.0000	Mali	0.0000	South Africa	0.5000
Azerbaijan	0.0000	Gabon	0.0000	Mauritania	0.0000	South Korea	0.5000
Bangladesh	0.0000	Gambia	0.0000	Mexico	0.0000	Spain	1.0000
Belarus	0.0000	Georgia	0.0000	Moldova	0.0000	Sri Lanka	0.0000
Belgium	1.0000	Germany	1.0000	Mongolia	0.5000	Sudan	0.0000
Benin	0.5000	Ghana	0.5000	Morocco	0.0000	Sweden	1.0000
Bolivia	0.0000	Greece	0.5000	Mozambique	0.0000	Switzerland	1.0000
Botswana	0.5000	Guatemala	0.0000	Namibia	0.5000	Syria	0.0000
Brazil	0.5000	Guinea	0.0000	Nepal	0.0000	Tajikistan	0.0000
Bulgaria	0.5000	Guinea Bis.	0.0000	Netherlands	1.0000	Tanzania	0.0000
Burkina Faso	0.0000	Honduras	0.0000	New Zealand	1.0000	Thailand	0.0000
Burundi	0.0000	Hungary	0.7500	Nicaragua	0.0000	Togo	0.0000
C. African R.	0.0000	India	0.0000	Niger	0.0000	Tunisia	0.0000
Cambodia	0.0000	Indonesia	0.0000	Nigeria	0.0000	Turkey	0.0000
Cameroon	0.0000	Iran	0.0000	Norway	1.0000	UAE	0.0000
Canada	1.0000	Ireland	1.0000	Oman	0.0000	Uganda	0.0000
Chad	0.0000	Israel	0.5000	Pakistan	0.0000	UK	1.0000
Chile	1.0000	Italy	0.8750	Panama	0.5000	Ukraine	0.0531
China	0.0000	Japan	0.5000	Papua N.G.	0.0000	Uruguay	1.0000
Colombia	0.0000	Jordan	0.0000	Paraguay	0.0000	USA	1.0000
Congo	0.0000	Kazakhstan	0.0000	Peru	0.0000	Uzbekistan	0.0000
Cote d'Ivoire	0.0000	Kenya	0.0000	Philippines	0.0000	Venezuela	0.0000
Croatia	0.5000	Kuwait	0.0000	Poland	1.0000	Vietnam	0.0000
Czech Rep.	1.0000	Kyrgyzstan	0.0000	Portugal	1.0000	Yemen	0.0000
D.R. Congo	0.0000	Laos	0.0000	Romania	0.5000	Zambia	0.0000
Denmark	1.0000	Latvia	0.5531	Russia	0.0000	Zimbabwe	0.0000

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.2831	Min	0.0000	Std. Deviation	0.4103	5 Percentile	0.0000
Missing	0	Median	0.0000	Max	1.0000			95 Percentile	1.0000



## Indicator: Corruption Perceptions Index

**Primary indicator:** Human Sustainability (HUMS)

**Secondary indicator:** Policy

**Tertiary indicator:** State

**Explanation:** International Transparency, the coalition against corruption, gathers data for the last two years for all countries to compute the Corruption Perceptions Index (CPI). CPI (Transparency International 2007) ranges from 1 to 10 or from the most to the least corrupt countries and it expresses a degree of misuse of power by public officials and politicians for private gain such as bribes, favoritism, embezzlement of money, etc.

**Sources:** Transparency International  
(<http://www.transparency.org/research/cpi/overview>)

**Period:** 1990-2011

**Units:** 10point scale (1 representing the most corrupt and 10 the least corrupt country)

### Most recent data

Albania	3.3000	Ecuador	3.2000	Lebanon	3.0000	Rwanda	5.3000
Algeria	3.4000	Egypt	3.2000	Lithuania	5.4000	Saudi Arabia	4.4000
Angola	2.2000	El Salvador	3.8000	Macedonia, FYR	4.3000	Senegal	3.6000
Argentina	3.5000	Estonia	6.4000	Madagascar	3.2000	Sierra Leone	3.1000
Armenia	3.4000	Ethiopia	3.3000	Malawi	3.7000	Slovakia	4.6000
Australia	8.5000	Finland	9.0000	Malaysia	4.9000	Slovenia	6.1000
Austria	6.9000	France	7.1000	Mali	3.4000	South Africa	4.3000
Azerbaijan	2.7000	Gabon	3.5000	Mauritania	3.1000	South Korea	5.6000
Bangladesh	2.6000	Gambia	3.4000	Mexico	3.4000	Spain	6.5000
Belarus	3.1000	Georgia	5.2000	Moldova	3.6000	Sri Lanka	4.0000
Belgium	7.5000	Germany	7.9000	Mongolia	3.6000	Sudan	1.3000
Benin	3.6000	Ghana	4.5000	Morocco	3.7000	Sweden	8.8000
Bolivia	3.4000	Greece	3.6000	Mozambique	3.1000	Switzerland	8.6000
Botswana	6.5000	Guatemala	3.3000	Namibia	4.8000	Syria	2.6000
Brazil	4.3000	Guinea	2.4000	Nepal	2.7000	Tajikistan	2.2000
Bulgaria	4.1000	Guinea Bis.	2.5000	Netherlands	8.4000	Tanzania	3.5000
Burkina Faso	3.8000	Honduras	2.8000	New Zealand	9.0000	Thailand	3.7000
Burundi	1.9000	Hungary	5.5000	Nicaragua	2.9000	Togo	3.0000
C. African R.	2.6000	India	3.6000	Niger	3.3000	Tunisia	4.1000
Cambodia	2.2000	Indonesia	3.2000	Nigeria	2.7000	Turkey	4.9000
Cameroon	2.6000	Iran	2.8000	Norway	8.5000	UAE	6.8000
Canada	8.4000	Ireland	6.9000	Oman	4.7000	Uganda	2.9000
Chad	1.9000	Israel	6.0000	Pakistan	2.7000	UK	7.4000
Chile	7.2000	Italy	4.2000	Panama	3.8000	Ukraine	2.6000
China	3.9000	Japan	7.4000	Papua N.G.	2.5000	Uruguay	7.2000
Colombia	3.6000	Jordan	4.8000	Paraguay	2.5000	USA	7.3000
Congo	2.6000	Kazakhstan	2.8000	Peru	3.8000	Uzbekistan	1.7000
Cote d'Ivoire	2.9000	Kenya	2.7000	Philippines	3.4000	Venezuela	1.9000
Croatia	4.6000	Kuwait	4.4000	Poland	5.8000	Vietnam	3.1000
Czech Rep.	4.9000	Kyrgyzstan	2.4000	Portugal	6.3000	Yemen	2.3000
D.R. Congo	2.1000	Laos	2.1000	Romania	4.4000	Zambia	3.7000
Denmark	9.0000	Latvia	4.9000	Russia	2.8000	Zimbabwe	2.0000

### Descriptive Statistics - based on most recent data

Available	128	Mean	4.2539	Min	1.3000	Std. Deviation	1.9132	5 Percentile	2.1000
Missing	0	Median	3.6000	Max	9.0000			95 Percentile	8.4650

## Normalization

Type *LB (larger is better)*

Parameters  $u=3.0000$

$\tau=8.0000$

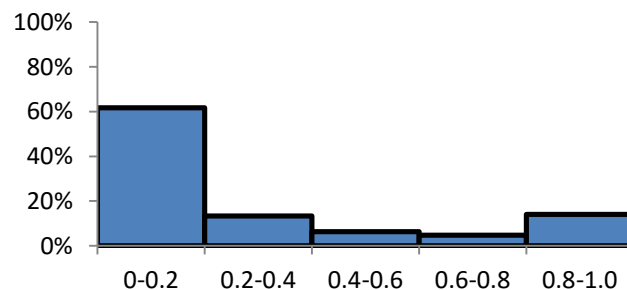
Comments  $u$  (values below 3 correspond to extremely corrupt countries)  $r$  (least corrupt countries range over [8,10])

## Smoothed data

Albania	0.0451	Ecuador	0.0400	Lebanon	0.0175	Rwanda	0.4600
Algeria	0.0156	Egypt	0.0243	Lithuania	0.4800	Saudi Arabia	0.2800
Angola	0.0000	El Salvador	0.1546	Macedonia, FYR	0.1500	Senegal	0.0480
Argentina	0.0231	Estonia	0.6800	Madagascar	0.0182	Sierra Leone	0.0200
Armenia	0.0100	Ethiopia	0.0219	Malawi	0.1262	Slovakia	0.3200
Australia	1.0000	Finland	1.0000	Malaysia	0.3460	Slovenia	0.6178
Austria	0.7800	France	0.8193	Mali	0.0171	South Africa	0.2249
Azerbaijan	0.0000	Gabon	0.0275	Mauritania	0.0087	South Korea	0.5200
Bangladesh	0.0000	Gambia	0.0800	Mexico	0.0530	Spain	0.5709
Belarus	0.0200	Georgia	0.4400	Moldova	0.0333	Sri Lanka	0.2000
Belgium	0.9000	Germany	0.9800	Mongolia	0.1200	Sudan	0.0000
Benin	0.0267	Ghana	0.2498	Morocco	0.1230	Sweden	1.0000
Bolivia	0.0800	Greece	0.1200	Mozambique	0.0200	Switzerland	1.0000
Botswana	0.6626	Guatemala	0.0268	Namibia	0.3600	Syria	0.0000
Brazil	0.2600	Guinea	0.0000	Nepal	0.0000	Tajikistan	0.0000
Bulgaria	0.1813	Guinea Bis.	0.0000	Netherlands	1.0000	Tanzania	0.1000
Burkina Faso	0.0685	Honduras	0.0000	New Zealand	1.0000	Thailand	0.1353
Burundi	0.0000	Hungary	0.4093	Nicaragua	0.0001	Togo	0.0000
C. African R.	0.0000	India	0.0901	Niger	0.0600	Tunisia	0.2109
Cambodia	0.0000	Indonesia	0.0400	Nigeria	0.0000	Turkey	0.3800
Cameroon	0.0000	Iran	0.0000	Norway	0.9987	UAE	0.7591
Canada	1.0000	Ireland	0.8840	Oman	0.3400	Uganda	0.0000
Chad	0.0000	Israel	0.5965	Pakistan	0.0000	UK	0.9040
Chile	0.8400	Italy	0.2319	Panama	0.0818	Ukraine	0.0000
China	0.1530	Japan	0.8800	Papua N.G.	0.0000	Uruguay	0.8400
Colombia	0.1200	Jordan	0.3466	Paraguay	0.0000	USA	0.8477
Congo	0.0000	Kazakhstan	0.0000	Peru	0.1600	Uzbekistan	0.0000
Cote d'Ivoire	0.0000	Kenya	0.0000	Philippines	0.0510	Venezuela	0.0000
Croatia	0.3200	Kuwait	0.2877	Poland	0.5600	Vietnam	0.0200
Czech Rep.	0.3800	Kyrgyzstan	0.0000	Portugal	0.6575	Yemen	0.0000
D.R. Congo	0.0000	Laos	0.0000	Romania	0.2689	Zambia	0.1400
Denmark	1.0000	Latvia	0.3800	Russia	0.0000	Zimbabwe	0.0000

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.2605	Min	0.0000	Std. Deviation	0.3345	5 Percentile	0.0000
Missing	0	Median	0.0860	Max	1.0000			95 Percentile	1.0000



**Indicator: Daily per capita calorie supply****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Health**Tertiary indicator:** State**Explanation:** Data taken from the Food and Agricultural Organization (FAO) food balance sheets. The calories and protein actually consumed may be lower than the figure shown, depending on how much is lost during home storage, preparation, and cooking, and how much is fed to pets and domestic animals or discarded.**Sources:** Food and Agricultural Organization of the United Nations  
(<http://faostat3.fao.org/home/index.html>)**Period:** 1990-2011**Units:** kilocalories**Most recent data**

Albania	2,903.0000	Ecuador	2,267.0000	Lebanon	3,153.0000	Rwanda	2,188.0000
Algeria	3,239.0000	Egypt	3,349.0000	Lithuania	3,486.0000	Saudi Arabia	3,076.0000
Angola	2,079.0000	El Salvador	2,574.0000	Macedonia, FYR	2,957.0000	Senegal	2,479.0000
Argentina	2,918.0000	Estonia	3,163.0000	Madagascar	2,117.0000	Sierra Leone	2,162.0000
Armenia	2,806.0000	Ethiopia	2,097.0000	Malawi	2,318.0000	Slovakia	2,881.0000
Australia	3,261.0000	Finland	3,240.0000	Malaysia	2,902.0000	Slovenia	3,275.0000
Austria	3,800.0000	France	3,531.0000	Mali	2,624.0000	South Africa	3,017.0000
Azerbaijan	3,072.0000	Gabon	2,745.0000	Mauritania	2,856.0000	South Korea	3,200.0000
Bangladesh	2,481.0000	Gambia	2,643.0000	Mexico	3,146.0000	Spain	3,239.0000
Belarus	3,186.0000	Georgia	2,743.0000	Moldova	2,707.0000	Sri Lanka	2,426.0000
Belgium	3,721.0000	Germany	3,549.0000	Mongolia	2,434.0000	Sudan	2,326.0000
Benin	2,592.0000	Ghana	2,934.0000	Morocco	3,264.0000	Sweden	3,125.0000
Bolivia	2,172.0000	Greece	3,661.0000	Mozambique	2,112.0000	Switzerland	3,454.0000
Botswana	2,164.0000	Guatemala	2,244.0000	Namibia	2,151.0000	Syria	3,212.0000
Brazil	3,173.0000	Guinea	2,652.0000	Nepal	2,443.0000	Tajikistan	2,106.0000
Bulgaria	2,791.0000	Guinea Bis.	2,476.0000	Netherlands	3,261.0000	Tanzania	2,137.0000
Burkina Faso	2,647.0000	Honduras	2,694.0000	New Zealand	3,172.0000	Thailand	2,862.0000
Burundi	1,604.0000	Hungary	3,477.0000	Nicaragua	2,517.0000	Togo	2,363.0000
C. African R.	2,181.0000	India	2,321.0000	Niger	2,489.0000	Tunisia	3,314.0000
Cambodia	2,382.0000	Indonesia	2,646.0000	Nigeria	2,711.0000	Turkey	3,666.0000
Cameroon	2,457.0000	Iran	3,143.0000	Norway	3,453.0000	UAE	3,245.0000
Canada	3,399.0000	Ireland	3,617.0000	Oman	-	Uganda	2,260.0000
Chad	2,074.0000	Israel	3,569.0000	Pakistan	2,423.0000	UK	3,432.0000
Chile	2,908.0000	Italy	3,627.0000	Panama	2,606.0000	Ukraine	3,198.0000
China	3,036.0000	Japan	2,723.0000	Papua N.G.	-	Uruguay	2,808.0000
Colombia	2,717.0000	Jordan	2,977.0000	Paraguay	2,518.0000	USA	3,688.0000
Congo	2,056.0000	Kazakhstan	3,284.0000	Peru	2,563.0000	Uzbekistan	2,618.0000
Cote d'Ivoire	2,670.0000	Kenya	2,092.0000	Philippines	2,580.0000	Venezuela	3,014.0000
Croatia	3,130.0000	Kuwait	3,681.0000	Poland	3,392.0000	Vietnam	2,690.0000
Czech Rep.	3,305.0000	Kyrgyzstan	2,791.0000	Portugal	3,617.0000	Yemen	2,109.0000
D.R. Congo	-	Laos	2,377.0000	Romania	3,487.0000	Zambia	1,879.0000
Denmark	3,378.0000	Latvia	2,923.0000	Russia	3,172.0000	Zimbabwe	2,219.0000

**Descriptive Statistics - based on most recent data**

Available	125	Mean	2,835.2880	Min	1,604.0000	Std. Deviation	498.4507	5 Percentile	2,098.8000
Missing	3	Median	2,808.0000	Max	3,800.0000			95 Percentile	3,625.0000

## Normalization

Type *LB (larger is better)* Parameters  $u=1,604.0000$   $\tau=3,485.5714$   
 Comments  $u=\min$   $r=\text{average of EU-14}$

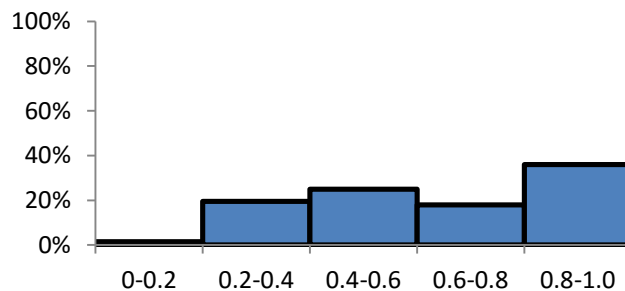
## Smoothed data

Albania	0.6825	Ecuador	0.3484	Lebanon	0.8193	Rwanda	0.3104
Algeria	0.8618	Egypt	0.9274	Lithuania	1.0000	Saudi Arabia	0.7823
Angola	0.2524	El Salvador	0.5155	Macedonia, FYR	0.7270	Senegal	0.4629
Argentina	0.6984	Estonia	0.8286	Madagascar	0.2726	Sierra Leone	0.2966
Armenia	0.6388	Ethiopia	0.2620	Malawi	0.3795	Slovakia	0.6722
Australia	0.8792	Finland	0.8680	Malaysia	0.6898	Slovenia	0.8876
Austria	1.0000	France	1.0000	Mali	0.5421	South Africa	0.7510
Azerbaijan	0.7802	Gabon	0.6000	Mauritania	0.6605	South Korea	0.8419
Bangladesh	0.4650	Gambia	0.5362	Mexico	0.8195	Spain	0.8688
Belarus	0.8408	Georgia	0.6053	Moldova	0.5877	Sri Lanka	0.4374
Belgium	1.0000	Germany	1.0000	Mongolia	0.4411	Sudan	0.3837
Benin	0.5244	Ghana	0.7069	Morocco	0.8807	Sweden	0.8080
Bolivia	0.2894	Greece	1.0000	Mozambique	0.2700	Switzerland	0.9749
Botswana	0.3001	Guatemala	0.3396	Namibia	0.2907	Syria	0.8546
Brazil	0.8339	Guinea	0.5570	Nepal	0.4429	Tajikistan	0.2694
Bulgaria	0.6309	Guinea Bis.	0.4634	Netherlands	0.8794	Tanzania	0.2837
Burkina Faso	0.5543	Honduras	0.5793	New Zealand	0.8292	Thailand	0.6686
Burundi	0.0000	Hungary	0.9954	Nicaragua	0.4852	Togo	0.4034
C. African R.	0.3067	India	0.3757	Niger	0.4704	Tunisia	0.9119
Cambodia	0.4135	Indonesia	0.5538	Nigeria	0.5883	Turkey	1.0000
Cameroon	0.4540	Iran	0.8179	Norway	0.9849	UAE	0.8672
Canada	0.9540	Ireland	0.9993	Oman	0.7823**	Uganda	0.3486
Chad	0.2549	Israel	1.0000	Pakistan	0.4342	UK	0.9731
Chile	0.6930	Italy	0.9999	Panama	0.5251	Ukraine	0.8472
China	0.7611	Japan	0.5958	Papua N.G.	0.2620**	Uruguay	0.6399
Colombia	0.5915	Jordan	0.7297	Paraguay	0.4858	USA	1.0000
Congo	0.2411	Kazakhstan	0.8929	Peru	0.5085	Uzbekistan	0.5280
Cote d'Ivoire	0.5665	Kenya	0.2453	Philippines	0.5233	Venezuela	0.7317
Croatia	0.8110	Kuwait	1.0000	Poland	0.9451	Vietnam	0.5772
Czech Rep.	0.9040	Kyrgyzstan	0.6309	Portugal	0.9999	Yemen	0.2667
D.R. Congo	0.2808**	Laos	0.4108	Romania	1.0000	Zambia	0.1462
Denmark	0.9426	Latvia	0.7099	Russia	0.8333	Zimbabwe	0.3269

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.6405	Min	0.0000	Std. Deviation	0.2540	5 Percentile	0.2620
Missing	0	Median	0.6394	Max	1.0000			95 Percentile	1.0000



## Indicator: Desertification of land

**Primary indicator:** Ecological Sustainability (ECOS), Ecological Sustainability (ECOS)

**Secondary indicator:** Land, Biodiversity

**Tertiary indicator:** State, State

**Explanation:** Areas with a potential hazard of desertification. All major continents face problems of land degradation in dryland areas, commonly known as desertification. Dryland areas are 'fragile' in that they are extremely vulnerable to land degradation resulting from over-grazing and other forms of inappropriate land use.

**Sources:** Food and Agricultural Organization of the United Nations (www.fao.org) World Resources Institute - Earth Trends ([http://earthtrends.wri.org/searchable\\_db/results.php?years=all&variable\\_ID=701&theme=9&country\\_ID=all&country\\_classification\\_ID=all](http://earthtrends.wri.org/searchable_db/results.php?years=all&variable_ID=701&theme=9&country_ID=all&country_classification_ID=all))

**Period:** 1990-2011

**Units:** percent of dryland area

### Most recent data

Albania	0.0000	Ecuador	2.0000	Lebanon	0.0000	Rwanda	0.0000
Algeria	88.0000	Egypt	100.0000	Lithuania	0.0000	Saudi Arabia	100.0000
Angola	3.0000	El Salvador	0.0000	Macedonia, FYR	0.0000	Senegal	0.0000
Argentina	20.0000	Estonia	0.0000	Madagascar	4.0000	Sierra Leone	0.0000
Armenia	0.0000	Ethiopia	10.0000	Malawi	0.0000	Slovakia	0.0000
Australia	38.0000	Finland	0.0000	Malaysia	0.0000	Slovenia	0.0000
Austria	0.0000	France	0.0000	Mali	51.0000	South Africa	41.0000
Azerbaijan	0.0000	Gabon	0.0000	Mauritania	78.0000	South Korea	0.0000
Bangladesh	0.0000	Gambia	0.0000	Mexico	33.0000	Spain	0.0000
Belarus	0.0000	Georgia	0.0000	Moldova	0.0000	Sri Lanka	0.0000
Belgium	0.0000	Germany	0.0000	Mongolia	47.0000	Sudan	39.0000
Benin	0.0000	Ghana	0.0000	Morocco	34.0000	Sweden	0.0000
Bolivia	10.0000	Greece	0.0000	Mozambique	5.0000	Switzerland	0.0000
Botswana	57.0000	Guatemala	0.0000	Namibia	58.0000	Syria	25.0000
Brazil	1.0000	Guinea	0.0000	Nepal	16.0000	Tajikistan	8.0000
Bulgaria	0.0000	Guinea Bis.	0.0000	Netherlands	0.0000	Tanzania	0.0000
Burkina Faso	0.0000	Honduras	0.0000	New Zealand	0.0000	Thailand	0.0000
Burundi	0.0000	Hungary	0.0000	Nicaragua	0.0000	Togo	0.0000
C. African R.	0.0000	India	2.0000	Niger	53.0000	Tunisia	69.0000
Cambodia	0.0000	Indonesia	0.0000	Nigeria	0.0000	Turkey	0.0000
Cameroon	0.0000	Iran	39.0000	Norway	0.0000	UAE	100.0000
Canada	0.0000	Ireland	0.0000	Oman	100.0000	Uganda	0.0000
Chad	38.0000	Israel	26.0000	Pakistan	65.0000	UK	0.0000
Chile	31.0000	Italy	0.0000	Panama	0.0000	Ukraine	0.0000
China	30.0000	Japan	0.0000	Papua N.G.	0.0000	Uruguay	0.0000
Colombia	0.0000	Jordan	68.0000	Paraguay	0.0000	USA	12.0000
Congo	0.0000	Kazakhstan	0.0000	Peru	0.0000	Uzbekistan	7.0000
Cote d'Ivoire	0.0000	Kenya	11.0000	Philippines	0.0000	Venezuela	1.0000
Croatia	0.0000	Kuwait	100.0000	Poland	0.0000	Vietnam	0.0000
Czech Rep.	0.0000	Kyrgyzstan	9.0000	Portugal	0.0000	Yemen	93.0000
D.R. Congo	0.0000	Laos	0.0000	Romania	0.0000	Zambia	0.0000
Denmark	0.0000	Latvia	0.0000	Russia	0.0000	Zimbabwe	8.0000

### Descriptive Statistics - based on most recent data

Available	128	Mean	13.5156	Min	0.0000	Std. Deviation	26.8261	5 Percentile	0.0000
Missing	0	Median	0.0000	Max	100.0000			95 Percentile	84.5000

## Normalization

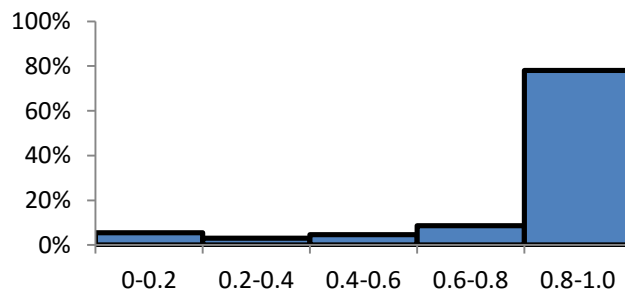
Type *SB (smaller is better)* Parameters *T=0.0000* *U=100.0000*  
 Comments *T=minimum possible* *U=maximum possible*

## Smoothed data

Albania	1.0000	Ecuador	0.9800	Lebanon	1.0000	Rwanda	1.0000
Algeria	0.1200	Egypt	0.0000	Lithuania	1.0000	Saudi Arabia	0.0000
Angola	0.9700	El Salvador	1.0000	Macedonia, FYR	1.0000	Senegal	1.0000
Argentina	0.8000	Estonia	1.0000	Madagascar	0.9600	Sierra Leone	1.0000
Armenia	1.0000	Ethiopia	0.9000	Malawi	1.0000	Slovakia	1.0000
Australia	0.6200	Finland	1.0000	Malaysia	1.0000	Slovenia	1.0000
Austria	1.0000	France	1.0000	Mali	0.4900	South Africa	0.5900
Azerbaijan	1.0000	Gabon	1.0000	Mauritania	0.2200	South Korea	1.0000
Bangladesh	1.0000	Gambia	1.0000	Mexico	0.6700	Spain	1.0000
Belarus	1.0000	Georgia	1.0000	Moldova	1.0000	Sri Lanka	1.0000
Belgium	1.0000	Germany	1.0000	Mongolia	0.5300	Sudan	0.6100
Benin	1.0000	Ghana	1.0000	Morocco	0.6600	Sweden	1.0000
Bolivia	0.9000	Greece	1.0000	Mozambique	0.9500	Switzerland	1.0000
Botswana	0.4300	Guatemala	1.0000	Namibia	0.4200	Syria	0.7500
Brazil	0.9900	Guinea	1.0000	Nepal	0.8400	Tajikistan	0.9200
Bulgaria	1.0000	Guinea Bis.	1.0000	Netherlands	1.0000	Tanzania	1.0000
Burkina Faso	1.0000	Honduras	1.0000	New Zealand	1.0000	Thailand	1.0000
Burundi	1.0000	Hungary	1.0000	Nicaragua	1.0000	Togo	1.0000
C. African R.	1.0000	India	0.9800	Niger	0.4700	Tunisia	0.3100
Cambodia	1.0000	Indonesia	1.0000	Nigeria	1.0000	Turkey	1.0000
Cameroon	1.0000	Iran	0.6100	Norway	1.0000	UAE	0.0000
Canada	1.0000	Ireland	1.0000	Oman	0.0000	Uganda	1.0000
Chad	0.6200	Israel	0.7400	Pakistan	0.3500	UK	1.0000
Chile	0.6900	Italy	1.0000	Panama	1.0000	Ukraine	1.0000
China	0.7000	Japan	1.0000	Papua N.G.	1.0000	Uruguay	1.0000
Colombia	1.0000	Jordan	0.3200	Paraguay	1.0000	USA	0.8800
Congo	1.0000	Kazakhstan	1.0000	Peru	1.0000	Uzbekistan	0.9300
Cote d'Ivoire	1.0000	Kenya	0.8900	Philippines	1.0000	Venezuela	0.9900
Croatia	1.0000	Kuwait	0.0000	Poland	1.0000	Vietnam	1.0000
Czech Rep.	1.0000	Kyrgyzstan	0.9100	Portugal	1.0000	Yemen	0.0700
D.R. Congo	1.0000	Laos	1.0000	Romania	1.0000	Zambia	1.0000
Denmark	1.0000	Latvia	1.0000	Russia	1.0000	Zimbabwe	0.9200

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8648	Min	0.0000	Std. Deviation	0.2683	5 Percentile	0.1550
Missing	0	Median	1.0000	Max	1.0000			95 Percentile	1.0000





## Indicator: Environmental laws and enforcement

**Primary indicator:** Human Sustainability (HUMS)

**Secondary indicator:** Policy

**Tertiary indicator:** Response

**Explanation:** This index ranges from zero to one hundred and is obtained by a subjective assessment on the basis of various world reports and authors' knowledge. National environmental laws are included in the context of this indicator as well as international agreements such as the Convention on Biological Diversity, the Ramsar Convention on Wetlands of International Importance, the Convention on International Trade of Endangered Species (CITES), national environmental laws, etc.

**Sources:** Esty et al. (2005); Environmental Sustainability Index 2002 ([www.yale.edu/esi](http://www.yale.edu/esi))

**Period:** 1990-2011

**Units:** [0, 100] scale (higher values correspond to better environmental governance)

### Most recent data

Albania	29.2100	Ecuador	24.1000	Lebanon	37.6700	Rwanda	24.7500
Algeria	29.1600	Egypt	34.3300	Lithuania	40.9600	Saudi Arabia	36.7400
Angola	17.7400	El Salvador	31.0700	Macedonia, FYR	26.1600	Senegal	31.3700
Argentina	32.2600	Estonia	44.5700	Madagascar	28.5900	Sierra Leone	20.1300
Armenia	33.5300	Ethiopia	24.2100	Malawi	33.6100	Slovakia	46.0500
Australia	52.9500	Finland	59.5000	Malaysia	44.0100	Slovenia	45.9100
Austria	53.4500	France	52.6500	Mali	26.5800	South Africa	42.0200
Azerbaijan	30.7600	Gabon	28.4500	Mauritania	29.5000	South Korea	43.0800
Bangladesh	28.9800	Gambia	38.8200	Mexico	39.5600	Spain	44.1100
Belarus	31.5700	Georgia	27.7000	Moldova	28.8000	Sri Lanka	29.9800
Belgium	51.9300	Germany	59.7400	Mongolia	30.5700	Sudan	24.0500
Benin	33.1000	Ghana	35.2000	Morocco	30.7300	Sweden	59.5600
Bolivia	25.7300	Greece	39.6600	Mozambique	25.2700	Switzerland	59.1400
Botswana	35.8300	Guatemala	24.4400	Namibia	39.3500	Syria	27.3700
Brazil	41.4800	Guinea	25.2000	Nepal	29.0900	Tajikistan	22.2400
Bulgaria	27.8300	Guinea Bis.	25.9300	Netherlands	56.9600	Tanzania	33.6500
Burkina Faso	29.7700	Honduras	26.3800	New Zealand	53.3600	Thailand	38.5900
Burundi	25.1900	Hungary	41.1800	Nicaragua	24.0800	Togo	24.2000
C. African R.	27.9500	India	34.1300	Niger	26.9800	Tunisia	47.3300
Cambodia	30.3300	Indonesia	34.5800	Nigeria	27.6100	Turkey	32.0800
Cameroon	30.7200	Iran	29.4900	Norway	57.8400	UAE	42.8600
Canada	47.6500	Ireland	41.9800	Oman	36.5900	Uganda	30.9600
Chad	22.4100	Israel	41.6700	Pakistan	28.5000	UK	52.9500
Chile	42.2600	Italy	46.0200	Panama	30.8200	Ukraine	32.5200
China	35.3900	Japan	51.2100	Papua N.G.	25.4600	Uruguay	35.7100
Colombia	36.1000	Jordan	41.2100	Paraguay	23.2700	USA	51.1700
Congo	24.2900	Kazakhstan	28.2400	Peru	28.2500	Uzbekistan	28.9000
Cote d'Ivoire	24.3700	Kenya	29.7900	Philippines	28.6600	Venezuela	25.6000
Croatia	37.8100	Kuwait	36.5000	Poland	38.5100	Vietnam	31.0900
Czech Rep.	46.4500	Kyrgyzstan	24.8100	Portugal	43.3000	Yemen	22.7900
D.R. Congo	18.7000	Laos	26.7300	Romania	29.0900	Zambia	35.3200
Denmark	59.1600	Latvia	44.3400	Russia	31.3500	Zimbabwe	27.6200

### Descriptive Statistics - based on most recent data

Available	128	Mean	34.9907	Min	17.7400	Std. Deviation	10.1074	5 Percentile	23.5430
Missing	0	Median	31.4700	Max	59.7400			95 Percentile	55.7315

## Normalization

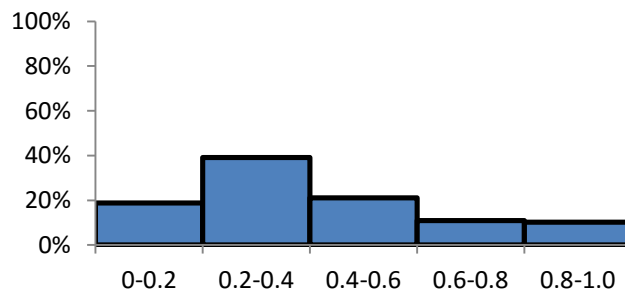
Type *LB (larger is better)* Parameters  $u=17.7400$   $\tau=59.7400$   
 Comments  $u=min$   $r=max$

## Smoothed data

Albania	0.2731	Ecuador	0.1514	Lebanon	0.4745	Rwanda	0.1669
Algeria	0.2719	Egypt	0.3950	Lithuania	0.5529	Saudi Arabia	0.4524
Angola	0.0000	El Salvador	0.3174	Macedonia, FYR	0.2005	Senegal	0.3245
Argentina	0.3457	Estonia	0.6388	Madagascar	0.2583	Sierra Leone	0.0569
Armenia	0.3760	Ethiopia	0.1540	Malawi	0.3779	Slovakia	0.6740
Australia	0.8383	Finland	0.9943	Malaysia	0.6255	Slovenia	0.6707
Austria	0.8502	France	0.8312	Mali	0.2105	South Africa	0.5781
Azerbaijan	0.3100	Gabon	0.2550	Mauritania	0.2800	South Korea	0.6033
Bangladesh	0.2676	Gambia	0.5019	Mexico	0.5195	Spain	0.6279
Belarus	0.3293	Georgia	0.2371	Moldova	0.2633	Sri Lanka	0.2914
Belgium	0.8140	Germany	1.0000	Mongolia	0.3055	Sudan	0.1502
Benin	0.3657	Ghana	0.4157	Morocco	0.3093	Sweden	0.9957
Bolivia	0.1902	Greece	0.5219	Mozambique	0.1793	Switzerland	0.9857
Botswana	0.4307	Guatemala	0.1595	Namibia	0.5145	Syria	0.2293
Brazil	0.5652	Guinea	0.1776	Nepal	0.2702	Tajikistan	0.1071
Bulgaria	0.2402	Guinea Bis.	0.1950	Netherlands	0.9338	Tanzania	0.3788
Burkina Faso	0.2864	Honduras	0.2057	New Zealand	0.8481	Thailand	0.4964
Burundi	0.1774	Hungary	0.5581	Nicaragua	0.1510	Togo	0.1538
C. African R.	0.2431	India	0.3902	Niger	0.2200	Tunisia	0.7045
Cambodia	0.2998	Indonesia	0.4010	Nigeria	0.2350	Turkey	0.3414
Cameroon	0.3090	Iran	0.2798	Norway	0.9548	UAE	0.5981
Canada	0.7121	Ireland	0.5771	Oman	0.4488	Uganda	0.3148
Chad	0.1112	Israel	0.5698	Pakistan	0.2562	UK	0.8383
Chile	0.5838	Italy	0.6733	Panama	0.3114	Ukraine	0.3519
China	0.4202	Japan	0.7969	Papua N.G.	0.1838	Uruguay	0.4279
Colombia	0.4371	Jordan	0.5588	Paraguay	0.1317	USA	0.7960
Congo	0.1560	Kazakhstan	0.2500	Peru	0.2502	Uzbekistan	0.2657
Cote d'Ivoire	0.1579	Kenya	0.2869	Philippines	0.2600	Venezuela	0.1871
Croatia	0.4779	Kuwait	0.4467	Poland	0.4945	Vietnam	0.3179
Czech Rep.	0.6836	Kyrgyzstan	0.1683	Portugal	0.6086	Yemen	0.1202
D.R. Congo	0.0229	Laos	0.2140	Romania	0.2702	Zambia	0.4186
Denmark	0.9862	Latvia	0.6333	Russia	0.3240	Zimbabwe	0.2352

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.4107	Min	0.0000	Std. Deviation	0.2407	5 Percentile	0.1382
Missing	0	Median	0.3269	Max	1.0000			95 Percentile	0.9046



**Indicator: Exports****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Wealth**Tertiary indicator:** Response**Explanation:** Exports of goods and services represent the value of all goods and other market services provided to the rest of the world. They include the value of merchandise, freight, insurance, transport, travel, royalties, license fees, and other services, such as communication, construction, financial, information, business, personal, and government services. They exclude compensation of employees and investment income (formerly called factor services) and transfer payments.**Sources:** World Bank (<http://data.worldbank.org/indicator/NE.EXP.GNFS.ZS>)**Period:** 1990-2011**Units:** percent of GDP**Most recent data**

Albania	33.8009	Ecuador	32.9494	Lebanon	23.7443	Rwanda	13.4235
Algeria	30.8304	Egypt	23.3148	Lithuania	77.7786	Saudi Arabia	61.6123
Angola	64.9770	El Salvador	28.0857	Macedonia, FYR	54.5483	Senegal	24.5059
Argentina	21.8234	Estonia	91.5092	Madagascar	26.0612	Sierra Leone	16.5514
Armenia	23.4774	Ethiopia	16.8427	Malawi	29.5856	Slovakia	89.0553
Australia	21.2885	Finland	40.7012	Malaysia	91.5575	Slovenia	72.2967
Austria	57.2917	France	26.9556	Mali	25.1303	South Africa	28.8214
Azerbaijan	62.7998	Gabon	64.5567	Mauritania	65.5837	South Korea	56.1596
Bangladesh	22.9009	Gambia	28.8628	Mexico	31.6682	Spain	30.2645
Belarus	87.8919	Georgia	36.4511	Moldova	45.0176	Sri Lanka	23.0574
Belgium	84.3431	Germany	50.1740	Mongolia	62.3417	Sudan	18.4737
Benin	14.9819	Ghana	38.0151	Morocco	34.5923	Sweden	49.9302
Bolivia	44.1184	Greece	25.0549	Mozambique	28.9826	Switzerland	51.2024
Botswana	39.1419	Guatemala	27.1415	Namibia	44.7414	Syria	35.3265
Brazil	11.8892	Guinea	30.2919	Nepal	8.9005	Tajikistan	15.3389
Bulgaria	66.5128	Guinea Bis.	29.8191	Netherlands	82.9971	Tanzania	31.0574
Burkina Faso	21.1441	Honduras	47.5748	New Zealand	30.0346	Thailand	76.9435
Burundi	5.4856	Hungary	92.2658	Nicaragua	41.0931	Togo	40.9145
C. African R.	11.8541	India	23.8848	Niger	15.0381	Tunisia	48.8545
Cambodia	54.0808	Indonesia	26.3274	Nigeria	39.6155	Turkey	23.7408
Cameroon	30.6722	Iran	32.1790	Norway	42.0944	UAE	77.9369
Canada	31.1663	Ireland	106.6181	Oman	52.6415	Uganda	23.6683
Chad	40.6970	Israel	36.9081	Pakistan	14.1554	UK	32.4932
Chile	38.0675	Italy	28.8393	Panama	80.7986	Ukraine	53.7713
China	31.3739	Japan	15.2210	Papua N.G.	50.9885	Uruguay	27.0927
Colombia	18.9537	Jordan	45.5780	Paraguay	48.5320	USA	13.9694
Congo	87.2830	Kazakhstan	49.4750	Peru	28.6796	Uzbekistan	31.6644
Cote d'Ivoire	43.7400	Kenya	29.1111	Philippines	31.0178	Venezuela	29.9430
Croatia	41.7800	Kuwait	65.9205	Poland	42.2459	Vietnam	87.0158
Czech Rep.	72.5473	Kyrgyzstan	54.5385	Portugal	35.5091	Yemen	30.4815
D.R. Congo	68.2766	Laos	37.6805	Romania	38.3444	Zambia	46.0383
Denmark	53.4089	Latvia	59.3157	Russia	31.0514	Zimbabwe	49.4109

**Descriptive Statistics - based on most recent data**

Available	128	Mean	41.7723	Min	5.4856	Std. Deviation	21.6089	5 Percentile	14.4447
Missing	0	Median	35.9801	Max	106.6181			95 Percentile	87.1895

## Normalization

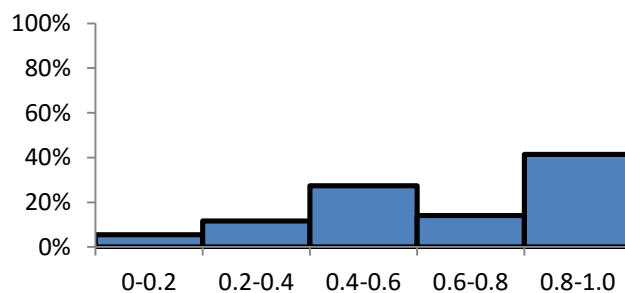
Type *LB (larger is better)* Parameters  $u=5.4856$   $\tau=50.3272$   
 Comments  $u=\min$   $r=\text{average of EU-14}$

## Smoothed data

Albania	0.6306	Ecuador	0.6099	Lebanon	0.4072	Rwanda	0.1487
Algeria	0.5652	Egypt	0.3976	Lithuania	1.0000	Saudi Arabia	1.0000
Angola	1.0000	El Salvador	0.4886	Macedonia, FYR	0.9816	Senegal	0.4301
Argentina	0.3641	Estonia	1.0000	Madagascar	0.4680	Sierra Leone	0.2459
Armenia	0.4012	Ethiopia	0.2533	Malawi	0.4596	Slovakia	1.0000
Australia	0.3452	Finland	0.7853	Malaysia	1.0000	Slovenia	0.9957
Austria	1.0000	France	0.4766	Mali	0.4454	South Africa	0.5149
Azerbaijan	1.0000	Gabon	1.0000	Mauritania	1.0000	South Korea	1.0000
Bangladesh	0.3884	Gambia	0.5154	Mexico	0.5839	Spain	0.5526
Belarus	1.0000	Georgia	0.6906	Moldova	0.8441	Sri Lanka	0.3919
Belgium	1.0000	Germany	0.9966	Mongolia	0.9997	Sudan	0.2971
Benin	0.2122	Ghana	0.7206	Morocco	0.6276	Sweden	0.9911
Bolivia	0.8615	Greece	0.4364	Mozambique	0.5240	Switzerland	1.0000
Botswana	0.7506	Guatemala	0.4796	Namibia	0.8852	Syria	0.6400
Brazil	0.1428	Guinea	0.5398	Nepal	0.0778	Tajikistan	0.2195
Bulgaria	0.9903	Guinea Bis.	0.5357	Netherlands	1.0000	Tanzania	0.5703
Burkina Faso	0.3492	Honduras	0.9276	New Zealand	0.5475	Thailand	1.0000
Burundi	0.0107	Hungary	1.0000	Nicaragua	0.7927	Togo	0.7862
C. African R.	0.1313	India	0.4071	Niger	0.2273	Tunisia	0.9672
Cambodia	1.0000	Indonesia	0.4582	Nigeria	0.8046	Turkey	0.3934
Cameroon	0.5045	Iran	0.5953	Norway	0.8206	UAE	1.0000
Canada	0.5727	Ireland	1.0000	Oman	0.9992	Uganda	0.4056
Chad	0.7852	Israel	0.7007	Pakistan	0.1933	UK	0.6003
Chile	0.7266	Italy	0.5208	Panama	1.0000	Ukraine	1.0000
China	0.5773	Japan	0.2164	Papua N.G.	1.0000	Uruguay	0.4819
Colombia	0.2891	Jordan	0.8955	Paraguay	0.9624	USA	0.1892
Congo	1.0000	Kazakhstan	0.9785	Peru	0.5172	Uzbekistan	0.6007
Cote d'Ivoire	0.8444	Kenya	0.5269	Philippines	0.5694	Venezuela	0.5176
Croatia	0.8094	Kuwait	0.9999	Poland	0.8198	Vietnam	1.0000
Czech Rep.	1.0000	Kyrgyzstan	1.0000	Portugal	0.6695	Yemen	0.5574
D.R. Congo	0.9983	Laos	0.7180	Romania	0.7203	Zambia	0.8956
Denmark	1.0000	Latvia	0.8777	Russia	0.5575	Zimbabwe	0.9293

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.6783	Min	0.0107	Std. Deviation	0.2813	5 Percentile	0.1999
Missing	0	Median	0.6801	Max	1.0000			95 Percentile	1.0000



**Indicator: Female expected years of schooling****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Knowledge**Tertiary indicator:** State**Explanation:** Average number of years of formal schooling that a child is expected to receive, including university education and years spent in repetition. It may also be interpreted as an indicator of the total educational resources, measured in school years, a child will require over the course of schooling.**Sources:** UNESCO Institute for Statistics (UIS)  
(<http://www.uis.unesco.org/Pages/default.aspx>)**Period:** 1990-2011**Units:** years**Most recent data**

Albania	11.1874	Ecuador	-	Lebanon	14.7720	Rwanda	11.1905
Algeria	14.3356	Egypt	12.1055	Lithuania	16.1059	Saudi Arabia	14.6412
Angola	8.9575	El Salvador	12.1010	Macedonia, FYR	13.5896	Senegal	8.0472
Argentina	17.4533	Estonia	16.9260	Madagascar	10.2299	Sierra Leone	6.0948
Armenia	12.6046	Ethiopia	8.4379	Malawi	10.8799	Slovakia	15.3029
Australia	20.0457	Finland	17.6525	Malaysia	12.9915	Slovenia	17.8701
Austria	15.9014	France	16.6760	Mali	6.6504	South Africa	13.1447
Azerbaijan	11.6117	Gabon	11.7291	Mauritania	8.0862	South Korea	16.2005
Bangladesh	4.7159	Gambia	4.0826	Mexico	13.8779	Spain	17.5414
Belarus	15.8207	Georgia	12.7960	Moldova	12.1815	Sri Lanka	14.1937
Belgium	16.7816	Germany	15.4212	Mongolia	15.1088	Sudan	-
Benin	7.4908	Ghana	11.0354	Morocco	10.6283	Sweden	16.6110
Bolivia	13.2085	Greece	16.3899	Mozambique	9.1275	Switzerland	15.7137
Botswana	11.8960	Guatemala	10.2815	Namibia	11.4429	Syria	9.1635
Brazil	14.5658	Guinea	8.0706	Nepal	7.8951	Tajikistan	10.6012
Bulgaria	14.2210	Guinea Bis.	-	Netherlands	17.1161	Tanzania	9.0890
Burkina Faso	6.3716	Honduras	12.1246	New Zealand	20.4679	Thailand	12.7241
Burundi	10.9175	Hungary	15.6474	Nicaragua	11.0110	Togo	8.8254
C. African R.	5.3953	India	10.5463	Niger	4.6217	Tunisia	15.2912
Cambodia	9.8829	Indonesia	13.1299	Nigeria	8.1487	Turkey	13.1765
Cameroon	10.5599	Iran	13.6535	Norway	18.1854	UAE	11.3792
Canada	16.3097	Ireland	18.7083	Oman	14.0841	Uganda	10.8466
Chad	6.4397	Israel	16.1621	Pakistan	6.6279	UK	17.1884
Chile	15.3229	Italy	16.5890	Panama	13.7640	Ukraine	15.0139
China	12.1970	Japan	15.1290	Papua N.G.	5.3347	Uruguay	16.6306
Colombia	13.8845	Jordan	12.9108	Paraguay	12.1814	USA	17.6201
Congo	8.6453	Kazakhstan	15.8094	Peru	13.2667	Uzbekistan	11.3590
Cote d'Ivoire	5.1614	Kenya	10.7206	Philippines	11.4994	Venezuela	15.3563
Croatia	14.7712	Kuwait	15.0810	Poland	16.0783	Vietnam	9.6636
Czech Rep.	16.5265	Kyrgyzstan	12.6894	Portugal	16.3902	Yemen	6.6670
D.R. Congo	7.3363	Laos	9.8671	Romania	15.0288	Zambia	-
Denmark	17.5223	Latvia	15.1880	Russia	14.7554	Zimbabwe	9.6563

**Descriptive Statistics - based on most recent data**

Available	124	Mean	12.6180	Min	4.0826	Std. Deviation	3.6970	5 Percentile	6.1363
Missing	4	Median	12.9511	Max	20.4679			95 Percentile	17.6083

## Normalization

Type *LB (larger is better)* Parameters  $u=4.0826$   $\tau=12.0000$   
 Comments  $u=\min$   $r=\text{typical in many developed countries}$

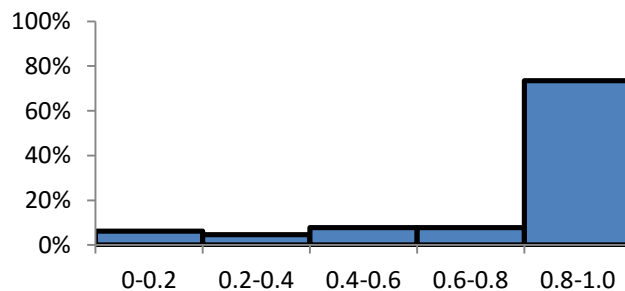
## Smoothed data

Albania	0.8974	Ecuador	1.0000**	Lebanon	1.0000	Rwanda	0.8978
Algeria	1.0000	Egypt	1.0000	Lithuania	1.0000	Saudi Arabia	1.0000
Angola	0.6157	El Salvador	1.0000	Macedonia, FYR	1.0000	Senegal	0.5007
Argentina	1.0000	Estonia	1.0000	Madagascar	0.7764	Sierra Leone	0.2541
Armenia	1.0000	Ethiopia	0.5501	Malawi	0.8585	Slovakia	1.0000
Australia	1.0000	Finland	1.0000	Malaysia	1.0000	Slovenia	1.0000
Austria	1.0000	France	1.0000	Mali	0.3243	South Africa	1.0000
Azerbaijan	0.9480	Gabon	0.9658	Mauritania	0.5057	South Korea	1.0000
Bangladesh	0.0800	Gambia	0.0000	Mexico	1.0000	Spain	1.0000
Belarus	1.0000	Georgia	1.0000	Moldova	1.0000	Sri Lanka	1.0000
Belgium	1.0000	Germany	1.0000	Mongolia	1.0000	Sudan	0.1363**
Benin	0.4305	Ghana	0.8782	Morocco	0.8268	Sweden	1.0000
Bolivia	1.0000	Greece	1.0000	Mozambique	0.6372	Switzerland	1.0000
Botswana	0.9869	Guatemala	0.7829	Namibia	0.9360	Syria	0.6417
Brazil	1.0000	Guinea	0.5037	Nepal	0.4815	Tajikistan	0.8233
Bulgaria	1.0000	Guinea Bis.	0.1363**	Netherlands	1.0000	Tanzania	0.6265
Burkina Faso	0.2891	Honduras	1.0000	New Zealand	1.0000	Thailand	1.0000
Burundi	0.8633	Hungary	1.0000	Nicaragua	0.8751	Togo	0.5990
C. African R.	0.1658	India	0.8164	Niger	0.0681	Tunisia	1.0000
Cambodia	0.7326	Indonesia	1.0000	Nigeria	0.5136	Turkey	1.0000
Cameroon	0.8181	Iran	1.0000	Norway	1.0000	UAE	0.9241
Canada	1.0000	Ireland	1.0000	Oman	1.0000	Uganda	0.8543
Chad	0.2977	Israel	1.0000	Pakistan	0.3215	UK	1.0000
Chile	1.0000	Italy	1.0000	Panama	1.0000	Ukraine	1.0000
China	1.0000	Japan	1.0000	Papua N.G.	0.1582	Uruguay	1.0000
Colombia	1.0000	Jordan	1.0000	Paraguay	1.0000	USA	1.0000
Congo	0.5926	Kazakhstan	1.0000	Peru	1.0000	Uzbekistan	0.9190
Cote d'Ivoire	0.1363	Kenya	0.8384	Philippines	0.9628	Venezuela	1.0000
Croatia	1.0000	Kuwait	1.0000	Poland	1.0000	Vietnam	0.7049
Czech Rep.	1.0000	Kyrgyzstan	1.0000	Portugal	1.0000	Yemen	0.3264
D.R. Congo	0.4110*	Laos	0.7306	Romania	1.0000	Zambia	0.8154**
Denmark	1.0000	Latvia	1.0000	Russia	1.0000	Zimbabwe	0.7040

\* denotes estimated values      \*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8316	Min	0.0000	Std. Deviation	0.2718	5 Percentile	0.1608
Missing	0	Median	1.0000	Max	1.0000			95 Percentile	1.0000



## Indicator: Fertilizer consumption

**Primary indicator:** Ecological Sustainability (ECOS), Ecological Sustainability (ECOS)

**Secondary indicator:** Land, Water

**Tertiary indicator:** Pressure, Pressure

**Explanation:** Fertilizer consumption measures the quantity of plant nutrients used per unit of arable land. Fertilizer products cover nitrogenous, potash, and phosphate fertilizers (including ground rock phosphate). Traditional nutrients--animal and plant manures--are not included. For the purpose of data dissemination, FAO has adopted the concept of a calendar year (January to December). Some countries compile fertilizer data on a calendar year basis, while others are on a split-year basis. 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.

**Sources:** World Bank (<http://data.worldbank.org/indicator/AG.CON.FERT.ZS>)

**Period:** 1990-2011

**Units:** kg of fertilizer per hectare of arable land

### Most recent data

Albania	88.9477	Ecuador	187.3403	Lebanon	169.1448	Rwanda	1.1108
Algeria	7.8447	Egypt	502.8252	Lithuania	51.9946	Saudi Arabia	43.7688
Angola	1.0760	El Salvador	107.3737	Macedonia, FYR	56.9262	Senegal	4.9491
Argentina	25.4256	Estonia	69.4597	Madagascar	2.6892	Sierra Leone	-
Armenia	29.1729	Ethiopia	17.6623	Malawi	28.5083	Slovakia	78.3097
Australia	34.9611	Finland	108.0461	Malaysia	769.7944	Slovenia	241.9143
Austria	83.1386	France	148.2693	Mali	7.5693	South Africa	49.2058
Azerbaijan	13.4114	Gabon	12.0215	Mauritania	-	South Korea	362.0759
Bangladesh	281.6990	Gambia	6.7875	Mexico	54.5241	Spain	96.9269
Belarus	281.1147	Georgia	43.4397	Moldova	9.3643	Sri Lanka	257.9283
Belgium	-	Germany	181.4144	Mongolia	7.8854	Sudan	7.8606
Benin	6.4792	Ghana	20.2689	Morocco	40.9868	Sweden	69.4002
Bolivia	6.1438	Greece	81.6157	Mozambique	4.3929	Switzerland	190.3612
Botswana	-	Guatemala	106.7833	Namibia	1.5900	Syria	65.4218
Brazil	125.0474	Guinea	0.6340	Nepal	17.6992	Tajikistan	64.9272
Bulgaria	169.5996	Guinea Bis.	-	Netherlands	238.3292	Tanzania	8.6533
Burkina Faso	9.1315	Honduras	62.3333	New Zealand	1,231.6624	Thailand	118.9355
Burundi	1.6244	Hungary	80.0436	Nicaragua	30.2816	Togo	0.9605
C. African R.	-	India	167.2131	Niger	0.3944	Tunisia	43.5279
Cambodia	9.5779	Indonesia	181.3542	Nigeria	2.1229	Turkey	96.4984
Cameroon	6.6659	Iran	69.6741	Norway	190.9772	UAE	1,032.9688
Canada	60.4515	Ireland	477.3333	Oman	236.3636	Uganda	2.0827
Chad	-	Israel	200.6579	Pakistan	217.2651	UK	239.8744
Chile	452.2228	Italy	117.0035	Panama	46.8814	Ukraine	29.6991
China	503.9413	Japan	290.9534	Papua N.G.	119.8308	Uruguay	109.6050
Colombia	499.4068	Jordan	359.1900	Paraguay	66.3605	USA	109.4482
Congo	4.5780	Kazakhstan	2.4103	Peru	105.5290	Uzbekistan	193.2906
Cote d'Ivoire	15.8543	Kenya	32.4470	Philippines	125.9789	Venezuela	157.1127
Croatia	249.1634	Kuwait	54.5455	Poland	141.7976	Vietnam	404.3268
Czech Rep.	88.5170	Kyrgyzstan	21.0219	Portugal	167.5556	Yemen	12.0410
D.R. Congo	0.5110	Laos	-	Romania	48.4932	Zambia	27.3167
Denmark	103.2110	Latvia	64.8836	Russia	15.6096	Zimbabwe	28.0060

### Descriptive Statistics - based on most recent data

Available	120	Mean	127.4245	Min	0.3944	Std. Deviation	188.1030	5 Percentile	1.5660
Missing	8	Median	65.1745	Max	1,231.6624			95 Percentile	478.4370



## Normalization

Type *SB (smaller is better)* Parameters  $T=162.4706$   $U=477.3333$   
 Comments  $T=\text{average of EU-14}$   $U=\text{max}$

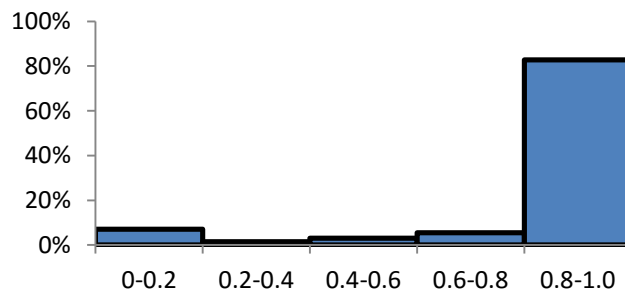
## Smoothed data

Albania	1.0000	Ecuador	0.9011	Lebanon	0.7595	Rwanda	1.0000
Algeria	1.0000	Egypt	0.0000	Lithuania	0.9955	Saudi Arabia	1.0000
Angola	1.0000	El Salvador	1.0000	Macedonia, FYR	1.0000	Senegal	1.0000
Argentina	1.0000	Estonia	1.0000	Madagascar	1.0000	Sierra Leone	1.0000**
Armenia	1.0000	Ethiopia	1.0000	Malawi	1.0000	Slovakia	1.0000
Australia	1.0000	Finland	1.0000	Malaysia	0.0000	Slovenia	0.7477
Austria	0.9994	France	0.9881	Mali	1.0000	South Africa	1.0000
Azerbaijan	1.0000	Gabon	1.0000	Mauritania	1.0000**	South Korea	0.0780
Bangladesh	0.8801	Gambia	1.0000	Mexico	1.0000	Spain	0.9997
Belarus	0.6232	Georgia	1.0000	Moldova	1.0000	Sri Lanka	0.6255
Belgium	0.8736**	Germany	0.9241	Mongolia	1.0000	Sudan	1.0000
Benin	1.0000	Ghana	1.0000	Morocco	1.0000	Sweden	1.0000
Bolivia	1.0000	Greece	0.9949	Mozambique	1.0000	Switzerland	0.9114
Botswana	1.0000**	Guatemala	1.0000	Namibia	1.0000	Syria	1.0000
Brazil	0.9860	Guinea	1.0000	Nepal	1.0000	Tajikistan	1.0000
Bulgaria	0.9774	Guinea Bis.	1.0000**	Netherlands	0.7591	Tanzania	1.0000
Burkina Faso	1.0000	Honduras	0.9834	New Zealand	0.0000	Thailand	1.0000
Burundi	1.0000	Hungary	1.0000	Nicaragua	1.0000	Togo	1.0000
C. African R.	1.0000**	India	0.9849	Niger	1.0000	Tunisia	1.0000
Cambodia	1.0000	Indonesia	0.9400	Nigeria	1.0000	Turkey	1.0000
Cameroon	1.0000	Iran	1.0000	Norway	0.9095	UAE	0.1512
Canada	1.0000	Ireland	0.1315	Oman	0.2141	Uganda	1.0000
Chad	1.0000**	Israel	0.8787	Pakistan	0.9400	UK	0.7631
Chile	0.0675	Italy	0.9625	Panama	1.0000	Ukraine	1.0000
China	0.0020	Japan	0.5792	Papua N.G.	0.9484	Uruguay	1.0000
Colombia	0.0000	Jordan	0.3751	Paraguay	1.0000	USA	1.0000
Congo	1.0000	Kazakhstan	1.0000	Peru	1.0000	Uzbekistan	0.9021
Cote d'Ivoire	1.0000	Kenya	1.0000	Philippines	0.9982	Venezuela	0.9895
Croatia	0.4153	Kuwait	0.5000	Poland	0.9965	Vietnam	0.4414
Czech Rep.	1.0000	Kyrgyzstan	1.0000	Portugal	0.9262	Yemen	1.0000
D.R. Congo	1.0000	Laos	0.7893**	Romania	1.0000	Zambia	1.0000
Denmark	1.0000	Latvia	1.0000	Russia	1.0000	Zimbabwe	1.0000

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8814	Min	0.0000	Std. Deviation	0.2683	5 Percentile	0.0967
Missing	0	Median	1.0000	Max	1.0000			95 Percentile	1.0000





**Indicator:** Foreign direct investments**Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Wealth**Tertiary indicator:** Response**Explanation:** Foreign direct investment are the net inflows of investment to acquire a lasting management interest (10 percent or more of voting stock) in an enterprise operating in an economy other than that of the investor. It is the sum of equity capital, reinvestment of earnings, other long-term capital, and short-term capital as shown in the balance of payments. This series shows net inflows (new investment inflows less disinvestment) in the reporting economy from foreign investors, and is divided by GDP.**Sources:** World Bank (<http://data.worldbank.org/indicator/BX.KLT.DINV.WD.GD.ZS>)**Period:** 1990-2011**Units:** percent of GDP (net inflows)**Most recent data**

Albania	10.5687	Ecuador	0.8610	Lebanon	8.6697	Rwanda	1.6628
Algeria	1.4419	Egypt	-0.2103	Lithuania	3.3776	Saudi Arabia	2.8273
Angola	-2.8982	El Salvador	1.0732	Macedonia, FYR	4.7427	Senegal	2.0019
Argentina	1.9439	Estonia	1.9684	Madagascar	9.1549	Sierra Leone	24.0487
Armenia	6.4741	Ethiopia	2.0713	Malawi	1.6440	Slovakia	3.8110
Australia	4.9035	Finland	-2.1893	Malaysia	4.1678	Slovenia	1.6512
Austria	3.7672	France	1.6303	Mali	1.6423	South Africa	1.4426
Azerbaijan	7.0739	Gabon	4.2694	Mauritania	1.0725	South Korea	0.4176
Bangladesh	0.7129	Gambia	4.0075	Mexico	1.8055	Spain	2.1274
Belarus	7.2597	Georgia	8.0294	Moldova	4.2025	Sri Lanka	1.6155
Belgium	19.8574	Germany	1.0849	Mongolia	53.8108	Sudan	3.0225
Benin	1.6240	Ghana	8.2201	Morocco	2.5158	Sweden	0.5659
Bolivia	3.5866	Greece	0.3770	Mozambique	16.2929	Switzerland	1.5284
Botswana	3.3884	Guatemala	2.3047	Namibia	7.7443	Syria	2.4840
Brazil	2.8885	Guinea	17.6138	Nepal	0.4979	Tajikistan	0.1708
Bulgaria	4.8358	Guinea Bis.	2.0011	Netherlands	1.6608	Tanzania	4.5882
Burkina Faso	0.0713	Honduras	5.9827	New Zealand	2.6831	Thailand	2.2507
Burundi	0.1442	Hungary	6.8762	Nicaragua	10.3888	Togo	1.4853
C. African R.	4.9744	India	1.7188	Niger	16.8463	Tunisia	0.9318
Cambodia	7.0281	Indonesia	2.1444	Nigeria	3.6240	Turkey	2.0709
Cameroon	1.4265	Iran	0.9207	Norway	1.4987	UAE	2.1316
Canada	2.2759	Ireland	5.2957	Oman	1.0978	Uganda	4.7409
Chad	17.5305	Israel	4.6819	Pakistan	0.6226	UK	1.4821
Chile	6.9590	Italy	1.2763	Panama	12.0363	Ukraine	4.3614
China	3.0080	Japan	0.0013	Papua N.G.	-2.3900	Uruguay	4.6612
Colombia	4.0809	Jordan	5.0936	Paraguay	1.7283	USA	1.7178
Congo	20.3175	Kazakhstan	7.0339	Peru	4.6532	Uzbekistan	3.0931
Cote d'Ivoire	1.4296	Kenya	0.9972	Philippines	0.8315	Venezuela	1.6513
Croatia	2.0242	Kuwait	0.2264	Poland	2.9730	Vietnam	6.0113
Czech Rep.	2.4792	Kyrgyzstan	11.1900	Portugal	5.5079	Yemen	-2.1116
D.R. Congo	10.1959	Laos	3.6244	Romania	1.3474	Zambia	10.3181
Denmark	3.9283	Latvia	5.3174	Russia	2.8463	Zimbabwe	4.0078

**Descriptive Statistics - based on most recent data**

Available	128	Mean	4.4755	Min	-2.8982	Std. Deviation	6.3527	5 Percentile	0.0969
Missing	0	Median	2.5995	Max	53.8108			95 Percentile	16.6526

## Normalization

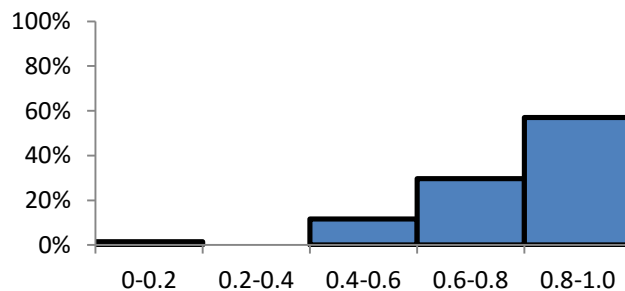
Type *LB (larger is better)* Parameters  $u=-2.8982$   $\tau=3.3123$   
 Comments  $u=\min$   $r=\text{average of EU-14}$

## Smoothed data

Albania	1.0000	Ecuador	0.6001	Lebanon	1.0000	Rwanda	0.7106
Algeria	0.7160	Egypt	0.4328	Lithuania	0.8794	Saudi Arabia	0.9219
Angola	0.1749	El Salvador	0.7304	Macedonia, FYR	0.9913	Senegal	0.8350
Argentina	0.8115	Estonia	0.9860	Madagascar	1.0000	Sierra Leone	0.9944
Armenia	1.0000	Ethiopia	0.7447	Malawi	0.7830	Slovakia	0.8686
Australia	0.8157	Finland	0.5894	Malaysia	0.9358	Slovenia	0.7408
Austria	0.7353	France	0.7292	Mali	0.6534	South Africa	0.6918
Azerbaijan	0.9920	Gabon	0.8931	Mauritania	0.7355	South Korea	0.5339
Bangladesh	0.5848	Gambia	1.0000	Mexico	0.7668	Spain	0.8623
Belarus	0.9657	Georgia	0.9981	Moldova	0.9988	Sri Lanka	0.6763
Belgium	1.0000	Germany	0.6209	Mongolia	1.0000	Sudan	0.9533
Benin	0.6214	Ghana	1.0000	Morocco	0.8269	Sweden	0.5948
Bolivia	0.9842	Greece	0.6018	Mozambique	0.9999	Switzerland	0.8404
Botswana	0.9399	Guatemala	0.7910	Namibia	0.9943	Syria	0.8947
Brazil	0.9235	Guinea	0.6000	Nepal	0.5409	Tajikistan	0.5128
Bulgaria	1.0000	Guinea Bis.	0.6536	Netherlands	0.7589	Tanzania	1.0000
Burkina Faso	0.5446	Honduras	1.0000	New Zealand	0.7652	Thailand	0.8413
Burundi	0.4863	Hungary	0.6661	Nicaragua	1.0000	Togo	0.7772
C. African R.	1.0000	India	0.7424	Niger	0.9893	Tunisia	0.8728
Cambodia	1.0000	Indonesia	0.8120	Nigeria	0.9725	Turkey	0.8001
Cameroon	0.7304	Iran	0.6135	Norway	0.7608	UAE	0.7995
Canada	0.8331	Ireland	0.9018	Oman	0.6434	Uganda	1.0000
Chad	1.0000	Israel	0.9502	Pakistan	0.5669	UK	0.8532
Chile	1.0000	Italy	0.6051	Panama	0.9850	Ukraine	1.0000
China	0.9510	Japan	0.4949	Papua N.G.	0.5248	Uruguay	1.0000
Colombia	0.9551	Jordan	1.0000	Paraguay	0.7116	USA	0.7433
Congo	0.9679	Kazakhstan	1.0000	Peru	1.0000	Uzbekistan	0.9625
Cote d'Ivoire	0.7037	Kenya	0.5637	Philippines	0.7148	Venezuela	0.6143
Croatia	0.7850	Kuwait	0.4930	Poland	0.9454	Vietnam	1.0000
Czech Rep.	0.9012	Kyrgyzstan	1.0000	Portugal	0.9091	Yemen	0.1609
D.R. Congo	0.8385	Laos	1.0000	Romania	0.6856	Zambia	1.0000
Denmark	0.7209	Latvia	0.8602	Russia	0.9282	Zimbabwe	0.9329

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8150	Min	0.1609	Std. Deviation	0.1810	5 Percentile	0.5170
Missing	0	Median	0.8409	Max	1.0000			95 Percentile	1.0000



**Indicator:** Forest area**Primary indicator:** Ecological Sustainability (ECOS), Ecological Sustainability (ECOS)**Secondary indicator:** Land, Biodiversity**Tertiary indicator:** State, State**Explanation:** Forest area is land under natural or planted stands of trees, whether productive or not. Forests maintain land sustainability.**Sources:** World Bank (calculated from <http://data.worldbank.org/indicator/AG.LND.FRST.ZS>)**Period:** 1990-2011**Units:** percent of what existed in year 2000**Most recent data**

Albania	100.8010	Ecuador	81.6434	Lebanon	104.5649	Rwanda	129.3605
Algeria	93.9329	Egypt	119.6610	Lithuania	107.3271	Saudi Arabia	100.0000
Angola	97.7016	El Salvador	85.1205	Macedonia, FYR	105.5270	Senegal	94.7720
Argentina	91.5232	Estonia	98.5288	Madagascar	95.2294	Sierra Leone	92.6215
Armenia	84.8026	Ethiopia	88.6917	Malawi	89.8234	Slovakia	100.6602
Australia	95.7759	Finland	98.8826	Malaysia	94.3412	Slovenia	101.7843
Austria	101.4574	France	104.2291	Mali	93.4493	South Africa	100.0000
Azerbaijan	99.9359	Gabon	100.0000	Mauritania	74.7634	South Korea	100.5047
Bangladesh	98.0518	Gambia	104.5119	Mexico	96.8477	Spain	108.0579
Belarus	104.7481	Georgia	98.9862	Moldova	120.6510	Sri Lanka	88.6359
Belgium	101.7294	Germany	100.1090	Mongolia	92.3103	Sudan	0.0000
Benin	89.1326	Ghana	79.1697	Morocco	102.4716	Sweden	102.9720
Bolivia	94.6704	Greece	109.2252	Mozambique	94.2279	Switzerland	104.2379
Botswana	89.6099	Guatemala	85.5703	Namibia	89.8381	Syria	115.1403
Brazil	94.7585	Guinea	94.2642	Nepal	93.2308	Tajikistan	100.0000
Bulgaria	120.2409	Guinea Bis.	94.9057	Netherlands	101.4791	Tanzania	88.1549
Burkina Faso	89.4526	Honduras	79.3492	New Zealand	99.9347	Thailand	99.9095
Burundi	85.9596	Hungary	105.8056	Nicaragua	79.8112	Togo	54.9794
C. African R.	98.5679	India	104.8769	Niger	89.7289	Tunisia	122.1505
Cambodia	86.3208	Indonesia	94.3043	Nigeria	65.7030	Turkey	112.8800
Cameroon	89.0577	Iran	100.0000	Norway	109.0463	UAE	102.6968
Canada	100.0000	Ireland	117.7638	Oman	100.0000	Uganda	74.9496
Chad	92.9268	Israel	100.5229	Pakistan	77.6938	UK	103.4085
Chile	102.7447	Italy	110.2409	Panama	96.1472	Ukraine	102.3292
China	118.4311	Japan	100.4494	Papua N.G.	94.8588	Uruguay	126.6856
Colombia	98.1938	Jordan	99.3918	Paraguay	89.8565	USA	101.5631
Congo	99.3026	Kazakhstan	98.1694	Peru	98.0192	Uzbekistan	101.8555
Cote d'Ivoire	100.7223	Kenya	96.4824	Philippines	108.4699	Venezuela	93.5635
Croatia	101.9460	Kuwait	130.4082	Poland	103.4426	Vietnam	119.2794
Czech Rep.	100.8734	Kyrgyzstan	113.0957	Portugal	101.1969	Yemen	100.0000
D.R. Congo	97.8217	Laos	94.8028	Romania	103.6204	Zambia	96.4161
Denmark	112.3457	Latvia	103.8316	Russia	100.0126	Zimbabwe	80.9622

**Descriptive Statistics - based on most recent data**

Available	128	Mean	97.8179	Min	0.0000	Std. Deviation	14.3561	5 Percentile	79.2325
Missing	0	Median	99.9221	Max	130.4082			95 Percentile	119.5275

## Normalization

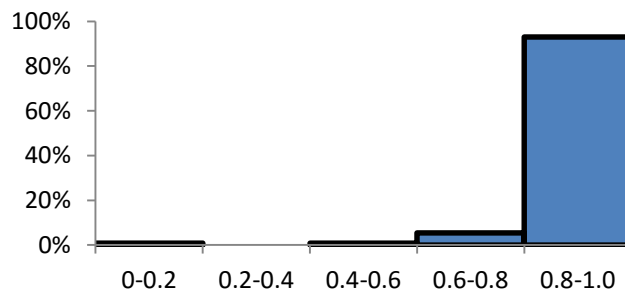
Type *LB (larger is better)* Parameters  $u=0.0000$   $\tau=100.0000$   
 Comments  $u=\min$   $r=\max$  (100% compared to 2000)

## Smoothed data

Albania	1.0000	Ecuador	0.8164	Lebanon	1.0000	Rwanda	1.0000
Algeria	0.9393	Egypt	1.0000	Lithuania	1.0000	Saudi Arabia	1.0000
Angola	0.9770	El Salvador	0.8512	Macedonia, FYR	1.0000	Senegal	0.9477
Argentina	0.9152	Estonia	0.9853	Madagascar	0.9523	Sierra Leone	0.9262
Armenia	0.8480	Ethiopia	0.8869	Malawi	0.8982	Slovakia	1.0000
Australia	0.9578	Finland	0.9888	Malaysia	0.9434	Slovenia	1.0000
Austria	1.0000	France	1.0000	Mali	0.9345	South Africa	1.0000
Azerbaijan	0.9994	Gabon	1.0000	Mauritania	0.7476	South Korea	1.0000
Bangladesh	0.9805	Gambia	1.0000	Mexico	0.9685	Spain	1.0000
Belarus	1.0000	Georgia	0.9899	Moldova	1.0000	Sri Lanka	0.8864
Belgium	1.0000	Germany	1.0000	Mongolia	0.9231	Sudan	0.0000
Benin	0.8913	Ghana	0.7917	Morocco	1.0000	Sweden	1.0000
Bolivia	0.9467	Greece	1.0000	Mozambique	0.9423	Switzerland	1.0000
Botswana	0.8961	Guatemala	0.8557	Namibia	0.8984	Syria	1.0000
Brazil	0.9476	Guinea	0.9426	Nepal	0.9323	Tajikistan	1.0000
Bulgaria	1.0000	Guinea Bis.	0.9491	Netherlands	1.0000	Tanzania	0.8815
Burkina Faso	0.8945	Honduras	0.7935	New Zealand	0.9993	Thailand	0.9980
Burundi	0.8596	Hungary	1.0000	Nicaragua	0.7981	Togo	0.5498
C. African R.	0.9857	India	1.0000	Niger	0.8973	Tunisia	1.0000
Cambodia	0.8632	Indonesia	0.9430	Nigeria	0.6570	Turkey	1.0000
Cameroon	0.8906	Iran	1.0000	Norway	1.0000	UAE	1.0000
Canada	1.0000	Ireland	1.0000	Oman	1.0000	Uganda	0.7495
Chad	0.9293	Israel	1.0000	Pakistan	0.7769	UK	1.0000
Chile	1.0000	Italy	1.0000	Panama	0.9615	Ukraine	1.0000
China	1.0000	Japan	1.0000	Papua N.G.	0.9486	Uruguay	1.0000
Colombia	0.9819	Jordan	0.9939	Paraguay	0.8986	USA	1.0000
Congo	0.9930	Kazakhstan	0.9817	Peru	0.9802	Uzbekistan	1.0000
Cote d'Ivoire	1.0000	Kenya	0.9648	Philippines	1.0000	Venezuela	0.9356
Croatia	1.0000	Kuwait	1.0000	Poland	1.0000	Vietnam	1.0000
Czech Rep.	1.0000	Kyrgyzstan	1.0000	Portugal	1.0000	Yemen	1.0000
D.R. Congo	0.9782	Laos	0.9480	Romania	1.0000	Zambia	0.9642
Denmark	1.0000	Latvia	1.0000	Russia	0.9999	Zimbabwe	0.8096

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.9458	Min	0.0000	Std. Deviation	0.1133	5 Percentile	0.7923
Missing	0	Median	0.9987	Max	1.0000			95 Percentile	1.0000



**Indicator: Forest change****Primary indicator:** Ecological Sustainability (ECOS), Ecological Sustainability (ECOS)**Secondary indicator:** Land, Biodiversity**Tertiary indicator:** Response, Response**Explanation:** Forest area change is the net change in forests and includes expansion of forest plantations and losses and gains in the area of natural forests. A positive forest change improves land sustainability.**Sources:** World Resources Institute – Earth Trends  
([http://www.earthtrends.wri.org/searchable\\_db/index.php?step=countries&cclD%5B%5D=0&allcountries=checkbox&theme=9&variable\\_ID=299&action=select\\_years](http://www.earthtrends.wri.org/searchable_db/index.php?step=countries&cclD%5B%5D=0&allcountries=checkbox&theme=9&variable_ID=299&action=select_years));  
FAO (<http://faostat.fao.org/?lang=en>)**Period:** 1990-2011**Units:** annual rate of change**Most recent data**

Albania	-0.0015	Ecuador	-0.0200	Lebanon	0.0006	Rwanda	0.0230
Algeria	-0.0059	Egypt	0.0086	Lithuania	0.0036	Saudi Arabia	0.0000
Angola	-0.0021	El Salvador	-0.0153	Macedonia, FYR	0.0046	Senegal	-0.0047
Argentina	-0.0082	Estonia	-0.0032	Madagascar	-0.0045	Sierra Leone	-0.0072
Armenia	-0.0160	Ethiopia	-0.0115	Malawi	-0.0102	Slovakia	0.0001
Australia	-0.0062	Finland	0.0000	Malaysia	-0.0042	Slovenia	0.0016
Austria	0.0013	France	0.0030	Mali	-0.0063	South Africa	0.0000
Azerbaijan	0.0000	Gabon	0.0000	Mauritania	-0.0207	South Korea	-0.0011
Bangladesh	-0.0018	Gambia	0.0038	Mexico	-0.0024	Spain	0.0097
Belarus	0.0045	Georgia	-0.0009	Moldova	0.0119	Sri Lanka	-0.0078
Belgium	0.0015	Germany	0.0000	Mongolia	-0.0075	Sudan	-1.0000
Benin	-0.0110	Ghana	-0.0234	Morocco	0.0019	Sweden	0.0000
Bolivia	-0.0054	Greece	0.0077	Mozambique	-0.0054	Switzerland	0.0037
Botswana	-0.0104	Guatemala	-0.0154	Namibia	-0.0102	Syria	0.0122
Brazil	-0.0042	Guinea	-0.0055	Nepal	0.0000	Tajikistan	0.0000
Bulgaria	0.0141	Guinea Bis.	-0.0049	Netherlands	0.0000	Tanzania	-0.0121
Burkina Faso	-0.0106	Honduras	-0.0231	New Zealand	-0.0010	Thailand	0.0008
Burundi	-0.0105	Hungary	0.0045	Nicaragua	-0.0225	Togo	-0.0690
C. African R.	-0.0013	India	0.0021	Niger	-0.0103	Tunisia	0.0163
Cambodia	-0.0126	Indonesia	-0.0073	Nigeria	-0.0453	Turkey	0.0105
Cameroon	-0.0110	Iran	0.0000	Norway	0.0076	UAE	0.0033
Canada	0.0000	Ireland	0.0119	Oman	0.0000	Uganda	-0.0295
Chad	-0.0069	Israel	-0.0013	Pakistan	-0.0255	UK	0.0025
Chile	0.0023	Italy	0.0085	Panama	-0.0036	Ukraine	0.0027
China	0.0134	Japan	0.0004	Papua N.G.	-0.0050	Uruguay	0.0257
Colombia	-0.0017	Jordan	0.0000	Paraguay	-0.0102	USA	0.0013
Congo	-0.0005	Kazakhstan	-0.0017	Peru	-0.0022	Uzbekistan	-0.0012
Cote d'Ivoire	0.0000	Kenya	-0.0032	Philippines	0.0071	Venezuela	-0.0062
Croatia	0.0018	Kuwait	0.0224	Poland	0.0029	Vietnam	0.0104
Czech Rep.	0.0008	Kyrgyzstan	0.0177	Portugal	0.0011	Yemen	0.0000
D.R. Congo	-0.0020	Laos	-0.0050	Romania	0.0055	Zambia	-0.0034
Denmark	0.0037	Latvia	0.0034	Russia	0.0001	Zimbabwe	-0.0209

**Descriptive Statistics - based on most recent data**

Available	128	Mean	-0.0103	Min	-1.0000	Std. Deviation	0.0889	5 Percentile	-0.0229
Missing	0	Median	-0.0007	Max	0.0257			95 Percentile	0.0130

## Normalization

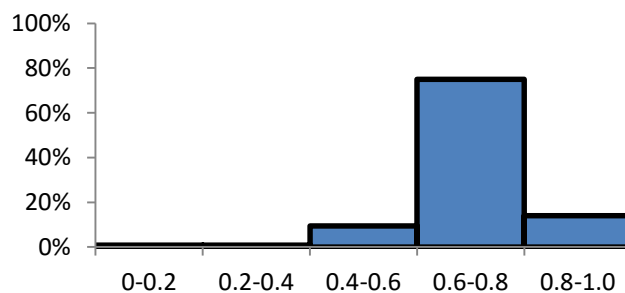
Type *LB (larger is better)* Parameters  $u=-0.0690$   $\tau=0.0257$   
 Comments  $u=\min$  (excluding 1% outliers)  $r=\max$

## Smoothed data

Albania	0.7132	Ecuador	0.5171	Lebanon	0.7349	Rwanda	0.9718
Algeria	0.6664	Egypt	0.8192	Lithuania	0.7668	Saudi Arabia	0.7287
Angola	0.7061	El Salvador	0.5667	Macedonia, FYR	0.7774	Senegal	0.6788
Argentina	0.6426	Estonia	0.6953	Madagascar	0.6807	Sierra Leone	0.6527
Armenia	0.5594	Ethiopia	0.6047	Malawi	0.6210	Slovakia	0.7298
Australia	0.6633	Finland	0.7287	Malaysia	0.6839	Slovenia	0.7455
Austria	0.7423	France	0.7605	Mali	0.6619	South Africa	0.7287
Azerbaijan	0.7287	Gabon	0.7287	Mauritania	0.5107	South Korea	0.7175
Bangladesh	0.7096	Gambia	0.7683	Mexico	0.7034	Spain	0.8310
Belarus	0.7762	Georgia	0.7189	Moldova	0.8546	Sri Lanka	0.6458
Belgium	0.6972	Germany	0.7287	Mongolia	0.6492	Sudan	0.6499
Benin	0.6130	Ghana	0.4819	Morocco	0.7493	Sweden	0.7287
Bolivia	0.6719	Greece	0.8104	Mozambique	0.6715	Switzerland	0.7679
Botswana	0.6185	Guatemala	0.5664	Namibia	0.6212	Syria	0.8577
Brazil	0.6841	Guinea	0.6706	Nepal	0.7287	Tajikistan	0.7287
Bulgaria	0.8772	Guinea Bis.	0.6764	Netherlands	0.7287	Tanzania	0.6012
Burkina Faso	0.6165	Honduras	0.4850	New Zealand	0.7179	Thailand	0.7369
Burundi	0.6182	Hungary	0.7766	Nicaragua	0.4913	Togo	0.0000
C. African R.	0.7147	India	0.7511	Niger	0.6200	Tunisia	0.9009
Cambodia	0.5954	Indonesia	0.6521	Nigeria	0.2502	Turkey	0.8394
Cameroon	0.6120	Iran	0.7287	Norway	0.8089	UAE	0.7640
Canada	0.7287	Ireland	0.8545	Oman	0.7287	Uganda	0.4169
Chad	0.6561	Israel	0.7150	Pakistan	0.4595	UK	0.7551
Chile	0.7531	Italy	0.8187	Panama	0.6903	Ukraine	0.7570
China	0.8698	Japan	0.7324	Papua N.G.	0.6764	Uruguay	1.0000
Colombia	0.7110	Jordan	0.7287	Paraguay	0.6214	USA	0.7420
Congo	0.7230	Kazakhstan	0.7108	Peru	0.7054	Uzbekistan	0.7161
Cote d'Ivoire	0.7283	Kenya	0.6952	Philippines	0.8042	Venezuela	0.6630
Croatia	0.7474	Kuwait	0.9661	Poland	0.7597	Vietnam	0.8389
Czech Rep.	0.7304	Kyrgyzstan	0.9159	Portugal	0.7403	Yemen	0.7287
D.R. Congo	0.7073	Laos	0.6762	Romania	0.7872	Zambia	0.6931
Denmark	0.7675	Latvia	0.7646	Russia	0.7286	Zimbabwe	0.5076

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.7009	Min	0.0000	Std. Deviation	0.1232	5 Percentile	0.4970
Missing	0	Median	0.7184	Max	1.0000			95 Percentile	0.8656



**Indicator: GDP implicit deflator****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Wealth**Tertiary indicator:** Pressure**Explanation:** Inflation as measured by the annual growth rate of the GDP implicit deflator shows the rate of price change in the economy as a whole. The GDP implicit deflator is the ratio of GDP in current local currency to GDP in constant local currency.**Sources:** World Bank (<http://data.worldbank.org/indicator/NY.GDP.DEFL.KD.ZG>)**Period:** 1990-2011**Units:** average annual percent growth rate**Most recent data**

Albania	3.0000	Ecuador	5.5270	Lebanon	4.8530	Rwanda	7.7592
Algeria	11.4312	Egypt	11.2000	Lithuania	5.8157	Saudi Arabia	19.8394
Angola	24.1672	El Salvador	6.0296	Macedonia, FYR	3.4235	Senegal	3.2007
Argentina	13.4263	Estonia	2.8532	Madagascar	7.6177	Sierra Leone	17.7073
Armenia	4.2208	Ethiopia	24.4025	Malawi	3.7787	Slovakia	1.6378
Australia	6.1478	Finland	3.0871	Malaysia	5.4630	Slovenia	0.8050
Austria	2.2417	France	1.3417	Mali	6.5928	South Africa	8.0056
Azerbaijan	16.7391	Gabon	17.4241	Mauritania	12.0673	South Korea	1.7448
Bangladesh	7.5319	Gambia	3.7152	Mexico	5.5580	Spain	0.9579
Belarus	58.3676	Georgia	9.2104	Moldova	7.4221	Sri Lanka	7.8480
Belgium	2.0299	Germany	0.8085	Mongolia	12.1310	Sudan	9.1733
Benin	2.3580	Ghana	12.5233	Morocco	1.4650	Sweden	1.0198
Bolivia	14.5659	Greece	1.0484	Mozambique	10.7492	Switzerland	0.2397
Botswana	10.6836	Guatemala	5.5313	Namibia	6.7919	Syria	6.2640
Brazil	6.9689	Guinea	19.5833	Nepal	10.4342	Tajikistan	13.3272
Bulgaria	4.9581	Guinea Bis.	4.4178	Netherlands	1.2428	Tanzania	9.1836
Burkina Faso	3.2027	Honduras	9.3273	New Zealand	2.0925	Thailand	4.2276
Burundi	12.8545	Hungary	3.5078	Nicaragua	10.5129	Togo	3.0192
C. African R.	1.9217	India	8.2780	Niger	3.5700	Tunisia	5.0087
Cambodia	3.3641	Indonesia	8.3952	Nigeria	2.3392	Turkey	8.8766
Cameroon	2.8885	Iran	0.5923	Norway	6.2804	UAE	15.3769
Canada	3.2514	Ireland	-0.4163	Oman	17.6151	Uganda	4.8542
Chad	16.1790	Israel	2.1041	Pakistan	18.3164	UK	2.6029
Chile	2.7799	Italy	1.2698	Panama	-9.5815	Ukraine	15.6066
China	7.7540	Japan	-2.1202	Papua N.G.	9.1743	Uruguay	7.9605
Colombia	6.9148	Jordan	6.3892	Paraguay	7.5007	USA	2.2283
Congo	10.6703	Kazakhstan	17.5689	Peru	4.7838	Uzbekistan	15.0727
Cote d'Ivoire	5.0326	Kenya	12.1331	Philippines	4.0629	Venezuela	28.1492
Croatia	2.1466	Kuwait	26.4149	Poland	3.1567	Vietnam	20.8587
Czech Rep.	-0.7718	Kyrgyzstan	22.4818	Portugal	0.6601	Yemen	18.2725
D.R. Congo	13.4084	Laos	4.3514	Romania	8.0625	Zambia	12.9000
Denmark	0.6151	Latvia	5.4227	Russia	15.8165	Zimbabwe	18.7667

**Descriptive Statistics - based on most recent data**

Available	128	Mean	8.1072	Min	-9.5815	Std. Deviation	7.9428	5 Percentile	0.6309
Missing	0	Median	6.2059	Max	58.3676			95 Percentile	20.5020



## Normalization

Type *SB (smaller is better)*

Parameters

$T=1.3221$

$U=3.0871$

Comments  $T=$ average of EU-14

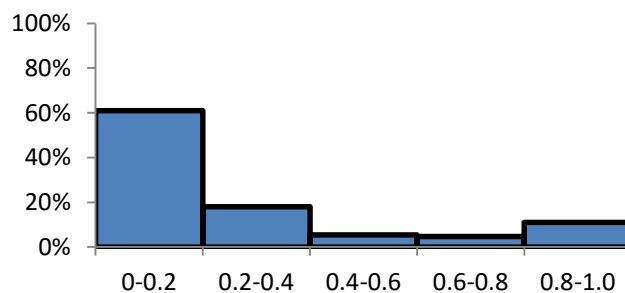
$U=$ max (excluding 1.5% outliers)

## Smoothed data

Albania	0.0698	Ecuador	0.1882	Lebanon	0.3097	Rwanda	0.0883
Algeria	0.1668	Egypt	0.0769	Lithuania	0.0000	Saudi Arabia	0.2183
Angola	0.0455	El Salvador	0.1751	Macedonia, FYR	0.1686	Senegal	0.4559
Argentina	0.0056	Estonia	0.4360	Madagascar	0.0083	Sierra Leone	0.0669
Armenia	0.0569	Ethiopia	0.0180	Malawi	0.0000	Slovakia	0.8149
Australia	0.2506	Finland	0.6074	Malaysia	0.1537	Slovenia	1.0000
Austria	0.4790	France	0.9889	Mali	0.0669	South Africa	0.0000
Azerbaijan	0.1357	Gabon	0.3273	Mauritania	0.1404	South Korea	0.3085
Bangladesh	0.1186	Gambia	0.2331	Mexico	0.0000	Spain	1.0000
Belarus	0.0000	Georgia	0.0455	Moldova	0.0239	Sri Lanka	0.0000
Belgium	0.6002	Germany	1.0000	Mongolia	0.0779	Sudan	0.0577
Benin	0.3408	Ghana	0.0000	Morocco	0.7869	Sweden	0.8022
Bolivia	0.1011	Greece	1.0000	Mozambique	0.0000	Switzerland	0.9997
Botswana	0.2026	Guatemala	0.0455	Namibia	0.1533	Syria	0.1988
Brazil	0.0000	Guinea	0.0465	Nepal	0.0004	Tajikistan	0.0000
Bulgaria	0.0284	Guinea Bis.	0.0874	Netherlands	0.8910	Tanzania	0.0000
Burkina Faso	0.3665	Honduras	0.0000	New Zealand	0.3293	Thailand	0.0462
Burundi	0.0785	Hungary	0.0155	Nicaragua	0.0000	Togo	0.3448
C. African R.	0.4656	India	0.0055	Niger	0.3188	Tunisia	0.1047
Cambodia	0.0299	Indonesia	0.0000	Nigeria	0.1546	Turkey	0.0000
Cameroon	0.3480	Iran	1.0000	Norway	0.3102	UAE	0.1951
Canada	0.2028	Ireland	0.9679	Oman	0.2069	Uganda	0.1539
Chad	0.2810	Israel	0.6650	Pakistan	0.0161	UK	0.3820
Chile	0.1094	Italy	1.0000	Panama	0.6194	Ukraine	0.0000
China	0.0963	Japan	1.0000	Papua N.G.	0.1935	Uruguay	0.0455
Colombia	0.0000	Jordan	0.0253	Paraguay	0.0455	USA	0.4866
Congo	0.3809	Kazakhstan	0.0000	Peru	0.0000	Uzbekistan	0.0000
Cote d'Ivoire	0.3857	Kenya	0.1132	Philippines	0.0081	Venezuela	0.0000
Croatia	0.5802	Kuwait	0.1916	Poland	0.2459	Vietnam	0.0293
Czech Rep.	0.7235	Kyrgyzstan	0.0273	Portugal	0.9997	Yemen	0.1044
D.R. Congo	0.0000	Laos	0.0455	Romania	0.0000	Zambia	0.0000
Denmark	0.5268	Latvia	0.2486	Russia	0.0282	Zimbabwe	0.3821

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.2523	Min	0.0000	Std. Deviation	0.3073	5 Percentile	0.0000
Missing	0	Median	0.1271	Max	1.0000			95 Percentile	0.9999





**Indicator:** Gini index**Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Policy**Tertiary indicator:** State

**Explanation:** Gini index measures the extent to which the distribution of income or 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.

**Sources:** World Bank (<http://data.worldbank.org/indicator/SI.POV.GINI>)**Period:** 1990-2011**Units:** 0-100 (0 representing perfect equality and 100 perfect inequality)**Most recent data**

Albania	34.5100	Ecuador	49.2600	Lebanon	-	Rwanda	50.8200
Algeria	35.3300	Egypt	30.7700	Lithuania	37.5700	Saudi Arabia	-
Angola	58.6400	El Salvador	48.3300	Macedonia, FYR	43.1700	Senegal	39.1900
Argentina	44.4900	Estonia	36.0000	Madagascar	44.1100	Sierra Leone	42.5200
Armenia	30.8600	Ethiopia	29.8300	Malawi	39.0200	Slovakia	26.0000
Australia	35.1900	Finland	26.8800	Malaysia	46.2100	Slovenia	31.1500
Austria	29.1500	France	32.7400	Mali	33.0200	South Africa	63.1400
Azerbaijan	33.7100	Gabon	41.4500	Mauritania	40.4600	South Korea	31.5900
Bangladesh	32.1200	Gambia	47.2800	Mexico	48.2800	Spain	34.6600
Belarus	27.2200	Georgia	41.3400	Moldova	33.0300	Sri Lanka	40.2600
Belgium	32.9700	Germany	28.3100	Mongolia	36.5200	Sudan	35.2900
Benin	38.6200	Ghana	42.7600	Morocco	40.8800	Sweden	25.0000
Bolivia	56.2900	Greece	34.2700	Mozambique	45.6600	Switzerland	33.6800
Botswana	60.9600	Guatemala	55.8900	Namibia	63.9000	Syria	35.7800
Brazil	54.6900	Guinea	39.3500	Nepal	32.8200	Tajikistan	30.8300
Bulgaria	28.1900	Guinea Bis.	35.5200	Netherlands	30.9000	Tanzania	37.5800
Burkina Faso	39.7900	Honduras	56.9500	New Zealand	36.1700	Thailand	40.0200
Burundi	33.2700	Hungary	31.1800	Nicaragua	40.4700	Togo	34.4100
C. African R.	56.3000	India	33.3800	Niger	34.5500	Tunisia	41.4200
Cambodia	37.8500	Indonesia	34.0100	Nigeria	48.8300	Turkey	38.9500
Cameroon	38.9100	Iran	38.2800	Norway	25.7900	UAE	-
Canada	32.5600	Ireland	34.2800	Oman	-	Uganda	44.3000
Chad	39.7800	Israel	39.2000	Pakistan	30.0200	UK	35.9700
Chile	52.0600	Italy	36.0300	Panama	51.9200	Ukraine	26.4400
China	42.4800	Japan	24.8500	Papua N.G.	50.8800	Uruguay	45.3200
Colombia	55.9100	Jordan	35.4300	Paraguay	52.4200	USA	40.8100
Congo	47.3200	Kazakhstan	29.0400	Peru	48.1400	Uzbekistan	36.7200
Cote d'Ivoire	41.5000	Kenya	47.6800	Philippines	42.9800	Venezuela	44.7700
Croatia	33.6500	Kuwait	-	Poland	34.0700	Vietnam	35.5700
Czech Rep.	25.8200	Kyrgyzstan	36.1900	Portugal	38.4500	Yemen	37.6900
D.R. Congo	44.4300	Laos	36.7400	Romania	30.0000	Zambia	54.6300
Denmark	24.7000	Latvia	36.6100	Russia	40.1100	Zimbabwe	50.1000

**Descriptive Statistics - based on most recent data**

Available	123	Mean	39.3013	Min	24.7000	Std. Deviation	8.8093	5 Percentile	26.4840
Missing	5	Median	37.6900	Max	63.9000			95 Percentile	56.2520

## Normalization

Type SB (smaller is better)

Parameters

T=25.7900

U=50.0000

Comments

T (the maximum value of Scandinavian countries)

U (Countries with Gini index above 50 exhibit very weakened social cohesion)

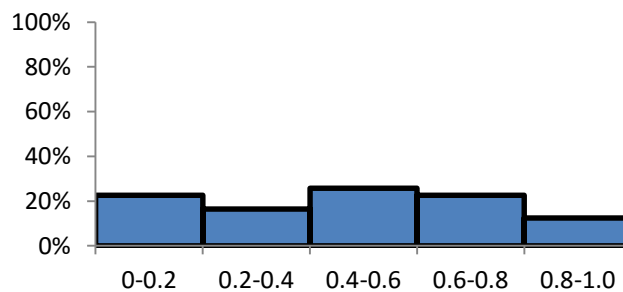
## Smoothed data

Albania	0.6398	Ecuador	0.0306	Lebanon	0.7912**	Rwanda	0.0000
Algeria	0.6059	Egypt	0.7617	Lithuania	0.5134	Saudi Arabia	0.5928**
Angola	0.0000	El Salvador	0.0919	Macedonia, FYR	0.2821	Senegal	0.4465
Argentina	0.2276	Estonia	0.5695	Madagascar	0.2347	Sierra Leone	0.3090
Armenia	0.7912	Ethiopia	0.8331	Malawi	0.4535	Slovakia	0.9846
Australia	0.6117	Finland	0.9550	Malaysia	0.1691	Slovenia	0.7786
Austria	0.8612	France	0.7129	Mali	0.7014	South Africa	0.0000
Azerbaijan	0.6172	Gabon	0.3532	Mauritania	0.3913	South Korea	0.7604
Bangladesh	0.7385	Gambia	0.1124	Mexico	0.0693	Spain	0.6336
Belarus	0.9409	Georgia	0.3905	Moldova	0.7010	Sri Lanka	0.4023
Belgium	0.7034	Germany	0.8959	Mongolia	0.5588	Sudan	0.6076
Benin	0.4701	Ghana	0.2990	Morocco	0.3767	Sweden	1.0000
Bolivia	0.0000	Greece	0.6497	Mozambique	0.1754	Switzerland	0.6741
Botswana	0.0000	Guatemala	0.0000	Namibia	0.0000	Syria	0.5874
Brazil	0.0000	Guinea	0.4399	Nepal	0.5249	Tajikistan	0.7874
Bulgaria	0.8517	Guinea Bis.	0.5981	Netherlands	0.7889	Tanzania	0.5130
Burkina Faso	0.4217	Honduras	0.0000	New Zealand	0.5713	Thailand	0.3983
Burundi	0.5646	Hungary	0.7774	Nicaragua	0.3936	Togo	0.6439
C. African R.	0.0885	India	0.6865	Niger	0.4536	Tunisia	0.3681
Cambodia	0.3888	Indonesia	0.8072	Nigeria	0.1734	Turkey	0.4564
Cameroon	0.4581	Iran	0.3203	Norway	1.0000	UAE	0.5928**
Canada	0.7204	Ireland	0.6493	Oman	0.5928**	Uganda	0.3063
Chad	0.4221	Israel	0.4461	Pakistan	0.7716	UK	0.5795
Chile	0.0000	Italy	0.5770	Panama	0.0000	Ukraine	0.9732
China	0.3106	Japan	1.0000	Papua N.G.	0.0000	Uruguay	0.1883
Colombia	0.0000	Jordan	0.5928	Paraguay	0.0000	USA	0.3796
Congo	0.1107	Kazakhstan	0.8658	Peru	0.0371	Uzbekistan	0.5485
Cote d'Ivoire	0.3511	Kenya	0.1832	Philippines	0.2333	Venezuela	0.1249
Croatia	0.7126	Kuwait	0.3106**	Poland	0.6580	Vietnam	0.5722
Czech Rep.	0.9988	Kyrgyzstan	0.5648	Portugal	0.4771	Yemen	0.5085
D.R. Congo	0.2301	Laos	0.6190	Romania	0.8261	Zambia	0.0560
Denmark	1.0000	Latvia	0.5531	Russia	0.4085	Zimbabwe	0.0000

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.4733	Min	0.0000	Std. Deviation	0.2925	5 Percentile	0.0000
Missing	0	Median	0.5107	Max	1.0000			95 Percentile	0.9668



## Indicator: Glass recycling

**Primary indicator:** Ecological Sustainability (ECOS)

**Secondary indicator:** Land

**Tertiary indicator:** Response

**Explanation:** Recycling rates are the ratios of the quantity collected for recycling to the apparent consumption. Reducing uncontrolled waste improves land sustainability.

**Sources:** United Nations Environment Programme  
([http://geodata.grid.unep.ch/mod\\_download/download\\_xls.php?selectedID=1552](http://geodata.grid.unep.ch/mod_download/download_xls.php?selectedID=1552))

Esty et al. (2005); OECD (2005a); Fischer and Werge (2009)

**Period:** 1990-2011

**Units:** percent of apparent consumption

### Most recent data

Albania	0.0000	Ecuador	-	Lebanon	-	Rwanda	0.0000
Algeria	0.0000*	Egypt	0.0000	Lithuania	20.3000	Saudi Arabia	0.0000*
Angola	0.0000*	El Salvador	0.0000	Macedonia, FYR	-	Senegal	0.0000
Argentina	-	Estonia	14.5000	Madagascar	0.0000*	Sierra Leone	0.0000*
Armenia	0.0000	Ethiopia	0.0000	Malawi	0.0000*	Slovakia	40.0000
Australia	40.0000	Finland	72.0000	Malaysia	-	Slovenia	3.5000
Austria	83.0000	France	62.0000	Mali	0.0000	South Africa	0.0000
Azerbaijan	-	Gabon	0.0000	Mauritania	-	South Korea	70.0000
Bangladesh	-	Gambia	0.0000	Mexico	13.0000	Spain	45.0000
Belarus	0.0000	Georgia	0.0000*	Moldova	0.0000*	Sri Lanka	0.0000
Belgium	92.0000	Germany	85.5000	Mongolia	0.0000	Sudan	0.0000*
Benin	-	Ghana	0.0000	Morocco	0.0000	Sweden	96.0000
Bolivia	-	Greece	17.0000	Mozambique	0.0000	Switzerland	95.0000
Botswana	-	Guatemala	-	Namibia	-	Syria	-
Brazil	44.0000	Guinea	-	Nepal	-	Tajikistan	0.0000*
Bulgaria	18.4000	Guinea Bis.	0.0000*	Netherlands	78.0000	Tanzania	0.0000*
Burkina Faso	-	Honduras	0.0000*	New Zealand	49.1125	Thailand	0.0000
Burundi	0.0000	Hungary	14.0000	Nicaragua	-	Togo	0.0000
C. African R.	0.0000	India	-	Niger	0.0000*	Tunisia	-
Cambodia	-	Indonesia	-	Nigeria	0.0000*	Turkey	32.0000
Cameroon	-	Iran	0.0000*	Norway	90.0000	UAE	0.0000*
Canada	-	Ireland	81.0000	Oman	0.0000*	Uganda	-
Chad	0.0000	Israel	-	Pakistan	-	UK	36.0000
Chile	5.0000	Italy	62.0000	Panama	0.0000	Ukraine	0.0000*
China	-	Japan	90.0000	Papua N.G.	0.0000*	Uruguay	0.0000
Colombia	16.0000	Jordan	0.0000	Paraguay	-	USA	21.6471
Congo	-	Kazakhstan	0.0000*	Peru	-	Uzbekistan	0.0000*
Cote d'Ivoire	-	Kenya	-	Philippines	0.0000	Venezuela	0.0000*
Croatia	-	Kuwait	0.0000	Poland	1.9000	Vietnam	-
Czech Rep.	16.8000	Kyrgyzstan	0.0000	Portugal	41.0000	Yemen	-
D.R. Congo	-	Laos	0.0000*	Romania	10.2000	Zambia	0.0000*
Denmark	70.0000	Latvia	5.1000	Russia	-	Zimbabwe	-

\* denotes estimated values

### Descriptive Statistics - based on most recent data

Available	89	Mean	18.3254	Min	0.0000	Std. Deviation	29.9431	5 Percentile	0.0000
Missing	39	Median	0.0000	Max	96.0000			95 Percentile	88.2000

## Normalization

Type *LB (larger is better)* Parameters  $u=0.0000$   $\tau=100.0000$   
 Comments  $u=\min$   $r=\text{maximum possible}$

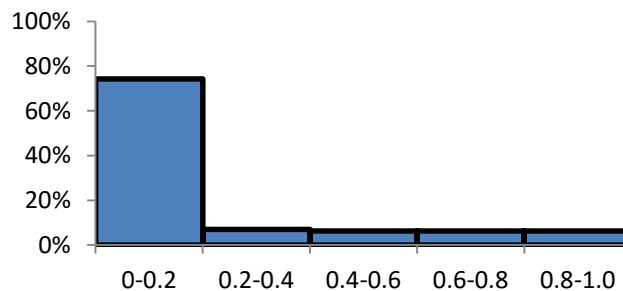
## Smoothed data

Albania	0.0000	Ecuador	0.0000**	Lebanon	0.3200**	Rwanda	0.0000
Algeria	0.0000*	Egypt	0.0000	Lithuania	0.2030	Saudi Arabia	0.0000*
Angola	0.0000*	El Salvador	0.0000	Macedonia, FYR	0.1020**	Senegal	0.0000
Argentina	0.4400**	Estonia	0.1450	Madagascar	0.0000*	Sierra Leone	0.0000*
Armenia	0.0000	Ethiopia	0.0000	Malawi	0.0000*	Slovakia	0.4000
Australia	0.4000	Finland	0.7200	Malaysia	0.0000**	Slovenia	0.0350
Austria	0.8416	France	0.6200	Mali	0.0000	South Africa	0.0000
Azerbaijan	0.0000**	Gabon	0.0000	Mauritania	0.0000**	South Korea	0.7000
Bangladesh	0.0000**	Gambia	0.0000	Mexico	0.1300	Spain	0.4323
Belarus	0.0000	Georgia	0.0000*	Moldova	0.0000*	Sri Lanka	0.0000
Belgium	0.9200	Germany	0.8550	Mongolia	0.0000	Sudan	0.0000*
Benin	0.0000**	Ghana	0.0000	Morocco	0.0000	Sweden	0.9600
Bolivia	0.4400**	Greece	0.2568	Mozambique	0.0000	Switzerland	0.9500
Botswana	0.0000**	Guatemala	0.0000**	Namibia	0.0000**	Syria	0.3200**
Brazil	0.4400	Guinea	0.0000**	Nepal	0.0000**	Tajikistan	0.0000*
Bulgaria	0.1840	Guinea Bis.	0.0000*	Netherlands	0.7955	Tanzania	0.0000*
Burkina Faso	0.0000**	Honduras	0.0000*	New Zealand	0.4911	Thailand	0.0000
Burundi	0.0000	Hungary	0.1400	Nicaragua	0.0000**	Togo	0.0000
C. African R.	0.0000	India	0.0000**	Niger	0.0000*	Tunisia	0.0000**
Cambodia	0.0000**	Indonesia	0.0000**	Nigeria	0.0000*	Turkey	0.3200
Cameroon	0.0000**	Iran	0.0000*	Norway	0.9000	UAE	0.0000*
Canada	0.6200**	Ireland	0.7818	Oman	0.0000*	Uganda	0.0000**
Chad	0.0000	Israel	0.0000**	Pakistan	0.0000**	UK	0.3600
Chile	0.0500	Italy	0.6192	Panama	0.0000	Ukraine	0.0000*
China	0.0000**	Japan	0.9000	Papua N.G.	0.0000*	Uruguay	0.0000
Colombia	0.1600	Jordan	0.0000	Paraguay	0.4400**	USA	0.2167
Congo	0.0000**	Kazakhstan	0.0000*	Peru	0.4400**	Uzbekistan	0.0000*
Cote d'Ivoire	0.0000**	Kenya	0.0000**	Philippines	0.0000	Venezuela	0.0000*
Croatia	0.9000**	Kuwait	0.0000	Poland	0.0190	Vietnam	0.0000**
Czech Rep.	0.1680	Kyrgyzstan	0.0000	Portugal	0.4100	Yemen	0.0000**
D.R. Congo	0.0000**	Laos	0.0000*	Romania	0.1020	Zambia	0.0000*
Denmark	0.6940	Latvia	0.0510	Russia	0.0920**	Zimbabwe	0.0000**

\* denotes estimated values      \*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.1600	Min	0.0000	Std. Deviation	0.2778	5 Percentile	0.0000
Missing	0	Median	0.0000	Max	0.9600			95 Percentile	0.8503



**Indicator: GNI per capita****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Wealth**Tertiary indicator:** State**Explanation:** GNI per capita based on purchasing power parity (PPP) is gross national income (GNI) converted to international dollars using purchasing power parity rates. An international dollar has the same purchasing power over GNI as a U.S. dollar has in the United States. GNI is the sum of value added by all resident producers plus any product taxes (less subsidies) not included in the valuation of output plus net receipts of primary income (compensation of employees and property income) from abroad. Data are in current international dollars.**Sources:** World Bank (<http://data.worldbank.org/indicator/NY.GNP.PCAP.PP.CD>)**Period:** 1990-2011**Units:** current international \$ (based on PPP, purchasing power parity)**Most recent data**

Albania	8,820.0000	Ecuador	8,510.0000	Lebanon	14,470.0000	Rwanda	1,270.0000
Algeria	8,310.0000	Egypt	6,120.0000	Lithuania	20,760.0000	Saudi Arabia	24,700.0000
Angola	5,230.0000	El Salvador	6,640.0000	Macedonia, FYR	11,370.0000	Senegal	1,940.0000
Argentina	11,730.0000	Estonia	20,850.0000	Madagascar	950.0000	Sierra Leone	1,110.0000
Armenia	6,100.0000	Ethiopia	1,110.0000	Malawi	870.0000	Slovakia	22,300.0000
Australia	40,270.0000	Finland	37,660.0000	Malaysia	15,650.0000	Slovenia	26,500.0000
Austria	42,030.0000	France	35,910.0000	Mali	1,040.0000	South Africa	10,710.0000
Azerbaijan	8,950.0000	Gabon	13,740.0000	Mauritania	2,420.0000	South Korea	29,920.0000
Bangladesh	1,940.0000	Gambia	1,750.0000	Mexico	16,720.0000	Spain	31,440.0000
Belarus	14,460.0000	Georgia	5,350.0000	Moldova	3,640.0000	Sri Lanka	5,520.0000
Belgium	39,150.0000	Germany	40,190.0000	Mongolia	4,290.0000	Sudan	2,120.0000
Benin	1,610.0000	Ghana	1,810.0000	Morocco	4,880.0000	Sweden	42,210.0000
Bolivia	4,890.0000	Greece	25,110.0000	Mozambique	960.0000	Switzerland	52,530.0000
Botswana	14,550.0000	Guatemala	4,760.0000	Namibia	6,520.0000	Syria	5,080.0000
Brazil	11,420.0000	Guinea	1,020.0000	Nepal	1,260.0000	Tajikistan	2,300.0000
Bulgaria	14,400.0000	Guinea Bis.	1,270.0000	Netherlands	43,150.0000	Tanzania	1,500.0000
Burkina Faso	1,300.0000	Honduras	3,820.0000	New Zealand	29,420.0000	Thailand	8,360.0000
Burundi	610.0000	Hungary	20,310.0000	Nicaragua	3,730.0000	Togo	1,040.0000
C. African R.	810.0000	India	3,620.0000	Niger	720.0000	Tunisia	8,850.0000
Cambodia	2,230.0000	Indonesia	4,500.0000	Nigeria	2,290.0000	Turkey	16,940.0000
Cameroon	2,330.0000	Iran	11,420.0000	Norway	61,450.0000	UAE	47,890.0000
Canada	39,710.0000	Ireland	33,520.0000	Oman	25,720.0000	Uganda	1,310.0000
Chad	1,360.0000	Israel	28,070.0000	Pakistan	2,870.0000	UK	35,950.0000
Chile	16,300.0000	Italy	32,420.0000	Panama	14,510.0000	Ukraine	7,040.0000
China	8,390.0000	Japan	34,670.0000	Papua N.G.	2,570.0000	Uruguay	14,640.0000
Colombia	9,560.0000	Jordan	5,930.0000	Paraguay	5,390.0000	USA	48,820.0000
Congo	3,240.0000	Kazakhstan	11,250.0000	Peru	9,440.0000	Uzbekistan	3,420.0000
Cote d'Ivoire	1,710.0000	Kenya	1,710.0000	Philippines	4,140.0000	Venezuela	12,430.0000
Croatia	18,780.0000	Kuwait	53,720.0000	Poland	20,260.0000	Vietnam	3,250.0000
Czech Rep.	24,490.0000	Kyrgyzstan	2,200.0000	Portugal	24,620.0000	Yemen	2,170.0000
D.R. Congo	340.0000	Laos	2,580.0000	Romania	15,780.0000	Zambia	1,490.0000
Denmark	41,920.0000	Latvia	19,090.0000	Russia	21,210.0000	Zimbabwe	-

**Descriptive Statistics - based on most recent data**

Available	127	Mean	13,821.9685	Min	340.0000	Std. Deviation	14,512.1333	5 Percentile	978.0000
Missing	1	Median	8,360.0000	Max	61,450.0000			95 Percentile	42,156.0000

## Normalization

Type *LB (larger is better)* Parameters  $u=24,620.0000$   $\tau=36,091.4286$   
 Comments  $u=\text{min of EU-14}$   $r=\text{average of EU-14}$

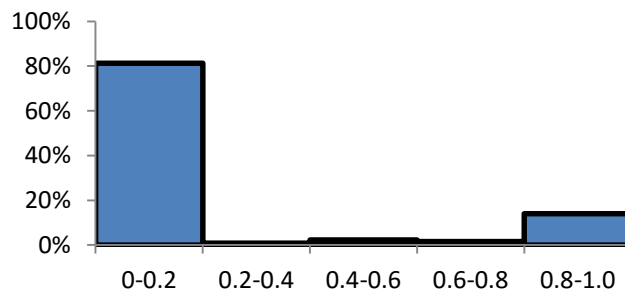
## Smoothed data

Albania	0.0000	Ecuador	0.0000	Lebanon	0.0000	Rwanda	0.0000
Algeria	0.0000	Egypt	0.0000	Lithuania	0.0000	Saudi Arabia	0.0070
Angola	0.0000	El Salvador	0.0000	Macedonia, FYR	0.0000	Senegal	0.0000
Argentina	0.0000	Estonia	0.0000	Madagascar	0.0000	Sierra Leone	0.0000
Armenia	0.0000	Ethiopia	0.0000	Malawi	0.0000	Slovakia	0.0000
Australia	1.0000	Finland	1.0000	Malaysia	0.0000	Slovenia	0.1631
Austria	1.0000	France	0.9842	Mali	0.0000	South Africa	0.0000
Azerbaijan	0.0000	Gabon	0.0000	Mauritania	0.0000	South Korea	0.4620
Bangladesh	0.0000	Gambia	0.0000	Mexico	0.0000	Spain	0.5945
Belarus	0.0000	Georgia	0.0000	Moldova	0.0000	Sri Lanka	0.0000
Belgium	1.0000	Germany	1.0000	Mongolia	0.0000	Sudan	0.0000
Benin	0.0000	Ghana	0.0000	Morocco	0.0000	Sweden	1.0000
Bolivia	0.0000	Greece	0.0427	Mozambique	0.0000	Switzerland	1.0000
Botswana	0.0000	Guatemala	0.0000	Namibia	0.0000	Syria	0.0000
Brazil	0.0000	Guinea	0.0000	Nepal	0.0000	Tajikistan	0.0000
Bulgaria	0.0000	Guinea Bis.	0.0000	Netherlands	1.0000	Tanzania	0.0000
Burkina Faso	0.0000	Honduras	0.0000	New Zealand	0.4184	Thailand	0.0000
Burundi	0.0000	Hungary	0.0000	Nicaragua	0.0000	Togo	0.0000
C. African R.	0.0000	India	0.0000	Niger	0.0000	Tunisia	0.0000
Cambodia	0.0000	Indonesia	0.0000	Nigeria	0.0000	Turkey	0.0000
Cameroon	0.0000	Iran	0.0000	Norway	1.0000	UAE	1.0000
Canada	1.0000	Ireland	0.7758	Oman	0.0677	Uganda	0.0000
Chad	0.0000	Israel	0.3007	Pakistan	0.0000	UK	0.9877
Chile	0.0000	Italy	0.6800	Panama	0.0000	Ukraine	0.0000
China	0.0000	Japan	0.8761	Papua N.G.	0.0000	Uruguay	0.0000
Colombia	0.0000	Jordan	0.0000	Paraguay	0.0000	USA	1.0000
Congo	0.0000	Kazakhstan	0.0000	Peru	0.0000	Uzbekistan	0.0000
Cote d'Ivoire	0.0000	Kenya	0.0000	Philippines	0.0000	Venezuela	0.0000
Croatia	0.0000	Kuwait	1.0000	Poland	0.0000	Vietnam	0.0000
Czech Rep.	0.0002	Kyrgyzstan	0.0000	Portugal	0.0002	Yemen	0.0000
D.R. Congo	0.0000	Laos	0.0000	Romania	0.0000	Zambia	0.0000
Denmark	1.0000	Latvia	0.0000	Russia	0.0000	Zimbabwe	1.0000**

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.1669	Min	0.0000	Std. Deviation	0.3558	5 Percentile	0.0000
Missing	0	Median	0.0000	Max	1.0000			95 Percentile	1.0000



**Indicator:** Greenhouse gas emissions per capita**Primary indicator:** Ecological Sustainability (ECOS)**Secondary indicator:** Air**Tertiary indicator:** Pressure**Explanation:** Emissions of total GHG (CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, HFCs, PFCs and SF<sub>6</sub>), excluding land-use change and forestry. The global warming potential is an index used to translate the level of emissions of various gases into a common measure in order to compare the relative radiative forcing of different gases without directly calculating the changes in atmospheric concentrations. GWP is the ratio of the warming caused by a substance to the warming caused by the same mass of carbon dioxide.**Sources:** United Nations Environment Programme (<http://geodata.grid.unep.ch>)**Period:** 1990-2011**Units:** gigagrams of CO<sub>2</sub> equivalent per capita**Most recent data**

Albania	0.0019	Ecuador	0.0034	Lebanon	0.0052	Rwanda	0.0007
Algeria	0.0042	Egypt	0.0026	Lithuania	0.0066	Saudi Arabia	0.0165
Angola	0.0054	El Salvador	0.0018	Macedonia, FYR	0.0058	Senegal	0.0018
Argentina	0.0078	Estonia	0.0153	Madagascar	0.0023	Sierra Leone	0.0012
Armenia	0.0021	Ethiopia	0.0009	Malawi	0.0006	Slovakia	0.0085
Australia	0.0253	Finland	0.0139	Malaysia	0.0068	Slovenia	0.0096
Austria	0.0101	France	0.0084	Mali	0.0022	South Africa	0.0095
Azerbaijan	0.0068	Gabon	0.0055	Mauritania	0.0056	South Korea	0.0110
Bangladesh	0.0009	Gambia	0.0055	Mexico	0.0054	Spain	0.0079
Belarus	0.0093	Georgia	0.0022	Moldova	0.0025	Sri Lanka	0.0013
Belgium	0.0124	Germany	0.0114	Mongolia	0.0116	Sudan	0.0037
Benin	0.0014	Ghana	0.0012	Morocco	0.0021	Sweden	0.0071
Bolivia	0.0047	Greece	0.0106	Mozambique	0.0011	Switzerland	0.0071
Botswana	0.0065	Guatemala	0.0024	Namibia	0.0051	Syria	0.0040
Brazil	0.0049	Guinea	0.0020	Nepal	0.0013	Tajikistan	0.0016
Bulgaria	0.0082	Guinea Bis.	0.0016	Netherlands	0.0126	Tanzania	0.0019
Burkina Faso	0.0019	Honduras	0.0020	New Zealand	0.0167	Thailand	0.0043
Burundi	0.0004	Hungary	0.0068	Nicaragua	0.0025	Togo	0.0015
C. African R.	0.0067	India	0.0019	Niger	0.0010	Tunisia	0.0033
Cambodia	0.0058	Indonesia	0.0024	Nigeria	0.0016	Turkey	0.0053
Cameroon	0.0024	Iran	0.0075	Norway	0.0111	UAE	0.0368
Canada	0.0204	Ireland	0.0134	Oman	0.0129	Uganda	0.0011
Chad	0.0024	Israel	0.0118	Pakistan	0.0021	UK	0.0096
Chile	0.0053	Italy	0.0083	Panama	0.0036	Ukraine	0.0084
China	0.0039	Japan	0.0099	Papua N.G.	0.0017	Uruguay	0.0076
Colombia	0.0038	Jordan	0.0049	Paraguay	0.0061	USA	0.0214
Congo	0.0032	Kazakhstan	0.0110	Peru	0.0027	Uzbekistan	0.0073
Cote d'Ivoire	0.0020	Kenya	0.0016	Philippines	0.0017	Venezuela	0.0099
Croatia	0.0065	Kuwait	0.0304	Poland	0.0105	Vietnam	0.0017
Czech Rep.	0.0134	Kyrgyzstan	0.0019	Portugal	0.0066	Yemen	0.0016
D.R. Congo	0.0010	Laos	0.0019	Romania	0.0058	Zambia	0.0026
Denmark	0.0114	Latvia	0.0054	Russia	0.0157	Zimbabwe	0.0027

**Descriptive Statistics - based on most recent data**

Available	128	Mean	0.0063	Min	0.0004	Std. Deviation	0.0059	5 Percentile	0.0010
Missing	0	Median	0.0052	Max	0.0368			95 Percentile	0.0162



## Normalization

Type SB (smaller is better)

Parameters

T=0.0057

U=0.0368

Comments

T=average of EU-14 reduced by 30% (according to EU target of 2020)

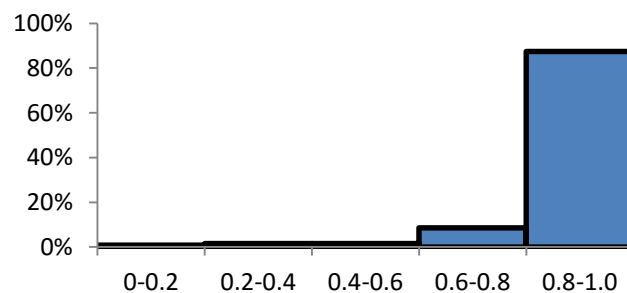
U=max

## Smoothed data

Albania	1.0000	Ecuador	1.0000	Lebanon	1.0000	Rwanda	1.0000
Algeria	1.0000	Egypt	1.0000	Lithuania	0.9707	Saudi Arabia	0.6527
Angola	1.0000	El Salvador	1.0000	Macedonia, FYR	0.9968	Senegal	1.0000
Argentina	0.9325	Estonia	0.7212	Madagascar	1.0000	Sierra Leone	1.0000
Armenia	1.0000	Ethiopia	1.0000	Malawi	1.0000	Slovakia	0.9097
Australia	0.3713	Finland	0.7245	Malaysia	0.9646	Slovenia	0.8625
Austria	0.8604	France	0.9122	Mali	1.0000	South Africa	0.8778
Azerbaijan	0.9646	Gabon	1.0000	Mauritania	1.0000	South Korea	0.8296
Bangladesh	1.0000	Gambia	1.0000	Mexico	1.0000	Spain	0.9308
Belarus	0.8833	Georgia	1.0000	Moldova	1.0000	Sri Lanka	1.0000
Belgium	0.7872	Germany	0.8173	Mongolia	0.8103	Sudan	1.0000
Benin	1.0000	Ghana	1.0000	Morocco	1.0000	Sweden	0.9557
Bolivia	1.0000	Greece	0.8428	Mozambique	1.0000	Switzerland	0.9556
Botswana	0.9743	Guatemala	1.0000	Namibia	1.0000	Syria	1.0000
Brazil	1.0000	Guinea	1.0000	Nepal	1.0000	Tajikistan	1.0000
Bulgaria	0.9191	Guinea Bis.	1.0000	Netherlands	0.7787	Tanzania	1.0000
Burkina Faso	1.0000	Honduras	1.0000	New Zealand	0.6479	Thailand	1.0000
Burundi	1.0000	Hungary	0.9647	Nicaragua	1.0000	Togo	1.0000
C. African R.	0.9678	India	1.0000	Niger	1.0000	Tunisia	1.0000
Cambodia	0.9968	Indonesia	1.0000	Nigeria	1.0000	Turkey	1.0000
Cameroon	1.0000	Iran	0.9421	Norway	0.8282	UAE	0.0000
Canada	0.5270	Ireland	0.7537	Oman	0.7685	Uganda	1.0000
Chad	1.0000	Israel	0.8039	Pakistan	1.0000	UK	0.8749
Chile	1.0000	Italy	0.9151	Panama	1.0000	Ukraine	0.9129
China	1.0000	Japan	0.8666	Papua N.G.	1.0000	Uruguay	0.9389
Colombia	1.0000	Jordan	1.0000	Paraguay	0.9871	USA	0.4947
Congo	1.0000	Kazakhstan	0.8296	Peru	1.0000	Uzbekistan	0.9486
Cote d'Ivoire	1.0000	Kenya	1.0000	Philippines	1.0000	Venezuela	0.8650
Croatia	0.9748	Kuwait	0.2058	Poland	0.8477	Vietnam	1.0000
Czech Rep.	0.7534	Kyrgyzstan	1.0000	Portugal	0.9718	Yemen	1.0000
D.R. Congo	1.0000	Laos	1.0000	Romania	0.9966	Zambia	1.0000
Denmark	0.7972	Latvia	1.0000	Russia	0.6801	Zimbabwe	1.0000

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.9240	Min	0.0000	Std. Deviation	0.1539	5 Percentile	0.6623
Missing	0	Median	1.0000	Max	1.0000			95 Percentile	1.0000





## Indicator: Hazardous waste generation

**Primary indicator:** Ecological Sustainability (ECOS)

**Secondary indicator:** Land

**Tertiary indicator:** Pressure

**Explanation:** Waste found in streams to be controlled according to the Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal. Reduction of hazardous waste improves land sustainability.

**Sources:** Esty et al. (2005)

United Nations Environment Programme/United Nations Statistics Division ([http://geodata.grid.unep.ch/mod\\_download/download\\_xls.php?selectedID=1540](http://geodata.grid.unep.ch/mod_download/download_xls.php?selectedID=1540)) ([http://unstats.un.org/unsd/environment/Questionnaires/country\\_snapshots.htm](http://unstats.un.org/unsd/environment/Questionnaires/country_snapshots.htm))

**Period:** 1990-2011

**Units:** tons of hazardous waste per capita per year

### Most recent data

Albania	0.0001	Ecuador	0.0065	Lebanon	0.0315	Rwanda	-
Algeria	0.0102	Egypt	0.0023	Lithuania	0.0326	Saudi Arabia	0.0099
Angola	0.0000*	El Salvador	-	Macedonia, FYR	0.0074	Senegal	-
Argentina	0.0000*	Estonia	4.3561	Madagascar	0.0001	Sierra Leone	-
Armenia	0.1800	Ethiopia	-	Malawi	0.0497	Slovakia	0.2595
Australia	0.0243	Finland	0.0944	Malaysia	0.0166	Slovenia	0.0330
Austria	0.1215	France	0.1535	Mali	-	South Africa	-
Azerbaijan	0.0013	Gabon	-	Mauritania	-	South Korea	0.0591
Bangladesh	-	Gambia	0.1318	Mexico	0.0378	Spain	0.0864
Belarus	0.0157	Georgia	0.3663	Moldova	0.0002	Sri Lanka	0.0022
Belgium	0.1980	Germany	0.2127	Mongolia	1.7424	Sudan	-
Benin	0.0002	Ghana	-	Morocco	0.0043	Sweden	0.0158
Bolivia	-	Greece	0.0260	Mozambique	-	Switzerland	0.1423
Botswana	0.0050	Guatemala	-	Namibia	-	Syria	0.0000
Brazil	0.0164	Guinea	-	Nepal	0.0000	Tajikistan	-
Bulgaria	0.0975	Guinea Bis.	-	Netherlands	0.0949	Tanzania	-
Burkina Faso	-	Honduras	-	New Zealand	0.1304	Thailand	0.0053
Burundi	-	Hungary	0.3561	Nicaragua	-	Togo	-
C. African R.	-	India	0.0039*	Niger	0.0397	Tunisia	0.0154
Cambodia	-	Indonesia	0.0001	Nigeria	0.0000	Turkey	0.0168
Cameroon	-	Iran	-	Norway	0.1372	UAE	0.0504
Canada	0.2093	Ireland	0.0997	Oman	0.0943	Uganda	0.0000
Chad	-	Israel	0.0500	Pakistan	0.0104	UK	0.0883
Chile	-	Italy	0.0713	Panama	-	Ukraine	1.3261
China	0.0089	Japan	0.0210	Papua N.G.	-	Uruguay	-
Colombia	-	Jordan	0.0062	Paraguay	-	USA	0.1301
Congo	-	Kazakhstan	0.0066	Peru	0.0005	Uzbekistan	1.0881
Cote d'Ivoire	-	Kenya	-	Philippines	-	Venezuela	-
Croatia	0.0095	Kuwait	0.0097	Poland	0.0416	Vietnam	-
Czech Rep.	0.2327	Kyrgyzstan	1.2586	Portugal	0.0590	Yemen	0.0025
D.R. Congo	-	Laos	-	Romania	0.1000	Zambia	0.0007
Denmark	0.0726	Latvia	0.0403	Russia	0.7386	Zimbabwe	-

\* denotes estimated values

### Descriptive Statistics - based on most recent data

Available	83	Mean	0.1829	Min	0.0000	Std. Deviation	0.5532	5 Percentile	0.0000
Missing	45	Median	0.0326	Max	4.3561			95 Percentile	1.0532

## Normalization

Type *SB (smaller is better)*

Parameters

$T=0.0000$

$U=1.0881$

Comments

$T=\text{minimum possible}$

$U=\text{max (excluding 5%outliers)}$

## Smoothed data

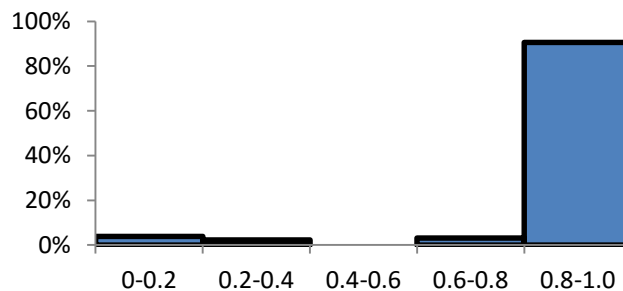
Albania	0.9999	Ecuador	0.9940	Lebanon	0.9711	Rwanda	0.9999**
Algeria	0.9906	Egypt	0.9979	Lithuania	0.9700	Saudi Arabia	0.9909
Angola	1.0000*	El Salvador	0.9998**	Macedonia, FYR	0.9932	Senegal	0.9998**
Argentina	1.0000*	Estonia	0.0000	Madagascar	0.9999	Sierra Leone	0.8789**
Armenia	0.8346	Ethiopia	0.9847**	Malawi	0.9543	Slovakia	0.7577
Australia	0.9776	Finland	0.9133	Malaysia	0.9847	Slovenia	0.9697
Austria	0.8884	France	0.8589	Mali	0.8789**	South Africa	1.0000**
Azerbaijan	0.9988	Gabon	1.0000**	Mauritania	0.9904**	South Korea	0.9478
Bangladesh	0.9964**	Gambia	0.8789	Mexico	0.9412	Spain	0.9206
Belarus	0.9856	Georgia	0.6634	Moldova	0.9998	Sri Lanka	0.9980
Belgium	0.8180	Germany	0.8324	Mongolia	0.0000	Sudan	1.0000**
Benin	0.9998	Ghana	0.9999**	Morocco	0.9960	Sweden	0.9855
Bolivia	0.9928**	Greece	0.9761	Mozambique	0.9771**	Switzerland	0.8692
Botswana	0.9954	Guatemala	0.9895**	Namibia	0.9954**	Syria	1.0000
Brazil	0.9849	Guinea	0.8789**	Nepal	1.0000	Tajikistan	0.3313**
Bulgaria	0.9104	Guinea Bis.	0.9393**	Netherlands	0.9259	Tanzania	0.9768**
Burkina Faso	0.9998**	Honduras	0.9940**	New Zealand	0.8802	Thailand	0.9951
Burundi	0.9847**	Hungary	0.6727	Nicaragua	0.9940**	Togo	1.0000**
C. African R.	1.0000**	India	0.9964*	Niger	0.9635	Tunisia	0.9858
Cambodia	0.9999**	Indonesia	0.9999	Nigeria	1.0000	Turkey	0.9846
Cameroon	1.0000**	Iran	0.3313**	Norway	0.8739	UAE	0.9537
Canada	0.8077	Ireland	0.9084	Oman	0.9133	Uganda	1.0000
Chad	1.0000**	Israel	0.9540	Pakistan	0.9904	UK	0.9188
Chile	0.9847**	Italy	0.9457	Panama	0.9979**	Ukraine	0.0000
China	0.9918	Japan	0.9807	Papua N.G.	0.9999**	Uruguay	0.9932**
Colombia	0.9478**	Jordan	0.9943	Paraguay	0.9998**	USA	0.8170
Congo	1.0000**	Kazakhstan	0.9939	Peru	0.9995	Uzbekistan	0.0000
Cote d'Ivoire	0.9998**	Kenya	0.9771**	Philippines	0.9999**	Venezuela	0.9994**
Croatia	0.9913	Kuwait	0.9911	Poland	0.9617	Vietnam	0.9923**
Czech Rep.	0.7861	Kyrgyzstan	0.0000	Portugal	0.9458	Yemen	0.9977
D.R. Congo	1.0000**	Laos	0.9923**	Romania	0.9081	Zambia	0.9994
Denmark	0.9333	Latvia	0.9630	Russia	0.3212	Zimbabwe	0.9884**

\* denotes estimated values

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.9061	Min	0.0000	Std. Deviation	0.2164	5 Percentile	0.3313
Missing	0	Median	0.9857	Max	1.0000			95 Percentile	1.0000



**Indicator: HIV/AIDS prevalence****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Health**Tertiary indicator:** Pressure**Explanation:** Prevalence of HIV refers to the percentage of people ages 15-49 who are infected with HIV.**Sources:** World Bank (<http://data.worldbank.org/indicator/SH.DYN.AIDS.ZS>)**Period:** 1990-2011**Units:** percent of population aged 15-49**Most recent data**

Albania	-	Ecuador	0.4000	Lebanon	0.1000	Rwanda	2.9000
Algeria	-	Egypt	0.1000	Lithuania	0.1000	Saudi Arabia	-
Angola	2.1000	El Salvador	0.6000	Macedonia, FYR	-	Senegal	0.7000
Argentina	0.4000	Estonia	1.3000	Madagascar	0.3000	Sierra Leone	1.6000
Armenia	0.2000	Ethiopia	1.4000	Malawi	10.0000	Slovakia	0.1000
Australia	0.2000	Finland	0.1000	Malaysia	0.4000	Slovenia	0.1000
Austria	0.4000	France	0.4000	Mali	1.1000	South Africa	17.3000
Azerbaijan	0.1000	Gabon	5.0000	Mauritania	1.1000	South Korea	0.1000
Bangladesh	0.1000	Gambia	1.5000	Mexico	0.3000	Spain	0.4000
Belarus	0.4000	Georgia	0.2000	Moldova	0.5000	Sri Lanka	0.1000
Belgium	0.3000	Germany	0.2000	Mongolia	0.1000	Sudan	0.4000
Benin	1.2000	Ghana	1.5000	Morocco	0.2000	Sweden	0.2000
Bolivia	0.3000	Greece	0.2000	Mozambique	11.3000	Switzerland	0.4000
Botswana	23.4000	Guatemala	0.8000	Namibia	13.4000	Syria	-
Brazil	0.3000	Guinea	1.4000	Nepal	0.3000	Tajikistan	0.3000
Bulgaria	0.1000	Guinea Bis.	2.5000	Netherlands	0.2000	Tanzania	5.8000
Burkina Faso	1.1000	Honduras	-	New Zealand	0.1000	Thailand	1.2000
Burundi	1.3000	Hungary	0.1000	Nicaragua	0.2000	Togo	3.4000
C. African R.	4.6000	India	-	Niger	0.8000	Tunisia	0.1000
Cambodia	0.6000	Indonesia	0.3000	Nigeria	3.7000	Turkey	0.1000
Cameroon	4.6000	Iran	0.2000	Norway	0.2000	UAE	-
Canada	0.3000	Ireland	0.3000	Oman	-	Uganda	7.2000
Chad	3.1000	Israel	0.2000	Pakistan	0.1000	UK	0.3000
Chile	0.5000	Italy	0.4000	Panama	0.8000	Ukraine	0.8000
China	0.1000	Japan	0.1000	Papua N.G.	0.7000	Uruguay	0.6000
Colombia	0.5000	Jordan	-	Paraguay	0.3000	USA	0.7000
Congo	3.3000	Kazakhstan	0.2000	Peru	0.4000	Uzbekistan	-
Cote d'Ivoire	3.0000	Kenya	6.2000	Philippines	0.1000	Venezuela	0.6000
Croatia	0.1000	Kuwait	-	Poland	0.1000	Vietnam	0.5000
Czech Rep.	0.1000	Kyrgyzstan	0.4000	Portugal	0.7000	Yemen	0.2000
D.R. Congo	-	Laos	0.3000	Romania	0.1000	Zambia	12.5000
Denmark	0.2000	Latvia	0.7000	Russia	-	Zimbabwe	14.9000

**Descriptive Statistics - based on most recent data**

Available	114	Mean	1.7640	Min	0.1000	Std. Deviation	3.7333	5 Percentile	0.1000
Missing	14	Median	0.4000	Max	23.4000			95 Percentile	10.4550

## Normalization

Type SB (smaller is better)

Parameters

T=0.0000

U=1.8000

Comments

T=minimum possible

U=twice the upper bound of 0.9% provided by the Joint Nations Programme on HIV/AIDS on the average HIV prevalence rate

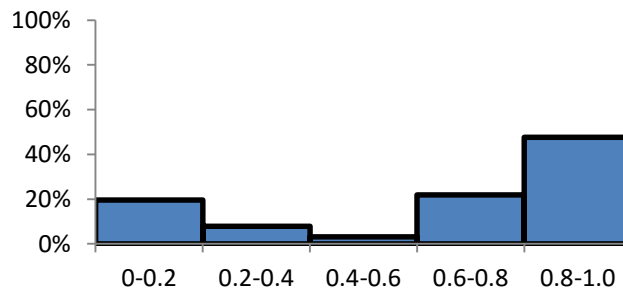
## Smoothed data

Albania	0.3333**	Ecuador	0.7778	Lebanon	0.9444	Rwanda	0.0000
Algeria	0.9259**	Egypt	0.9444	Lithuania	0.9444	Saudi Arabia	0.8889**
Angola	0.0000	El Salvador	0.6667	Macedonia, FYR	0.9444**	Senegal	0.6111
Argentina	0.7778	Estonia	0.2778	Madagascar	0.8333	Sierra Leone	0.1111
Armenia	0.8889	Ethiopia	0.2222	Malawi	0.0000	Slovakia	0.9444
Australia	0.8889	Finland	0.9444	Malaysia	0.7778	Slovenia	0.9444
Austria	0.7778	France	0.7778	Mali	0.3889	South Africa	0.0000
Azerbaijan	0.9444	Gabon	0.0000	Mauritania	0.3889	South Korea	0.9444
Bangladesh	0.9444	Gambia	0.1667	Mexico	0.8333	Spain	0.7778
Belarus	0.7778	Georgia	0.8889	Moldova	0.7222	Sri Lanka	0.9444
Belgium	0.8333	Germany	0.8889	Mongolia	0.9444	Sudan	0.7778
Benin	0.3333	Ghana	0.1667	Morocco	0.8889	Sweden	0.8889
Bolivia	0.8333	Greece	0.8889	Mozambique	0.0000	Switzerland	0.7778
Botswana	0.0000	Guatemala	0.5556	Namibia	0.0000	Syria	0.9444**
Brazil	0.8333	Guinea	0.2222	Nepal	0.8333	Tajikistan	0.8333
Bulgaria	0.9444	Guinea Bis.	0.0000	Netherlands	0.8889	Tanzania	0.0000
Burkina Faso	0.3889	Honduras	0.8889**	New Zealand	0.9444	Thailand	0.3333
Burundi	0.2778	Hungary	0.9444	Nicaragua	0.8889	Togo	0.0000
C. African R.	0.0000	India	0.9444**	Niger	0.5556	Tunisia	0.9444
Cambodia	0.6667	Indonesia	0.8333	Nigeria	0.0000	Turkey	0.9444
Cameroon	0.0000	Iran	0.8889	Norway	0.8889	UAE	0.7222**
Canada	0.8333	Ireland	0.8333	Oman	0.7778**	Uganda	0.0000
Chad	0.0000	Israel	0.8889	Pakistan	0.9444	UK	0.8333
Chile	0.7222	Italy	0.7778	Panama	0.5556	Ukraine	0.5556
China	0.9444	Japan	0.9444	Papua N.G.	0.6111	Uruguay	0.6667
Colombia	0.7222	Jordan	0.9167**	Paraguay	0.8333	USA	0.6111
Congo	0.0000	Kazakhstan	0.8889	Peru	0.7778	Uzbekistan	0.8333**
Cote d'Ivoire	0.0000	Kenya	0.0000	Philippines	0.9444	Venezuela	0.6667
Croatia	0.9444	Kuwait	0.9444**	Poland	0.9444	Vietnam	0.7222
Czech Rep.	0.9444	Kyrgyzstan	0.7778	Portugal	0.6111	Yemen	0.8889
D.R. Congo	0.0000**	Laos	0.8333	Romania	0.9444	Zambia	0.0000
Denmark	0.8889	Latvia	0.6111	Russia	0.7778**	Zimbabwe	0.0000

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.6338	Min	0.0000	Std. Deviation	0.3491	5 Percentile	0.0000
Missing	0	Median	0.7778	Max	0.9444			95 Percentile	0.9444



**Indicator: Hospital beds****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Health**Tertiary indicator:** Response**Explanation:** Hospital beds include inpatient beds available in public, private, general, and specialized hospitals and rehabilitation centers. In most cases beds for both acute and chronic care are included.**Sources:** World Bank (<http://data.worldbank.org/indicator/SH.MED.BEDS.ZS>)**Period:** 1990-2011**Units:** number of beds per thousand people**Most recent data**

Albania	2.4300	Ecuador	1.6000	Lebanon	3.5000	Rwanda	1.6000
Algeria	1.7000	Egypt	1.7000	Lithuania	6.7500	Saudi Arabia	2.2000
Angola	0.8000	El Salvador	1.0000	Macedonia, FYR	4.5900	Senegal	0.3365
Argentina	4.5000	Estonia	5.3300	Madagascar	0.2000	Sierra Leone	0.4000
Armenia	3.9500	Ethiopia	6.3000	Malawi	1.3000	Slovakia	6.4200
Australia	3.8600	Finland	5.8500	Malaysia	1.7900	Slovenia	4.5700
Austria	7.6300	France	6.6400	Mali	0.1000	South Africa	2.8400
Azerbaijan	4.5500	Gabon	6.3000	Mauritania	0.4000	South Korea	10.2500
Bangladesh	0.5800	Gambia	1.1000	Mexico	1.7000	Spain	3.1600
Belarus	11.1400	Georgia	2.9100	Moldova	6.1900	Sri Lanka	3.1000
Belgium	6.5300	Germany	8.2500	Mongolia	6.7500	Sudan	0.7000
Benin	0.5000	Ghana	0.9000	Morocco	1.1000	Sweden	2.7300
Bolivia	1.1000	Greece	4.8500	Mozambique	0.7000	Switzerland	4.9700
Botswana	1.8000	Guatemala	0.7000	Namibia	2.6656	Syria	1.5000
Brazil	2.3000	Guinea	0.3000	Nepal	5.0000	Tajikistan	5.4600
Bulgaria	6.5000	Guinea Bis.	0.9621	Netherlands	4.6600	Tanzania	0.7000
Burkina Faso	0.4000	Honduras	0.7000	New Zealand	2.3300	Thailand	2.1000
Burundi	1.9000	Hungary	7.1800	Nicaragua	1.1000	Togo	0.7000
C. African R.	1.0000	India	0.9000	Niger	0.3148	Tunisia	2.1000
Cambodia	0.7200	Indonesia	0.6000	Nigeria	0.5300	Turkey	2.5000
Cameroon	1.3000	Iran	1.7000	Norway	3.3000	UAE	1.9000
Canada	3.2000	Ireland	3.1500	Oman	1.8000	Uganda	0.5000
Chad	0.4260	Israel	3.3700	Pakistan	0.6000	UK	2.9800
Chile	2.0000	Italy	3.5300	Panama	2.4000	Ukraine	8.6600
China	3.8100	Japan	13.6500	Papua N.G.	4.0242	Uruguay	3.0000
Colombia	1.4000	Jordan	1.8000	Paraguay	1.3000	USA	3.0000
Congo	1.6000	Kazakhstan	7.6100	Peru	1.5000	Uzbekistan	4.4900
Cote d'Ivoire	0.4000	Kenya	1.4000	Philippines	1.0000	Venezuela	0.9000
Croatia	5.9800	Kuwait	2.0000	Poland	6.5900	Vietnam	2.1700
Czech Rep.	7.0100	Kyrgyzstan	4.7900	Portugal	3.3500	Yemen	0.7000
D.R. Congo	0.8000	Laos	0.7200	Romania	6.2900	Zambia	2.0000
Denmark	3.5000	Latvia	5.3200	Russia	9.6600	Zimbabwe	1.7000

**Descriptive Statistics - based on most recent data**

Available	128	Mean	3.0644	Min	0.1000	Std. Deviation	2.6176	5 Percentile	0.4000
Missing	0	Median	2.1350	Max	13.6500			95 Percentile	7.6230

## Normalization

Type *LB (larger is better)*

Parameters  $u=0.1000$   $\tau=3.1767$

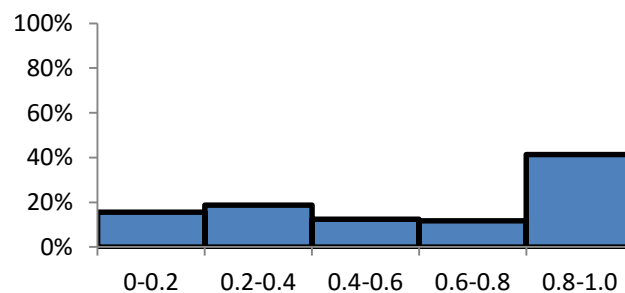
Comments  $u=\min$   $r=\text{average of Scandinavian countries}$

## Smoothed data

Albania	0.7611	Ecuador	0.4792	Lebanon	0.9996	Rwanda	0.4999
Algeria	0.5200	Egypt	0.5200	Lithuania	1.0000	Saudi Arabia	0.6852
Angola	0.2275	El Salvador	0.2781	Macedonia, FYR	1.0000	Senegal	0.0624
Argentina	1.0000	Estonia	1.0000	Madagascar	0.0325	Sierra Leone	0.0975
Armenia	1.0000	Ethiopia	0.2274	Malawi	0.3900	Slovakia	1.0000
Australia	1.0000	Finland	1.0000	Malaysia	0.5506	Slovenia	1.0000
Austria	1.0000	France	1.0000	Mali	0.0657	South Africa	0.8906
Azerbaijan	1.0000	Gabon	0.7481	Mauritania	0.0975	South Korea	1.0000
Bangladesh	0.1027	Gambia	0.3252	Mexico	0.5200	Spain	0.9946
Belarus	1.0000	Georgia	0.9133	Moldova	1.0000	Sri Lanka	0.9751
Belgium	1.0000	Germany	1.0000	Mongolia	1.0000	Sudan	0.1982
Benin	0.1300	Ghana	0.2644	Morocco	0.3250	Sweden	0.8548
Bolivia	0.3247	Greece	1.0000	Mozambique	0.1950	Switzerland	1.0000
Botswana	0.6080	Guatemala	0.1950	Namibia	0.8339	Syria	0.4488
Brazil	0.7151	Guinea	0.0650	Nepal	0.1143	Tajikistan	1.0000
Bulgaria	1.0000	Guinea Bis.	0.2797	Netherlands	1.0000	Tanzania	0.2694
Burkina Faso	0.1165	Honduras	0.2214	New Zealand	0.7250	Thailand	0.6501
Burundi	0.5850	Hungary	1.0000	Nicaragua	0.3102	Togo	0.1950
C. African R.	0.3005	India	0.2338	Niger	0.0243	Tunisia	0.6178
Cambodia	0.2027	Indonesia	0.1625	Nigeria	0.1398	Turkey	0.7885
Cameroon	0.3900	Iran	0.4785	Norway	1.0000	UAE	0.5814
Canada	1.0000	Ireland	0.9913	Oman	0.5525	Uganda	0.2172
Chad	0.1060	Israel	1.0000	Pakistan	0.2044	UK	0.9361
Chile	0.6176	Italy	1.0000	Panama	0.7197	Ukraine	1.0000
China	0.9750	Japan	1.0000	Papua N.G.	1.0000	Uruguay	0.7929
Colombia	0.3573	Jordan	0.5427	Paraguay	0.3814	USA	0.9426
Congo	0.4875	Kazakhstan	1.0000	Peru	0.4155	Uzbekistan	1.0000
Cote d'Ivoire	0.0975	Kenya	0.4711	Philippines	0.2922	Venezuela	0.2603
Croatia	1.0000	Kuwait	0.6005	Poland	1.0000	Vietnam	0.7749
Czech Rep.	1.0000	Kyrgyzstan	1.0000	Portugal	1.0000	Yemen	0.1950
D.R. Congo	0.2275	Laos	0.2557	Romania	1.0000	Zambia	0.6068
Denmark	1.0000	Latvia	1.0000	Russia	1.0000	Zimbabwe	0.5320

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.6255	Min	0.0243	Std. Deviation	0.3489	5 Percentile	0.0975
Missing	0	Median	0.6177	Max	1.0000			95 Percentile	1.0000



## Indicator: ICT expenditure

Primary indicator: Human Sustainability (HUMS)

Secondary indicator: Knowledge

Tertiary indicator: Response

Explanation: Information and communications technology expenditures include computer hardware (computers, storage devices, printers, and other peripherals); computer software (operating systems, programming tools, utilities, applications, and internal software development); computer services (information technology consulting, computer and network systems integration, web hosting, data processing services, and other services); communications services (voice and data communications services); and wired and wireless communications equipment.

Sources: World Bank (2007)

Period: 1990-2011

Units: percent of GDP

### Most recent data

Albania	0.0000*	Ecuador	3.6558	Lebanon	0.0000*	Rwanda	0.0000*
Algeria	3.0000*	Egypt	1.2183	Lithuania	7.3000*	Saudi Arabia	2.5051
Angola	0.0000*	El Salvador	0.0000*	Macedonia, FYR	0.0000*	Senegal	7.4488
Argentina	5.6780	Estonia	9.7000*	Madagascar	0.0000*	Sierra Leone	0.0000*
Armenia	0.0000*	Ethiopia	0.0000*	Malawi	0.0000*	Slovakia	5.2920
Australia	5.9370	Finland	6.8818	Malaysia	6.9080	Slovenia	5.8000*
Austria	5.3179	France	5.8704	Mali	0.0000*	South Africa	8.0407
Azerbaijan	0.0000*	Gabon	0.0000*	Mauritania	0.0000*	South Korea	6.6673
Bangladesh	2.6536	Gambia	0.0000*	Mexico	3.1212	Spain	3.7861
Belarus	0.0000*	Georgia	0.0000*	Moldova	0.0000*	Sri Lanka	5.7327
Belgium	5.5029	Germany	5.6572	Mongolia	0.0000*	Sudan	0.0000*
Benin	0.0000*	Ghana	0.0000*	Morocco	5.6165	Sweden	7.0215
Bolivia	5.8094	Greece	4.2618	Mozambique	0.0000*	Switzerland	7.2318
Botswana	0.0000*	Guatemala	0.0000*	Namibia	0.0000*	Syria	0.0000*
Brazil	6.9101	Guinea	0.0000*	Nepal	0.0000*	Tajikistan	0.0000*
Bulgaria	3.9254	Guinea Bis.	0.0000*	Netherlands	6.3727	Tanzania	0.0000*
Burkina Faso	0.0000*	Honduras	4.5386	New Zealand	9.9940	Thailand	3.5357
Burundi	0.0000*	Hungary	6.1138	Nicaragua	0.0000*	Togo	0.0000*
C. African R.	0.0000*	India	3.7439	Niger	0.0000*	Tunisia	5.2358
Cambodia	0.0000*	Indonesia	3.3836	Nigeria	3.0000*	Turkey	7.3483
Cameroon	4.8964	Iran	2.2385	Norway	5.1220	UAE	-
Canada	5.8147	Ireland	3.8739	Oman	0.0000*	Uganda	0.0000*
Chad	0.0000*	Israel	7.8757	Pakistan	7.2794	UK	7.3470
Chile	6.6710	Italy	4.1428	Panama	9.1523	Ukraine	7.1296
China	5.2782	Japan	7.3833	Papua N.G.	0.0000*	Uruguay	7.0700
Colombia	9.0041	Jordan	8.8133	Paraguay	0.0000*	USA	8.7900
Congo	0.0000*	Kazakhstan	0.0000*	Peru	6.8694	Uzbekistan	0.0000*
Cote d'Ivoire	0.0000*	Kenya	3.1122	Philippines	5.8124	Venezuela	5.1942
Croatia	-	Kuwait	1.7452	Poland	4.5294	Vietnam	6.0000*
Czech Rep.	6.5513	Kyrgyzstan	0.0000*	Portugal	4.2469	Yemen	0.0000*
D.R. Congo	0.0000*	Laos	0.0000*	Romania	2.8114	Zambia	0.0000
Denmark	5.6547	Latvia	9.9000*	Russia	3.6615	Zimbabwe	4.0000

\* denotes estimated values

### Descriptive Statistics - based on most recent data

Available	126	Mean	3.2198	Min	0.0000	Std. Deviation	3.1841	5 Percentile	0.0000
Missing	2	Median	3.1167	Max	9.9940			95 Percentile	8.6027



## Normalization

Type *LB (larger is better)*

Parameters  $u=0.0000$   $\tau=5.6465$

Comments  $u=\min$   $r=\text{average of EU-14, USA, Canada, Australia, Japan and Norway}$

## Smoothed data

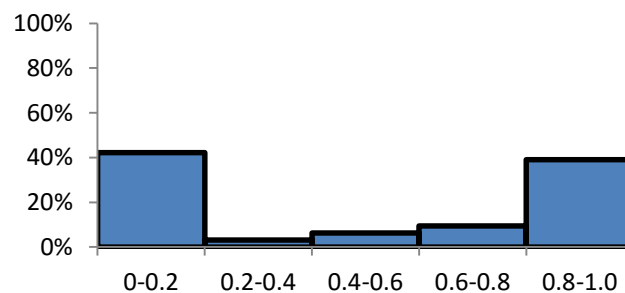
Albania	0.0000*	Ecuador	0.6474	Lebanon	0.0000*	Rwanda	0.0000*
Algeria	0.5313*	Egypt	0.2158	Lithuania	1.0000*	Saudi Arabia	0.4486
Angola	0.0000*	El Salvador	0.0000*	Macedonia, FYR	0.0000*	Senegal	1.0000
Argentina	0.9930	Estonia	1.0000*	Madagascar	0.0000*	Sierra Leone	0.0000*
Armenia	0.0000*	Ethiopia	0.0000*	Malawi	0.0000*	Slovakia	0.9463
Australia	1.0000	Finland	1.0000	Malaysia	1.0000	Slovenia	1.0000*
Austria	0.9418	France	1.0000	Mali	0.0000*	South Africa	1.0000
Azerbaijan	0.0000*	Gabon	0.0000*	Mauritania	0.0000*	South Korea	1.0000
Bangladesh	0.4700	Gambia	0.0000*	Mexico	0.5402	Spain	0.6799
Belarus	0.0000*	Georgia	0.0000*	Moldova	0.0000*	Sri Lanka	1.0000
Belgium	0.9746	Germany	1.0000	Mongolia	0.0000*	Sudan	0.0000*
Benin	0.0000*	Ghana	0.0000*	Morocco	0.9444	Sweden	1.0000
Bolivia	1.0000	Greece	0.7584	Mozambique	0.0000*	Switzerland	1.0000
Botswana	0.0000*	Guatemala	0.0000*	Namibia	0.0000*	Syria	0.0000*
Brazil	1.0000	Guinea	0.0000*	Nepal	0.0000*	Tajikistan	0.0000*
Bulgaria	0.7152	Guinea Bis.	0.0000*	Netherlands	1.0000	Tanzania	0.0000*
Burkina Faso	0.0000*	Honduras	0.8038	New Zealand	1.0000	Thailand	0.6285
Burundi	0.0000*	Hungary	1.0000	Nicaragua	0.0000*	Togo	0.0000*
C. African R.	0.0000*	India	0.6556	Niger	0.0000*	Tunisia	0.9273
Cambodia	0.0000*	Indonesia	0.5992	Nigeria	0.5313*	Turkey	1.0000
Cameroon	0.8671	Iran	0.3964	Norway	0.9071	UAE	0.3227**
Canada	1.0000	Ireland	0.6861	Oman	0.0000*	Uganda	0.0000*
Chad	0.0000*	Israel	1.0000	Pakistan	1.0000	UK	1.0000
Chile	1.0000	Italy	0.7337	Panama	1.0000	Ukraine	1.0000
China	0.9348	Japan	1.0000	Papua N.G.	0.0000*	Uruguay	1.0000
Colombia	1.0000	Jordan	1.0000	Paraguay	0.0000*	USA	1.0000
Congo	0.0000*	Kazakhstan	0.0000*	Peru	1.0000	Uzbekistan	0.0000*
Cote d'Ivoire	0.0000*	Kenya	0.5512	Philippines	1.0000	Venezuela	0.9199
Croatia	0.8710**	Kuwait	0.3227	Poland	0.7958	Vietnam	1.0000*
Czech Rep.	1.0000	Kyrgyzstan	0.0000*	Portugal	0.7530	Yemen	0.0000*
D.R. Congo	0.0000*	Laos	0.0000*	Romania	0.5027	Zambia	0.0000
Denmark	1.0000	Latvia	1.0000*	Russia	0.6516	Zimbabwe	0.7781

\* denotes estimated values

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.4918	Min	0.0000	Std. Deviation	0.4512	5 Percentile	0.0000
Missing	0	Median	0.5457	Max	1.0000			95 Percentile	1.0000



## Indicator: Immunization against DPT

**Primary indicator:** Human Sustainability (HUMS)

**Secondary indicator:** Health

**Tertiary indicator:** State

**Explanation:** Child immunization measures the percentage of children ages 12-23 months who received vaccinations before 12 months or at any time before the survey. A child is considered adequately immunized against diphtheria, pertussis (or whooping cough), and tetanus (DPT) after receiving three doses of vaccine.

**Sources:** World Bank (<http://data.worldbank.org/indicator/SH.IMM.IDPT>)

**Period:** 1990-2011

**Units:** percent of infants

### Most recent data

Albania	99.0000	Ecuador	99.0000	Lebanon	81.0000	Rwanda	97.0000
Algeria	95.0000	Egypt	96.0000	Lithuania	92.0000	Saudi Arabia	98.0000
Angola	86.0000	El Salvador	89.0000	Macedonia, FYR	95.0000	Senegal	83.0000
Argentina	93.0000	Estonia	93.0000	Madagascar	89.0000	Sierra Leone	84.0000
Armenia	95.0000	Ethiopia	51.0000	Malawi	97.0000	Slovakia	99.0000
Australia	92.0000	Finland	99.0000	Malaysia	99.0000	Slovenia	96.0000
Austria	83.0000	France	99.0000	Mali	72.0000	South Africa	72.0000
Azerbaijan	74.0000	Gabon	45.0000	Mauritania	75.0000	South Korea	99.0000
Bangladesh	96.0000	Gambia	96.0000	Mexico	97.0000	Spain	97.0000
Belarus	98.0000	Georgia	94.0000	Moldova	93.0000	Sri Lanka	99.0000
Belgium	98.0000	Germany	99.0000	Mongolia	99.0000	Sudan	93.0000
Benin	85.0000	Ghana	91.0000	Morocco	99.0000	Sweden	98.0000
Bolivia	82.0000	Greece	99.0000	Mozambique	76.0000	Switzerland	95.0000
Botswana	96.0000	Guatemala	85.0000	Namibia	82.0000	Syria	72.0000
Brazil	96.0000	Guinea	59.0000	Nepal	92.0000	Tajikistan	96.0000
Bulgaria	95.0000	Guinea Bis.	76.0000	Netherlands	97.0000	Tanzania	90.0000
Burkina Faso	91.0000	Honduras	98.0000	New Zealand	95.0000	Thailand	99.0000
Burundi	96.0000	Hungary	99.0000	Nicaragua	98.0000	Togo	81.0000
C. African R.	54.0000	India	72.0000	Niger	75.0000	Tunisia	98.0000
Cambodia	94.0000	Indonesia	63.0000	Nigeria	47.0000	Turkey	97.0000
Cameroon	66.0000	Iran	99.0000	Norway	94.0000	UAE	94.0000
Canada	95.0000	Ireland	95.0000	Oman	99.0000	Uganda	82.0000
Chad	22.0000	Israel	94.0000	Pakistan	80.0000	UK	95.0000
Chile	94.0000	Italy	96.0000	Panama	87.0000	Ukraine	50.0000
China	99.0000	Japan	98.0000	Papua N.G.	61.0000	Uruguay	95.0000
Colombia	85.0000	Jordan	98.0000	Paraguay	90.0000	USA	94.0000
Congo	90.0000	Kazakhstan	99.0000	Peru	91.0000	Uzbekistan	99.0000
Cote d'Ivoire	62.0000	Kenya	88.0000	Philippines	80.0000	Venezuela	78.0000
Croatia	96.0000	Kuwait	99.0000	Poland	99.0000	Vietnam	95.0000
Czech Rep.	99.0000	Kyrgyzstan	96.0000	Portugal	98.0000	Yemen	81.0000
D.R. Congo	70.0000	Laos	78.0000	Romania	89.0000	Zambia	81.0000
Denmark	91.0000	Latvia	94.0000	Russia	97.0000	Zimbabwe	99.0000

### Descriptive Statistics - based on most recent data

Available	128	Mean	88.3125	Min	22.0000	Std. Deviation	13.7976	5 Percentile	59.7000
Missing	0	Median	94.0000	Max	99.0000			95 Percentile	99.0000

## Normalization

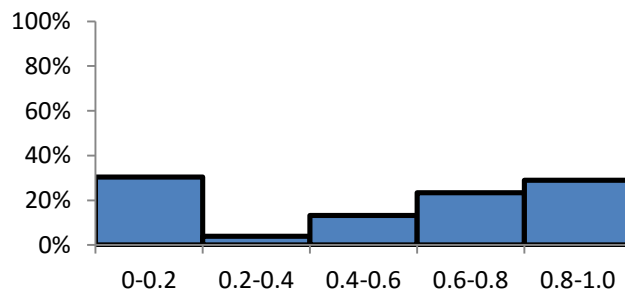
Type *LB (larger is better)* Parameters  $u=83.0000$   $\tau=100.0000$   
 Comments  $u=\text{minimum of EU-14}$   $r=\text{maximum possible}$

## Smoothed data

Albania	0.9334	Ecuador	0.9412	Lebanon	0.0000	Rwanda	0.8221
Algeria	0.7059	Egypt	0.7647	Lithuania	0.5294	Saudi Arabia	0.8823
Angola	0.1765	El Salvador	0.3998	Macedonia, FYR	0.7108	Senegal	0.0289
Argentina	0.5666	Estonia	0.5882	Madagascar	0.3529	Sierra Leone	0.0588
Armenia	0.6070	Ethiopia	0.0000	Malawi	0.5687	Slovakia	0.9412
Australia	0.5294	Finland	0.9412	Malaysia	0.7038	Slovenia	0.7647
Austria	0.0004	France	0.9400	Mali	0.0000	South Africa	0.0000
Azerbaijan	0.0000	Gabon	0.0000	Mauritania	0.0000	South Korea	0.9412
Bangladesh	0.7647	Gambia	0.7647	Mexico	0.7908	Spain	0.8234
Belarus	0.8183	Georgia	0.5628	Moldova	0.5882	Sri Lanka	0.9327
Belgium	0.8824	Germany	0.9412	Mongolia	0.9412	Sudan	0.5762
Benin	0.1176	Ghana	0.5061	Morocco	0.9411	Sweden	0.8824
Bolivia	0.0321	Greece	0.9412	Mozambique	0.0000	Switzerland	0.7076
Botswana	0.7647	Guatemala	0.3510	Namibia	0.0000	Syria	0.0000
Brazil	0.7647	Guinea	0.0000	Nepal	0.1979	Tajikistan	0.7612
Bulgaria	0.6842	Guinea Bis.	0.0000	Netherlands	0.8262	Tanzania	0.4140
Burkina Faso	0.4706	Honduras	0.8751	New Zealand	0.7059	Thailand	0.9412
Burundi	0.7646	Hungary	0.9412	Nicaragua	0.8824	Togo	0.0027
C. African R.	0.0000	India	0.0000	Niger	0.0000	Tunisia	0.8860
Cambodia	0.6471	Indonesia	0.0000	Nigeria	0.0000	Turkey	0.8230
Cameroon	0.0000	Iran	0.9400	Norway	0.6471	UAE	0.6471
Canada	0.6969	Ireland	0.7059	Oman	0.9299	Uganda	0.0000
Chad	0.0000	Israel	0.7132	Pakistan	0.0080	UK	0.7059
Chile	0.6330	Italy	0.7650	Panama	0.2743	Ukraine	0.0000
China	0.9412	Japan	0.8821	Papua N.G.	0.0000	Uruguay	0.7028
Colombia	0.1399	Jordan	0.8341	Paraguay	0.4118	USA	0.6471
Congo	0.4118	Kazakhstan	0.9183	Peru	0.4758	Uzbekistan	0.9412
Cote d'Ivoire	0.0053	Kenya	0.2941	Philippines	0.0023	Venezuela	0.0265
Croatia	0.7647	Kuwait	0.9412	Poland	0.9412	Vietnam	0.6461
Czech Rep.	0.9411	Kyrgyzstan	0.7647	Portugal	0.8430	Yemen	0.0495
D.R. Congo	0.0000	Laos	0.0000	Romania	0.5199	Zambia	0.1152
Denmark	0.4648	Latvia	0.5939	Russia	0.8235	Zimbabwe	0.9412

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.5177	Min	0.0000	Std. Deviation	0.3621	5 Percentile	0.0000
Missing	0	Median	0.6466	Max	0.9412			95 Percentile	0.9412



**Indicator: Immunization against measles****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Health**Tertiary indicator:** State**Explanation:** Child immunization measures the percentage of children ages 12-23 months who received vaccinations before 12 months or at any time before the survey. A child is considered adequately immunized against measles after receiving one dose of vaccine.**Sources:** World Bank (<http://data.worldbank.org/indicator/SH.IMM.MEAS>)**Period:** 1990-2011**Units:** percent of infants**Most recent data**

Albania	99.0000	Ecuador	98.0000	Lebanon	79.0000	Rwanda	95.0000
Algeria	95.0000	Egypt	96.0000	Lithuania	94.0000	Saudi Arabia	98.0000
Angola	88.0000	El Salvador	89.0000	Macedonia, FYR	98.0000	Senegal	82.0000
Argentina	93.0000	Estonia	94.0000	Madagascar	70.0000	Sierra Leone	80.0000
Armenia	97.0000	Ethiopia	57.0000	Malawi	96.0000	Slovakia	98.0000
Australia	94.0000	Finland	97.0000	Malaysia	95.0000	Slovenia	95.0000
Austria	76.0000	France	89.0000	Mali	56.0000	South Africa	78.0000
Azerbaijan	67.0000	Gabon	55.0000	Mauritania	67.0000	South Korea	99.0000
Bangladesh	96.0000	Gambia	91.0000	Mexico	98.0000	Spain	95.0000
Belarus	99.0000	Georgia	94.0000	Moldova	91.0000	Sri Lanka	99.0000
Belgium	95.0000	Germany	99.0000	Mongolia	98.0000	Sudan	87.0000
Benin	72.0000	Ghana	91.0000	Morocco	95.0000	Sweden	96.0000
Bolivia	84.0000	Greece	99.0000	Mozambique	82.0000	Switzerland	92.0000
Botswana	94.0000	Guatemala	87.0000	Namibia	74.0000	Syria	80.0000
Brazil	97.0000	Guinea	58.0000	Nepal	88.0000	Tajikistan	98.0000
Bulgaria	95.0000	Guinea Bis.	61.0000	Netherlands	96.0000	Tanzania	93.0000
Burkina Faso	63.0000	Honduras	99.0000	New Zealand	93.0000	Thailand	98.0000
Burundi	92.0000	Hungary	99.0000	Nicaragua	99.0000	Togo	67.0000
C. African R.	62.0000	India	74.0000	Niger	76.0000	Tunisia	96.0000
Cambodia	93.0000	Indonesia	89.0000	Nigeria	71.0000	Turkey	97.0000
Cameroon	76.0000	Iran	99.0000	Norway	93.0000	UAE	94.0000
Canada	98.0000	Ireland	92.0000	Oman	99.0000	Uganda	75.0000
Chad	28.0000	Israel	98.0000	Pakistan	80.0000	UK	90.0000
Chile	91.0000	Italy	90.0000	Panama	97.0000	Ukraine	67.0000
China	99.0000	Japan	94.0000	Papua N.G.	60.0000	Uruguay	95.0000
Colombia	88.0000	Jordan	98.0000	Paraguay	93.0000	USA	90.0000
Congo	90.0000	Kazakhstan	99.0000	Peru	96.0000	Uzbekistan	99.0000
Cote d'Ivoire	49.0000	Kenya	87.0000	Philippines	79.0000	Venezuela	86.0000
Croatia	96.0000	Kuwait	99.0000	Poland	98.0000	Vietnam	96.0000
Czech Rep.	98.0000	Kyrgyzstan	97.0000	Portugal	96.0000	Yemen	71.0000
D.R. Congo	71.0000	Laos	69.0000	Romania	93.0000	Zambia	83.0000
Denmark	87.0000	Latvia	99.0000	Russia	98.0000	Zimbabwe	92.0000

**Descriptive Statistics - based on most recent data**

Available	128	Mean	87.6406	Min	28.0000	Std. Deviation	13.3049	5 Percentile	60.3500
Missing	0	Median	93.0000	Max	99.0000			95 Percentile	99.0000

## Normalization

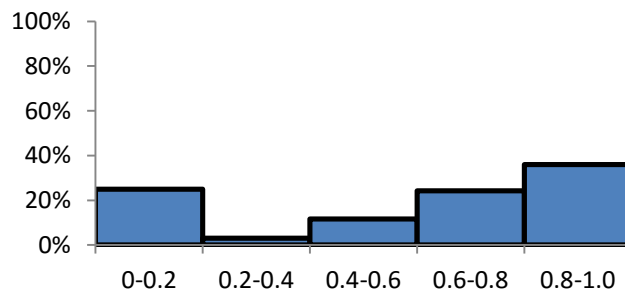
Type *LB (larger is better)* Parameters  $u=76.0000$   $\tau=100.0000$   
 Comments  $u=\text{minimum of EU-14}$   $r=\text{maximum possible}$

## Smoothed data

Albania	0.9329	Ecuador	0.9167	Lebanon	0.1250	Rwanda	0.7883
Algeria	0.7905	Egypt	0.8309	Lithuania	0.7500	Saudi Arabia	0.9086
Angola	0.4201	El Salvador	0.5675	Macedonia, FYR	0.8433	Senegal	0.1949
Argentina	0.8314	Estonia	0.7500	Madagascar	0.0095	Sierra Leone	0.1667
Armenia	0.8438	Ethiopia	0.0000	Malawi	0.8167	Slovakia	0.9206
Australia	0.7500	Finland	0.8801	Malaysia	0.7917	Slovenia	0.7926
Austria	0.0928	France	0.5417	Mali	0.0000	South Africa	0.0687
Azerbaijan	0.0000	Gabon	0.0000	Mauritania	0.0095	South Korea	0.9583
Bangladesh	0.8333	Gambia	0.6310	Mexico	0.8715	Spain	0.7917
Belarus	0.9575	Georgia	0.7425	Moldova	0.6539	Sri Lanka	0.9583
Belgium	0.7819	Germany	0.9583	Mongolia	0.9140	Sudan	0.4583
Benin	0.0000	Ghana	0.6414	Morocco	0.7917	Sweden	0.8333
Bolivia	0.3264	Greece	0.9583	Mozambique	0.2500	Switzerland	0.6667
Botswana	0.7500	Guatemala	0.5352	Namibia	0.0000	Syria	0.2057
Brazil	0.9120	Guinea	0.0000	Nepal	0.4549	Tajikistan	0.9167
Bulgaria	0.7917	Guinea Bis.	0.0000	Netherlands	0.8322	Tanzania	0.7083
Burkina Faso	0.0000	Honduras	0.9556	New Zealand	0.6217	Thailand	0.9167
Burundi	0.6667	Hungary	0.9583	Nicaragua	0.9555	Togo	0.0038
C. African R.	0.0000	India	0.0000	Niger	0.0000	Tunisia	0.8610
Cambodia	0.7083	Indonesia	0.5417	Nigeria	0.0000	Turkey	0.8750
Cameroon	0.0316	Iran	0.9569	Norway	0.7083	UAE	0.7500
Canada	0.9167	Ireland	0.6667	Oman	0.9583	Uganda	0.0019
Chad	0.0000	Israel	0.9163	Pakistan	0.1634	UK	0.5833
Chile	0.7003	Italy	0.5833	Panama	0.8722	Ukraine	0.0000
China	0.9583	Japan	0.7500	Papua N.G.	0.0000	Uruguay	0.7861
Colombia	0.5521	Jordan	0.8739	Paraguay	0.7027	USA	0.5833
Congo	0.5640	Kazakhstan	0.9583	Peru	0.7885	Uzbekistan	0.9517
Cote d'Ivoire	0.0189	Kenya	0.4469	Philippines	0.1250	Venezuela	0.3422
Croatia	0.8324	Kuwait	0.9583	Poland	0.9167	Vietnam	0.8473
Czech Rep.	0.9162	Kyrgyzstan	0.9090	Portugal	0.8333	Yemen	0.0000
D.R. Congo	0.0000	Laos	0.0000	Romania	0.7208	Zambia	0.4545
Denmark	0.4441	Latvia	0.9509	Russia	0.9167	Zimbabwe	0.6667

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.5786	Min	0.0000	Std. Deviation	0.3542	5 Percentile	0.0000
Missing	0	Median	0.7146	Max	0.9583			95 Percentile	0.9583



## Indicator: Imports

**Primary indicator:** Human Sustainability (HUMS)

**Secondary indicator:** Wealth

**Tertiary indicator:** Pressure

**Explanation:** Imports of goods and services represent the value of all goods and other market services received from the rest of the world. They include the value of merchandise, freight, insurance, transport, travel, royalties, license fees, and other services, such as communication, construction, financial, information, business, personal, and government services. They exclude compensation of employees and investment income (formerly called factor services) and transfer payments.

**Sources:** World Bank (<http://data.worldbank.org/indicator/NE.IMP.GNFS.ZS>)

**Period:** 1990-2011

**Units:** percent of GDP

## Most recent data

Albania	56.0000	Ecuador	38.6185	Lebanon	50.4313	Rwanda	32.4949
Algeria	21.4967	Egypt	30.1646	Lithuania	79.2691	Saudi Arabia	30.6372
Angola	43.3070	El Salvador	47.3100	Macedonia, FYR	74.0934	Senegal	44.2412
Argentina	19.5315	Estonia	87.5660	Madagascar	37.1118	Sierra Leone	54.4977
Armenia	48.0888	Ethiopia	31.8161	Malawi	39.4971	Slovakia	86.4488
Australia	19.7755	Finland	41.3702	Malaysia	75.6615	Slovenia	71.2518
Austria	53.9699	France	29.7656	Mali	35.6672	South Africa	29.4292
Azerbaijan	24.1606	Gabon	35.7897	Mauritania	59.1697	South Korea	54.1372
Bangladesh	31.6104	Gambia	47.1588	Mexico	33.0009	Spain	31.0575
Belarus	89.9976	Georgia	55.1236	Moldova	86.2247	Sri Lanka	37.6121
Belgium	83.1095	Germany	45.0957	Mongolia	86.8392	Sudan	16.3384
Benin	26.9613	Ghana	51.1486	Morocco	48.0051	Sweden	43.7260
Bolivia	38.4119	Greece	33.1455	Mozambique	45.5388	Switzerland	40.4358
Botswana	44.3318	Guatemala	37.8899	Namibia	52.4097	Syria	35.7554
Brazil	12.6225	Guinea	48.1821	Nepal	32.8019	Tajikistan	58.2526
Bulgaria	65.8362	Guinea Bis.	51.2225	Netherlands	74.0608	Tanzania	50.2150
Burkina Faso	28.5761	Honduras	68.7562	New Zealand	28.6536	Thailand	72.4070
Burundi	33.7905	Hungary	84.9089	Nicaragua	60.4922	Togo	58.4440
C. African R.	23.2617	India	30.3339	Niger	24.2191	Tunisia	55.8488
Cambodia	59.5011	Indonesia	24.9152	Nigeria	35.6227	Turkey	32.6345
Cameroon	34.9568	Iran	21.5382	Norway	28.2944	UAE	68.7600
Canada	32.3929	Ireland	84.2983	Oman	41.4872	Uganda	34.5088
Chad	25.4737	Israel	37.7634	Pakistan	19.2295	UK	34.0737
Chile	34.7238	Italy	30.3220	Panama	84.0835	Ukraine	59.1697
China	27.3047	Japan	16.1396	Papua N.G.	48.1363	Uruguay	27.3418
Colombia	20.1274	Jordan	73.8592	Paraguay	56.9109	USA	17.7590
Congo	34.8094	Kazakhstan	27.7490	Peru	24.7556	Uzbekistan	27.4670
Cote d'Ivoire	40.5639	Kenya	46.0200	Philippines	36.0222	Venezuela	19.6951
Croatia	41.8765	Kuwait	21.0604	Poland	43.4530	Vietnam	91.2309
Czech Rep.	68.5253	Kyrgyzstan	81.6414	Portugal	39.3173	Yemen	34.5874
D.R. Congo	78.0076	Laos	43.8905	Romania	43.4919	Zambia	37.0283
Denmark	48.1869	Latvia	63.1756	Russia	22.2877	Zimbabwe	87.8407

## Descriptive Statistics - based on most recent data

Available	128	Mean	45.3172	Min	12.6225	Std. Deviation	19.9367	5 Percentile	19.7232
Missing	0	Median	40.4999	Max	91.2309			95 Percentile	85.7642

## Normalization

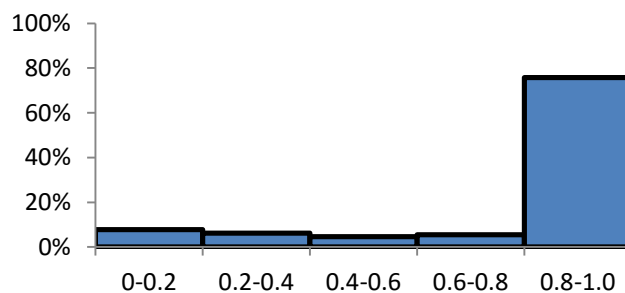
Type *SB (smaller is better)* Parameters *T=47.9642* *U=84.2983*  
 Comments *T=average of EU-14* *U=max of EU-14*

## Smoothed data

Albania	0.8124	Ecuador	1.0000	Lebanon	0.9321	Rwanda	0.9789
Algeria	1.0000	Egypt	1.0000	Lithuania	0.3927	Saudi Arabia	1.0000
Angola	0.9725	El Salvador	0.9974	Macedonia, FYR	0.3891	Senegal	0.9944
Argentina	1.0000	Estonia	0.1712	Madagascar	1.0000	Sierra Leone	0.9793
Armenia	0.9972	Ethiopia	1.0000	Malawi	0.9761	Slovakia	0.0466
Australia	1.0000	Finland	1.0000	Malaysia	0.2371	Slovenia	0.3591
Austria	0.8911	France	1.0000	Mali	0.9971	South Africa	1.0000
Azerbaijan	0.8709	Gabon	0.9992	Mauritania	0.7626	South Korea	0.9213
Bangladesh	1.0000	Gambia	1.0000	Mexico	1.0000	Spain	1.0000
Belarus	0.3863	Georgia	0.8185	Moldova	0.0000	Sri Lanka	0.9979
Belgium	0.1046	Germany	1.0000	Mongolia	0.5174	Sudan	1.0000
Benin	1.0000	Ghana	0.9442	Morocco	0.9963	Sweden	1.0000
Bolivia	1.0000	Greece	1.0000	Mozambique	0.9988	Switzerland	1.0000
Botswana	1.0000	Guatemala	1.0000	Namibia	0.8777	Syria	1.0000
Brazil	1.0000	Guinea	0.9940	Nepal	1.0000	Tajikistan	0.7110
Bulgaria	0.5535	Guinea Bis.	0.8613	Netherlands	0.2853	Tanzania	0.9381
Burkina Faso	1.0000	Honduras	0.4516	New Zealand	1.0000	Thailand	0.4183
Burundi	1.0000	Hungary	0.0000	Nicaragua	0.7633	Togo	0.7116
C. African R.	1.0000	India	1.0000	Niger	1.0000	Tunisia	0.8308
Cambodia	0.6825	Indonesia	1.0000	Nigeria	0.9988	Turkey	1.0000
Cameroon	1.0000	Iran	1.0000	Norway	1.0000	UAE	0.4277
Canada	1.0000	Ireland	0.0000	Oman	0.9976	Uganda	1.0000
Chad	0.9272	Israel	0.9997	Pakistan	1.0000	UK	1.0000
Chile	1.0000	Italy	1.0000	Panama	0.0059	Ukraine	0.8354
China	1.0000	Japan	1.0000	Papua N.G.	0.9953	Uruguay	1.0000
Colombia	1.0000	Jordan	0.2873	Paraguay	0.7538	USA	1.0000
Congo	0.8429	Kazakhstan	1.0000	Peru	1.0000	Uzbekistan	1.0000
Cote d'Ivoire	1.0000	Kenya	1.0000	Philippines	0.9997	Venezuela	1.0000
Croatia	1.0000	Kuwait	1.0000	Poland	1.0000	Vietnam	0.0000
Czech Rep.	0.4341	Kyrgyzstan	0.0731	Portugal	1.0000	Yemen	1.0000
D.R. Congo	0.2004	Laos	1.0000	Romania	1.0000	Zambia	1.0000
Denmark	0.9824	Latvia	0.7945	Russia	0.9999	Zimbabwe	0.0351

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8290	Min	0.0000	Std. Deviation	0.3028	5 Percentile	0.0559
Missing	0	Median	0.9998	Max	1.0000			95 Percentile	1.0000





**Indicator: Infant mortality rate****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Health**Tertiary indicator:** Pressure**Explanation:** Number of infants who die before reaching one year of age, expressed per thousand live births in a given year.**Sources:** World Bank (<http://data.worldbank.org/indicator/SP.DYN.IMRT.IN>)**Period:** 1990-2011**Units:** number of deaths per thousand live births**Most recent data**

Albania	12.8000	Ecuador	19.6000	Lebanon	8.0000	Rwanda	38.1000
Algeria	25.6000	Egypt	18.0000	Lithuania	4.7000	Saudi Arabia	7.9000
Angola	96.4000	El Salvador	13.1000	Macedonia, FYR	8.7000	Senegal	46.7000
Argentina	12.6000	Estonia	2.8000	Madagascar	42.8000	Sierra Leone	119.2000
Armenia	15.6000	Ethiopia	51.5000	Malawi	52.9000	Slovakia	6.5000
Australia	4.1000	Finland	2.3000	Malaysia	5.6000	Slovenia	2.1000
Austria	3.5000	France	3.4000	Mali	98.2000	South Africa	34.6000
Azerbaijan	38.5000	Gabon	49.3000	Mauritania	75.6000	South Korea	4.1000
Bangladesh	36.7000	Gambia	57.6000	Mexico	13.4000	Spain	3.5000
Belarus	3.9000	Georgia	18.3000	Moldova	13.8000	Sri Lanka	10.5000
Belgium	3.5000	Germany	3.3000	Mongolia	25.5000	Sudan	56.6000
Benin	67.9000	Ghana	51.8000	Morocco	28.2000	Sweden	2.2000
Bolivia	39.3000	Greece	3.7000	Mozambique	71.6000	Switzerland	4.0000
Botswana	20.3000	Guatemala	24.2000	Namibia	29.6000	Syria	13.2000
Brazil	13.9000	Guinea	78.9000	Nepal	39.0000	Tajikistan	52.8000
Bulgaria	10.6000	Guinea Bis.	98.0000	Netherlands	3.4000	Tanzania	45.4000
Burkina Faso	81.6000	Honduras	18.2000	New Zealand	4.7000	Thailand	10.6000
Burundi	86.3000	Hungary	5.4000	Nicaragua	21.6000	Togo	72.9000
C. African R.	108.2000	India	47.2000	Niger	66.4000	Tunisia	13.9000
Cambodia	36.2000	Indonesia	24.8000	Nigeria	78.0000	Turkey	11.5000
Cameroon	79.2000	Iran	21.1000	Norway	2.6000	UAE	5.6000
Canada	4.9000	Ireland	3.2000	Oman	7.3000	Uganda	57.9000
Chad	97.1000	Israel	3.5000	Pakistan	59.2000	UK	4.4000
Chile	7.7000	Italy	3.2000	Panama	16.7000	Ukraine	8.7000
China	12.6000	Japan	2.4000	Papua N.G.	44.8000	Uruguay	8.7000
Colombia	15.4000	Jordan	18.0000	Paraguay	19.1000	USA	6.4000
Congo	63.8000	Kazakhstan	25.0000	Peru	14.1000	Uzbekistan	41.5000
Cote d'Ivoire	81.2000	Kenya	48.3000	Philippines	20.2000	Venezuela	12.9000
Croatia	4.4000	Kuwait	9.3000	Poland	4.9000	Vietnam	17.3000
Czech Rep.	3.2000	Kyrgyzstan	27.0000	Portugal	2.7000	Yemen	57.0000
D.R. Congo	110.6000	Laos	33.8000	Romania	10.8000	Zambia	52.7000
Denmark	3.1000	Latvia	7.1000	Russia	9.8000	Zimbabwe	42.8000

**Descriptive Statistics - based on most recent data**

Available	128	Mean	29.4539	Min	2.1000	Std. Deviation	29.1232	5 Percentile	2.9050
Missing	0	Median	17.6500	Max	119.2000			95 Percentile	92.8650

## Normalization

Type *SB (smaller is better)*

Parameters

$T=2.6333$

$U=98.2000$

Comments

$T=$ average of Scandinavian countries

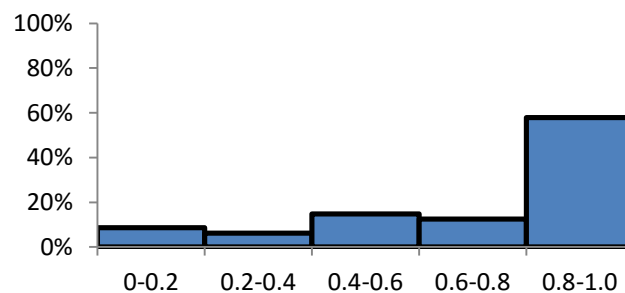
$U=$ max (excluding 2.5% outliers)

## Smoothed data

Albania	0.8936	Ecuador	0.8225	Lebanon	0.9438	Rwanda	0.6289
Algeria	0.7597	Egypt	0.8392	Lithuania	0.9784	Saudi Arabia	0.9449
Angola	0.0188	El Salvador	0.8905	Macedonia, FYR	0.9365	Senegal	0.5389
Argentina	0.8957	Estonia	0.9983	Madagascar	0.5797	Sierra Leone	0.0000
Armenia	0.8643	Ethiopia	0.4887	Malawi	0.4740	Slovakia	0.9595
Australia	0.9847	Finland	1.0000	Malaysia	0.9690	Slovenia	1.0000
Austria	0.9909	France	0.9920	Mali	0.0000	South Africa	0.6655
Azerbaijan	0.6247	Gabon	0.5117	Mauritania	0.2365	South Korea	0.9847
Bangladesh	0.6435	Gambia	0.4248	Mexico	0.8873	Spain	0.9909
Belarus	0.9867	Georgia	0.8361	Moldova	0.8832	Sri Lanka	0.9177
Belgium	0.9909	Germany	0.9930	Mongolia	0.7607	Sudan	0.4353
Benin	0.3171	Ghana	0.4855	Morocco	0.7325	Sweden	1.0000
Bolivia	0.6163	Greece	0.9888	Mozambique	0.2783	Switzerland	0.9857
Botswana	0.8151	Guatemala	0.7743	Namibia	0.7178	Syria	0.8894
Brazil	0.8821	Guinea	0.2020	Nepal	0.6195	Tajikistan	0.4751
Bulgaria	0.9166	Guinea Bis.	0.0021	Netherlands	0.9920	Tanzania	0.5525
Burkina Faso	0.1737	Honduras	0.8371	New Zealand	0.9784	Thailand	0.9166
Burundi	0.1245	Hungary	0.9710	Nicaragua	0.8015	Togo	0.2647
C. African R.	0.0000	India	0.5337	Niger	0.3328	Tunisia	0.8821
Cambodia	0.6488	Indonesia	0.7681	Nigeria	0.2114	Turkey	0.9072
Cameroon	0.1988	Iran	0.8068	Norway	1.0000	UAE	0.9690
Canada	0.9763	Ireland	0.9941	Oman	0.9512	Uganda	0.4217
Chad	0.0115	Israel	0.9909	Pakistan	0.4081	UK	0.9815
Chile	0.9470	Italy	0.9941	Panama	0.8528	Ukraine	0.9365
China	0.8957	Japan	1.0000	Papua N.G.	0.5588	Uruguay	0.9365
Colombia	0.8664	Jordan	0.8392	Paraguay	0.8277	USA	0.9606
Congo	0.3600	Kazakhstan	0.7660	Peru	0.8800	Uzbekistan	0.5933
Cote d'Ivoire	0.1779	Kenya	0.5221	Philippines	0.8162	Venezuela	0.8926
Croatia	0.9815	Kuwait	0.9302	Poland	0.9763	Vietnam	0.8465
Czech Rep.	0.9941	Kyrgyzstan	0.7450	Portugal	0.9993	Yemen	0.4311
D.R. Congo	0.0000	Laos	0.6739	Romania	0.9145	Zambia	0.4761
Denmark	0.9951	Latvia	0.9533	Russia	0.9250	Zimbabwe	0.5797

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.7228	Min	0.0000	Std. Deviation	0.2950	5 Percentile	0.0558
Missing	0	Median	0.8429	Max	1.0000			95 Percentile	0.9972



**Indicator: Internet users****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Knowledge**Tertiary indicator:** Response**Explanation:** Internet users are people with access to the worldwide network.**Sources:** World Bank (<http://data.worldbank.org/indicator/IT.NET.USER.P2>)**Period:** 1990-2011**Units:** number of users per 100 people**Most recent data**

Albania	49.0000	Ecuador	31.4000	Lebanon	52.0000	Rwanda	7.0000
Algeria	14.0000	Egypt	38.6900	Lithuania	65.0500	Saudi Arabia	47.5000
Angola	14.7760	El Salvador	17.6886	Macedonia, FYR	56.7000	Senegal	17.5000
Argentina	47.7040	Estonia	76.5000	Madagascar	1.9000	Sierra Leone	0.2600
Armenia	32.0000	Ethiopia	1.1000	Malawi	3.3300	Slovakia	74.4400
Australia	79.0000	Finland	89.3700	Malaysia	61.0000	Slovenia	72.0000
Austria	79.8000	France	79.5800	Mali	2.0000	South Africa	21.0000
Azerbaijan	50.0000	Gabon	8.0000	Mauritania	4.5000	South Korea	83.8000
Bangladesh	5.0000	Gambia	10.8703	Mexico	36.1500	Spain	67.6000
Belarus	39.6000	Georgia	36.5600	Moldova	38.0000	Sri Lanka	15.0000
Belgium	78.0000	Germany	83.0000	Mongolia	20.0000	Sudan	19.0000
Benin	3.5000	Ghana	14.1100	Morocco	51.0000	Sweden	91.0000
Bolivia	30.0000	Greece	53.0000	Mozambique	4.3000	Switzerland	85.2000
Botswana	7.0000	Guatemala	11.7274	Namibia	12.0000	Syria	22.5000
Brazil	45.0000	Guinea	1.3000	Nepal	9.0000	Tajikistan	13.0300
Bulgaria	51.0000	Guinea Bis.	2.6720	Netherlands	92.3000	Tanzania	12.0000
Burkina Faso	3.0000	Honduras	15.9000	New Zealand	86.0000	Thailand	23.7000
Burundi	1.1100	Hungary	59.0000	Nicaragua	10.6000	Togo	3.5000
C. African R.	2.2000	India	10.0700	Niger	1.3000	Tunisia	39.1000
Cambodia	3.1000	Indonesia	18.0000	Nigeria	28.4300	Turkey	42.1000
Cameroon	5.0000	Iran	21.0000	Norway	93.9700	UAE	70.0000
Canada	83.0000	Ireland	76.8200	Oman	68.0000	Uganda	13.0135
Chad	1.9000	Israel	70.0000	Pakistan	9.0000	UK	82.0000
Chile	53.8938	Italy	56.8000	Panama	42.7000	Ukraine	30.6000
China	38.3000	Japan	79.5300	Papua N.G.	2.0000	Uruguay	51.4000
Colombia	40.4000	Jordan	34.9000	Paraguay	23.9000	USA	77.8630
Congo	5.6000	Kazakhstan	45.0000	Peru	36.5000	Uzbekistan	30.2000
Cote d'Ivoire	2.2000	Kenya	28.0000	Philippines	29.0000	Venezuela	40.2200
Croatia	70.7100	Kuwait	74.2000	Poland	64.8800	Vietnam	35.0700
Czech Rep.	72.9700	Kyrgyzstan	20.0000	Portugal	55.3000	Yemen	14.9050
D.R. Congo	1.2000	Laos	9.0000	Romania	44.0200	Zambia	11.5000
Denmark	90.0000	Latvia	71.6800	Russia	49.0000	Zimbabwe	15.7000

**Descriptive Statistics - based on most recent data**

Available	128	Mean	36.9450	Min	0.2600	Std. Deviation	28.6526	5 Percentile	1.9000
Missing	0	Median	33.4500	Max	93.9700			95 Percentile	84.7100

## Normalization

Type *LB (larger is better)*

Parameters  $u=0.2600$   $\tau=78.1074$

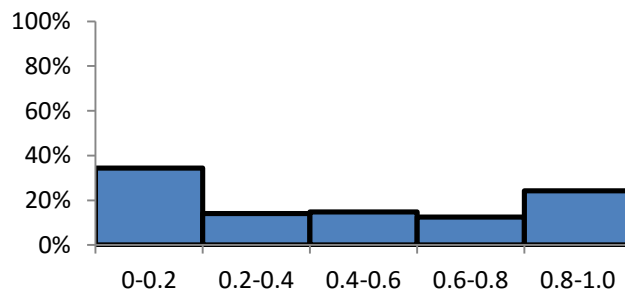
Comments  $u=\min$   $r=\text{average of EU-14, USA, Canada, Australia, Japan and Norway}$

## Smoothed data

Albania	0.6261	Ecuador	0.4000	Lebanon	0.6646	Rwanda	0.0866
Algeria	0.1765	Egypt	0.4937	Lithuania	0.8323	Saudi Arabia	0.6068
Angola	0.1865	El Salvador	0.2239	Macedonia, FYR	0.7250	Senegal	0.2215
Argentina	0.6094	Estonia	0.9794	Madagascar	0.0211	Sierra Leone	0.0000
Armenia	0.4077	Ethiopia	0.0108	Malawi	0.0394	Slovakia	0.9529
Australia	1.0000	Finland	1.0000	Malaysia	0.7802	Slovenia	0.9215
Austria	1.0000	France	1.0000	Mali	0.0224	South Africa	0.2664
Azerbaijan	0.6389	Gabon	0.0994	Mauritania	0.0545	South Korea	1.0000
Bangladesh	0.0609	Gambia	0.1363	Mexico	0.4610	Spain	0.8650
Belarus	0.5053	Georgia	0.4663	Moldova	0.4848	Sri Lanka	0.1893
Belgium	0.9986	Germany	1.0000	Mongolia	0.2536	Sudan	0.2407
Benin	0.0416	Ghana	0.1779	Morocco	0.6518	Sweden	1.0000
Bolivia	0.3820	Greece	0.6775	Mozambique	0.0519	Switzerland	1.0000
Botswana	0.0866	Guatemala	0.1473	Namibia	0.1508	Syria	0.2857
Brazil	0.5747	Guinea	0.0134	Nepal	0.1123	Tajikistan	0.1640
Bulgaria	0.6518	Guinea Bis.	0.0310	Netherlands	1.0000	Tanzania	0.1508
Burkina Faso	0.0352	Honduras	0.2009	New Zealand	1.0000	Thailand	0.3011
Burundi	0.0109	Hungary	0.7546	Nicaragua	0.1328	Togo	0.0416
C. African R.	0.0249	India	0.1260	Niger	0.0134	Tunisia	0.4989
Cambodia	0.0365	Indonesia	0.2279	Nigeria	0.3619	Turkey	0.5375
Cameroon	0.0609	Iran	0.2664	Norway	1.0000	UAE	0.8959
Canada	1.0000	Ireland	0.9835	Oman	0.8702	Uganda	0.1638
Chad	0.0211	Israel	0.8959	Pakistan	0.1123	UK	1.0000
Chile	0.6890	Italy	0.7263	Panama	0.5452	Ukraine	0.3897
China	0.4886	Japan	1.0000	Papua N.G.	0.0205	Uruguay	0.6569
Colombia	0.5156	Jordan	0.4450	Paraguay	0.3037	USA	0.9969
Congo	0.0686	Kazakhstan	0.5747	Peru	0.4655	Uzbekistan	0.3846
Cote d'Ivoire	0.0249	Kenya	0.3563	Philippines	0.3692	Venezuela	0.5133
Croatia	0.9050	Kuwait	0.9498	Poland	0.8301	Vietnam	0.4472
Czech Rep.	0.9340	Kyrgyzstan	0.2536	Portugal	0.7070	Yemen	0.1881
D.R. Congo	0.0121	Laos	0.1123	Romania	0.5621	Zambia	0.1444
Denmark	1.0000	Latvia	0.9174	Russia	0.6261	Zimbabwe	0.1983

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.4606	Min	0.0000	Std. Deviation	0.3501	5 Percentile	0.0207
Missing	0	Median	0.4263	Max	1.0000			95 Percentile	1.0000



## Indicator: Knowledge Economy Index

**Primary indicator:** Human Sustainability (HUMS)

**Secondary indicator:** Knowledge

**Tertiary indicator:** State

**Explanation:** KEI measures the degree to which a given country creates those conditions needed to use environment is conducive for knowledge effectively to enhance economic development. It is an aggregate index that represents the overall level of development of a country or region towards the Knowledge Economy.

**Sources:** World Bank ([http://info.worldbank.org/etools/kam2/KAM\\_page5.asp](http://info.worldbank.org/etools/kam2/KAM_page5.asp))

**Period:** 1990-2011

**Units:** values in [0, 10]

### Most recent data

Albania	4.5300	Ecuador	3.7200	Lebanon	4.5600	Rwanda	1.8300
Algeria	3.7900	Egypt	3.7800	Lithuania	7.8000	Saudi Arabia	5.9600
Angola	1.0800	El Salvador	4.1700	Macedonia, FYR	5.6500	Senegal	2.7000
Argentina	5.4300	Estonia	8.4000	Madagascar	1.7700	Sierra Leone	0.9700
Armenia	5.0800	Ethiopia	1.2700	Malawi	1.9200	Slovakia	7.6400
Australia	8.8800	Finland	9.3300	Malaysia	6.1000	Slovenia	8.0100
Austria	8.6100	France	8.2100	Mali	1.8600	South Africa	5.2100
Azerbaijan	4.5600	Gabon	0.0000*	Mauritania	1.6500	South Korea	7.9700
Bangladesh	1.4900	Gambia	0.0000*	Mexico	5.0700	Spain	8.3500
Belarus	5.5900	Georgia	5.1900	Moldova	4.9200	Sri Lanka	3.6300
Belgium	8.7100	Germany	8.9000	Mongolia	4.4200	Sudan	1.4800
Benin	1.8800	Ghana	2.7200	Morocco	3.6100	Sweden	9.4300
Bolivia	3.6800	Greece	7.5100	Mozambique	1.7600	Switzerland	8.8700
Botswana	4.3100	Guatemala	3.7000	Namibia	4.1000	Syria	2.7700
Brazil	5.5800	Guinea	1.2200	Nepal	1.5800	Tajikistan	3.1300
Bulgaria	6.8000	Guinea Bis.	0.0000*	Netherlands	9.1100	Tanzania	1.7900
Burkina Faso	1.9100	Honduras	3.0800	New Zealand	8.9700	Thailand	5.2100
Burundi	0.0000*	Hungary	8.0200	Nicaragua	2.6100	Togo	0.0000*
C. African R.	0.0000*	India	3.0600	Niger	2.2000	Tunisia	4.5600
Cambodia	1.7100	Indonesia	3.1100	Nigeria	2.0900	Turkey	5.1600
Cameroon	1.6900	Iran	3.9100	Norway	9.1100	UAE	6.9400
Canada	8.9200	Ireland	8.8600	Oman	6.1400	Uganda	2.3700
Chad	0.0000*	Israel	8.1400	Pakistan	2.4500	UK	8.7600
Chile	7.2100	Italy	7.8900	Panama	5.3000	Ukraine	5.7300
China	4.3700	Japan	8.2800	Papua N.G.	0.0000*	Uruguay	6.3900
Colombia	4.9400	Jordan	4.9500	Paraguay	3.9500	USA	8.7700
Congo	0.0000*	Kazakhstan	5.0400	Peru	5.0100	Uzbekistan	3.1400
Cote d'Ivoire	1.5400	Kenya	2.8800	Philippines	3.9400	Venezuela	4.2000
Croatia	7.2900	Kuwait	5.3300	Poland	7.4100	Vietnam	3.4000
Czech Rep.	8.1400	Kyrgyzstan	3.8200	Portugal	7.6100	Yemen	1.9200
D.R. Congo	0.0000*	Laos	1.7500	Romania	6.8200	Zambia	2.5600
Denmark	9.1600	Latvia	7.4100	Russia	5.7800	Zimbabwe	2.1700

\* denotes estimated values

### Descriptive Statistics - based on most recent data

Available	128	Mean	4.5845	Min	0.0000	Std. Deviation	2.7817	5 Percentile	0.0000
Missing	0	Median	4.3950	Max	9.4300			95 Percentile	8.9130

## Normalization

Type *LB (larger is better)*

Parameters  $u=4.0700$

$\tau=8.6100$

Comments  $u=\max$  of lower middle GNI income countries  $r=\text{average}$  of high income GNI countries

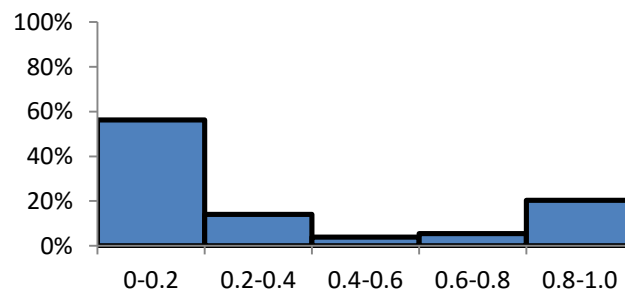
## Smoothed data

Albania	0.0529	Ecuador	0.0000	Lebanon	0.1079	Rwanda	0.0000
Algeria	0.0000	Egypt	0.0000	Lithuania	0.8216	Saudi Arabia	0.2474
Angola	0.0000	El Salvador	0.0396	Macedonia, FYR	0.2452	Senegal	0.0000
Argentina	0.2996	Estonia	0.9537	Madagascar	0.0000	Sierra Leone	0.0000
Armenia	0.2709	Ethiopia	0.0000	Malawi	0.0000	Slovakia	0.7107
Australia	1.0000	Finland	1.0000	Malaysia	0.4787	Slovenia	0.8678
Austria	1.0000	France	0.9119	Mali	0.0000	South Africa	0.2511
Azerbaijan	0.0764	Gabon	0.0000*	Mauritania	0.0000	South Korea	0.9060
Bangladesh	0.0000	Gambia	0.0000*	Mexico	0.2203	Spain	0.9427
Belarus	0.2996	Georgia	0.2019	Moldova	0.1872	Sri Lanka	0.0301
Belgium	1.0000	Germany	1.0000	Mongolia	0.0771	Sudan	0.0000
Benin	0.0000	Ghana	0.0000	Morocco	0.0000	Sweden	1.0000
Bolivia	0.1101	Greece	0.7577	Mozambique	0.0000	Switzerland	1.0000
Botswana	0.0529	Guatemala	0.0000	Namibia	0.0066	Syria	0.0000
Brazil	0.3326	Guinea	0.0000*	Nepal	0.0000	Tajikistan	0.0000
Bulgaria	0.5352	Guinea Bis.	0.0000*	Netherlands	1.0000	Tanzania	0.0000
Burkina Faso	0.0000	Honduras	0.0000	New Zealand	1.0000	Thailand	0.2511
Burundi	0.0000*	Hungary	0.8700	Nicaragua	0.0000	Togo	0.0000*
C. African R.	0.0000*	India	0.0000	Niger	0.0000*	Tunisia	0.0764
Cambodia	0.0000	Indonesia	0.0000	Nigeria	0.0000	Turkey	0.2401
Cameroon	0.0000	Iran	0.0000	Norway	1.0000	UAE	0.5264
Canada	1.0000	Ireland	1.0000	Oman	0.3341	Uganda	0.0000
Chad	0.0000*	Israel	0.9376	Pakistan	0.0000	UK	1.0000
Chile	0.6916	Italy	0.8414	Panama	0.2709	Ukraine	0.3656
China	0.0661	Japan	0.9273	Papua N.G.	0.0000*	Uruguay	0.5426
Colombia	0.1689	Jordan	0.2841	Paraguay	0.0000	USA	1.0000
Congo	0.0000*	Kazakhstan	0.1718	Peru	0.2070	Uzbekistan	0.0000
Cote d'Ivoire	0.0000	Kenya	0.0000	Philippines	0.0000	Venezuela	0.0286
Croatia	0.7093	Kuwait	0.3664	Poland	0.7357	Vietnam	0.0000
Czech Rep.	0.8194	Kyrgyzstan	0.0000	Portugal	0.7797	Yemen	0.0000
D.R. Congo	0.0000*	Laos	0.0000	Romania	0.4537	Zambia	0.0000
Denmark	1.0000	Latvia	0.7357	Russia	0.3319	Zimbabwe	0.0000

\* denotes estimated values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.3026	Min	0.0000	Std. Deviation	0.3834	5 Percentile	0.0000
Missing	0	Median	0.0712	Max	1.0000			95 Percentile	1.0000



**Indicator: Life expectancy****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Health**Tertiary indicator:** State**Explanation:** 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.**Sources:** World Bank (<http://data.worldbank.org/indicator/SP.DYN.LE00.IN>)**Period:** 1990-2011**Units:** number of years**Most recent data**

Albania	77.0423	Ecuador	75.6304	Lebanon	72.5872	Rwanda	55.3946
Algeria	73.0799	Egypt	73.2019	Lithuania	73.5634	Saudi Arabia	74.0584
Angola	51.0593	El Salvador	71.9451	Macedonia, FYR	74.7881	Senegal	59.2722
Argentina	75.7977	Estonia	76.1268	Madagascar	66.6957	Sierra Leone	47.7764
Armenia	73.9160	Ethiopia	59.2431	Malawi	54.1364	Slovakia	75.9585
Australia	81.8463	Finland	80.4707	Malaysia	74.2609	Slovenia	79.9707
Austria	81.0317	France	81.6683	Mali	51.3721	South Africa	52.6148
Azerbaijan	70.6529	Gabon	62.6913	Mauritania	58.5467	South Korea	80.8659
Bangladesh	68.9374	Gambia	58.4847	Mexico	76.8895	Spain	82.3268
Belarus	70.6512	Georgia	73.3273	Moldova	69.2125	Sri Lanka	74.9020
Belgium	80.4854	Germany	80.7415	Mongolia	68.4882	Sudan	61.4477
Benin	56.0144	Ghana	64.2243	Morocco	72.1319	Sweden	81.8024
Bolivia	66.5774	Greece	80.7439	Mozambique	50.1506	Switzerland	82.6951
Botswana	53.0185	Guatemala	71.0722	Namibia	62.3324	Syria	75.8438
Brazil	73.4352	Guinea	54.0922	Nepal	68.7259	Tajikistan	67.5357
Bulgaria	74.1634	Guinea Bis.	48.1126	Netherlands	81.2049	Tanzania	58.1512
Burkina Faso	55.3579	Honduras	73.1132	New Zealand	80.9049	Thailand	74.0912
Burundi	50.3371	Hungary	74.8585	Nicaragua	73.9961	Togo	57.0266
C. African R.	48.3456	India	65.4783	Niger	54.6909	Tunisia	74.7537
Cambodia	62.9774	Indonesia	69.3192	Nigeria	51.8631	Turkey	73.9442
Cameroon	51.5765	Iran	72.9994	Norway	81.2951	UAE	76.7425
Canada	80.9292	Ireland	80.4951	Oman	73.3418	Uganda	54.0742
Chad	49.5233	Israel	81.7561	Pakistan	65.4489	UK	80.7537
Chile	79.0168	Italy	82.0878	Panama	76.1478	Ukraine	70.8093
China	73.4856	Japan	82.5912	Papua N.G.	62.8008	Uruguay	76.4122
Colombia	73.6419	Jordan	73.4289	Paraguay	72.4847	USA	78.6415
Congo	57.3562	Kazakhstan	68.8934	Peru	73.9764	Uzbekistan	68.2653
Cote d'Ivoire	55.4212	Kenya	57.0809	Philippines	68.7573	Venezuela	74.3122
Croatia	76.8756	Kuwait	74.7283	Poland	76.7463	Vietnam	75.0514
Czech Rep.	77.8732	Kyrgyzstan	69.6024	Portugal	80.7220	Yemen	65.4517
D.R. Congo	48.3693	Laos	67.4324	Romania	74.5122	Zambia	48.9688
Denmark	79.8000	Latvia	73.5756	Russia	69.0049	Zimbabwe	51.2364

**Descriptive Statistics - based on most recent data**

Available	128	Mean	69.1464	Min	47.7764	Std. Deviation	10.2061	5 Percentile	50.2159
Missing	0	Median	73.0966	Max	82.6951			95 Percentile	81.7254



## Normalization

Type *LB (larger is better)*

Parameters  $u=47.7764$   $\tau=80.9659$

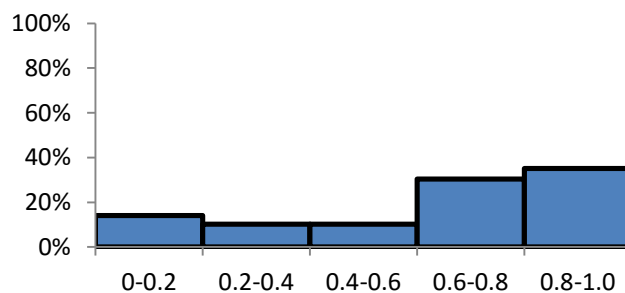
Comments  $u=\text{min}$   $r=\text{average of Scandinavian countries}$

## Smoothed data

Albania	0.8818	Ecuador	0.8392	Lebanon	0.7476	Rwanda	0.2295
Algeria	0.7624	Egypt	0.7661	Lithuania	0.7770	Saudi Arabia	0.7919
Angola	0.0989	El Salvador	0.7282	Macedonia, FYR	0.8139	Senegal	0.3464
Argentina	0.8443	Estonia	0.8542	Madagascar	0.5700	Sierra Leone	0.0000
Armenia	0.7876	Ethiopia	0.3455	Malawi	0.1916	Slovakia	0.8491
Australia	1.0000	Finland	0.9851	Malaysia	0.7980	Slovenia	0.9700
Austria	1.0000	France	1.0000	Mali	0.1083	South Africa	0.1458
Azerbaijan	0.6893	Gabon	0.4494	Mauritania	0.3245	South Korea	0.9970
Bangladesh	0.6376	Gambia	0.3226	Mexico	0.8772	Spain	1.0000
Belarus	0.6892	Georgia	0.7699	Moldova	0.6459	Sri Lanka	0.8173
Belgium	0.9855	Germany	0.9932	Mongolia	0.6240	Sudan	0.4119
Benin	0.2482	Ghana	0.4956	Morocco	0.7338	Sweden	1.0000
Bolivia	0.5665	Greece	0.9933	Mozambique	0.0715	Switzerland	1.0000
Botswana	0.1579	Guatemala	0.7019	Namibia	0.4386	Syria	0.8457
Brazil	0.7731	Guinea	0.1903	Nepal	0.6312	Tajikistan	0.5954
Bulgaria	0.7950	Guinea Bis.	0.0101	Netherlands	1.0000	Tanzania	0.3126
Burkina Faso	0.2284	Honduras	0.7634	New Zealand	0.9982	Thailand	0.7929
Burundi	0.0772	Hungary	0.8160	Nicaragua	0.7900	Togo	0.2787
C. African R.	0.0172	India	0.5334	Niger	0.2083	Tunisia	0.8128
Cambodia	0.4580	Indonesia	0.6491	Nigeria	0.1231	Turkey	0.7884
Cameroon	0.1145	Iran	0.7600	Norway	1.0000	UAE	0.8728
Canada	0.9989	Ireland	0.9858	Oman	0.7703	Uganda	0.1898
Chad	0.0526	Israel	1.0000	Pakistan	0.5325	UK	0.9936
Chile	0.9413	Italy	1.0000	Panama	0.8548	Ukraine	0.6940
China	0.7746	Japan	1.0000	Papua N.G.	0.4527	Uruguay	0.8628
Colombia	0.7793	Jordan	0.7729	Paraguay	0.7445	USA	0.9300
Congo	0.2886	Kazakhstan	0.6363	Peru	0.7894	Uzbekistan	0.6173
Cote d'Ivoire	0.2303	Kenya	0.2803	Philippines	0.6322	Venezuela	0.7995
Croatia	0.8768	Kuwait	0.8121	Poland	0.8729	Vietnam	0.8218
Czech Rep.	0.9068	Kyrgyzstan	0.6576	Portugal	0.9927	Yemen	0.5326
D.R. Congo	0.0179	Laos	0.5922	Romania	0.8056	Zambia	0.0359
Denmark	0.9649	Latvia	0.7773	Russia	0.6396	Zimbabwe	0.1043

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.6416	Min	0.0000	Std. Deviation	0.3047	5 Percentile	0.0735
Missing	0	Median	0.7629	Max	1.0000			95 Percentile	1.0000



**Indicator:** Literacy rate**Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Knowledge**Tertiary indicator:** State**Explanation:** Adult literacy rate is the percentage of the population age 15 and above who can, with understanding, read and write a short, simple statement on their everyday life. Generally, 'literacy' also encompasses 'numeracy', the ability to make simple arithmetic calculations.**Sources:** World Bank (<http://data.worldbank.org/indicator/SE.ADT.LITR.ZS>)**Period:** 1990-2011**Units:** percent of people with ages 15 and above**Most recent data**

Albania	95.9386	Ecuador	91.8540	Lebanon	89.6124	Rwanda	71.0523
Algeria	72.6487	Egypt	72.0479	Lithuania	99.7001	Saudi Arabia	86.5503
Angola	70.1401	El Salvador	84.4927	Macedonia, FYR	97.2686	Senegal	49.6951
Argentina	97.7987	Estonia	99.7956	Madagascar	64.4809	Sierra Leone	42.1176
Armenia	99.5515	Ethiopia	38.9960	Malawi	74.7664	Slovakia	-
Australia	-	Finland	-	Malaysia	93.1179	Slovenia	99.6896
Austria	-	France	-	Mali	31.0998	South Africa	88.7173
Azerbaijan	99.7598	Gabon	88.3839	Mauritania	58.0151	South Korea	-
Bangladesh	56.7799	Gambia	49.9574	Mexico	93.0689	Spain	97.7489
Belarus	99.6171	Georgia	99.7250	Moldova	98.5236	Sri Lanka	91.1814
Belgium	-	Germany	-	Mongolia	97.4081	Sudan	71.0597
Benin	42.3594	Ghana	67.2730	Morocco	56.0837	Sweden	-
Bolivia	91.1678	Greece	97.1882	Mozambique	56.1084	Switzerland	-
Botswana	84.4709	Guatemala	75.1834	Namibia	88.7512	Syria	83.4446
Brazil	90.2982	Guinea	41.0469	Nepal	60.3145	Tajikistan	99.6915
Bulgaria	98.3524	Guinea Bis.	54.1832	Netherlands	-	Tanzania	73.2055
Burkina Faso	28.7292	Honduras	84.7554	New Zealand	-	Thailand	93.5065
Burundi	67.1594	Hungary	99.0456	Nicaragua	78.0030	Togo	57.0934
C. African R.	55.9909	India	62.7545	Niger	28.6724	Tunisia	77.5611
Camodia	73.9000	Indonesia	92.5817	Nigeria	61.3386	Turkey	90.8167
Cameroon	70.6799	Iran	85.0188	Norway	-	UAE	90.0338
Canada	-	Ireland	-	Oman	86.6211	Uganda	73.2119
Chad	34.4746	Israel	-	Pakistan	54.8926	UK	-
Chile	98.5537	Italy	98.9334	Panama	94.0941	Ukraine	99.7068
China	94.2722	Japan	-	Papua N.G.	60.6099	Uruguay	98.0727
Colombia	93.3723	Jordan	92.5510	Paraguay	93.8709	USA	-
Congo	-	Kazakhstan	99.6939	Peru	89.5908	Uzbekistan	99.3870
Cote d'Ivoire	56.1711	Kenya	87.3812	Philippines	95.4201	Venezuela	95.5120
Croatia	98.8264	Kuwait	93.9062	Poland	99.5197	Vietnam	93.1777
Czech Rep.	-	Kyrgyzstan	99.2414	Portugal	95.1790	Yemen	63.9094
D.R. Congo	66.7986	Laos	72.7023	Romania	97.6754	Zambia	71.2113
Denmark	-	Latvia	99.7838	Russia	99.5763	Zimbabwe	92.2354

**Descriptive Statistics - based on most recent data**

Available	106	Mean	80.2760	Min	28.6724	Std. Deviation	19.6196	5 Percentile	41.3146
Missing	22	Median	88.7342	Max	99.7956			95 Percentile	99.6985

## Normalization

Type *LB (larger is better)* Parameters  $u=28.6724$   $\tau=100.0000$   
 Comments  $u=\min$   $r=\text{maximum possible}$

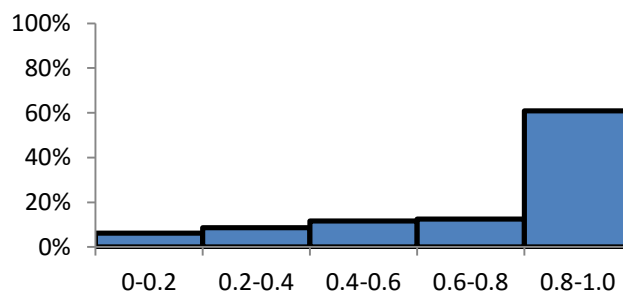
## Smoothed data

Albania	0.9431	Ecuador	0.8305	Lebanon	0.8544	Rwanda	0.5942
Algeria	0.6165	Egypt	0.5746	Lithuania	0.9958	Saudi Arabia	0.8114
Angola	0.5814	El Salvador	0.7783	Macedonia, FYR	0.9617	Senegal	0.2947
Argentina	0.9691	Estonia	0.9971	Madagascar	0.5020	Sierra Leone	0.1885
Armenia	0.9937	Ethiopia	0.0716	Malawi	0.6462	Slovakia	0.9903**
Australia	0.9971**	Finland	0.9971**	Malaysia	0.9035	Slovenia	0.9956
Austria	0.9971**	France	0.9682**	Mali	0.0340	South Africa	0.8418
Azerbaijan	0.9966	Gabon	0.8371	Mauritania	0.4114	South Korea	0.9971**
Bangladesh	0.3941	Gambia	0.2984	Mexico	0.9028	Spain	0.9682
Belarus	0.9946	Georgia	0.9961	Moldova	0.9793	Sri Lanka	0.8711
Belgium	0.9619**	Germany	0.9971**	Mongolia	0.9637	Sudan	0.5943
Benin	0.1919	Ghana	0.5412	Morocco	0.3843	Sweden	0.9971**
Bolivia	0.8745	Greece	0.9606	Mozambique	0.3846	Switzerland	0.9971**
Botswana	0.7823	Guatemala	0.6521	Namibia	0.8423	Syria	0.7531
Brazil	0.8640	Guinea	0.1735	Nepal	0.4436	Tajikistan	0.9957
Bulgaria	0.9769	Guinea Bis.	0.3577	Netherlands	0.9682**	Tanzania	0.6243
Burkina Faso	0.0008	Honduras	0.7863	New Zealand	0.9971**	Thailand	0.9090
Burundi	0.5396	Hungary	0.9866	Nicaragua	0.6916	Togo	0.3985
C. African R.	0.3830	India	0.4778	Niger	0.0000	Tunisia	0.6854
Cambodia	0.6521	Indonesia	0.8960	Nigeria	0.3998	Turkey	0.8713
Cameroon	0.5889	Iran	0.7890	Norway	0.9971**	UAE	0.8603
Canada	0.9971**	Ireland	0.9766**	Oman	0.8124	Uganda	0.6244
Chad	0.0813	Israel	0.9956**	Pakistan	0.3676	UK	0.9766**
Chile	0.9801	Italy	0.9850	Panama	0.9172	Ukraine	0.9959
China	0.9197	Japan	0.9971**	Papua N.G.	0.4478	Uruguay	0.9730
Colombia	0.9070	Jordan	0.8956	Paraguay	0.9106	USA	0.9971**
Congo	0.6093**	Kazakhstan	0.9957	Peru	0.8541	Uzbekistan	0.9914
Cote d'Ivoire	0.3855	Kenya	0.7731	Philippines	0.9095	Venezuela	0.9371
Croatia	0.9835	Kuwait	0.9146	Poland	0.9933	Vietnam	0.8767
Czech Rep.	0.9899**	Kyrgyzstan	0.9894	Portugal	0.9324	Yemen	0.4940
D.R. Congo	0.5345	Laos	0.6137	Romania	0.9674	Zambia	0.5964
Denmark	0.9971**	Latvia	0.9970	Russia	0.9941	Zimbabwe	0.8911

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.7637	Min	0.0000	Std. Deviation	0.2710	5 Percentile	0.1897
Missing	0	Median	0.8839	Max	0.9971			95 Percentile	0.9971



**Indicator:** Malaria cases**Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Health**Tertiary indicator:** Pressure**Explanation:** Standardized cases are derived from the total reported number of cases and an appreciation of the proportion of these cases that were laboratory-confirmed. Reported cases per country for the most recent year for which WHO/RBM received data. The standardized case reporting rate (per 1,000 per year) is calculated by dividing the standardized cases by the national population size estimated by the United Nations Population Division for the middle of the year under consideration.**Sources:** World Health Organization - Global Health Observatory Data Repository ([http://rbm.who.int/wmr2005/tables/table\\_a22.pdf](http://rbm.who.int/wmr2005/tables/table_a22.pdf)); <http://apps.who.int/globalatlas/default.asp>; <http://apps.who.int/gho/data/node.main.A1364?lang=en>)**Period:** 1990-2011**Units:** standardized reported malaria cases per 1,000**Most recent data**

Albania	24.7000	Ecuador	0.0841	Lebanon	0.0000*	Rwanda	19.0861
Algeria	0.0001	Egypt	0.0000	Lithuania	0.0000*	Saudi Arabia	0.0025
Angola	83.2015	El Salvador	0.0026	Macedonia, FYR	0.0000*	Senegal	0.0000
Argentina	0.0009	Estonia	0.0000*	Madagascar	10.5323	Sierra Leone	106.5211
Armenia	0.0000	Ethiopia	17.4700	Malawi	19.7972	Slovakia	0.0000*
Australia	0.0000*	Finland	0.0000*	Malaysia	0.1443	Slovenia	0.0000*
Austria	0.0000*	France	0.0000*	Mali	19.3841	South Africa	0.1950
Azerbaijan	0.0004	Gabon	0.0000	Mauritania	0.8262	South Korea	0.0155
Bangladesh	0.3440	Gambia	147.4954	Mexico	0.0098	Spain	0.0000*
Belarus	0.0000*	Georgia	0.0000	Moldova	0.0000*	Sri Lanka	0.0059
Belgium	0.0000*	Germany	0.0000*	Mongolia	0.0000*	Sudan	14.7678
Benin	46.4804	Ghana	41.7074	Morocco	0.0000	Sweden	0.0000*
Bolivia	0.7081	Greece	0.0000*	Mozambique	73.4181	Switzerland	0.0000*
Botswana	0.2127	Guatemala	0.4623	Namibia	0.8003	Syria	0.0000
Brazil	1.3579	Guinea	9.3500	Nepal	0.0751	Tajikistan	0.0093
Bulgaria	0.0000*	Guinea Bis.	46.5282	Netherlands	0.0000*	Tanzania	0.0000
Burkina Faso	25.2308	Honduras	0.9820	New Zealand	0.0000*	Thailand	0.3581
Burundi	183.3052	Hungary	0.0000*	Nicaragua	0.1576	Togo	84.3974
C. African R.	24.7000	India	1.0555	Niger	48.5952	Tunisia	0.0000*
Cambodia	4.0141	Indonesia	1.0589	Nigeria	0.0000	Turkey	0.0000
Cameroon	0.0000	Iran	0.0229	Norway	0.0000*	UAE	0.0000*
Canada	0.0000*	Ireland	0.0000*	Oman	0.0046	Uganda	6.7192
Chad	15.7152	Israel	0.0000*	Pakistan	1.8931	UK	0.0000*
Chile	0.0000*	Italy	0.0000*	Panama	0.0991	Ukraine	0.0000*
China	0.0025	Japan	0.0000*	Papua N.G.	11.5383	Uruguay	0.0000*
Colombia	1.3704	Jordan	0.0000*	Paraguay	0.0015	USA	0.0000*
Congo	17.1624	Kazakhstan	0.0000*	Peru	0.7782	Uzbekistan	0.0000
Cote d'Ivoire	1.4874	Kenya	24.1003	Philippines	0.1007	Venezuela	1.5651
Croatia	0.0000*	Kuwait	0.0000*	Poland	0.0000*	Vietnam	0.1891
Czech Rep.	0.0000*	Kyrgyzstan	0.0000	Portugal	0.0000*	Yemen	3.6456
D.R. Congo	67.3280	Laos	2.8363	Romania	0.0000*	Zambia	0.0000
Denmark	0.0000*	Latvia	0.0000*	Russia	0.0000	Zimbabwe	25.0843

\* denotes estimated values

**Descriptive Statistics - based on most recent data**

Available	128	Mean	9.6968	Min	0.0000	Std. Deviation	27.0255	5 Percentile	0.0000
Missing	0	Median	0.0012	Max	183.3052			95 Percentile	60.7715

## Normalization

Type *SB (smaller is better)* Parameters *T=0.0000* *U=0.0012*  
 Comments *T=minimum possible* *U=median*

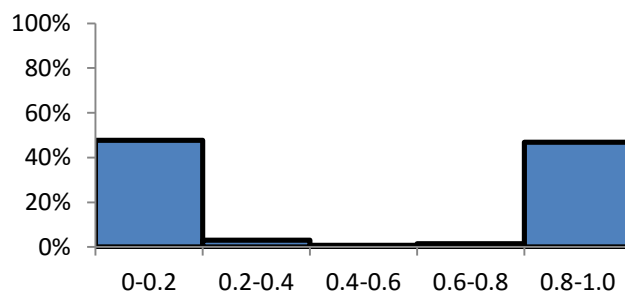
## Smoothed data

Albania	0.0000	Ecuador	0.0000	Lebanon	1.0000*	Rwanda	0.0000
Algeria	0.8255	Egypt	1.0000	Lithuania	1.0000*	Saudi Arabia	0.0061
Angola	0.0000	El Salvador	0.0000	Macedonia, FYR	1.0000*	Senegal	1.0000
Argentina	0.2658	Estonia	1.0000*	Madagascar	0.0000	Sierra Leone	0.0769
Armenia	0.9978	Ethiopia	0.0000	Malawi	0.2498	Slovakia	1.0000*
Australia	1.0000*	Finland	1.0000*	Malaysia	0.0000	Slovenia	1.0000*
Austria	1.0000*	France	1.0000*	Mali	0.0000	South Africa	0.0000
Azerbaijan	0.6375	Gabon	1.0000	Mauritania	0.0526	South Korea	0.0000
Bangladesh	0.0000	Gambia	0.1429	Mexico	0.0000	Spain	1.0000*
Belarus	1.0000*	Georgia	0.9283	Moldova	1.0000*	Sri Lanka	0.0000
Belgium	1.0000*	Germany	1.0000*	Mongolia	1.0000*	Sudan	0.0000
Benin	0.4894	Ghana	0.0000	Morocco	0.9568	Sweden	1.0000*
Bolivia	0.0000	Greece	1.0000*	Mozambique	0.0769	Switzerland	1.0000*
Botswana	0.0000	Guatemala	0.0000	Namibia	0.0000	Syria	1.0000
Brazil	0.0000	Guinea	0.0667	Nepal	0.0000	Tajikistan	0.0020
Bulgaria	1.0000*	Guinea Bis.	0.0000	Netherlands	1.0000*	Tanzania	1.0000
Burkina Faso	0.0000	Honduras	0.0000	New Zealand	1.0000*	Thailand	0.0000
Burundi	0.0000	Hungary	1.0000*	Nicaragua	0.0000	Togo	0.0556
C. African R.	0.0000	India	0.0000	Niger	0.0000	Tunisia	1.0000*
Cambodia	0.0000	Indonesia	0.0000	Nigeria	0.3452	Turkey	1.0000
Cameroon	0.8351	Iran	0.0000	Norway	1.0000*	UAE	1.0000*
Canada	1.0000*	Ireland	1.0000*	Oman	0.1386	Uganda	0.0000
Chad	0.0556	Israel	1.0000*	Pakistan	0.0000	UK	1.0000*
Chile	1.0000*	Italy	1.0000*	Panama	0.0000	Ukraine	1.0000*
China	0.0000	Japan	1.0000*	Papua N.G.	0.0000	Uruguay	1.0000*
Colombia	0.0000	Jordan	1.0000*	Paraguay	0.0000	USA	1.0000*
Congo	0.1557	Kazakhstan	1.0000*	Peru	0.0000	Uzbekistan	0.9582
Cote d'Ivoire	0.1374	Kenya	0.3094	Philippines	0.0000	Venezuela	0.0000
Croatia	1.0000*	Kuwait	1.0000*	Poland	1.0000*	Vietnam	0.0000
Czech Rep.	1.0000*	Kyrgyzstan	0.7546	Portugal	1.0000*	Yemen	0.0000
D.R. Congo	0.0000	Laos	0.0000	Romania	1.0000*	Zambia	1.0000
Denmark	1.0000*	Latvia	1.0000*	Russia	0.9908*	Zimbabwe	0.0000

\* denotes estimated values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.4962	Min	0.0000	Std. Deviation	0.4796	5 Percentile	0.0000
Missing	0	Median	0.3273	Max	1.0000			95 Percentile	1.0000



**Indicator: Male expected years of schooling****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Knowledge**Tertiary indicator:** State**Explanation:** Average number of years of formal schooling that a child is expected to receive, including university education and years spent in repetition. It may also be interpreted as an indicator of the total educational resources, measured in school years, a child will require over the course of schooling.**Sources:** UNESCO Institute for Statistics (UIS)  
(<http://www.uis.unesco.org/Pages/default.aspx>)**Period:** 1990-2011**Units:** years**Most recent data**

Albania	11.1573	Ecuador	-	Lebanon	13.9851	Rwanda	10.9642
Algeria	13.8038	Egypt	12.6979	Lithuania	14.8380	Saudi Arabia	15.2164
Angola	11.5363	El Salvador	12.3557	Macedonia, FYR	13.2132	Senegal	8.3132
Argentina	15.4348	Estonia	15.1073	Madagascar	10.6526	Sierra Leone	8.7095
Armenia	11.7330	Ethiopia	9.7228	Malawi	10.8179	Slovakia	14.1514
Australia	19.1937	Finland	16.4497	Malaysia	12.2248	Slovenia	15.9525
Austria	15.2837	France	15.9616	Mali	8.3293	South Africa	12.9797
Azerbaijan	11.8987	Gabon	12.4417	Mauritania	8.2548	South Korea	18.0257
Bangladesh	6.6071	Gambia	5.9716	Mexico	13.6476	Spain	16.7705
Belarus	14.7412	Georgia	12.7486	Moldova	11.5361	Sri Lanka	13.4991
Belgium	16.1847	Germany	15.9294	Mongolia	13.8401	Sudan	-
Benin	11.2558	Ghana	12.1790	Morocco	11.6985	Sweden	15.1321
Bolivia	13.7531	Greece	16.1241	Mozambique	10.3445	Switzerland	15.8940
Botswana	11.7903	Guatemala	11.0441	Namibia	11.0974	Syria	10.4792
Brazil	13.8979	Guinea	10.8212	Nepal	9.8958	Tajikistan	12.3984
Bulgaria	13.7548	Guinea Bis.	-	Netherlands	16.9708	Tanzania	9.3525
Burkina Faso	7.3802	Honduras	11.2334	New Zealand	18.8476	Thailand	11.9016
Burundi	11.7500	Hungary	15.0855	Nicaragua	10.6584	Togo	12.3650
C. African R.	7.9984	India	11.2160	Niger	5.8829	Tunisia	14.5433
Cambodia	11.1558	Indonesia	13.1902	Nigeria	9.7730	Turkey	14.3209
Cameroon	12.4227	Iran	13.9030	Norway	16.7883	UAE	10.4448
Canada	15.4870	Ireland	18.5857	Oman	13.6332	Uganda	11.2943
Chad	9.8502	Israel	15.2560	Pakistan	8.3168	UK	16.2687
Chile	15.0275	Italy	15.7173	Panama	12.7068	Ukraine	14.5735
China	11.6007	Japan	15.4538	Papua N.G.	6.4200	Uruguay	14.4244
Colombia	13.3963	Jordan	12.4094	Paraguay	11.6768	USA	15.9340
Congo	10.2051	Kazakhstan	15.0846	Peru	13.1608	Uzbekistan	11.8295
Cote d'Ivoire	7.8025	Kenya	11.3775	Philippines	11.0996	Venezuela	13.1078
Croatia	13.4758	Kuwait	13.3864	Poland	14.6661	Vietnam	10.6568
Czech Rep.	15.5137	Kyrgyzstan	12.3371	Portugal	15.9781	Yemen	10.7301
D.R. Congo	9.6932	Laos	11.1177	Romania	14.0391	Zambia	-
Denmark	16.2499	Latvia	13.8949	Russia	13.7728	Zimbabwe	10.5917

**Descriptive Statistics - based on most recent data**

Available	124	Mean	12.7373	Min	5.8829	Std. Deviation	2.7554	5 Percentile	8.0368
Missing	4	Median	12.7023	Max	19.1937			95 Percentile	16.7224

## Normalization

Type *LB (larger is better)* Parameters  $u=5.8829$   $\tau=12.0000$   
 Comments  $u=\min$   $r=\text{typical in many developed countries}$

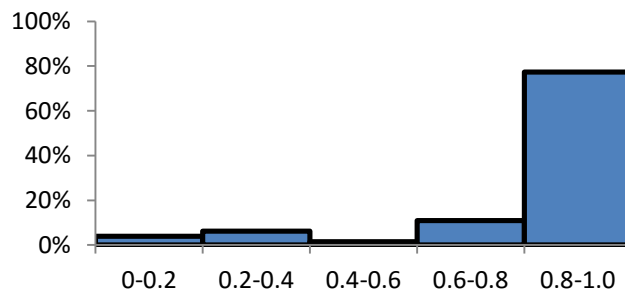
## Smoothed data

Albania	0.8622	Ecuador	1.0000**	Lebanon	1.0000	Rwanda	0.8307
Algeria	1.0000	Egypt	1.0000	Lithuania	1.0000	Saudi Arabia	1.0000
Angola	0.9242	El Salvador	1.0000	Macedonia, FYR	1.0000	Senegal	0.3973
Argentina	1.0000	Estonia	1.0000	Madagascar	0.7797	Sierra Leone	0.4621
Armenia	0.9563	Ethiopia	0.6277	Malawi	0.8067	Slovakia	1.0000
Australia	1.0000	Finland	1.0000	Malaysia	1.0000	Slovenia	1.0000
Austria	1.0000	France	1.0000	Mali	0.3999	South Africa	1.0000
Azerbaijan	0.9633	Gabon	1.0000	Mauritania	0.3877	South Korea	1.0000
Bangladesh	0.1184	Gambia	0.0145	Mexico	1.0000	Spain	1.0000
Belarus	1.0000	Georgia	1.0000	Moldova	0.9242	Sri Lanka	1.0000
Belgium	1.0000	Germany	1.0000	Mongolia	1.0000	Sudan	0.3138**
Benin	0.8783	Ghana	1.0000	Morocco	0.9507	Sweden	1.0000
Bolivia	1.0000	Greece	1.0000	Mozambique	0.7294	Switzerland	1.0000
Botswana	0.9657	Guatemala	0.8437	Namibia	0.8795	Syria	0.7514
Brazil	1.0000	Guinea	0.8073	Nepal	0.6560	Tajikistan	1.0000
Bulgaria	1.0000	Guinea Bis.	0.3138**	Netherlands	1.0000	Tanzania	0.5670
Burkina Faso	0.2448	Honduras	0.8747	New Zealand	1.0000	Thailand	0.9839
Burundi	0.9591	Hungary	1.0000	Nicaragua	0.7807	Togo	1.0000
C. African R.	0.1319	India	0.8718	Niger	0.0000	Tunisia	1.0000
Cambodia	0.8620	Indonesia	1.0000	Nigeria	0.6355	Turkey	1.0000
Cameroon	1.0000	Iran	0.9901	Norway	1.0000	UAE	0.7393
Canada	1.0000	Ireland	1.0000	Oman	1.0000	Uganda	0.8846
Chad	0.6486	Israel	1.0000	Pakistan	0.3979	UK	1.0000
Chile	1.0000	Italy	1.0000	Panama	1.0000	Ukraine	1.0000
China	0.9347	Japan	1.0000	Papua N.G.	0.0878	Uruguay	1.0000
Colombia	1.0000	Jordan	1.0000	Paraguay	0.9472	USA	1.0000
Congo	0.7175	Kazakhstan	1.0000	Peru	1.0000	Uzbekistan	0.9721
Cote d'Ivoire	0.3138	Kenya	0.8982	Philippines	0.8729	Venezuela	1.0000
Croatia	1.0000	Kuwait	1.0000	Poland	1.0000	Vietnam	0.7804
Czech Rep.	1.0000	Kyrgyzstan	1.0000	Portugal	1.0000	Yemen	0.7924
D.R. Congo	0.6229*	Laos	0.8558	Romania	1.0000	Zambia	0.8322**
Denmark	1.0000	Latvia	0.9984	Russia	1.0000	Zimbabwe	0.7698

\* denotes estimated values      \*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8634	Min	0.0000	Std. Deviation	0.2412	5 Percentile	0.3138
Missing	0	Median	1.0000	Max	1.0000			95 Percentile	1.0000





## Indicator: Maternal mortality rate

Primary indicator:

Secondary indicator: Health

Tertiary indicator: Pressure

Explanation: Annual number of deaths from pregnancy or childbirth related causes per 100,000 live births. A maternal death is defined by WHO as the death of a woman while pregnant or within 42 days of the termination of pregnancy from any cause related to or aggravated by the pregnancy, including abortion.

Sources: World Bank (<http://data.worldbank.org/indicator/SH.STA.MMRT.NE>)

Period: 1990-2011

Units: number of deaths per 100,000 live births

### Most recent data

Albania	20.9000	Ecuador	60.9000	Lebanon	104.0000	Rwanda	480.0000
Algeria	117.4000	Egypt	55.0000	Lithuania	8.6000	Saudi Arabia	14.0000
Angola	-	El Salvador	55.8000	Macedonia, FYR	4.0000	Senegal	390.0000
Argentina	44.0000	Estonia	6.7000	Madagascar	500.0000	Sierra Leone	860.0000
Armenia	9.0000	Ethiopia	680.0000	Malawi	680.0000	Slovakia	9.8000
Australia	-	Finland	5.5000	Malaysia	30.0000	Slovenia	10.1000
Austria	-	France	10.0000	Mali	460.0000	South Africa	400.0000
Azerbaijan	24.3000	Gabon	520.0000	Mauritania	690.0000	South Korea	20.0000
Bangladesh	220.0000	Gambia	730.0000	Mexico	51.5000	Spain	5.5000
Belarus	1.0000	Georgia	19.4000	Moldova	15.3000	Sri Lanka	39.3000
Belgium	-	Germany	7.5000	Mongolia	47.0000	Sudan	94.0000
Benin	400.0000	Ghana	450.0000	Morocco	130.0000	Sweden	4.5000
Bolivia	310.0000	Greece	1.0000	Mozambique	500.0000	Switzerland	5.0000
Botswana	160.0000	Guatemala	140.0000	Namibia	450.0000	Syria	65.4000
Brazil	75.0000	Guinea	980.0000	Nepal	280.0000	Tajikistan	45.0000
Bulgaria	7.9000	Guinea Bis.	410.0000	Netherlands	7.0000	Tanzania	450.0000
Burkina Faso	340.0000	Honduras	108.0000	New Zealand	15.0000	Thailand	12.2000
Burundi	500.0000	Hungary	18.7000	Nicaragua	62.7000	Togo	478.0000
C. African R.	540.0000	India	210.0000	Niger	650.0000	Tunisia	69.0000
Cambodia	210.0000	Indonesia	230.0000	Nigeria	550.0000	Turkey	28.5000
Cameroon	670.0000	Iran	24.6000	Norway	6.0000	UAE	0.0000
Canada	-	Ireland	6.0000	Oman	26.4000	Uganda	440.0000
Chad	1,100.0000	Israel	4.5000	Pakistan	280.0000	UK	7.0000
Chile	19.7000	Italy	7.0000	Panama	60.0000	Ukraine	15.5000
China	26.1000	Japan	8.0000	Papua N.G.	730.0000	Uruguay	34.0000
Colombia	62.8000	Jordan	19.1000	Paraguay	100.0000	USA	12.7000
Congo	426.0000	Kazakhstan	17.4000	Peru	93.0000	Uzbekistan	21.4000
Cote d'Ivoire	540.0000	Kenya	488.0000	Philippines	221.0000	Venezuela	63.4000
Croatia	9.2000	Kuwait	4.5000	Poland	1.9000	Vietnam	69.0000
Czech Rep.	1.7000	Kyrgyzstan	63.5000	Portugal	7.5000	Yemen	370.0000
D.R. Congo	550.0000	Laos	410.0000	Romania	21.1000	Zambia	590.0000
Denmark	10.0000	Latvia	32.3000	Russia	16.5000	Zimbabwe	960.0000

### Descriptive Statistics - based on most recent data

Available	123	Mean	203.5789	Min	0.0000	Std. Deviation	260.3560	5 Percentile	4.5000
Missing	5	Median	60.9000	Max	1,100.0000			95 Percentile	689.0000

## Normalization

Type *SB (smaller is better)*

Parameters *T=6.8333*

*U=690.0000*

Comments *T=average of Scandinavian countries*

*U=max (excluding 4.5% outliers)*

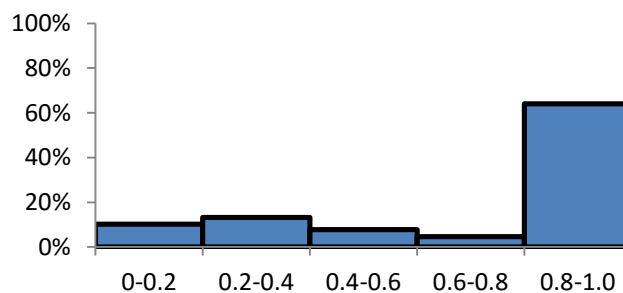
## Smoothed data

Albania	0.9785	Ecuador	0.8890	Lebanon	0.8578	Rwanda	0.3074
Algeria	0.8382	Egypt	0.9295	Lithuania	0.9930	Saudi Arabia	0.9895
Angola	0.0000**	El Salvador	0.9283	Macedonia, FYR	0.9948	Senegal	0.4391
Argentina	0.9452	Estonia	0.9842	Madagascar	0.2781	Sierra Leone	0.0000
Armenia	0.9839	Ethiopia	0.0146	Malawi	0.0146	Slovakia	0.9957
Australia	0.9880**	Finland	1.0000	Malaysia	0.9670	Slovenia	0.9843
Austria	0.9954**	France	0.9954	Mali	0.3367	South Africa	0.4245
Azerbaijan	0.9736	Gabon	0.2488	Mauritania	0.0000	South Korea	0.9807
Bangladesh	0.5558	Gambia	0.0000	Mexico	0.9236	Spain	1.0000
Belarus	1.0000	Georgia	0.9653	Moldova	0.9707	Sri Lanka	0.9499
Belgium	0.9990**	Germany	0.9990	Mongolia	0.9196	Sudan	0.8724
Benin	0.4245	Ghana	0.3513	Morocco	0.8197	Sweden	1.0000
Bolivia	0.5562	Greece	1.0000	Mozambique	0.2781	Switzerland	1.0000
Botswana	0.7758	Guatemala	0.8051	Namibia	0.3513	Syria	0.9143
Brazil	0.9104	Guinea	0.0000	Nepal	0.6001	Tajikistan	0.9332
Bulgaria	0.9989	Guinea Bis.	0.4099	Netherlands	0.9998	Tanzania	0.3513
Burkina Faso	0.5126	Honduras	0.8519	New Zealand	0.9880	Thailand	0.9921
Burundi	0.2781	Hungary	0.9826	Nicaragua	0.9182	Togo	0.3103
C. African R.	0.2196	India	0.7026	Niger	0.0586	Tunisia	0.9090
Cambodia	0.4311	Indonesia	0.6733	Nigeria	0.2049	Turkey	0.9683
Cameroon	0.0293	Iran	0.9740	Norway	1.0000	UAE	1.0000
Canada	0.9998**	Ireland	1.0000	Oman	0.9812	Uganda	0.3659
Chad	0.0000	Israel	1.0000	Pakistan	0.6001	UK	0.9998
Chile	0.9835	Italy	0.9998	Panama	0.9236	Ukraine	0.9839
China	0.9718	Japan	0.9983	Papua N.G.	0.0000	Uruguay	0.9688
Colombia	0.9168	Jordan	0.9820	Paraguay	0.8540	USA	0.9914
Congo	0.3864	Kazakhstan	0.9496	Peru	0.8739	Uzbekistan	0.9787
Cote d'Ivoire	0.2196	Kenya	0.2957	Philippines	0.7312	Venezuela	0.9211
Croatia	0.9963	Kuwait	1.0000	Poland	1.0000	Vietnam	0.9090
Czech Rep.	0.9998	Kyrgyzstan	0.9106	Portugal	0.9990	Yemen	0.4684
D.R. Congo	0.2049	Laos	0.4099	Romania	0.9808	Zambia	0.1464
Denmark	0.9954	Latvia	0.9860	Russia	0.9859	Zimbabwe	0.0395

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.7250	Min	0.0000	Std. Deviation	0.3454	5 Percentile	0.0051
Missing	0	Median	0.9223	Max	1.0000			95 Percentile	1.0000



**Indicator: Metals concentration****Primary indicator:** Ecological Sustainability (ECOS)**Secondary indicator:** Water**Tertiary indicator:** State**Explanation:** It is a widely used bulk measure of metals concentration and salinity. Siemens is a unit of electric conductivity. High levels of conductivity correspond to high concentrations of metals.**Sources:** Esty et al. (2005); Environmental Sustainability Index 2001, 2002 (www.yale.edu/esi)**Period:** 1990-2011**Units:** micro-Siemens per centimeter**Most recent data**

Albania	716.2300	Ecuador	338.0800	Lebanon	1,084.2300	Rwanda	218.1000
Algeria	854.2200	Egypt	1,092.3900	Lithuania	607.0000	Saudi Arabia	1,305.8000
Angola	362.4500	El Salvador	310.4700	Macedonia, FYR	579.1900	Senegal	729.6300
Argentina	118.6200	Estonia	598.0300	Madagascar	13.6200	Sierra Leone	280.4900
Armenia	662.9600	Ethiopia	571.5200	Malawi	302.0000	Slovakia	497.3200
Australia	267.2300	Finland	53.1400	Malaysia	504.4800	Slovenia	369.5900
Austria	317.0300	France	321.5700	Mali	120.7700	South Africa	863.7100
Azerbaijan	934.8900	Gabon	149.1900	Mauritania	500.8100	South Korea	145.2900
Bangladesh	231.6000	Gambia	478.0100	Mexico	1,239.6300	Spain	1,086.9000
Belarus	547.7500	Georgia	560.1200	Moldova	883.1000	Sri Lanka	722.2200
Belgium	573.6200	Germany	863.3000	Mongolia	525.3600	Sudan	346.5400
Benin	621.5600	Ghana	722.6200	Morocco	1,620.5000	Sweden	152.9700
Bolivia	235.3300	Greece	385.9600	Mozambique	13.6200	Switzerland	285.9500
Botswana	341.5800	Guatemala	648.1200	Namibia	319.4100	Syria	683.3000
Brazil	296.7400	Guinea	314.3500	Nepal	637.2000	Tajikistan	553.9100
Bulgaria	543.5000	Guinea Bis.	347.2000	Netherlands	623.1200	Tanzania	922.3700
Burkina Faso	842.3400	Honduras	770.5000	New Zealand	111.5400	Thailand	490.4100
Burundi	683.8600	Hungary	711.7100	Nicaragua	13.6200	Togo	714.1400
C. African R.	182.7600	India	2,240.7000	Niger	588.1400	Tunisia	850.1300
Cambodia	13.6200	Indonesia	167.1300	Nigeria	232.6300	Turkey	2,247.4000
Cameroon	306.1900	Iran	627.0400	Norway	13.6200	UAE	849.4300
Canada	153.2900	Ireland	457.1000	Oman	613.5300	Uganda	35.7100
Chad	279.6600	Israel	730.5300	Pakistan	492.4600	UK	368.0700
Chile	417.3600	Italy	505.5200	Panama	367.9300	Ukraine	1,190.9500
China	522.7800	Japan	163.4300	Papua N.G.	13.6200	Uruguay	380.0500
Colombia	565.7600	Jordan	1,245.8300	Paraguay	59.1600	USA	663.2700
Congo	13.6200	Kazakhstan	1,038.8400	Peru	809.2100	Uzbekistan	1,158.1800
Cote d'Ivoire	620.0700	Kenya	325.8800	Philippines	136.7000	Venezuela	737.2600
Croatia	387.0000	Kuwait	405.7100	Poland	969.1200	Vietnam	559.8700
Czech Rep.	1,150.5000	Kyrgyzstan	745.8800	Portugal	52.1000	Yemen	327.7900
D.R. Congo	155.5700	Laos	20.8800	Romania	657.2400	Zambia	13.6200
Denmark	382.9200	Latvia	685.5900	Russia	39.1400	Zimbabwe	914.3300

**Descriptive Statistics - based on most recent data**

Available	128	Mean	533.6520	Min	13.6200	Std. Deviation	396.6314	5 Percentile	13.6200
Missing	0	Median	502.6450	Max	2,247.4000			95 Percentile	1,179.4805

## Normalization

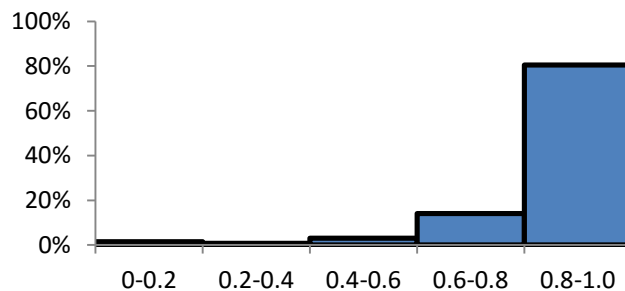
Type SB (smaller is better) Parameters T=438.8086 U=2,247.4000  
 Comments T=average of EU-14 U=max

## Smoothed data

Albania	0.8466	Ecuador	1.0000	Lebanon	0.6431	Rwanda	1.0000
Algeria	0.7703	Egypt	0.6386	Lithuania	0.9070	Saudi Arabia	0.5206
Angola	1.0000	El Salvador	1.0000	Macedonia, FYR	0.9224	Senegal	0.8392
Argentina	1.0000	Estonia	0.9120	Madagascar	1.0000	Sierra Leone	1.0000
Armenia	0.8761	Ethiopia	0.9266	Malawi	1.0000	Slovakia	0.9676
Australia	1.0000	Finland	1.0000	Malaysia	0.9637	Slovenia	1.0000
Austria	1.0000	France	1.0000	Mali	1.0000	South Africa	0.7651
Azerbaijan	0.7257	Gabon	1.0000	Mauritania	0.9657	South Korea	1.0000
Bangladesh	1.0000	Gambia	0.9783	Mexico	0.5572	Spain	0.6417
Belarus	0.9398	Georgia	0.9329	Moldova	0.7543	Sri Lanka	0.8433
Belgium	0.9255	Germany	0.7653	Mongolia	0.9521	Sudan	1.0000
Benin	0.8990	Ghana	0.8431	Morocco	0.3466	Sweden	1.0000
Bolivia	1.0000	Greece	1.0000	Mozambique	1.0000	Switzerland	1.0000
Botswana	1.0000	Guatemala	0.8843	Namibia	1.0000	Syria	0.8648
Brazil	1.0000	Guinea	1.0000	Nepal	0.8903	Tajikistan	0.9364
Bulgaria	0.9421	Guinea Bis.	1.0000	Netherlands	0.8981	Tanzania	0.7326
Burkina Faso	0.7769	Honduras	0.8166	New Zealand	1.0000	Thailand	0.9715
Burundi	0.8645	Hungary	0.8491	Nicaragua	1.0000	Togo	0.8478
C. African R.	1.0000	India	0.0037	Niger	0.9174	Tunisia	0.7726
Cambodia	1.0000	Indonesia	1.0000	Nigeria	1.0000	Turkey	0.0000
Cameroon	1.0000	Iran	0.8959	Norway	1.0000	UAE	0.7730
Canada	1.0000	Ireland	0.9899	Oman	0.9034	Uganda	1.0000
Chad	1.0000	Israel	0.8387	Pakistan	0.9703	UK	1.0000
Chile	1.0000	Italy	0.9631	Panama	1.0000	Ukraine	0.5841
China	0.9536	Japan	1.0000	Papua N.G.	1.0000	Uruguay	1.0000
Colombia	0.9298	Jordan	0.5538	Paraguay	1.0000	USA	0.8759
Congo	1.0000	Kazakhstan	0.6682	Peru	0.7952	Uzbekistan	0.6022
Cote d'Ivoire	0.8998	Kenya	1.0000	Philippines	1.0000	Venezuela	0.8350
Croatia	1.0000	Kuwait	1.0000	Poland	0.7068	Vietnam	0.9331
Czech Rep.	0.6065	Kyrgyzstan	0.8302	Portugal	1.0000	Yemen	1.0000
D.R. Congo	1.0000	Laos	1.0000	Romania	0.8792	Zambia	1.0000
Denmark	1.0000	Latvia	0.8636	Russia	1.0000	Zimbabwe	0.7371

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8916	Min	0.0000	Std. Deviation	0.1720	5 Percentile	0.5905
Missing	0	Median	0.9647	Max	1.0000			95 Percentile	1.0000



**Indicator: Military spending****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Policy**Tertiary indicator:** Pressure**Explanation:** Military expenditures are derived from the NATO definition, which includes all current and capital expenditures on the armed forces, including peacekeeping forces; defense ministries and other government agencies engaged in defense projects; paramilitary forces, if these are judged to be trained and equipped for military operations; and military space activities. Such expenditures include military and civil personnel, including retirement pensions of military personnel and social services for personnel; operation and maintenance; procurement; military research and development; and military aid (in the military expenditures of the donor country). Excluded are civil defense and current expenditures for previous military activities, such as for veterans' benefits, demobilization, conversion, and destruction of weapons.**Sources:** World Bank (<http://data.worldbank.org/indicator/MS.MIL.XPND.GD.ZS>)**Period:** 1990-2011**Units:** percent of GDP**Most recent data**

Albania	1.5192	Ecuador	3.4999	Lebanon	4.3744	Rwanda	1.2125
Algeria	4.5851	Egypt	1.8624	Lithuania	1.0377	Saudi Arabia	8.4135
Angola	3.4969	El Salvador	0.9630	Macedonia, FYR	1.2691	Senegal	1.5524
Argentina	0.7351	Estonia	1.6676	Madagascar	0.7274	Sierra Leone	0.8943
Armenia	4.0343	Ethiopia	1.0840	Malawi	1.1406	Slovakia	1.1005
Australia	1.8516	Finland	1.5082	Malaysia	1.5931	Slovenia	1.4423
Austria	0.8570	France	2.2488	Mali	1.7950	South Africa	1.2517
Azerbaijan	4.8972	Gabon	0.9484	Mauritania	3.7900	South Korea	2.7574
Bangladesh	1.3348	Gambia	0.5687	Mexico	0.5215	Spain	1.0249
Belarus	1.0854	Georgia	2.9634	Moldova	0.2981	Sri Lanka	2.6289
Belgium	1.0859	Germany	1.2946	Mongolia	0.9295	Sudan	4.3720
Benin	1.0200	Ghana	0.2514	Morocco	3.3353	Sweden	1.2631
Bolivia	1.4675	Greece	2.8077	Mozambique	0.8715	Switzerland	0.8226
Botswana	2.1403	Guatemala	0.4259	Namibia	3.4114	Syria	3.9455
Brazil	1.4296	Guinea	2.2310	Nepal	1.4091	Tajikistan	2.1728
Bulgaria	1.4774	Guinea Bis.	2.1151	Netherlands	1.4052	Tanzania	1.0711
Burkina Faso	1.3393	Honduras	1.0623	New Zealand	1.1187	Thailand	1.5939
Burundi	2.7059	Hungary	0.9893	Nicaragua	0.5873	Togo	1.6303
C. African R.	2.5974	India	2.5449	Niger	0.8732	Tunisia	1.3217
Cambodia	1.4999	Indonesia	0.6730	Nigeria	0.9774	Turkey	2.3061
Cameroon	1.3772	Iran	1.9198	Norway	1.5951	UAE	5.3962
Canada	1.4247	Ireland	0.5977	Oman	5.9783	Uganda	1.6336
Chad	2.2832	Israel	6.7680	Pakistan	3.0112	UK	2.5800
Chile	3.2346	Italy	1.5682	Panama	0.9776	Ukraine	2.4682
China	1.9519	Japan	1.0206	Papua N.G.	0.4727	Uruguay	1.9306
Colombia	3.2802	Jordan	4.7420	Paraguay	1.0570	USA	4.7456
Congo	1.1126	Kazakhstan	0.9539	Peru	1.1874	Uzbekistan	0.5384
Cote d'Ivoire	1.4877	Kenya	1.5354	Philippines	1.0751	Venezuela	0.7535
Croatia	1.7463	Kuwait	3.1948	Poland	1.8861	Vietnam	2.1736
Czech Rep.	1.1421	Kyrgyzstan	4.2066	Portugal	1.9619	Yemen	4.4457
D.R. Congo	1.5254	Laos	0.2259	Romania	1.1304	Zambia	1.5918
Denmark	1.4564	Latvia	1.0451	Russia	3.8692	Zimbabwe	1.5845

**Descriptive Statistics - based on most recent data**

Available	128	Mean	1.9606	Min	0.2259	Std. Deviation	1.3956	5 Percentile	0.5490
Missing	0	Median	1.5041	Max	8.4135			95 Percentile	4.6871

## Normalization

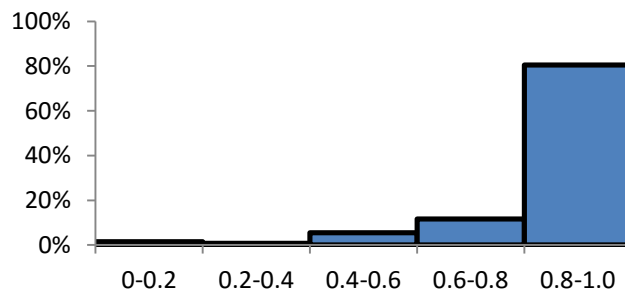
Type *SB (smaller is better)* Parameters *T=1.5471* *U=8.4135*  
 Comments *T=average of EU-14* *U=max*

## Smoothed data

Albania	1.0000	Ecuador	0.7120	Lebanon	0.5945	Rwanda	0.9948
Algeria	0.5583	Egypt	0.9541	Lithuania	1.0000	Saudi Arabia	0.0096
Angola	0.6366	El Salvador	1.0000	Macedonia, FYR	0.9493	Senegal	0.9957
Argentina	1.0000	Estonia	0.9814	Madagascar	1.0000	Sierra Leone	0.9969
Armenia	0.6334	Ethiopia	1.0000	Malawi	1.0000	Slovakia	1.0000
Australia	0.9557	Finland	1.0000	Malaysia	0.9924	Slovenia	1.0000
Austria	1.0000	France	0.8978	Mali	0.9639	South Africa	1.0000
Azerbaijan	0.6464	Gabon	1.0000	Mauritania	0.7064	South Korea	0.8237
Bangladesh	1.0000	Gambia	1.0000	Mexico	1.0000	Spain	1.0000
Belarus	1.0000	Georgia	0.7937	Moldova	1.0000	Sri Lanka	0.8424
Belgium	1.0000	Germany	1.0000	Mongolia	1.0000	Sudan	0.5913
Benin	1.0000	Ghana	1.0000	Morocco	0.7350	Sweden	1.0000
Bolivia	0.9903	Greece	0.8220	Mozambique	1.0000	Switzerland	1.0000
Botswana	0.9136	Guatemala	1.0000	Namibia	0.7285	Syria	0.6503
Brazil	1.0000	Guinea	0.9004	Nepal	1.0000	Tajikistan	0.9457
Bulgaria	1.0000	Guinea Bis.	0.8793	Netherlands	1.0000	Tanzania	1.0000
Burkina Faso	1.0000	Honduras	1.0000	New Zealand	1.0000	Thailand	0.9934
Burundi	0.8235	Hungary	1.0000	Nicaragua	1.0000	Togo	0.9811
C. African R.	0.8470	India	0.8547	Niger	1.0000	Tunisia	1.0000
Cambodia	0.9999	Indonesia	1.0000	Nigeria	1.0000	Turkey	0.8857
Cameroon	0.9998	Iran	0.9457	Norway	0.9933	UAE	0.4394
Canada	1.0000	Ireland	1.0000	Oman	0.1097	Uganda	0.9874
Chad	0.8928	Israel	0.2398	Pakistan	0.7868	UK	0.8496
Chile	0.7542	Italy	0.9969	Panama	1.0000	Ukraine	0.8616
China	0.9411	Japan	1.0000	Papua N.G.	1.0000	Uruguay	0.9397
Colombia	0.7161	Jordan	0.5127	Paraguay	1.0000	USA	0.5342
Congo	0.9999	Kazakhstan	1.0000	Peru	1.0000	Uzbekistan	0.9985
Cote d'Ivoire	0.9886	Kenya	1.0000	Philippines	1.0000	Venezuela	0.9994
Croatia	0.9710	Kuwait	0.7600	Poland	0.9526	Vietnam	0.9088
Czech Rep.	1.0000	Kyrgyzstan	0.6127	Portugal	0.9396	Yemen	0.5751
D.R. Congo	1.0000	Laos	1.0000	Romania	1.0000	Zambia	0.9887
Denmark	1.0000	Latvia	0.9995	Russia	0.6578	Zimbabwe	0.9765

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8985	Min	0.0096	Std. Deviation	0.1818	5 Percentile	0.5642
Missing	0	Median	0.9969	Max	1.0000			95 Percentile	1.0000



## Indicator: Mortality from poor air quality

**Primary indicator:** Ecological Sustainability (ECOS), Human Sustainability (HUMS)

**Secondary indicator:** Air, Health

**Tertiary indicator:** Pressure, State

**Explanation:** Disease burden attributable to air-related environmental risk factor. The number of deaths from poor air quality refers to outdoor air pollution, as well as indoor air pollution (mainly the disease burden by household exposures to indoor smoke from solid fuels). A large number of important disease conditions have been linked to air pollution.

**Sources:** World Health Organization ([http://www.who.int/quantifying\\_ehimpacts/en](http://www.who.int/quantifying_ehimpacts/en))

**Period:** 1990-2011

**Units:** number of deaths per 100,000 population

### Most recent data

Albania	79.5922	Ecuador	46.8380	Lebanon	166.8684	Rwanda	1,003.3296
Algeria	73.5624	Egypt	222.6716	Lithuania	202.0183	Saudi Arabia	102.0418
Angola	1,805.2157	El Salvador	109.1190	Macedonia, FYR	97.7699	Senegal	639.2913
Argentina	321.2164	Estonia	74.7389	Madagascar	727.1051	Sierra Leone	1,679.1131
Armenia	553.3971	Ethiopia	851.2053	Malawi	1,170.9079	Slovakia	74.0990
Australia	35.8167	Finland	38.4804	Malaysia	22.9498	Slovenia	151.0656
Austria	135.6182	France	80.2010	Mali	1,394.3090	South Africa	44.6836
Azerbaijan	385.6956	Gabon	153.1265	Mauritania	890.5868	South Korea	143.3685
Bangladesh	376.8901	Gambia	576.1804	Mexico	94.1500	Spain	141.5417
Belarus	20.1211	Georgia	444.2609	Moldova	257.5880	Sri Lanka	216.8201
Belgium	194.2542	Germany	126.1915	Mongolia	117.2136	Sudan	246.3636
Benin	1,006.3508	Ghana	302.8644	Morocco	43.2300	Sweden	56.3868
Bolivia	254.4800	Greece	255.2532	Mozambique	571.8228	Switzerland	111.5542
Botswana	115.8318	Guatemala	307.4177	Namibia	152.9704	Syria	115.0672
Brazil	96.4499	Guinea	143.5573	Nepal	333.2132	Tajikistan	338.9819
Bulgaria	439.4272	Guinea Bis.	897.2454	Netherlands	224.0634	Tanzania	785.6347
Burkina Faso	1,790.1940	Honduras	147.4777	New Zealand	26.0032	Thailand	118.9838
Burundi	1,030.0426	Hungary	191.4785	Nicaragua	149.9519	Togo	895.6730
C. African R.	772.4426	India	502.7869	Niger	1,221.3979	Tunisia	82.2344
Cambodia	130.3448	Indonesia	203.1030	Nigeria	774.9489	Turkey	302.9082
Cameroun	947.2834	Iran	135.1542	Norway	88.6194	UAE	136.1936
Canada	86.3418	Ireland	12.7850	Oman	108.3703	Uganda	799.8877
Chad	1,114.0787	Israel	237.9385	Pakistan	663.0610	UK	209.9277
Chile	147.3106	Italy	146.1317	Panama	81.6054	Ukraine	314.9179
China	503.9518	Japan	186.6995	Papua N.G.	286.4223	Uruguay	383.3763
Colombia	105.6829	Jordan	93.8296	Paraguay	121.9493	USA	141.5623
Congo	330.3071	Kazakhstan	151.9193	Peru	171.8554	Uzbekistan	373.4612
Cote d'Ivoire	611.0591	Kenya	431.1927	Philippines	137.4391	Venezuela	3.9641
Croatia	202.7694	Kuwait	122.7788	Poland	155.3516	Vietnam	210.5179
Czech Rep.	165.9234	Kyrgyzstan	394.7034	Portugal	189.0813	Yemen	414.1788
D.R. Congo	976.5427	Laos	443.1018	Romania	433.2796	Zambia	906.7166
Denmark	112.1199	Latvia	21.4675	Russia	260.9632	Zimbabwe	194.7781

### Descriptive Statistics - based on most recent data

Available	128	Mean	356.6243	Min	3.9641	Std. Deviation	376.8228	5 Percentile	36.7490
Missing	0	Median	198.3982	Max	1,805.2157			95 Percentile	1,084.6660



## Normalization

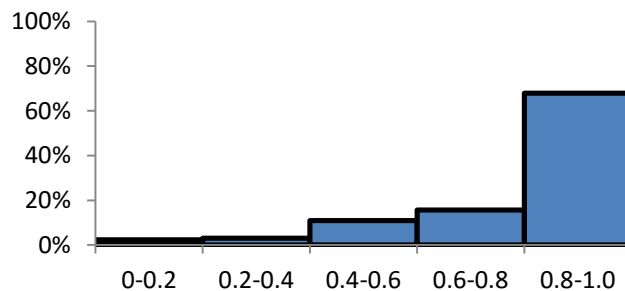
Type *SB (smaller is better)* Parameters *T=12.7850* *U=1,805.2157*  
 Comments *T=minimum of EU-14* *U=max*

## Smoothed data

Albania	0.9627	Ecuador	0.9810	Lebanon	0.9140	Rwanda	0.4474
Algeria	0.9661	Egypt	0.8829	Lithuania	0.8944	Saudi Arabia	0.9502
Angola	0.0000	El Salvador	0.9463	Macedonia, FYR	0.9526	Senegal	0.6505
Argentina	0.8279	Estonia	0.9654	Madagascar	0.6015	Sierra Leone	0.0704
Armenia	0.6984	Ethiopia	0.5322	Malawi	0.3539	Slovakia	0.9658
Australia	0.9872	Finland	0.9857	Malaysia	0.9943	Slovenia	0.9229
Austria	0.9315	France	0.9624	Mali	0.2292	South Africa	0.9822
Azerbaijan	0.7920	Gabon	0.9217	Mauritania	0.5103	South Korea	0.9271
Bangladesh	0.7969	Gambia	0.6857	Mexico	0.9546	Spain	0.9282
Belarus	0.9959	Georgia	0.7593	Moldova	0.8634	Sri Lanka	0.8862
Belgium	0.8988	Germany	0.9367	Mongolia	0.9417	Sudan	0.8697
Benin	0.4457	Ghana	0.8382	Morocco	0.9830	Sweden	0.9757
Bolivia	0.8652	Greece	0.8647	Mozambique	0.6881	Switzerland	0.9449
Botswana	0.9425	Guatemala	0.8356	Namibia	0.9218	Syria	0.9429
Brazil	0.9533	Guinea	0.9270	Nepal	0.8212	Tajikistan	0.8180
Bulgaria	0.7620	Guinea Bis.	0.5066	Netherlands	0.8821	Tanzania	0.5688
Burkina Faso	0.0084	Honduras	0.9249	New Zealand	0.9926	Thailand	0.9408
Burundi	0.4325	Hungary	0.9003	Nicaragua	0.9235	Togo	0.5074
C. African R.	0.5762	India	0.7266	Niger	0.3257	Tunisia	0.9613
Cambodia	0.9344	Indonesia	0.8938	Nigeria	0.5748	Turkey	0.8381
Cameroon	0.4786	Iran	0.9317	Norway	0.9577	UAE	0.9312
Canada	0.9590	Ireland	1.0000	Oman	0.9467	Uganda	0.5609
Chad	0.3856	Israel	0.8744	Pakistan	0.6372	UK	0.8900
Chile	0.9249	Italy	0.9256	Panama	0.9616	Ukraine	0.8314
China	0.7260	Japan	0.9030	Papua N.G.	0.8473	Uruguay	0.7932
Colombia	0.9482	Jordan	0.9548	Paraguay	0.9391	USA	0.9282
Congo	0.8229	Kazakhstan	0.9224	Peru	0.9113	Uzbekistan	0.7988
Cote d'Ivoire	0.6662	Kenya	0.7666	Philippines	0.9305	Venezuela	1.0000
Croatia	0.8940	Kuwait	0.9386	Poland	0.9205	Vietnam	0.8897
Czech Rep.	0.9146	Kyrgyzstan	0.7869	Portugal	0.9016	Yemen	0.7761
D.R. Congo	0.4623	Laos	0.7599	Romania	0.7654	Zambia	0.5013
Denmark	0.9446	Latvia	0.9952	Russia	0.8615	Zimbabwe	0.8985

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8081	Min	0.0000	Std. Deviation	0.2102	5 Percentile	0.4020
Missing	0	Median	0.8964	Max	1.0000			95 Percentile	0.9866



## Indicator: **Municipal waste generation**

**Primary indicator:** Ecological Sustainability (ECOS)

**Secondary indicator:** Land

**Tertiary indicator:** Pressure

**Explanation:** Waste collected and treated by or for municipalities. It covers waste from households (including bulky waste), similar waste from commerce and trade, office buildings, institutions and small businesses, yard and garden waste, street sweepings, the contents of litter containers, and market cleaning waste. The definition excludes waste from municipal sewage networks and treatment, as well as municipal construction and demolition waste. Reducing waste generation improves land sustainability.

**Sources:** European Environment Agency (<http://dataservice.eea.europa.eu/atlas/viewdata/viewpub.asp?id=1739>); United Nations Environment Programme (<http://geodata.grid.unep.ch>); UN Statistics Division (<http://unstats.un.org/unsd/environment>)

**Period:** 1990-2011

**Units:** kg per capita per year

### Most recent data

Albania	203.8205	Ecuador	-	Lebanon	361.1338	Rwanda	270.0000*
Algeria	266.7400	Egypt	202.7453	Lithuania	403.4397	Saudi Arabia	-
Angola	270.0000*	El Salvador	-	Macedonia, FYR	-	Senegal	41.2187
Argentina	-	Estonia	535.4284	Madagascar	22.5422	Sierra Leone	270.0000*
Armenia	127.5529	Ethiopia	270.0000*	Malawi	270.0000*	Slovakia	309.4053
Australia	690.0000	Finland	506.3181	Malaysia	305.7700	Slovenia	440.7675
Austria	595.8830	France	570.9077	Mali	270.0000*	South Africa	430.0000
Azerbaijan	188.9588	Gabon	270.0000*	Mauritania	270.0000*	South Korea	380.0000
Bangladesh	188.1700	Gambia	270.0000*	Mexico	339.1360	Spain	593.7169
Belarus	331.1751	Georgia	196.1972	Moldova	496.1186	Sri Lanka	335.8000
Belgium	494.8342	Germany	564.0823	Mongolia	217.4000	Sudan	270.0000*
Benin	138.6208	Ghana	270.0000*	Morocco	163.4600	Sweden	515.0047
Bolivia	89.1398	Greece	450.1561	Mozambique	270.0000*	Switzerland	726.7181
Botswana	270.0000*	Guatemala	51.2333	Namibia	270.0000*	Syria	417.7831
Brazil	270.5239	Guinea	270.0000*	Nepal	193.1000	Tajikistan	-
Bulgaria	470.2239	Guinea Bis.	270.0000*	Netherlands	627.7112	Tanzania	270.0000*
Burkina Faso	270.0000*	Honduras	270.0000	New Zealand	635.0000	Thailand	399.1000
Burundi	270.0000*	Hungary	457.9164	Nicaragua	-	Togo	270.0000*
C. African R.	270.0000*	India	106.0000	Niger	744.1669	Tunisia	134.4437
Cambodia	-	Indonesia	305.0000	Nigeria	270.0000*	Turkey	410.9381
Cameroon	270.0000*	Iran	-	Norway	817.5241	UAE	471.0000
Canada	414.0000	Ireland	778.6685	Oman	-	Uganda	7.5624
Chad	270.0000*	Israel	623.3836	Pakistan	-	UK	571.1077
Chile	323.8357	Italy	552.6712	Panama	133.5190	Ukraine	94.7839
China	120.0000	Japan	400.0000	Papua N.G.	-	Uruguay	274.0155
Colombia	482.6013	Jordan	401.8730	Paraguay	-	USA	736.1507
Congo	270.0000*	Kazakhstan	-	Peru	179.8100	Uzbekistan	-
Cote d'Ivoire	270.0000*	Kenya	270.0000*	Philippines	327.7000	Venezuela	-
Croatia	427.0664	Kuwait	310.0023	Poland	321.6180	Vietnam	220.6300
Czech Rep.	294.5960	Kyrgyzstan	310.3191	Portugal	470.5385	Yemen	64.9773
D.R. Congo	270.0000*	Laos	274.0000	Romania	381.4918	Zambia	33.1221
Denmark	801.4442	Latvia	379.4908	Russia	440.0000	Zimbabwe	270.0000*

\* denotes estimated values

### Descriptive Statistics - based on most recent data

Available	112	Mean	340.9375	Min	7.5624	Std. Deviation	176.5250	5 Percentile	78.2667
Missing	16	Median	272.2619	Max	817.5241			95 Percentile	706.5231

## Normalization

Type SB (smaller is better)

Parameters

T=300.0000

U=817.5241

Comments

T=EU target of annual waste generation

U=max

## Smoothed data

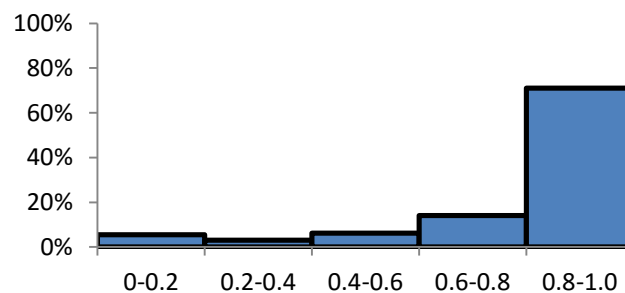
Albania	1.0000	Ecuador	1.0000**	Lebanon	0.8819	Rwanda	1.0000*
Algeria	1.0000	Egypt	1.0000	Lithuania	0.8272	Saudi Arabia	1.0000**
Angola	1.0000*	El Salvador	1.0000**	Macedonia, FYR	0.8425**	Senegal	1.0000
Argentina	0.9903**	Estonia	0.5756	Madagascar	1.0000	Sierra Leone	1.0000*
Armenia	1.0000	Ethiopia	1.0000*	Malawi	1.0000*	Slovakia	0.9818
Australia	0.2464	Finland	0.6013	Malaysia	0.9889	Slovenia	0.7280
Austria	0.4240	France	0.4765	Mali	1.0000*	South Africa	0.7488
Azerbaijan	1.0000	Gabon	1.0000*	Mauritania	1.0000*	South Korea	0.8454
Bangladesh	1.0000	Gambia	1.0000*	Mexico	0.9624	Spain	0.4325
Belarus	0.9398	Georgia	1.0000	Moldova	0.6210	Sri Lanka	0.9308
Belgium	0.6330	Germany	0.4897	Mongolia	1.0000	Sudan	1.0000*
Benin	1.0000	Ghana	1.0000*	Morocco	1.0000	Sweden	0.5846
Bolivia	1.0000	Greece	0.7099	Mozambique	1.0000*	Switzerland	0.1755
Botswana	1.0000*	Guatemala	1.0000	Namibia	1.0000*	Syria	0.7724
Brazil	0.9708	Guinea	1.0000*	Nepal	1.0000	Tajikistan	0.9857**
Bulgaria	0.6711	Guinea Bis.	1.0000*	Netherlands	0.3668	Tanzania	1.0000*
Burkina Faso	1.0000*	Honduras	1.0000	New Zealand	0.3527	Thailand	0.8085
Burundi	1.0000*	Hungary	0.6949	Nicaragua	1.0000**	Togo	1.0000*
C. African R.	1.0000*	India	1.0000	Niger	0.1417	Tunisia	1.0000
Cambodia	0.9952**	Indonesia	0.9903	Nigeria	1.0000*	Turkey	0.7839
Cameroon	1.0000*	Iran	0.9857**	Norway	0.0000	UAE	0.6696
Canada	0.7797	Ireland	0.0751	Oman	0.6696**	Uganda	1.0000
Chad	1.0000*	Israel	0.3785	Pakistan	0.1417**	UK	0.4761
Chile	0.9516	Italy	0.5118	Panama	1.0000	Ukraine	1.0000
China	1.0000	Japan	0.7971	Papua N.G.	0.9789**	Uruguay	1.0000
Colombia	0.6472	Jordan	0.8030	Paraguay	1.0000**	USA	0.1705
Congo	1.0000*	Kazakhstan	1.0000**	Peru	1.0000	Uzbekistan	0.9857**
Cote d'Ivoire	1.0000*	Kenya	1.0000*	Philippines	0.9465	Venezuela	1.0000**
Croatia	0.7545	Kuwait	0.9807	Poland	0.9582	Vietnam	1.0000
Czech Rep.	0.9981	Kyrgyzstan	0.9857	Portugal	0.6705	Yemen	1.0000
D.R. Congo	1.0000*	Laos	1.0000	Romania	0.8425	Zambia	1.0000
Denmark	0.0311	Latvia	0.8521	Russia	0.7295	Zimbabwe	1.0000*

\* denotes estimated values

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8433	Min	0.0000	Std. Deviation	0.2539	5 Percentile	0.2003
Missing	0	Median	0.9991	Max	1.0000			95 Percentile	1.0000



## Indicator: Nuclear waste generation

**Primary indicator:** Ecological Sustainability (ECOS)

**Secondary indicator:** Land

**Tertiary indicator:** Pressure

**Explanation:** Nuclear waste is primarily due to spent fuel from nuclear power plants. It is assumed that nuclear waste influences land sustainability negatively due mainly to generation of heavy radioactive metals.

**Sources:** OECD (2005a); United Nations Environment Programme ([http://geodata.grid.unep.ch/mod\\_download/download\\_xls.php?selectedID=1543](http://geodata.grid.unep.ch/mod_download/download_xls.php?selectedID=1543))

**Period:** 1990-2011

**Units:** tons of heavy radioactive metals per capita per year

### Most recent data

Albania	0.0000*	Ecuador	0.0000*	Lebanon	0.0000*	Rwanda	0.0000*
Algeria	0.0000*	Egypt	0.0000*	Lithuania	-	Saudi Arabia	0.0000*
Angola	0.0000*	El Salvador	0.0000*	Macedonia, FYR	0.0000*	Senegal	0.0000*
Argentina	-	Estonia	0.0000*	Madagascar	0.0000*	Sierra Leone	0.0000*
Armenia	0.0000	Ethiopia	0.0000*	Malawi	0.0000*	Slovakia	0.0108
Australia	0.0000	Finland	0.0406	Malaysia	0.0000*	Slovenia	-
Austria	0.0000	France	0.0181	Mali	0.0000*	South Africa	-
Azerbaijan	0.0000*	Gabon	0.0000*	Mauritania	0.0000*	South Korea	0.0126
Bangladesh	0.0000*	Gambia	0.0000*	Mexico	0.0002	Spain	0.0036
Belarus	0.0593	Georgia	0.0000*	Moldova	0.0593	Sri Lanka	0.0000*
Belgium	0.0109	Germany	0.0051	Mongolia	0.0000*	Sudan	0.0000*
Benin	0.0000*	Ghana	0.0000*	Morocco	0.0000*	Sweden	0.0222
Bolivia	0.0000*	Greece	0.0000	Mozambique	0.0000*	Switzerland	0.0086
Botswana	0.0000*	Guatemala	0.0000*	Namibia	0.0000*	Syria	0.0000*
Brazil	-	Guinea	0.0000*	Nepal	0.0000*	Tajikistan	0.0000*
Bulgaria	0.0593	Guinea Bis.	0.0000*	Netherlands	0.0006	Tanzania	0.0000*
Burkina Faso	0.0000*	Honduras	0.0000*	New Zealand	0.0000	Thailand	0.0000*
Burundi	-	Hungary	0.0047	Nicaragua	0.0000*	Togo	0.0000*
C. African R.	0.0000*	India	-	Niger	0.0000*	Tunisia	0.0000*
Cambodia	0.0000*	Indonesia	0.0000*	Nigeria	0.0000*	Turkey	0.0000
Cameroon	0.0000*	Iran	-	Norway	0.0000	UAE	0.0000*
Canada	0.0464	Ireland	0.0000	Oman	0.0000*	Uganda	0.0000*
Chad	0.0000*	Israel	-	Pakistan	-	UK	0.0123
Chile	0.0000*	Italy	0.0000	Panama	0.0000*	Ukraine	0.0593
China	-	Japan	0.0077	Papua N.G.	0.0000*	Uruguay	0.0000*
Colombia	0.0000*	Jordan	0.0000*	Paraguay	0.0000*	USA	0.0073
Congo	0.0000*	Kazakhstan	0.0000*	Peru	0.0000*	Uzbekistan	0.0000*
Cote d'Ivoire	0.0000*	Kenya	0.0000*	Philippines	0.0000*	Venezuela	0.0000*
Croatia	0.0000*	Kuwait	0.0000*	Poland	0.0000	Vietnam	0.0000*
Czech Rep.	0.0061	Kyrgyzstan	0.0000*	Portugal	0.0000	Yemen	0.0000*
D.R. Congo	-	Laos	0.0000*	Romania	-	Zambia	0.0000*
Denmark	0.0000	Latvia	0.0000*	Russia	0.0593	Zimbabwe	0.0000*

\* denotes estimated values

### Descriptive Statistics - based on most recent data

Available	115	Mean	0.0045	Min	0.0000	Std. Deviation	0.0135	5 Percentile	0.0000
Missing	13	Median	0.0000	Max	0.0593			95 Percentile	0.0424

## Normalization

Type SB (smaller is better) Parameters T=0.0000 U=0.0593  
 Comments T=min U=max

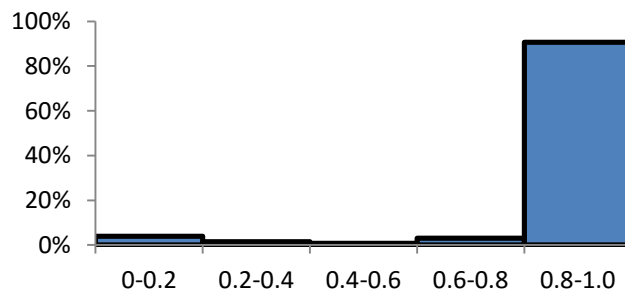
## Smoothed data

Albania	1.0000*	Ecuador	1.0000*	Lebanon	1.0000*	Rwanda	1.0000*
Algeria	1.0000*	Egypt	1.0000*	Lithuania	1.0000**	Saudi Arabia	1.0000*
Angola	1.0000*	El Salvador	1.0000*	Macedonia, FYR	1.0000*	Senegal	1.0000*
Argentina	1.0000**	Estonia	1.0000*	Madagascar	1.0000*	Sierra Leone	1.0000*
Armenia	1.0000	Ethiopia	1.0000*	Malawi	1.0000*	Slovakia	0.8221
Australia	1.0000	Finland	0.3459	Malaysia	1.0000*	Slovenia	1.0000**
Austria	1.0000	France	0.6887	Mali	1.0000*	South Africa	1.0000**
Azerbaijan	1.0000*	Gabon	1.0000*	Mauritania	1.0000*	South Korea	0.7874
Bangladesh	1.0000*	Gambia	1.0000*	Mexico	0.9966	Spain	0.9357
Belarus	0.0000	Georgia	1.0000*	Moldova	0.0000	Sri Lanka	1.0000*
Belgium	0.8122	Germany	0.9141	Mongolia	1.0000*	Sudan	1.0000*
Benin	1.0000*	Ghana	1.0000*	Morocco	1.0000*	Sweden	0.5475
Bolivia	1.0000*	Greece	1.0000	Mozambique	1.0000*	Switzerland	0.8548
Botswana	1.0000*	Guatemala	1.0000*	Namibia	1.0000*	Syria	1.0000*
Brazil	1.0000**	Guinea	1.0000*	Nepal	1.0000*	Tajikistan	1.0000*
Bulgaria	0.0000	Guinea Bis.	1.0000*	Netherlands	0.9895	Tanzania	1.0000*
Burkina Faso	1.0000*	Honduras	1.0000*	New Zealand	1.0000	Thailand	1.0000*
Burundi	1.0000**	Hungary	0.9207	Nicaragua	1.0000*	Togo	1.0000*
C. African R.	1.0000*	India	1.0000**	Niger	1.0000*	Tunisia	1.0000*
Cambodia	1.0000*	Indonesia	1.0000*	Nigeria	1.0000*	Turkey	1.0000
Cameroon	1.0000*	Iran	1.0000**	Norway	1.0000	UAE	1.0000*
Canada	0.2163	Ireland	1.0000	Oman	1.0000*	Uganda	1.0000*
Chad	1.0000*	Israel	1.0000**	Pakistan	1.0000**	UK	0.7940
Chile	1.0000*	Italy	1.0000	Panama	1.0000*	Ukraine	0.0000
China	1.0000**	Japan	0.8705	Papua N.G.	1.0000*	Uruguay	1.0000*
Colombia	1.0000*	Jordan	1.0000*	Paraguay	1.0000*	USA	0.8779
Congo	1.0000*	Kazakhstan	1.0000*	Peru	1.0000*	Uzbekistan	1.0000*
Cote d'Ivoire	1.0000*	Kenya	1.0000*	Philippines	1.0000*	Venezuela	1.0000*
Croatia	1.0000*	Kuwait	1.0000*	Poland	1.0000	Vietnam	1.0000*
Czech Rep.	0.8971	Kyrgyzstan	1.0000*	Portugal	1.0000	Yemen	1.0000*
D.R. Congo	1.0000**	Laos	1.0000*	Romania	0.6059**	Zambia	1.0000*
Denmark	1.0000	Latvia	1.0000*	Russia	0.0000	Zimbabwe	1.0000*

\* denotes estimated values \*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.9287	Min	0.0000	Std. Deviation	0.2189	5 Percentile	0.4165
Missing	0	Median	1.0000	Max	1.0000			95 Percentile	1.0000



**Indicator: Number of doctors****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Health**Tertiary indicator:** Response**Explanation:** The term doctors includes physicians that are defined as graduates of any faculty or school of medicine who are working in the country in any medical field (practice, teaching, research).**Sources:** World Bank (<http://data.worldbank.org/indicator/SH.MED.PHYS.ZS>)**Period:** 1990-2011**Units:** number of doctors per thousand people**Most recent data**

Albania	1.1130	Ecuador	1.6870	Lebanon	3.5400	Rwanda	0.0560
Algeria	1.2070	Egypt	2.8300	Lithuania	3.6410	Saudi Arabia	0.9390
Angola	0.1660	El Salvador	1.5960	Macedonia, FYR	2.6270	Senegal	0.0590
Argentina	3.2100	Estonia	3.3430	Madagascar	0.1610	Sierra Leone	0.0220
Armenia	2.8450	Ethiopia	0.0220	Malawi	0.0190	Slovakia	3.0000
Australia	3.8510	Finland	2.9050	Malaysia	1.1980	Slovenia	2.5420
Austria	4.8620	France	3.3810	Mali	0.0830	South Africa	0.7580
Azerbaijan	3.3790	Gabon	0.2920	Mauritania	0.1300	South Korea	2.0240
Bangladesh	0.3560	Gambia	0.0380	Mexico	1.9590	Spain	3.9610
Belarus	3.7560	Georgia	4.2430	Moldova	3.6430	Sri Lanka	0.4920
Belgium	3.7820	Germany	3.6890	Mongolia	2.7630	Sudan	0.2800
Benin	0.0590	Ghana	0.0850	Morocco	0.6200	Sweden	3.7700
Bolivia	1.2180	Greece	6.1670	Mozambique	0.0260	Switzerland	4.0820
Botswana	0.3360	Guatemala	0.9320	Namibia	0.3740	Syria	1.5000
Brazil	1.7640	Guinea	0.1000	Nepal	0.2090	Tajikistan	1.8990
Bulgaria	3.7600	Guinea Bis.	0.0450	Netherlands	2.8590	Tanzania	0.0080
Burkina Faso	0.0470	Honduras	0.3720	New Zealand	2.7350	Thailand	0.3190
Burundi	0.0280	Hungary	3.4080	Nicaragua	0.3740	Togo	0.0530
C. African R.	0.0480	India	0.6490	Niger	0.0190	Tunisia	1.2220
Cambodia	0.2300	Indonesia	0.2040	Nigeria	0.3950	Turkey	1.7110
Cameroon	0.0770	Iran	0.8900	Norway	4.1590	UAE	1.9300
Canada	2.0690	Ireland	3.1730	Oman	2.0480	Uganda	0.1170
Chad	0.0370	Israel	3.1080	Pakistan	0.8130	UK	2.7650
Chile	1.0260	Italy	3.4860	Panama	1.5020	Ukraine	3.5170
China	1.8200	Japan	2.1420	Papua N.G.	0.0530	Uruguay	3.7360
Colombia	0.1470	Jordan	2.5580	Paraguay	1.1070	USA	2.4220
Congo	0.0950	Kazakhstan	3.8400	Peru	0.9200	Uzbekistan	2.5390
Cote d'Ivoire	0.1440	Kenya	0.1810	Philippines	1.1530	Venezuela	1.9390
Croatia	2.7150	Kuwait	1.7930	Poland	2.0680	Vietnam	1.2240
Czech Rep.	3.7080	Kyrgyzstan	2.4690	Portugal	3.8680	Yemen	0.1970
D.R. Congo	0.1070	Laos	0.2720	Romania	2.3850	Zambia	0.0660
Denmark	3.4240	Latvia	2.8990	Russia	4.3089	Zimbabwe	0.0620

**Descriptive Statistics - based on most recent data**

Available	128	Mean	1.6809	Min	0.0080	Std. Deviation	1.4911	5 Percentile	0.0312
Missing	0	Median	1.3620	Max	6.1670			95 Percentile	3.9285

## Normalization

Type *LB (larger is better)*

Parameters  $u=0.0080$   $\tau=3.7843$

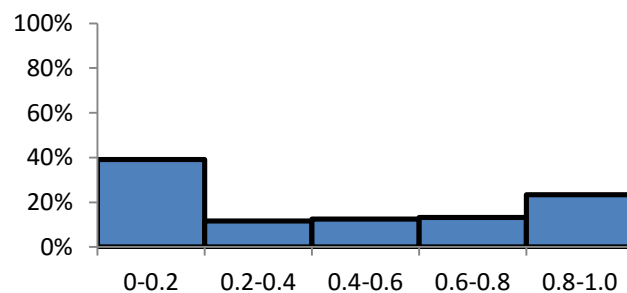
Comments  $u=\min$   $r=\text{average of Scandinavian countries}$

## Smoothed data

Albania	0.2946	Ecuador	0.4345	Lebanon	0.9353	Rwanda	0.0079
Algeria	0.3175	Egypt	0.7466	Lithuania	0.9620	Saudi Arabia	0.3319
Angola	0.0418	El Salvador	0.4205	Macedonia, FYR	0.6935	Senegal	0.0136
Argentina	0.8479	Estonia	0.8830	Madagascar	0.0422	Sierra Leone	0.0034
Armenia	0.8022	Ethiopia	0.0037	Malawi	0.0031	Slovakia	0.7923
Australia	0.6320	Finland	0.7666	Malaysia	0.3151	Slovenia	0.6706
Austria	1.0000	France	0.8997	Mali	0.0154	South Africa	0.1986
Azerbaijan	0.8927	Gabon	0.0752	Mauritania	0.0321	South Korea	0.5339
Bangladesh	0.0916	Gambia	0.0079	Mexico	0.5180	Spain	1.0000
Belarus	0.9925	Georgia	0.9998	Moldova	0.9626	Sri Lanka	0.1282
Belgium	0.9489	Germany	0.9748	Mongolia	0.7295	Sudan	0.0721
Benin	0.0121	Ghana	0.0217	Morocco	0.1621	Sweden	0.9962
Bolivia	0.3197	Greece	1.0000	Mozambique	0.0048	Switzerland	1.0000
Botswana	0.0869	Guatemala	0.2139	Namibia	0.0969	Syria	0.3158
Brazil	0.4599	Guinea	0.0244	Nepal	0.0532	Tajikistan	0.5008
Bulgaria	0.9933	Guinea Bis.	0.0119	Netherlands	0.7550	Tanzania	0.0000
Burkina Faso	0.0103	Honduras	0.1539	New Zealand	0.7221	Thailand	0.0824
Burundi	0.0053	Hungary	0.9003	Nicaragua	0.1771	Togo	0.0117
C. African R.	0.0115	India	0.1694	Niger	0.0029	Tunisia	0.3215
Cambodia	0.0583	Indonesia	0.0519	Nigeria	0.1025	Turkey	0.4420
Cameroon	0.0235	Iran	0.1980	Norway	1.0000	UAE	0.5090
Canada	0.5362	Ireland	0.8381	Oman	0.5402	Uganda	0.0289
Chad	0.0068	Israel	0.8209	Pakistan	0.2132	UK	0.7288
Chile	0.2900	Italy	0.9923	Panama	0.4088	Ukraine	0.9292
China	0.4090	Japan	0.5651	Papua N.G.	0.0119	Uruguay	0.9884
Colombia	0.3133	Jordan	0.6753	Paraguay	0.2910	USA	0.6397
Congo	0.0230	Kazakhstan	0.9995	Peru	0.2568	Uzbekistan	0.6702
Cote d'Ivoire	0.0360	Kenya	0.0458	Philippines	0.2794	Venezuela	0.5120
Croatia	0.7168	Kuwait	0.4724	Poland	0.5510	Vietnam	0.3220
Czech Rep.	0.9798	Kyrgyzstan	0.6517	Portugal	1.0000	Yemen	0.0564
D.R. Congo	0.0262	Laos	0.0818	Romania	0.6294	Zambia	0.0192
Denmark	0.9019	Latvia	0.7656	Russia	1.0000	Zimbabwe	0.0272

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.4318	Min	0.0000	Std. Deviation	0.3676	5 Percentile	0.0058
Missing	0	Median	0.3270	Max	1.0000			95 Percentile	0.9999





## Indicator: Ozone-depleting substances per capita

**Primary indicator:** Ecological Sustainability (ECOS)

**Secondary indicator:** Air

**Tertiary indicator:** Pressure

**Explanation:** Consumption in ozone depleting potential (ODP) metric tons. An ozone depleting substance is any substance containing chlorine or bromine, which destroys the stratospheric ozone layer that absorbs most of the biologically damaging ultraviolet radiation. Ozone depleting potential (ODP) refers to the amount of ozone depletion caused by a substance. ODP is defined as the ratio of the impact on stratospheric ozone of a substance to the impact of the same mass of CFC-11. CFC-11 has an ODP of 1.

**Sources:** United Nations - MDG Indicators (<http://mdgs.un.org/unsd/mdg/Data.aspx>)  
United Nations Environment Programme-Ozone Secretariat (<http://ozone.unep.org/>)

**Period:** 1990-2011

**Units:** ODP metric tons per capita

### Most recent data

Albania	0.0046	Ecuador	0.0216	Lebanon	0.0991	Rwanda	0.0015
Algeria	0.0291	Egypt	0.0182	Lithuania	0.0038	Saudi Arabia	0.0495
Angola	0.0037	El Salvador	0.0202	Macedonia, FYR	0.0067	Senegal	0.0034
Argentina	0.0001	Estonia	0.0028	Madagascar	0.0005	Sierra Leone	0.0049
Armenia	0.0288	Ethiopia	0.0003	Malawi	0.0006	Slovakia	0.0007
Australia	0.0083	Finland	0.0000*	Malaysia	0.0269	Slovenia	0.0033
Austria	0.0000	France	-	Mali	0.0020	South Africa	0.0153
Azerbaijan	0.0026	Gabon	0.0026	Mauritania	0.0024	South Korea	0.2373
Bangladesh	0.0020	Gambia	0.0006	Mexico	0.0370	Spain	-
Belarus	0.0001	Georgia	0.0077	Moldova	0.0036	Sri Lanka	0.0083
Belgium	-	Germany	-	Mongolia	0.0017	Sudan	0.0052
Benin	0.0012	Ghana	0.0011	Morocco	0.0197	Sweden	0.0000*
Bolivia	0.0032	Greece	-	Mozambique	0.0001	Switzerland	-0.0022
Botswana	0.0030	Guatemala	0.0465	Namibia	0.0000	Syria	0.0578
Brazil	0.0111	Guinea	0.0010	Nepal	0.0000	Tajikistan	0.0005
Bulgaria	0.0020	Guinea Bis.	0.0088	Netherlands	-	Tanzania	0.0026
Burkina Faso	0.0006	Honduras	0.0622	New Zealand	0.0103	Thailand	0.0361
Burundi	0.0006	Hungary	0.0034	Nicaragua	0.0077	Togo	0.0035
C. African R.	0.0007	India	0.0040	Niger	0.0011	Tunisia	0.0284
Cambodia	0.0036	Indonesia	0.0124	Nigeria	0.0038	Turkey	0.0110
Cameroon	0.0086	Iran	0.0359	Norway	-0.0015	UAE	0.1456
Canada	0.0184	Ireland	-	Oman	0.0289	Uganda	0.0002
Chad	0.0012	Israel	0.0804	Pakistan	0.0039	UK	-
Chile	0.0288	Italy	-	Panama	0.0351	Ukraine	0.0028
China	0.0241	Japan	0.0084	Papua N.G.	0.0032	Uruguay	0.0344
Colombia	0.0156	Jordan	0.0368	Paraguay	0.0452	USA	0.0366
Congo	0.0010	Kazakhstan	0.0026	Peru	0.0053	Uzbekistan	0.0001
Cote d'Ivoire	0.0042	Kenya	0.0078	Philippines	0.0148	Venezuela	0.0730
Croatia	0.0122	Kuwait	0.1475	Poland	0.0068	Vietnam	0.0055
Czech Rep.	0.0092	Kyrgyzstan	0.0032	Portugal	-	Yemen	0.0390
D.R. Congo	0.0054	Laos	0.0036	Romania	0.0106	Zambia	0.0018
Denmark	-	Latvia	0.0009	Russia	0.0054	Zimbabwe	0.0166

\* denotes estimated values

### Descriptive Statistics - based on most recent data

Available	117	Mean	0.0169	Min	-0.0022	Std. Deviation	0.0324	5 Percentile	0.0000
Missing	11	Median	0.0046	Max	0.2373			95 Percentile	0.0644

## Normalization

Type SB (smaller is better)

Parameters

T=0.0000

U=0.1475

Comments

T=minimum possible

U=max (excluding 1% outliers)

## Smoothed data

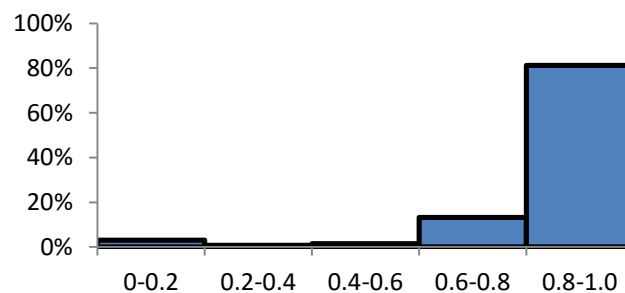
Albania	0.9690	Ecuador	0.8657	Lebanon	0.3277	Rwanda	0.9900
Algeria	0.8007	Egypt	0.8689	Lithuania	0.9745	Saudi Arabia	0.6640
Angola	0.9748	El Salvador	0.8664	Macedonia, FYR	0.9371	Senegal	0.9729
Argentina	0.9993	Estonia	0.8046	Madagascar	0.9958	Sierra Leone	0.9581
Armenia	0.7199	Ethiopia	0.9976	Malawi	0.9953	Slovakia	0.9956
Australia	0.9435	Finland	1.0000*	Malaysia	0.8174	Slovenia	0.9776
Austria	1.0000*	France	0.9381**	Mali	0.9862	South Africa	0.8964
Azerbaijan	0.8706	Gabon	0.9755	Mauritania	0.9781	South Korea	0.0000
Bangladesh	0.9867	Gambia	0.9960	Mexico	0.7460	Spain	1.0000**
Belarus	0.9996	Georgia	0.9479	Moldova	0.9743	Sri Lanka	0.9435
Belgium	0.9381**	Germany	1.0000**	Mongolia	0.9886	Sudan	0.9623
Benin	0.9916	Ghana	0.9923	Morocco	0.7953	Sweden	1.0000*
Bolivia	0.9755	Greece	1.0000**	Mozambique	0.9991	Switzerland	1.0000
Botswana	0.9757	Guatemala	0.6845	Namibia	0.9997	Syria	0.6082
Brazil	0.8917	Guinea	0.9933	Nepal	0.9967	Tajikistan	0.9964
Bulgaria	0.9863	Guinea Bis.	0.9406	Netherlands	0.9381**	Tanzania	0.9824
Burkina Faso	0.9962	Honduras	0.5782	New Zealand	0.9304	Thailand	0.7554
Burundi	0.9962	Hungary	0.9771	Nicaragua	0.9465	Togo	0.9761
C. African R.	0.9951	India	0.9732	Niger	0.9922	Tunisia	0.7912
Cambodia	0.9755	Indonesia	0.9147	Nigeria	0.9743	Turkey	0.9238
Cameroon	0.9414	Iran	0.7567	Norway	1.0000	UAE	0.0130
Canada	0.8747	Ireland	1.0000**	Oman	0.8043	Uganda	0.9984
Chad	0.9919	Israel	0.1939	Pakistan	0.9736	UK	0.9381**
Chile	0.7797	Italy	1.0000**	Panama	0.7065	Ukraine	0.9695
China	0.7882	Japan	0.9381	Papua N.G.	0.9659	Uruguay	0.7672
Colombia	0.8733	Jordan	0.7507	Paraguay	0.7753	USA	0.7516
Congo	0.9930	Kazakhstan	0.9818	Peru	0.9638	Uzbekistan	0.9977
Cote d'Ivoire	0.9681	Kenya	0.9490	Philippines	0.8936	Venezuela	0.4315
Croatia	0.9173	Kuwait	0.0000	Poland	0.9537	Vietnam	0.9626
Czech Rep.	0.9377	Kyrgyzstan	0.9784	Portugal	1.0000**	Yemen	0.7355
D.R. Congo	0.9079	Laos	0.9756	Romania	0.8412	Zambia	0.9878
Denmark	1.0000**	Latvia	0.9936	Russia	0.9583	Zimbabwe	0.8779

\* denotes estimated values

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8886	Min	0.0000	Std. Deviation	0.1906	5 Percentile	0.5887
Missing	0	Median	0.9648	Max	1.0000			95 Percentile	1.0000



**Indicator: Paper recycling****Primary indicator:** Ecological Sustainability (ECOS)**Secondary indicator:** Land**Tertiary indicator:** Response**Explanation:** Recycling rates are the ratios of the quantity collected for recycling to the apparent consumption. Reducing uncontrolled waste improves land sustainability.**Sources:** United Nations Environment Programme  
([http://geodata.grid.unep.ch/mod\\_download/download\\_xls.php?selectedID=1551](http://geodata.grid.unep.ch/mod_download/download_xls.php?selectedID=1551))

Esty et al. (2005); OECD (2005a)

**Period:** 1990-2011**Units:** percent of apparent consumption**Most recent data**

Albania	0.0000	Ecuador	-	Lebanon	-	Rwanda	0.0000
Algeria	0.0000*	Egypt	0.0000	Lithuania	59.3000	Saudi Arabia	0.0000*
Angola	0.0000*	El Salvador	0.0000	Macedonia, FYR	-	Senegal	0.0000
Argentina	10.0000	Estonia	45.0000	Madagascar	0.0000*	Sierra Leone	0.0000*
Armenia	0.0000	Ethiopia	0.0000	Malawi	0.0000*	Slovakia	50.0000
Australia	53.0000	Finland	70.0000	Malaysia	-	Slovenia	77.3000
Austria	70.0000	France	55.0000	Mali	0.0000	South Africa	0.0000
Azerbaijan	0.0000*	Gabon	0.0000	Mauritania	-	South Korea	66.0000
Bangladesh	-	Gambia	0.0000	Mexico	70.0000	Spain	59.0000
Belarus	0.0000	Georgia	0.0000*	Moldova	0.0000*	Sri Lanka	0.0000
Belgium	60.0000	Germany	70.0000	Mongolia	0.0000	Sudan	0.0000*
Benin	-	Ghana	0.0000	Morocco	0.0000	Sweden	67.0000
Bolivia	-	Greece	33.0000	Mozambique	0.0000	Switzerland	74.0000
Botswana	-	Guatemala	-	Namibia	-	Syria	-
Brazil	43.9000	Guinea	-	Nepal	-	Tajikistan	0.0000*
Bulgaria	-	Guinea Bis.	0.0000*	Netherlands	72.0000	Tanzania	0.0000*
Burkina Faso	-	Honduras	0.0000*	New Zealand	72.0000	Thailand	-
Burundi	0.0000	Hungary	50.0000	Nicaragua	-	Togo	0.0000
C. African R.	0.0000	India	20.0000	Niger	0.0000*	Tunisia	-
Cambodia	-	Indonesia	0.0000	Nigeria	0.0000*	Turkey	42.0000
Cameroon	-	Iran	0.0000*	Norway	71.0000	UAE	0.0000*
Canada	46.0000	Ireland	38.0000	Oman	0.0000*	Uganda	-
Chad	0.0000	Israel	-	Pakistan	-	UK	51.0000
Chile	-	Italy	50.0000	Panama	0.0000	Ukraine	0.0000*
China	30.0000	Japan	66.0000	Papua N.G.	0.0000*	Uruguay	10.0000
Colombia	35.0000	Jordan	0.0000	Paraguay	10.0000	USA	50.0000
Congo	-	Kazakhstan	0.0000*	Peru	-	Uzbekistan	0.0000*
Cote d'Ivoire	-	Kenya	-	Philippines	0.0000	Venezuela	-
Croatia	-	Kuwait	0.0000	Poland	34.0000	Vietnam	-
Czech Rep.	47.0000	Kyrgyzstan	0.0000	Portugal	46.0000	Yemen	-
D.R. Congo	-	Laos	0.0000*	Romania	51.1000	Zambia	0.0000*
Denmark	60.0000	Latvia	59.1000	Russia	-	Zimbabwe	-

\* denotes estimated values

**Descriptive Statistics - based on most recent data**

Available	92	Mean	22.2033	Min	0.0000	Std. Deviation	28.0726	5 Percentile	0.0000
Missing	36	Median	0.0000	Max	77.3000			95 Percentile	70.4500

## Normalization

Type *LB (larger is better)* Parameters  $u=0.0000$   $\tau=100.0000$   
 Comments  $u=\min$   $r=\text{maximum possible}$

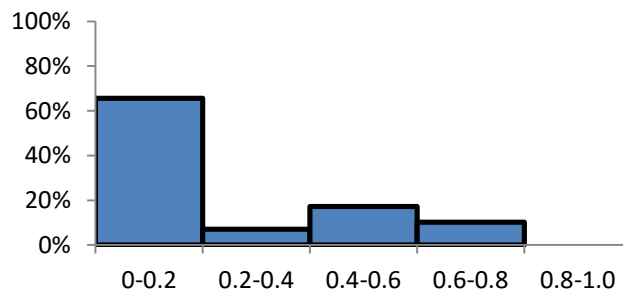
## Smoothed data

Albania	0.0000	Ecuador	0.0000**	Lebanon	0.4200**	Rwanda	0.0000
Algeria	0.0000*	Egypt	0.0000	Lithuania	0.5930	Saudi Arabia	0.0000*
Angola	0.0000*	El Salvador	0.0000	Macedonia, FYR	0.5110**	Senegal	0.0000
Argentina	0.1000	Estonia	0.4500	Madagascar	0.0000*	Sierra Leone	0.0000*
Armenia	0.0000	Ethiopia	0.0000	Malawi	0.0000*	Slovakia	0.5000
Australia	0.5300	Finland	0.7000	Malaysia	0.0000**	Slovenia	0.7730
Austria	0.6738	France	0.5500	Mali	0.0000	South Africa	0.0000
Azerbaijan	0.0000*	Gabon	0.0000	Mauritania	0.0000**	South Korea	0.6600
Bangladesh	0.2000**	Gambia	0.0000	Mexico	0.7000	Spain	0.5900
Belarus	0.0000	Georgia	0.0000*	Moldova	0.0000*	Sri Lanka	0.0000
Belgium	0.6000	Germany	0.7000	Mongolia	0.0000	Sudan	0.0000*
Benin	0.0000**	Ghana	0.0000	Morocco	0.0000	Sweden	0.6671
Bolivia	0.2695**	Greece	0.3122	Mozambique	0.0000	Switzerland	0.7334
Botswana	0.0000**	Guatemala	0.0000**	Namibia	0.0000**	Syria	0.4200**
Brazil	0.4390	Guinea	0.0000**	Nepal	0.2000**	Tajikistan	0.0000*
Bulgaria	0.2555**	Guinea Bis.	0.0000*	Netherlands	0.6967	Tanzania	0.0000*
Burkina Faso	0.0000**	Honduras	0.0000*	New Zealand	0.7169	Thailand	0.0000**
Burundi	0.0000	Hungary	0.4529	Nicaragua	0.0000**	Togo	0.0000
C. African R.	0.0000	India	0.2000	Niger	0.0000*	Tunisia	0.0000**
Cambodia	0.0000**	Indonesia	0.0000	Nigeria	0.0000*	Turkey	0.4200
Cameroon	0.0000**	Iran	0.0000*	Norway	0.7100	UAE	0.0000*
Canada	0.4402	Ireland	0.3648	Oman	0.0000*	Uganda	0.0000**
Chad	0.0000	Israel	0.0000**	Pakistan	0.0000**	UK	0.5100
Chile	0.3500**	Italy	0.5000	Panama	0.0000	Ukraine	0.0000*
China	0.3000	Japan	0.6600	Papua N.G.	0.0000*	Uruguay	0.1000
Colombia	0.3500	Jordan	0.0000	Paraguay	0.1000	USA	0.5000
Congo	0.0000**	Kazakhstan	0.0000*	Peru	0.2695**	Uzbekistan	0.0000*
Cote d'Ivoire	0.0000**	Kenya	0.0000**	Philippines	0.0000	Venezuela	0.0000**
Croatia	0.6600**	Kuwait	0.0000	Poland	0.3187	Vietnam	0.0000**
Czech Rep.	0.4700	Kyrgyzstan	0.0000	Portugal	0.4600	Yemen	0.0000**
D.R. Congo	0.0000**	Laos	0.0000*	Romania	0.5110	Zambia	0.0000*
Denmark	0.5997	Latvia	0.5910	Russia	0.0000**	Zimbabwe	0.0000**

\* denotes estimated values      \*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.1859	Min	0.0000	Std. Deviation	0.2596	5 Percentile	0.0000
Missing	0	Median	0.0000	Max	0.7730			95 Percentile	0.6988



**Indicator: Personal computers****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Knowledge**Tertiary indicator:** Response**Explanation:** Estimated numbers of self-contained computers used by a single person. Access to personal computers promotes knowledge development and educational sustainability.**Sources:** World Bank (2007); Financial Standards Foundation (<http://www.estandardsforum.org/jhtml/ca/lpa/>)**Period:** 1990-2011**Units:** number of computers per thousand people**Most recent data**

Albania	11.6883	Ecuador	31.1132	Lebanon	80.5271	Rwanda	0.0000*
Algeria	7.7334	Egypt	21.8506	Lithuania	109.7473	Saudi Arabia	130.2255
Angola	1.9373	El Salvador	25.2420	Macedonia, FYR	221.0000*	Senegal	21.2376
Argentina	81.9672	Estonia	440.4145	Madagascar	4.8960	Sierra Leone	0.0000*
Armenia	15.7853	Ethiopia	2.1625	Malawi	1.5065	Slovakia	180.3644
Australia	565.1002	Finland	441.7131	Malaysia	166.8627	Slovenia	300.6012
Austria	369.2855	France	347.1000	Mali	1.4113	South Africa	72.6009
Azerbaijan	23.0000*	Gabon	22.4383	Mauritania	10.8113	South Korea	557.9723
Bangladesh	7.7710	Gambia	13.8484	Mexico	81.9910	Spain	195.9541
Belarus	77.0000*	Georgia	31.6173	Moldova	17.5000	Sri Lanka	13.1947
Belgium	318.1499	Germany	484.6624	Mongolia	77.3206	Sudan	6.1465
Benin	3.6762	Ghana	3.7833	Morocco	19.9177	Sweden	621.2680
Bolivia	22.7790	Greece	81.6845	Mozambique	4.4971	Switzerland	708.6676
Botswana	40.6977	Guatemala	14.4203	Namibia	99.3243	Syria	19.3662
Brazil	74.7646	Guinea	5.5477	Nepal	3.6633	Tajikistan	0.0000*
Bulgaria	51.9164	Guinea Bis.	0.0000*	Netherlands	466.6255	Tanzania	5.6636
Burkina Faso	2.1211	Honduras	13.5863	New Zealand	413.8001	Thailand	39.7660
Burundi	1.8265	Hungary	108.3530	Nicaragua	27.9330	Togo	32.0000
C. African R.	2.0217	India	7.1988	Niger	0.5959	Tunisia	40.4825
Cambodia	2.2633	Indonesia	11.8759	Nigeria	7.1037	Turkey	44.5951
Cameroon	5.6854	Iran	90.4579	Norway	528.3099	UAE	129.0138
Canada	487.0440	Ireland	420.7581	Oman	35.0424	Uganda	4.0041
Chad	1.6515	Israel	242.6307	Pakistan	4.2126	UK	405.7000
Chile	119.3205	Italy	230.6780	Panama	38.2557	Ukraine	18.9680
China	27.6366	Japan	382.1556	Papua N.G.	58.7482	Uruguay	110.0863
Colombia	49.2723	Jordan	44.7244	Paraguay	34.5901	USA	658.8787
Congo	4.2857	Kazakhstan	10.0000*	Peru	42.9661	Uzbekistan	31.0000*
Cote d'Ivoire	9.3393	Kenya	6.3890	Philippines	27.6812	Venezuela	60.9406
Croatia	173.7540	Kuwait	162.8333	Poland	142.0094	Vietnam	9.8463
Czech Rep.	177.4448	Kyrgyzstan	12.6595	Portugal	134.3557	Yemen	7.4378
D.R. Congo	4.0000*	Laos	3.5219	Romania	96.6248	Zambia	8.4859
Denmark	576.8241	Latvia	187.9959	Russia	88.6851	Zimbabwe	52.6987

\* denotes estimated values

**Descriptive Statistics - based on most recent data**

Available	128	Mean	115.2878	Min	0.0000	Std. Deviation	170.2857	5 Percentile	1.5572
Missing	0	Median	33.2951	Max	708.6676			95 Percentile	513.8669

## Normalization

Type *LB (larger is better)*

Parameters  $u=0.0000$   $\tau=406.1415$

Comments  $u=\min$   $r=\text{average of EU-14, USA, Canada, Australia, Japan and Norway}$

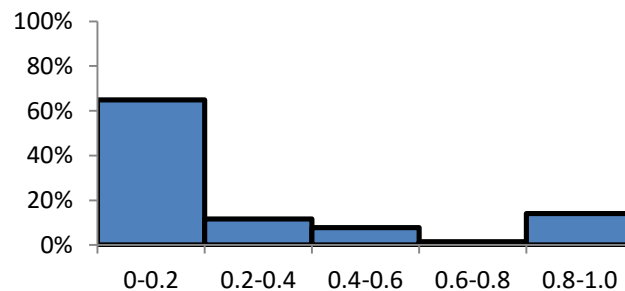
## Smoothed data

Albania	0.0288	Ecuador	0.0766	Lebanon	0.1983	Rwanda	0.0000*
Algeria	0.0190	Egypt	0.0538	Lithuania	0.2702	Saudi Arabia	0.3206
Angola	0.0048	El Salvador	0.0622	Macedonia, FYR	0.5441*	Senegal	0.0523
Argentina	0.2018	Estonia	1.0000	Madagascar	0.0121	Sierra Leone	0.0000*
Armenia	0.0389	Ethiopia	0.0053	Malawi	0.0037	Slovakia	0.4441
Australia	1.0000	Finland	1.0000	Malaysia	0.4108	Slovenia	0.7401
Austria	0.9093	France	0.8546	Mali	0.0035	South Africa	0.1788
Azerbaijan	0.0566*	Gabon	0.0552	Mauritania	0.0266	South Korea	1.0000
Bangladesh	0.0191	Gambia	0.0341	Mexico	0.2019	Spain	0.4825
Belarus	0.1896*	Georgia	0.0778	Moldova	0.0431	Sri Lanka	0.0325
Belgium	0.7833	Germany	1.0000	Mongolia	0.1904	Sudan	0.0151
Benin	0.0091	Ghana	0.0093	Morocco	0.0491	Sweden	1.0000
Bolivia	0.0561	Greece	0.2011	Mozambique	0.0111	Switzerland	1.0000
Botswana	0.1002	Guatemala	0.0355	Namibia	0.2446	Syria	0.0477
Brazil	0.1841	Guinea	0.0137	Nepal	0.0090	Tajikistan	0.0000*
Bulgaria	0.1278	Guinea Bis.	0.0000*	Netherlands	1.0000	Tanzania	0.0139
Burkina Faso	0.0052	Honduras	0.0335	New Zealand	1.0000	Thailand	0.0979
Burundi	0.0045	Hungary	0.2668	Nicaragua	0.0688	Togo	0.0788
C. African R.	0.0050	India	0.0177	Niger	0.0015	Tunisia	0.0997
Cambodia	0.0056	Indonesia	0.0292	Nigeria	0.0175	Turkey	0.1098
Cameroon	0.0140	Iran	0.2227	Norway	1.0000	UAE	0.3177
Canada	1.0000	Ireland	1.0000	Oman	0.0863	Uganda	0.0099
Chad	0.0041	Israel	0.5974	Pakistan	0.0104	UK	0.9989
Chile	0.2938	Italy	0.5680	Panama	0.0942	Ukraine	0.0467
China	0.0680	Japan	0.9409	Papua N.G.	0.1446	Uruguay	0.2711
Colombia	0.1213	Jordan	0.1101	Paraguay	0.0852	USA	1.0000
Congo	0.0106	Kazakhstan	0.0246*	Peru	0.1058	Uzbekistan	0.0763*
Cote d'Ivoire	0.0230	Kenya	0.0157	Philippines	0.0682	Venezuela	0.1500
Croatia	0.4278	Kuwait	0.4009	Poland	0.3497	Vietnam	0.0242
Czech Rep.	0.4369	Kyrgyzstan	0.0312	Portugal	0.3308	Yemen	0.0183
D.R. Congo	0.0098*	Laos	0.0087	Romania	0.2379	Zambia	0.0209
Denmark	1.0000	Latvia	0.4629	Russia	0.2184	Zimbabwe	0.1298

\* denotes estimated values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.2514	Min	0.0000	Std. Deviation	0.3361	5 Percentile	0.0038
Missing	0	Median	0.0820	Max	1.0000			95 Percentile	1.0000



**Indicator: Pesticide consumption****Primary indicator:** Ecological Sustainability (ECOS), Ecological Sustainability (ECOS)**Secondary indicator:** Land, Water**Tertiary indicator:** Pressure, Pressure**Explanation:** Pesticide use intensity refers to the amount of pesticide used per hectare of arable and permanent cropland. Excessive use of pesticides in agricultural activities has negative impacts on soil, water, humans and wildlife.**Sources:** Esty et al. (2005)**Period:** 1990-2011**Units:** kg of pesticide consumption per hectare of arable land**Most recent data**

Albania	0.1800	Ecuador	2.5000	Lebanon	5.6000	Rwanda	0.1000
Algeria	0.3100	Egypt	1.4000	Lithuania	0.2000	Saudi Arabia	0.7000
Angola	0.1000	El Salvador	4.9000	Macedonia, FYR	0.8000	Senegal	0.1000
Argentina	1.9000	Estonia	0.5000	Madagascar	0.1800	Sierra Leone	0.1000
Armenia	0.1000	Ethiopia	0.1000	Malawi	0.3000	Slovakia	2.4900
Australia	2.5000	Finland	0.6000	Malaysia	1.5000	Slovenia	7.4000
Austria	2.4200	France	4.5000	Mali	0.1000	South Africa	1.7000
Azerbaijan	0.3400	Gabon	0.2700	Mauritania	0.1000	South Korea	12.8000
Bangladesh	0.4000	Gambia	0.1000	Mexico	1.9000	Spain	2.0000
Belarus	0.7400	Georgia	0.8700	Moldova	1.1000	Sri Lanka	0.9000
Belgium	5.9000	Germany	2.3000	Mongolia	0.3100	Sudan	0.1400
Benin	0.1200	Ghana	0.1000	Morocco	1.0000	Sweden	0.7000
Bolivia	1.3000	Greece	2.8000	Mozambique	0.2600	Switzerland	3.6000
Botswana	0.4000	Guatemala	0.8000	Namibia	0.1000	Syria	0.6000
Brazil	1.2000	Guinea	0.1000	Nepal	0.4400	Tajikistan	0.8000
Bulgaria	0.9000	Guinea Bis.	0.1000	Netherlands	8.0000	Tanzania	0.1000
Burkina Faso	0.2000	Honduras	2.5000	New Zealand	1.0000	Thailand	1.1000
Burundi	0.1000	Hungary	1.1000	Nicaragua	2.4000	Togo	0.1000
C. African R.	0.1000	India	0.3000	Niger	0.1000	Tunisia	0.2000
Cambodia	0.1500	Indonesia	0.1000	Nigeria	0.1000	Turkey	1.0000
Cameroon	0.1000	Iran	0.3000	Norway	0.6000	UAE	0.1300
Canada	0.6000	Ireland	2.0000	Oman	1.2000	Uganda	0.1700
Chad	0.1000	Israel	5.7000	Pakistan	0.5000	UK	5.8000
Chile	6.7000	Italy	1.1600	Panama	4.7000	Ukraine	1.9000
China	0.7700	Japan	4.3100	Papua N.G.	0.1000	Uruguay	3.3000
Colombia	16.7000	Jordan	1.4000	Paraguay	3.4000	USA	2.3000
Congo	0.1000	Kazakhstan	0.3000	Peru	1.2000	Uzbekistan	0.7500
Cote d'Ivoire	0.2700	Kenya	0.3000	Philippines	1.9500	Venezuela	1.2000
Croatia	2.2000	Kuwait	4.6000	Poland	0.7800	Vietnam	2.3000
Czech Rep.	1.4000	Kyrgyzstan	1.8000	Portugal	5.5000	Yemen	0.8000
D.R. Congo	0.1600	Laos	0.1000	Romania	0.8000	Zambia	0.3000
Denmark	1.4000	Latvia	0.2000	Russia	0.2000	Zimbabwe	0.9000

**Descriptive Statistics - based on most recent data**

Available	128	Mean	1.5693	Min	0.1000	Std. Deviation	2.3949	5 Percentile	0.1000
Missing	0	Median	0.7750	Max	16.7000			95 Percentile	5.7650



## Normalization

Type *SB (smaller is better)*

Parameters

$T=3.2200$

$U=8.0000$

Comments  $T=$ average of EU-14

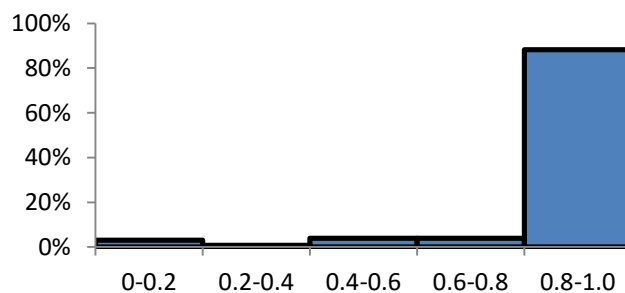
$U=$ max (excluding 1.5% outliers)

## Smoothed data

Albania	1.0000	Ecuador	1.0000	Lebanon	0.5021	Rwanda	1.0000
Algeria	1.0000	Egypt	1.0000	Lithuania	1.0000	Saudi Arabia	1.0000
Angola	1.0000	El Salvador	0.6485	Macedonia, FYR	1.0000	Senegal	1.0000
Argentina	1.0000	Estonia	1.0000	Madagascar	1.0000	Sierra Leone	1.0000
Armenia	1.0000	Ethiopia	1.0000	Malawi	1.0000	Slovakia	1.0000
Australia	1.0000	Finland	1.0000	Malaysia	1.0000	Slovenia	0.1255
Austria	1.0000	France	0.7322	Mali	1.0000	South Africa	1.0000
Azerbaijan	1.0000	Gabon	1.0000	Mauritania	1.0000	South Korea	0.0000
Bangladesh	1.0000	Gambia	1.0000	Mexico	1.0000	Spain	1.0000
Belarus	1.0000	Georgia	1.0000	Moldova	1.0000	Sri Lanka	1.0000
Belgium	0.4393	Germany	1.0000	Mongolia	1.0000	Sudan	1.0000
Benin	1.0000	Ghana	1.0000	Morocco	1.0000	Sweden	1.0000
Bolivia	1.0000	Greece	1.0000	Mozambique	1.0000	Switzerland	0.9205
Botswana	1.0000	Guatemala	1.0000	Namibia	1.0000	Syria	1.0000
Brazil	1.0000	Guinea	1.0000	Nepal	1.0000	Tajikistan	1.0000
Bulgaria	1.0000	Guinea Bis.	1.0000	Netherlands	0.0000	Tanzania	1.0000
Burkina Faso	1.0000	Honduras	1.0000	New Zealand	1.0000	Thailand	1.0000
Burundi	1.0000	Hungary	1.0000	Nicaragua	1.0000	Togo	1.0000
C. African R.	1.0000	India	1.0000	Niger	1.0000	Tunisia	1.0000
Cambodia	1.0000	Indonesia	1.0000	Nigeria	1.0000	Turkey	1.0000
Cameroon	1.0000	Iran	1.0000	Norway	1.0000	UAE	1.0000
Canada	1.0000	Ireland	1.0000	Oman	1.0000	Uganda	1.0000
Chad	1.0000	Israel	0.4812	Pakistan	1.0000	UK	0.4603
Chile	0.2720	Italy	1.0000	Panama	0.6904	Ukraine	1.0000
China	1.0000	Japan	0.7720	Papua N.G.	1.0000	Uruguay	0.9833
Colombia	0.0000	Jordan	1.0000	Paraguay	0.9623	USA	1.0000
Congo	1.0000	Kazakhstan	1.0000	Peru	1.0000	Uzbekistan	1.0000
Cote d'Ivoire	1.0000	Kenya	1.0000	Philippines	1.0000	Venezuela	1.0000
Croatia	1.0000	Kuwait	0.7113	Poland	1.0000	Vietnam	1.0000
Czech Rep.	1.0000	Kyrgyzstan	1.0000	Portugal	0.5230	Yemen	1.0000
D.R. Congo	1.0000	Laos	1.0000	Romania	1.0000	Zambia	1.0000
Denmark	1.0000	Latvia	1.0000	Russia	1.0000	Zimbabwe	1.0000

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.9314	Min	0.0000	Std. Deviation	0.2077	5 Percentile	0.4676
Missing	0	Median	1.0000	Max	1.0000			95 Percentile	1.0000



**Indicator: Phosphorus concentration****Primary indicator:** Ecological Sustainability (ECOS)**Secondary indicator:** Water**Tertiary indicator:** State**Explanation:** It is a measure of eutrophication, which affects the health of aquatic resources. High levels of phosphorous increase the chances of eutrophication.**Sources:** Esty et al. (2005); Environmental Sustainability Index 2001, 2002 (www.yale.edu/esi)**Period:** 1990-2011**Units:** mg phosphorus per liter of water**Most recent data**

Albania	0.1400	Ecuador	0.1200	Lebanon	0.2500	Rwanda	0.1600
Algeria	0.3100	Egypt	0.1900	Lithuania	0.0800	Saudi Arabia	0.1500
Angola	0.1500	El Salvador	0.1500	Macedonia, FYR	0.0200	Senegal	0.2200
Argentina	0.0900	Estonia	0.0000	Madagascar	0.1700	Sierra Leone	0.1700
Armenia	0.0600	Ethiopia	0.2200	Malawi	0.1900	Slovakia	0.1900
Australia	0.0800	Finland	0.0100	Malaysia	0.0900	Slovenia	0.0900
Austria	0.0800	France	0.1700	Mali	0.1500	South Africa	0.2100
Azerbaijan	0.1900	Gabon	0.0700	Mauritania	0.1700	South Korea	0.1300
Bangladesh	0.2900	Gambia	0.2300	Mexico	0.1000	Spain	0.2300
Belarus	0.1200	Georgia	0.1300	Moldova	0.1400	Sri Lanka	0.2000
Belgium	0.3200	Germany	0.1600	Mongolia	0.0400	Sudan	0.1800
Benin	0.1700	Ghana	0.2400	Morocco	0.4600	Sweden	0.1100
Bolivia	0.0900	Greece	0.3900	Mozambique	0.1400	Switzerland	0.0700
Botswana	0.1300	Guatemala	0.2000	Namibia	0.1700	Syria	0.2800
Brazil	0.1700	Guinea	0.2200	Nepal	0.1900	Tajikistan	0.1100
Bulgaria	0.2800	Guinea Bis.	0.1500	Netherlands	0.2700	Tanzania	0.2200
Burkina Faso	0.1500	Honduras	0.2100	New Zealand	0.0500	Thailand	0.2200
Burundi	0.2200	Hungary	0.1200	Nicaragua	0.0600	Togo	0.2600
C. African R.	0.1100	India	0.2000	Niger	0.1200	Tunisia	0.1600
Cambodia	0.0400	Indonesia	0.5700	Nigeria	0.2900	Turkey	0.2900
Cameroon	0.0500	Iran	0.2800	Norway	0.0100	UAE	0.1200
Canada	0.0100	Ireland	0.0800	Oman	0.0800	Uganda	0.2200
Chad	0.1400	Israel	0.1700	Pakistan	0.6700	UK	0.0900
Chile	0.1900	Italy	0.1400	Panama	0.0700	Ukraine	0.1200
China	0.2800	Japan	0.0600	Papua N.G.	0.1600	Uruguay	0.0900
Colombia	0.1000	Jordan	0.1900	Paraguay	0.2100	USA	0.1300
Congo	0.1000	Kazakhstan	0.1100	Peru	0.1400	Uzbekistan	0.2000
Cote d'Ivoire	0.1900	Kenya	0.2100	Philippines	0.2600	Venezuela	0.2100
Croatia	0.1200	Kuwait	0.2300	Poland	0.2400	Vietnam	0.1200
Czech Rep.	0.3200	Kyrgyzstan	0.1300	Portugal	0.2800	Yemen	0.1900
D.R. Congo	0.1700	Laos	0.1200	Romania	0.1600	Zambia	0.1700
Denmark	0.1400	Latvia	0.0400	Russia	0.0100	Zimbabwe	0.0100

**Descriptive Statistics - based on most recent data**

Available	128	Mean	0.1662	Min	0.0000	Std. Deviation	0.0999	5 Percentile	0.0270
Missing	0	Median	0.1600	Max	0.6700			95 Percentile	0.3030

## Normalization

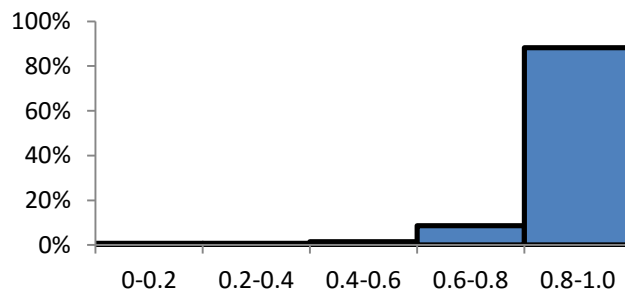
Type *SB (smaller is better)* Parameters *T=0.1764* *U=0.6700*  
 Comments *T=average of EU-14* *U=max*

## Smoothed data

Albania	1.0000	Ecuador	1.0000	Lebanon	0.8509	Rwanda	1.0000
Algeria	0.7294	Egypt	0.9725	Lithuania	1.0000	Saudi Arabia	1.0000
Angola	1.0000	El Salvador	1.0000	Macedonia, FYR	1.0000	Senegal	0.9117
Argentina	1.0000	Estonia	1.0000	Madagascar	1.0000	Sierra Leone	1.0000
Armenia	1.0000	Ethiopia	0.9117	Malawi	0.9725	Slovakia	0.9725
Australia	1.0000	Finland	1.0000	Malaysia	1.0000	Slovenia	1.0000
Austria	1.0000	France	1.0000	Mali	1.0000	South Africa	0.9320
Azerbaijan	0.9725	Gabon	1.0000	Mauritania	1.0000	South Korea	1.0000
Bangladesh	0.7699	Gambia	0.8915	Mexico	1.0000	Spain	0.8915
Belarus	1.0000	Georgia	1.0000	Moldova	1.0000	Sri Lanka	0.9522
Belgium	0.7091	Germany	1.0000	Mongolia	1.0000	Sudan	0.9928
Benin	1.0000	Ghana	0.8712	Morocco	0.4255	Sweden	1.0000
Bolivia	1.0000	Greece	0.5673	Mozambique	1.0000	Switzerland	1.0000
Botswana	1.0000	Guatemala	0.9522	Namibia	1.0000	Syria	0.7902
Brazil	1.0000	Guinea	0.9117	Nepal	0.9725	Tajikistan	1.0000
Bulgaria	0.7902	Guinea Bis.	1.0000	Netherlands	0.8104	Tanzania	0.9117
Burkina Faso	1.0000	Honduras	0.9320	New Zealand	1.0000	Thailand	0.9117
Burundi	0.9117	Hungary	1.0000	Nicaragua	1.0000	Togo	0.8307
C. African R.	1.0000	India	0.9522	Niger	1.0000	Tunisia	1.0000
Cambodia	1.0000	Indonesia	0.2026	Nigeria	0.7699	Turkey	0.7699
Cameroon	1.0000	Iran	0.7902	Norway	1.0000	UAE	1.0000
Canada	1.0000	Ireland	1.0000	Oman	1.0000	Uganda	0.9117
Chad	1.0000	Israel	1.0000	Pakistan	0.0000	UK	1.0000
Chile	0.9725	Italy	1.0000	Panama	1.0000	Ukraine	1.0000
China	0.7902	Japan	1.0000	Papua N.G.	1.0000	Uruguay	1.0000
Colombia	1.0000	Jordan	0.9725	Paraguay	0.9320	USA	1.0000
Congo	1.0000	Kazakhstan	1.0000	Peru	1.0000	Uzbekistan	0.9522
Cote d'Ivoire	0.9725	Kenya	0.9320	Philippines	0.8307	Venezuela	0.9320
Croatia	1.0000	Kuwait	0.8915	Poland	0.8712	Vietnam	1.0000
Czech Rep.	0.7091	Kyrgyzstan	1.0000	Portugal	0.7902	Yemen	0.9725
D.R. Congo	1.0000	Laos	1.0000	Romania	1.0000	Zambia	1.0000
Denmark	1.0000	Latvia	1.0000	Russia	1.0000	Zimbabwe	1.0000

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.9370	Min	0.0000	Std. Deviation	0.1416	5 Percentile	0.7436
Missing	0	Median	1.0000	Max	1.0000			95 Percentile	1.0000



**Indicator: Political rights****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Policy**Tertiary indicator:** State**Explanation:** The Freedom House Annual Survey employs the Political Rights checklist to help determine the degree to which people can participate in the political process of their country. Each country is then rated on a seven-category scale, 1 representing the most free and 7 the least free.**Sources:** World Audit (<http://www.worldaudit.org/polrights.htm>)**Period:** 1990-2011**Units:** seven-category scale (1 representing the most free and 7 the least free country)**Most recent data**

Albania	3.0000	Ecuador	3.0000	Lebanon	5.0000	Rwanda	6.0000
Algeria	6.0000	Egypt	6.0000	Lithuania	1.0000	Saudi Arabia	7.0000
Angola	6.0000	El Salvador	2.0000	Macedonia, FYR	3.0000	Senegal	3.0000
Argentina	2.0000	Estonia	1.0000	Madagascar	6.0000	Sierra Leone	3.0000
Armenia	6.0000	Ethiopia	6.0000	Malawi	3.0000	Slovakia	1.0000
Australia	1.0000	Finland	1.0000	Malaysia	4.0000	Slovenia	1.0000
Austria	1.0000	France	1.0000	Mali	2.0000	South Africa	2.0000
Azerbaijan	6.0000	Gabon	6.0000	Mauritania	6.0000	South Korea	1.0000
Bangladesh	3.0000	Gambia	6.0000	Mexico	3.0000	Spain	1.0000
Belarus	7.0000	Georgia	4.0000	Moldova	3.0000	Sri Lanka	5.0000
Belgium	1.0000	Germany	1.0000	Mongolia	2.0000	Sudan	7.0000
Benin	2.0000	Ghana	1.0000	Morocco	5.0000	Sweden	1.0000
Bolivia	3.0000	Greece	2.0000	Mozambique	4.0000	Switzerland	1.0000
Botswana	3.0000	Guatemala	3.0000	Namibia	2.0000	Syria	7.0000
Brazil	2.0000	Guinea	5.0000	Nepal	4.0000	Tajikistan	6.0000
Bulgaria	2.0000	Guinea Bis.	4.0000	Netherlands	1.0000	Tanzania	3.0000
Burkina Faso	5.0000	Honduras	4.0000	New Zealand	1.0000	Thailand	4.0000
Burundi	5.0000	Hungary	1.0000	Nicaragua	5.0000	Togo	5.0000
C. African R.	5.0000	India	2.0000	Niger	3.0000	Tunisia	3.0000
Cambodia	6.0000	Indonesia	2.0000	Nigeria	4.0000	Turkey	3.0000
Cameroon	6.0000	Iran	6.0000	Norway	1.0000	UAE	6.0000
Canada	1.0000	Ireland	1.0000	Oman	6.0000	Uganda	5.0000
Chad	7.0000	Israel	1.0000	Pakistan	4.0000	UK	1.0000
Chile	1.0000	Italy	1.0000	Panama	1.0000	Ukraine	4.0000
China	7.0000	Japan	1.0000	Papua N.G.	4.0000	Uruguay	1.0000
Colombia	3.0000	Jordan	6.0000	Paraguay	3.0000	USA	1.0000
Congo	6.0000	Kazakhstan	6.0000	Peru	2.0000	Uzbekistan	7.0000
Cote d'Ivoire	6.0000	Kenya	4.0000	Philippines	3.0000	Venezuela	5.0000
Croatia	1.0000	Kuwait	4.0000	Poland	1.0000	Vietnam	7.0000
Czech Rep.	1.0000	Kyrgyzstan	5.0000	Portugal	1.0000	Yemen	6.0000
D.R. Congo	6.0000	Laos	7.0000	Romania	2.0000	Zambia	3.0000
Denmark	1.0000	Latvia	2.0000	Russia	6.0000	Zimbabwe	6.0000

**Descriptive Statistics - based on most recent data**

Available	128	Mean	3.5078	Min	1.0000	Std. Deviation	2.0772	5 Percentile	1.0000
Missing	0	Median	3.0000	Max	7.0000			95 Percentile	7.0000

## Normalization

Type SB (smaller is better)

Parameters

T=1.0000

U=3.0000

Comments T=minimum possible

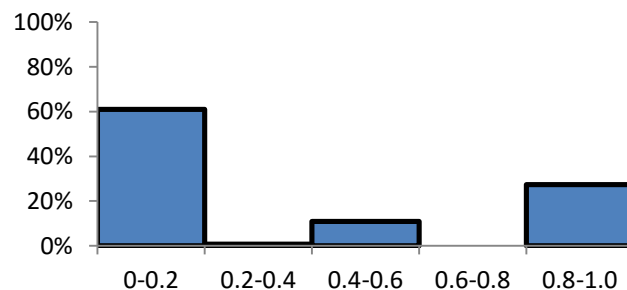
U (most developing countries range over [3,7], 3 being their best value)

## Smoothed data

Albania	0.0000	Ecuador	0.0000	Lebanon	0.0000	Rwanda	0.0000
Algeria	0.0000	Egypt	0.0000	Lithuania	1.0000	Saudi Arabia	0.0000
Angola	0.0000	El Salvador	0.5000	Macedonia, FYR	0.0000	Senegal	0.0000
Argentina	0.5000	Estonia	1.0000	Madagascar	0.0000	Sierra Leone	0.0000
Armenia	0.0000	Ethiopia	0.0000	Malawi	0.0000	Slovakia	1.0000
Australia	1.0000	Finland	1.0000	Malaysia	0.0000	Slovenia	1.0000
Austria	1.0000	France	1.0000	Mali	0.5000	South Africa	0.5000
Azerbaijan	0.0000	Gabon	0.0000	Mauritania	0.0000	South Korea	1.0000
Bangladesh	0.0000	Gambia	0.0000	Mexico	0.0000	Spain	1.0000
Belarus	0.0000	Georgia	0.0000	Moldova	0.0000	Sri Lanka	0.0000
Belgium	1.0000	Germany	1.0000	Mongolia	0.5000	Sudan	0.0000
Benin	0.5000	Ghana	1.0000	Morocco	0.0000	Sweden	1.0000
Bolivia	0.0000	Greece	0.8328	Mozambique	0.0000	Switzerland	1.0000
Botswana	0.3328	Guatemala	0.0000	Namibia	0.5000	Syria	0.0000
Brazil	0.5000	Guinea	0.0000	Nepal	0.0000	Tajikistan	0.0000
Bulgaria	0.5000	Guinea Bis.	0.0000	Netherlands	1.0000	Tanzania	0.0000
Burkina Faso	0.0000	Honduras	0.0000	New Zealand	1.0000	Thailand	0.0000
Burundi	0.0000	Hungary	1.0000	Nicaragua	0.0000	Togo	0.0000
C. African R.	0.0000	India	0.5000	Niger	0.0000	Tunisia	0.0000
Cambodia	0.0000	Indonesia	0.5000	Nigeria	0.0000	Turkey	0.0000
Cameroon	0.0000	Iran	0.0000	Norway	1.0000	UAE	0.0000
Canada	1.0000	Ireland	1.0000	Oman	0.0000	Uganda	0.0000
Chad	0.0000	Israel	1.0000	Pakistan	0.0000	UK	1.0000
Chile	1.0000	Italy	1.0000	Panama	1.0000	Ukraine	0.0000
China	0.0000	Japan	1.0000	Papua N.G.	0.0000	Uruguay	1.0000
Colombia	0.0000	Jordan	0.0000	Paraguay	0.0000	USA	1.0000
Congo	0.0000	Kazakhstan	0.0000	Peru	0.5000	Uzbekistan	0.0000
Cote d'Ivoire	0.0000	Kenya	0.0000	Philippines	0.0000	Venezuela	0.0531
Croatia	1.0000	Kuwait	0.0000	Poland	1.0000	Vietnam	0.0000
Czech Rep.	1.0000	Kyrgyzstan	0.0000	Portugal	1.0000	Yemen	0.0000
D.R. Congo	0.0000	Laos	0.0000	Romania	0.5000	Zambia	0.0000
Denmark	1.0000	Latvia	0.5000	Russia	0.0000	Zimbabwe	0.0000

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.3298	Min	0.0000	Std. Deviation	0.4382	5 Percentile	0.0000
Missing	0	Median	0.0000	Max	1.0000			95 Percentile	1.0000



**Indicator: Population growth rate****Primary indicator:** Ecological Sustainability (ECOS)**Secondary indicator:** Land**Tertiary indicator:** Pressure**Explanation:** The rate of population change for given periods of years is measured by the rate of natural increase (birth rate - death rate). Small or zero population growth rate is perceived as influencing positively land sustainability.**Sources:** Population Reference Bureau, World Population Datasheets 1990-2011 (<http://www.prb.org/Publications/Datasheets.aspx>)**Period:** 1990-2011**Units:** percent of natural increase**Most recent data**

Albania	0.6000	Ecuador	1.6000	Lebanon	1.6000	Rwanda	2.2000
Algeria	2.0000	Egypt	2.0000	Lithuania	-0.2000	Saudi Arabia	1.8000
Angola	3.2000	El Salvador	1.4000	Macedonia, FYR	0.2000	Senegal	2.9000
Argentina	1.1000	Estonia	0.0000	Madagascar	2.9000	Sierra Leone	2.3000
Armenia	0.5000	Ethiopia	2.4000	Malawi	2.8000	Slovakia	0.2000
Australia	0.7000	Finland	0.2000	Malaysia	1.5000	Slovenia	0.1000
Austria	0.0000	France	0.4000	Mali	3.2000	South Africa	0.9000
Azerbaijan	1.3000	Gabon	1.8000	Mauritania	2.4000	South Korea	0.4000
Bangladesh	1.6000	Gambia	2.9000	Mexico	1.5000	Spain	0.2000
Belarus	-0.3000	Georgia	0.2000	Moldova	0.0000	Sri Lanka	1.2000
Belgium	0.2000	Germany	-0.2000	Mongolia	1.6000	Sudan	2.4000
Benin	2.9000	Ghana	2.4000	Morocco	1.4000	Sweden	0.2000
Bolivia	1.9000	Greece	0.1000	Mozambique	2.8000	Switzerland	0.2000
Botswana	1.2000	Guatemala	2.4000	Namibia	1.8000	Syria	2.0000
Brazil	1.0000	Guinea	2.6000	Nepal	1.8000	Tajikistan	2.3000
Bulgaria	-0.5000	Guinea Bis.	2.2000	Netherlands	0.2000	Tanzania	3.0000
Burkina Faso	3.1000	Honduras	2.2000	New Zealand	0.7000	Thailand	0.5000
Burundi	3.2000	Hungary	-0.4000	Nicaragua	1.9000	Togo	2.8000
C. African R.	1.9000	India	1.5000	Niger	3.5000	Tunisia	1.3000
Cambodia	1.7000	Indonesia	1.3000	Nigeria	2.6000	Turkey	1.2000
Cameroon	2.7000	Iran	1.3000	Norway	0.4000	UAE	1.2000
Canada	0.4000	Ireland	1.0000	Oman	2.0000	Uganda	3.3000
Chad	2.8000	Israel	1.6000	Pakistan	2.1000	UK	0.4000
Chile	1.0000	Italy	-0.1000	Panama	1.5000	Ukraine	-0.4000
China	0.5000	Japan	-0.2000	Papua N.G.	2.1000	Uruguay	0.4000
Colombia	1.3000	Jordan	3.0000	Paraguay	1.9000	USA	0.5000
Congo	2.8000	Kazakhstan	1.4000	Peru	1.5000	Uzbekistan	1.9000
Cote d'Ivoire	2.3000	Kenya	2.7000	Philippines	1.9000	Venezuela	1.5000
Croatia	-0.2000	Kuwait	1.5000	Poland	0.1000	Vietnam	1.0000
Czech Rep.	0.0000	Kyrgyzstan	2.0000	Portugal	-0.1000	Yemen	3.1000
D.R. Congo	2.8000	Laos	2.0000	Romania	-0.4000	Zambia	3.0000
Denmark	0.1000	Latvia	-0.5000	Russia	-0.1000	Zimbabwe	1.9000

**Descriptive Statistics - based on most recent data**

Available	128	Mean	1.4023	Min	-0.5000	Std. Deviation	1.0864	5 Percentile	-0.2000
Missing	0	Median	1.5000	Max	3.5000			95 Percentile	3.0650

## Normalization

Type *SB (smaller is better)*

Parameters

$T=0.0000$

$U=1.2000$

Comments

$T$  (zero or negative values lead to population stabilization)

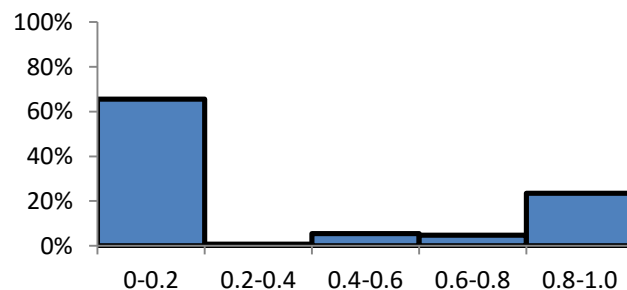
$U$  (world average rate; PRB, 2011)

## Smoothed data

Albania	0.5000	Ecuador	0.0000	Lebanon	0.0000	Rwanda	0.0000
Algeria	0.0000	Egypt	0.0000	Lithuania	1.0000	Saudi Arabia	0.0000
Angola	0.0000	El Salvador	0.0000	Macedonia, FYR	0.8333	Senegal	0.0000
Argentina	0.0981	Estonia	1.0000	Madagascar	0.0000	Sierra Leone	0.0000
Armenia	0.5927	Ethiopia	0.0000	Malawi	0.0000	Slovakia	0.8333
Australia	0.4167	Finland	0.8333	Malaysia	0.0000	Slovenia	0.9167
Austria	0.9998	France	0.6667	Mali	0.0000	South Africa	0.3159
Azerbaijan	0.0000	Gabon	0.0000	Mauritania	0.0000	South Korea	0.6667
Bangladesh	0.0000	Gambia	0.0000	Mexico	0.0000	Spain	0.8306
Belarus	1.0000	Georgia	0.8333	Moldova	1.0000	Sri Lanka	0.0000
Belgium	0.8333	Germany	1.0000	Mongolia	0.0044	Sudan	0.0000
Benin	0.0000	Ghana	0.0000	Morocco	0.0000	Sweden	0.8265
Bolivia	0.0000	Greece	0.9271	Mozambique	0.0000	Switzerland	0.8334
Botswana	0.0000	Guatemala	0.0000	Namibia	0.0132	Syria	0.0000
Brazil	0.1751	Guinea	0.0000	Nepal	0.0000	Tajikistan	0.0000
Bulgaria	1.0000	Guinea Bis.	0.0000	Netherlands	0.8333	Tanzania	0.0000
Burkina Faso	0.0000	Honduras	0.0000	New Zealand	0.4167	Thailand	0.5787
Burundi	0.0000	Hungary	1.0000	Nicaragua	0.0000	Togo	0.0000
C. African R.	0.0000	India	0.0000	Niger	0.0000	Tunisia	0.0000
Cambodia	0.0000	Indonesia	0.0000	Nigeria	0.0000	Turkey	0.0000
Cameroon	0.0000	Iran	0.0000	Norway	0.6676	UAE	0.0000
Canada	0.6667	Ireland	0.1667	Oman	0.0000	Uganda	0.0000
Chad	0.0000	Israel	0.0000	Pakistan	0.0000	UK	0.6667
Chile	0.1861	Italy	1.0000	Panama	0.0000	Ukraine	1.0000
China	0.5833	Japan	1.0000	Papua N.G.	0.0000	Uruguay	0.6402
Colombia	0.0000	Jordan	0.0000	Paraguay	0.0000	USA	0.5833
Congo	0.0000	Kazakhstan	0.0000	Peru	0.0000	Uzbekistan	0.0000
Cote d'Ivoire	0.0000	Kenya	0.0000	Philippines	0.0000	Venezuela	0.0000
Croatia	0.9994	Kuwait	0.0000	Poland	0.9167	Vietnam	0.1667
Czech Rep.	1.0000	Kyrgyzstan	0.0000	Portugal	1.0000	Yemen	0.0000
D.R. Congo	0.0000	Laos	0.0000	Romania	1.0000	Zambia	0.0000
Denmark	0.8725	Latvia	1.0000	Russia	1.0000	Zimbabwe	0.0641

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.2887	Min	0.0000	Std. Deviation	0.4037	5 Percentile	0.0000
Missing	0	Median	0.0000	Max	1.0000			95 Percentile	1.0000





**Indicator: Poverty****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Policy**Tertiary indicator:** Pressure**Explanation:** National poverty rate is the percentage of population living below the national poverty line. The latter is usually estimated by finding the total cost of all the essential resources that an average human adult consumes in one year.**Sources:** World Bank (<http://data.worldbank.org/indicator/SI.POV.NAHC>)**Period:** 1990-2011**Units:** percent of population**Most recent data**

Albania	12.4000	Ecuador	28.6000	Lebanon	-	Rwanda	44.9000
Algeria	-	Egypt	22.0000	Lithuania	-	Saudi Arabia	-
Angola	-	El Salvador	42.5000	Macedonia, FYR	19.0000	Senegal	46.7000
Argentina	-	Estonia	-	Madagascar	68.7000	Sierra Leone	66.4000
Armenia	35.8000	Ethiopia	29.6000	Malawi	50.7000	Slovakia	-
Australia	12.2000*	Finland	-	Malaysia	3.8000	Slovenia	-
Austria	-	France	-	Mali	43.6000	South Africa	23.0000
Azerbaijan	15.8000	Gabon	32.7000	Mauritania	42.0000	South Korea	15.0000*
Bangladesh	31.5100	Gambia	48.4000	Mexico	51.3000	Spain	-
Belarus	5.4000	Georgia	24.7000	Moldova	21.9000	Sri Lanka	8.9000
Belgium	-	Germany	-	Mongolia	39.2000	Sudan	46.5000
Benin	33.3000	Ghana	28.5000	Morocco	9.0000	Sweden	5.4000*
Bolivia	51.3000	Greece	12.5000*	Mozambique	54.7000	Switzerland	-
Botswana	30.6000	Guatemala	53.7000	Namibia	28.7000	Syria	-
Brazil	21.4000	Guinea	55.2000	Nepal	25.2000	Tajikistan	46.7000
Bulgaria	10.6000	Guinea Bis.	55.2000	Netherlands	-	Tanzania	33.4000
Burkina Faso	46.7000	Honduras	66.2000	New Zealand	10.5000*	Thailand	13.1500
Burundi	66.9000	Hungary	-	Nicaragua	42.5000	Togo	58.7000
C. African R.	62.0000	India	29.8000	Niger	59.5000	Tunisia	15.5000
Cambodia	30.1000	Indonesia	12.0000	Nigeria	62.6000	Turkey	18.1000
Cameroon	39.9000	Iran	-	Norway	-	UAE	-
Canada	-	Ireland	-	Oman	-	Uganda	24.5000
Chad	55.0000	Israel	-	Pakistan	22.3000	UK	-
Chile	15.1000	Italy	11.5000*	Panama	32.7000	Ukraine	2.9000
China	2.8000	Japan	11.5000*	Papua N.G.	37.5000	Uruguay	13.7000
Colombia	34.1000	Jordan	13.3000	Paraguay	32.4000	USA	-
Congo	46.5000	Kazakhstan	5.3000	Peru	27.8000	Uzbekistan	-
Cote d'Ivoire	42.7000	Kenya	45.9000	Philippines	26.5000	Venezuela	31.9000
Croatia	11.1000	Kuwait	0.0000*	Poland	10.6000	Vietnam	20.7000
Czech Rep.	5.8000*	Kyrgyzstan	33.7000	Portugal	13.0000*	Yemen	34.8000
D.R. Congo	71.3000	Laos	27.6000	Romania	13.8000	Zambia	60.5000
Denmark	5.3000*	Latvia	21.4000*	Russia	11.1000	Zimbabwe	72.0000

\* denotes estimated values

**Descriptive Statistics - based on most recent data**

Available	99	Mean	31.0238	Min	0.0000	Std. Deviation	18.9475	5 Percentile	5.3000
Missing	29	Median	29.6000	Max	72.0000			95 Percentile	66.2200

## Normalization

Type *SB (smaller is better)* Parameters *T=0.0000* *U=29.6000*  
 Comments *T=minimum possible* *U=median*

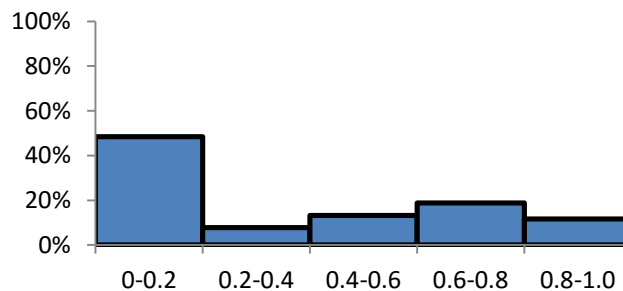
## Smoothed data

Albania	0.5811	Ecuador	0.0338	Lebanon	0.0169**	Rwanda	0.0000
Algeria	0.6959**	Egypt	0.2774	Lithuania	0.7230**	Saudi Arabia	0.5507**
Angola	0.0000**	El Salvador	0.0000	Macedonia, FYR	0.3500	Senegal	0.0000
Argentina	0.2770**	Estonia	0.6419**	Madagascar	0.0000	Sierra Leone	0.0000
Armenia	0.0169	Ethiopia	0.0000	Malawi	0.0000	Slovakia	0.8041**
Australia	0.5878*	Finland	0.8193**	Malaysia	0.8716	Slovenia	0.6419**
Austria	0.7331**	France	0.7331**	Mali	0.0000	South Africa	0.2230*
Azerbaijan	0.4662	Gabon	0.0000	Mauritania	0.0000	South Korea	0.4932*
Bangladesh	0.0000	Gambia	0.0000	Mexico	0.0000	Spain	0.8041**
Belarus	0.8176	Georgia	0.1897	Moldova	0.2053	Sri Lanka	0.6993
Belgium	0.7331**	Germany	0.6115**	Mongolia	0.0000	Sudan	0.0000
Benin	0.0000	Ghana	0.0372	Morocco	0.6959	Sweden	0.8176*
Bolivia	0.0000	Greece	0.5777*	Mozambique	0.0000	Switzerland	0.6115**
Botswana	0.0000	Guatemala	0.0000	Namibia	0.0304	Syria	0.4696**
Brazil	0.2770	Guinea	0.0000	Nepal	0.1486	Tajikistan	0.0000
Bulgaria	0.6419	Guinea Bis.	0.0000	Netherlands	0.8193**	Tanzania	0.0000
Burkina Faso	0.0000	Honduras	0.0000	New Zealand	0.6453*	Thailand	0.5557
Burundi	0.0000	Hungary	0.6419**	Nicaragua	0.0000	Togo	0.0000
C. African R.	0.0000	India	0.0000	Niger	0.0000	Tunisia	0.4764
Cambodia	0.0000	Indonesia	0.5946	Nigeria	0.0000	Turkey	0.3885
Cameroon	0.0000	Iran	0.0000**	Norway	0.8193**	UAE	1.0000**
Canada	0.6115**	Ireland	0.7331**	Oman	0.5507**	Uganda	0.1723
Chad	0.0000	Israel	0.5777**	Pakistan	0.2466	UK	0.7331**
Chile	0.4899	Italy	0.6115*	Panama	0.0000	Ukraine	0.9020
China	0.9054	Japan	0.6115*	Papua N.G.	0.0000	Uruguay	0.5372
Colombia	0.0000	Jordan	0.5507	Paraguay	0.0000	USA	0.6419**
Congo	0.0000	Kazakhstan	0.8209	Peru	0.0608	Uzbekistan	0.2736**
Cote d'Ivoire	0.0000	Kenya	0.0000	Philippines	0.1057	Venezuela	0.0000
Croatia	0.6250	Kuwait	1.0000*	Poland	0.6419	Vietnam	0.3007
Czech Rep.	0.8041*	Kyrgyzstan	0.0000	Portugal	0.5608*	Yemen	0.0000
D.R. Congo	0.0000*	Laos	0.0676	Romania	0.5338	Zambia	0.0000*
Denmark	0.8209*	Latvia	0.6081*	Russia	0.6250	Zimbabwe	0.0000

\* denotes estimated values      \*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.3248	Min	0.0000	Std. Deviation	0.3320	5 Percentile	0.0000
Missing	0	Median	0.2348	Max	1.0000			95 Percentile	0.8204



## Indicator: Primary education teaching staff

**Primary indicator:** Human Sustainability (HUMS)

**Secondary indicator:** Knowledge

**Tertiary indicator:** Pressure

**Explanation:** Teaching staff includes (OECD, 2000) professional personnel involved in direct student instruction: classroom teachers, special education teachers, other teachers who work with students as a whole class, and chairpersons of departments; it does not include nonprofessional personnel who support teachers.

**Sources:** UNESCO Institute for Statistics (UIS)  
([http://stats.uis.unesco.org/unesco/TableViewer/document.aspx?ReportId=136&IF\\_Language=eng&BR\\_Topic=0](http://stats.uis.unesco.org/unesco/TableViewer/document.aspx?ReportId=136&IF_Language=eng&BR_Topic=0))

**Period:** 1990-2011

**Units:** ratio of students to teaching staff

### Most recent data

Albania	19.8692	Ecuador	18.1222	Lebanon	14.2310	Rwanda	58.0944
Algeria	23.2690	Egypt	27.7344	Lithuania	12.4121	Saudi Arabia	11.0106
Angola	45.5865	El Salvador	29.2857	Macedonia, FYR	15.9388	Senegal	32.9396
Argentina	16.3314	Estonia	11.7235	Madagascar	43.2449	Sierra Leone	31.3312
Armenia	19.3076	Ethiopia	55.0693	Malawi	76.0736	Slovakia	15.0784
Australia	17.8758	Finland	13.6709	Malaysia	12.7223	Slovenia	16.7077
Austria	10.8940	France	17.5183	Mali	48.4734	South Africa	30.7051
Azerbaijan	11.1645	Gabon	24.5310	Mauritania	39.2944	South Korea	20.9179
Bangladesh	40.2115	Gambia	37.6185	Mexico	28.1120	Spain	12.3988
Belarus	14.9637	Georgia	8.1578	Moldova	15.3188	Sri Lanka	24.0657
Belgium	11.0343	Germany	12.6838	Mongolia	29.3232	Sudan	38.3754
Benin	44.2007	Ghana	32.9836	Morocco	25.8355	Sweden	9.2663
Bolivia	24.2192	Greece	10.2889	Mozambique	54.8422	Switzerland	-
Botswana	25.4169	Guatemala	26.8672	Namibia	29.7784	Syria	25.3285
Brazil	21.2851	Guinea	43.5556	Nepal	27.5331	Tajikistan	23.2746
Bulgaria	17.4901	Guinea Bis.	51.9252	Netherlands	18.3576	Tanzania	45.5678
Burkina Faso	48.2390	Honduras	33.8765	New Zealand	14.4885	Thailand	15.9922
Burundi	48.3114	Hungary	10.5392	Nicaragua	30.2164	Togo	41.6778
C. African R.	81.3105	India	40.2000	Niger	38.7552	Tunisia	17.3521
Cambodia	47.2916	Indonesia	15.9435	Nigeria	36.0261	Turkey	27.7452
Cameroon	45.4377	Iran	20.4884	Norway	-	UAE	17.0340
Canada	17.4160	Ireland	15.5707	Oman	19.9090	Uganda	47.7760
Chad	62.5906	Israel	13.0588	Pakistan	39.8326	UK	17.5271
Chile	21.9740	Italy	10.3260	Panama	23.0112	Ukraine	15.8335
China	16.7884	Japan	17.7728	Papua N.G.	35.8176	Uruguay	13.7940
Colombia	27.5797	Jordan	19.9324	Paraguay	27.8435	USA	13.5908
Congo	49.1457	Kazakhstan	16.1910	Peru	19.5637	Uzbekistan	15.6244
Cote d'Ivoire	48.8462	Kenya	46.7802	Philippines	31.4357	Venezuela	-
Croatia	14.2561	Kuwait	8.6090	Poland	9.3166	Vietnam	19.6316
Czech Rep.	18.8211	Kyrgyzstan	24.9164	Portugal	10.8294	Yemen	30.2528
D.R. Congo	37.3709	Laos	26.8085	Romania	16.1126	Zambia	62.6485
Denmark	9.9330	Latvia	11.4136	Russia	18.0630	Zimbabwe	39.2896

### Descriptive Statistics - based on most recent data

Available	125	Mean	26.9291	Min	8.1578	Std. Deviation	15.0007	5 Percentile	10.3686
Missing	3	Median	23.0112	Max	81.3105			95 Percentile	54.2588

## Normalization

Type *SB (smaller is better)* Parameters *T=12.8785* *U=76.0736*  
 Comments *T=average of EU-14* *U=max (excluding 1%outliers)*

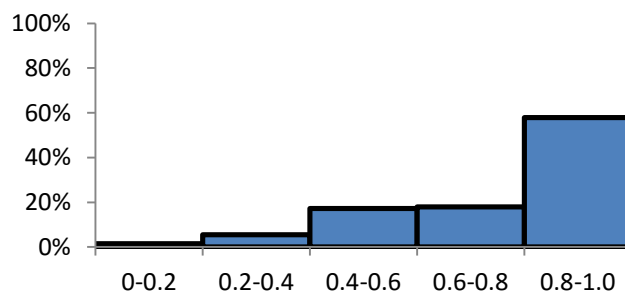
## Smoothed data

Albania	0.8895	Ecuador	0.9170	Lebanon	0.9787	Rwanda	0.2808
Algeria	0.8356	Egypt	0.7669	Lithuania	1.0000	Saudi Arabia	1.0000
Angola	0.5007	El Salvador	0.7404	Macedonia, FYR	0.9516	Senegal	0.6820
Argentina	0.9454	Estonia	1.0000	Madagascar	0.5236	Sierra Leone	0.6613
Armenia	0.8826	Ethiopia	0.3324	Malawi	0.0000	Slovakia	0.9641
Australia	0.9209	Finland	0.9875	Malaysia	1.0000	Slovenia	0.9394
Austria	1.0000	France	0.9243	Mali	0.4367	South Africa	0.7164
Azerbaijan	1.0000	Gabon	0.8156	Mauritania	0.5820	South Korea	0.8728
Bangladesh	0.5675	Gambia	0.6107	Mexico	0.7589	Spain	1.0000
Belarus	0.9670	Georgia	1.0000	Moldova	0.9614	Sri Lanka	0.8230
Belgium	1.0000	Germany	1.0000	Mongolia	0.7398	Sudan	0.5965
Benin	0.5044	Ghana	0.6909	Morocco	0.7948	Sweden	1.0000
Bolivia	0.8210	Greece	1.0000	Mozambique	0.3360	Switzerland	0.9715**
Botswana	0.8016	Guatemala	0.7786	Namibia	0.7312	Syria	0.8065
Brazil	0.8670	Guinea	0.5146	Nepal	0.7681	Tajikistan	0.8293
Bulgaria	0.9290	Guinea Bis.	0.3815	Netherlands	0.9331	Tanzania	0.4827
Burkina Faso	0.4405	Honduras	0.6853	New Zealand	0.9739	Thailand	0.9441
Burundi	0.4324	Hungary	1.0000	Nicaragua	0.7258	Togo	0.5459
C. African R.	0.0000	India	0.5677	Niger	0.5897	Tunisia	0.9292
Cambodia	0.4554	Indonesia	0.9515	Nigeria	0.5880	Turkey	0.7647
Cameroon	0.4848	Iran	0.8796	Norway	0.9958**	UAE	0.9366
Canada	0.9282	Ireland	0.9568	Oman	0.8887	Uganda	0.4478
Chad	0.2135	Israel	0.9971	Pakistan	0.5735	UK	0.9231
Chile	0.8561	Italy	1.0000	Panama	0.8397	Ukraine	0.9532
China	0.9381	Japan	0.9223	Papua N.G.	0.6394	Uruguay	0.9855
Colombia	0.7674	Jordan	0.8884	Paraguay	0.7677	USA	0.9883
Congo	0.2926	Kazakhstan	0.9476	Peru	0.8941	Uzbekistan	0.9565
Cote d'Ivoire	0.4605	Kenya	0.4635	Philippines	0.7064	Venezuela	0.8941**
Croatia	0.9782	Kuwait	1.0000	Poland	1.0000	Vietnam	0.8931
Czech Rep.	0.9060	Kyrgyzstan	0.8095	Portugal	1.0000	Yemen	0.7250
D.R. Congo	0.6100	Laos	0.7796	Romania	0.9488	Zambia	0.2200
Denmark	1.0000	Latvia	1.0000	Russia	0.9180	Zimbabwe	0.5830

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.7763	Min	0.0000	Std. Deviation	0.2303	5 Percentile	0.3336
Missing	0	Median	0.8615	Max	1.0000			95 Percentile	1.0000



## Indicator: Primary net school enrollment

**Primary indicator:** Human Sustainability (HUMS)

**Secondary indicator:** Knowledge

**Tertiary indicator:** State

**Explanation:** Number of children of official school age, as defined by the education system, enrolled in primary school, expressed as percentage of the total number of children of that age.

**Sources:** World Bank (<http://data.worldbank.org/indicator/SE.PRM.NENR>)

**Period:** 1990-2011

**Units:** percent of children

### Most recent data

Albania	96.4853	Ecuador	98.6134	Lebanon	94.9063	Rwanda	98.7470
Algeria	96.2135	Egypt	96.7038	Lithuania	91.0767	Saudi Arabia	96.5486
Angola	85.6512	El Salvador	94.3352	Macedonia, FYR	87.9704	Senegal	75.6632
Argentina	99.1148	Estonia	95.0179	Madagascar	79.1635	Sierra Leone	-
Armenia	81.5759	Ethiopia	86.4940	Malawi	96.8961	Slovakia	-
Australia	97.0810	Finland	97.6624	Malaysia	95.8914	Slovenia	97.3798
Austria	-	France	98.5093	Mali	62.9303	South Africa	85.1006
Azerbaijan	86.6126	Gabon	91.8160	Mauritania	74.4869	South Korea	98.5744
Bangladesh	72.6526	Gambia	67.5392	Mexico	97.8436	Spain	99.7185
Belarus	91.3496	Georgia	98.0938	Moldova	87.8111	Sri Lanka	94.0276
Belgium	98.8692	Germany	97.6536	Mongolia	98.5809	Sudan	42.9976
Benin	92.0857	Ghana	82.0562	Morocco	87.5100	Sweden	99.3672
Bolivia	87.9691	Greece	99.0413	Mozambique	89.6197	Switzerland	93.7961
Botswana	87.0709	Guatemala	95.8071	Namibia	85.1316	Syria	93.4125
Brazil	94.4244	Guinea	81.3574	Nepal	71.1321	Tajikistan	96.8950
Bulgaria	97.9541	Guinea Bis.	73.9150	Netherlands	99.7634	Tanzania	97.9893
Burkina Faso	63.1740	Honduras	97.2597	New Zealand	99.3121	Thailand	89.6800
Burundi	89.7400	Hungary	92.8121	Nicaragua	92.4787	Togo	91.8465
C. African R.	68.5143	India	92.0752	Niger	62.4870	Tunisia	99.4156
Cambodia	98.2463	Indonesia	96.4917	Nigeria	57.5523	Turkey	98.9240
Cameroon	91.8891	Iran	99.7591	Norway	99.1450	UAE	88.3766
Canada	99.8125	Ireland	95.1218	Oman	96.6150	Uganda	93.7616
Chad	62.2855	Israel	97.0505	Pakistan	72.1459	UK	99.5194
Chile	94.3590	Italy	97.4423	Panama	96.8866	Ukraine	91.6700
China	96.4059	Japan	99.9713	Papua N.G.	-	Uruguay	99.5305
Colombia	87.0950	Jordan	90.6575	Paraguay	83.5804	USA	94.5546
Congo	92.5551	Kazakhstan	86.5061	Peru	94.5138	Uzbekistan	89.7985
Cote d'Ivoire	61.4817	Kenya	82.7824	Philippines	88.2780	Venezuela	92.7086
Croatia	86.8177	Kuwait	92.1025	Poland	96.6479	Vietnam	99.3406
Czech Rep.	-	Kyrgyzstan	88.3878	Portugal	99.1863	Yemen	75.9724
D.R. Congo	33.0700	Laos	97.3516	Romania	87.5866	Zambia	95.4890
Denmark	95.4496	Latvia	95.0535	Russia	93.3655	Zimbabwe	-

### Descriptive Statistics - based on most recent data

Available	122	Mean	89.6127	Min	33.0700	Std. Deviation	11.9458	5 Percentile	62.9425
Missing	6	Median	93.7789	Max	99.9713			95 Percentile	99.5142

## Normalization

Type *LB (larger is better)* Parameters  $u=33.0700$   $\tau=98.2542$   
 Comments  $u=\min$   $r=\text{average of EU-14}$

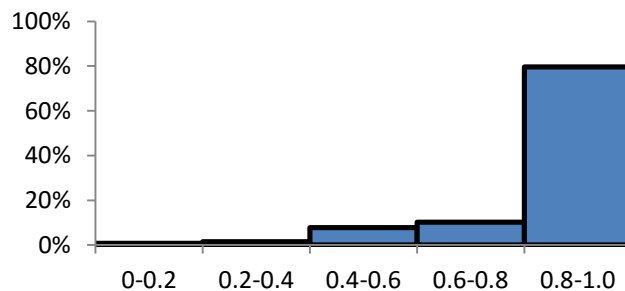
## Smoothed data

Albania	0.9729	Ecuador	1.0000	Lebanon	0.9486	Rwanda	0.9843
Algeria	0.9687	Egypt	0.9762	Lithuania	0.8899	Saudi Arabia	0.9738
Angola	0.8096	El Salvador	0.9399	Macedonia, FYR	0.8422	Senegal	0.6534
Argentina	1.0000	Estonia	0.9504	Madagascar	0.7071	Sierra Leone	0.5420**
Armenia	0.7646	Ethiopia	0.8196	Malawi	0.9689	Slovakia	0.8877**
Australia	0.9820	Finland	0.9909	Malaysia	0.9662	Slovenia	0.9866
Austria	0.9845**	France	1.0000	Mali	0.4581	South Africa	0.8039
Azerbaijan	0.8214	Gabon	0.9012	Mauritania	0.6354	South Korea	1.0000
Bangladesh	0.6072	Gambia	0.5263	Mexico	0.9937	Spain	1.0000
Belarus	0.8887	Georgia	0.9975	Moldova	0.8398	Sri Lanka	0.9351
Belgium	1.0000	Germany	0.9908	Mongolia	1.0000	Sudan	0.1242
Benin	0.9054	Ghana	0.7549	Morocco	0.8352	Sweden	1.0000
Bolivia	0.8422	Greece	1.0000	Mozambique	0.8675	Switzerland	0.9316
Botswana	0.8284	Guatemala	0.9625	Namibia	0.7989	Syria	0.9257
Brazil	0.9344	Guinea	0.7408	Nepal	0.5839	Tajikistan	0.9803
Bulgaria	0.9954	Guinea Bis.	0.6266	Netherlands	1.0000	Tanzania	0.9959
Burkina Faso	0.4618	Honduras	0.9757	New Zealand	0.9972	Thailand	0.8685
Burundi	0.8694	Hungary	0.9050	Nicaragua	0.9114	Togo	0.9017
C. African R.	0.5438	India	0.9052	Niger	0.4513	Tunisia	1.0000
Cambodia	0.9999	Indonesia	0.9729	Nigeria	0.3756	Turkey	1.0000
Cameroon	0.8991	Iran	1.0000	Norway	1.0000	UAE	0.8485
Canada	1.0000	Ireland	0.9519	Oman	0.9749	Uganda	0.9180
Chad	0.4482	Israel	0.9813	Pakistan	0.5995	UK	0.9981
Chile	0.9442	Italy	0.9875	Panama	0.9830	Ukraine	0.8979
China	0.9716	Japan	1.0000	Papua N.G.	0.6072**	Uruguay	0.9991
Colombia	0.8288	Jordan	0.8835	Paraguay	0.7749	USA	0.9432
Congo	0.9126	Kazakhstan	0.8198	Peru	0.9435	Uzbekistan	0.8703
Cote d'Ivoire	0.4358	Kenya	0.7607	Philippines	0.8463	Venezuela	0.9149
Croatia	0.8246	Kuwait	0.9052	Poland	0.9754	Vietnam	1.0000
Czech Rep.	0.9402**	Kyrgyzstan	0.8381	Portugal	0.9968	Yemen	0.6582
D.R. Congo	0.2997	Laos	0.9862	Romania	0.8363	Zambia	0.9576
Denmark	0.9577	Latvia	0.9509	Russia	0.9250	Zimbabwe	0.8991**

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8639	Min	0.1242	Std. Deviation	0.1720	5 Percentile	0.4594
Missing	0	Median	0.9254	Max	1.0000			95 Percentile	1.0000



**Indicator: Protected area****Primary indicator:** Ecological Sustainability (ECOS), Ecological Sustainability (ECOS)**Secondary indicator:** Land, Biodiversity**Tertiary indicator:** Response, Response**Explanation:** 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 areas, unclassified areas, littoral (intertidal) areas, and sites protected under local or provincial law are excluded.**Sources:** World Bank (<http://data.worldbank.org/indicator/ER.LND.PTLD.ZS>)**Period:** 1990-2011**Units:** percent of total land area**Most recent data**

Albania	9.8466	Ecuador	25.1015	Lebanon	0.4773	Rwanda	9.9865
Algeria	6.3083	Egypt	5.8857	Lithuania	14.5233	Saudi Arabia	31.2621
Angola	12.3998	El Salvador	0.8269	Macedonia, FYR	4.8730	Senegal	24.0890
Argentina	5.4664	Estonia	20.4417	Madagascar	3.0588	Sierra Leone	4.9495
Armenia	7.9916	Ethiopia	18.3984	Malawi	15.0176	Slovakia	23.1847
Australia	10.5502	Finland	9.0290	Malaysia	18.1021	Slovenia	13.1668
Austria	22.9314	France	16.5388	Mali	2.4339	South Africa	6.9010
Azerbaijan	7.1495	Gabon	15.1382	Mauritania	0.5363	South Korea	2.3978
Bangladesh	1.8100	Gambia	1.5321	Mexico	11.1346	Spain	8.5928
Belarus	7.2213	Georgia	3.6526	Moldova	1.3757	Sri Lanka	21.4642
Belgium	13.7708	Germany	42.4214	Mongolia	13.3862	Sudan	4.2221
Benin	23.8074	Ghana	14.6711	Morocco	1.5492	Sweden	10.8752
Bolivia	18.5071	Greece	16.2225	Mozambique	15.8274	Switzerland	24.8503
Botswana	30.9337	Guatemala	30.6296	Namibia	14.9373	Syria	0.6381
Brazil	26.2786	Guinea	6.7752	Nepal	16.9979	Tajikistan	4.1368
Bulgaria	9.1892	Guinea Bis.	16.0570	Netherlands	12.4209	Tanzania	27.5331
Burkina Faso	14.2435	Honduras	18.1735	New Zealand	26.2041	Thailand	20.0902
Burundi	4.8494	Hungary	5.1424	Nicaragua	36.7231	Togo	11.2571
C. African R.	17.7443	India	5.0250	Niger	7.0693	Tunisia	1.2969
Cambodia	25.7705	Indonesia	14.1500	Nigeria	12.8449	Turkey	1.8916
Cameroon	9.1541	Iran	7.0799	Norway	14.5634	UAE	5.6170
Canada	7.5062	Ireland	1.7821	Oman	10.6770	Uganda	10.2607
Chad	9.3858	Israel	17.8344	Pakistan	10.1253	UK	26.3517
Chile	16.5509	Italy	15.0566	Panama	18.6999	Ukraine	3.5110
China	16.6364	Japan	16.4781	Papua N.G.	3.0736	Uruguay	0.2592
Colombia	20.8958	Jordan	1.9085	Paraguay	5.4449	USA	12.3765
Congo	9.4477	Kazakhstan	2.5206	Peru	13.6223	Uzbekistan	2.2577
Cote d'Ivoire	22.5900	Kenya	11.7565	Philippines	10.8629	Venezuela	53.7527
Croatia	12.9529	Kuwait	1.5865	Poland	22.4186	Vietnam	6.2352
Czech Rep.	15.0542	Kyrgyzstan	6.9417	Portugal	8.3011	Yemen	0.5207
D.R. Congo	9.9875	Laos	16.6180	Romania	7.1256	Zambia	36.0446
Denmark	4.8638	Latvia	17.9605	Russia	9.0686	Zimbabwe	28.0087

**Descriptive Statistics - based on most recent data**

Available	128	Mean	12.7858	Min	0.2592	Std. Deviation	9.5267	5 Percentile	1.3245
Missing	0	Median	11.0049	Max	53.7527			95 Percentile	29.7123



## Normalization

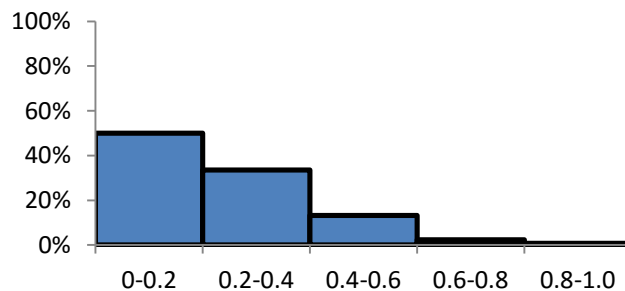
Type *LB (larger is better)* Parameters  $u=0.2592$   $\tau=53.7527$   
 Comments  $u=\min$   $r=\max$

## Smoothed data

Albania	0.1792	Ecuador	0.4644	Lebanon	0.0041	Rwanda	0.1818
Algeria	0.1131	Egypt	0.1052	Lithuania	0.2667	Saudi Arabia	0.5796
Angola	0.2270	El Salvador	0.0106	Macedonia, FYR	0.0862	Senegal	0.4455
Argentina	0.0973	Estonia	0.3773	Madagascar	0.0523	Sierra Leone	0.0877
Armenia	0.1445	Ethiopia	0.3391	Malawi	0.2759	Slovakia	0.4286
Australia	0.1924	Finland	0.1639	Malaysia	0.3336	Slovenia	0.2413
Austria	0.4238	France	0.3043	Mali	0.0407	South Africa	0.1242
Azerbaijan	0.1288	Gabon	0.2781	Mauritania	0.0052	South Korea	0.0400
Bangladesh	0.0290	Gambia	0.0238	Mexico	0.2033	Spain	0.1558
Belarus	0.1301	Georgia	0.0634	Moldova	0.0209	Sri Lanka	0.3964
Belgium	0.2526	Germany	0.7882	Mongolia	0.2454	Sudan	0.0741
Benin	0.4402	Ghana	0.2694	Morocco	0.0241	Sweden	0.1985
Bolivia	0.3411	Greece	0.2984	Mozambique	0.2910	Switzerland	0.4597
Botswana	0.5734	Guatemala	0.5677	Namibia	0.2744	Syria	0.0071
Brazil	0.4864	Guinea	0.1218	Nepal	0.3129	Tajikistan	0.0725
Bulgaria	0.1669	Guinea Bis.	0.2953	Netherlands	0.2273	Tanzania	0.5099
Burkina Faso	0.2614	Honduras	0.3349	New Zealand	0.4850	Thailand	0.3707
Burundi	0.0858	Hungary	0.0913	Nicaragua	0.6817	Togo	0.2056
C. African R.	0.3269	India	0.0891	Niger	0.1273	Tunisia	0.0194
Cambodia	0.4769	Indonesia	0.2597	Nigeria	0.2353	Turkey	0.0305
Cameroon	0.1663	Iran	0.1275	Norway	0.2674	UAE	0.1002
Canada	0.1355	Ireland	0.0285	Oman	0.1947	Uganda	0.1870
Chad	0.1706	Israel	0.3285	Pakistan	0.1844	UK	0.4878
Chile	0.3046	Italy	0.2766	Panama	0.3447	Ukraine	0.0608
China	0.3062	Japan	0.3032	Papua N.G.	0.0526	Uruguay	0.0000
Colombia	0.3858	Jordan	0.0308	Paraguay	0.0969	USA	0.2265
Congo	0.1718	Kazakhstan	0.0423	Peru	0.2498	Uzbekistan	0.0374
Cote d'Ivoire	0.4174	Kenya	0.2149	Philippines	0.1982	Venezuela	1.0000
Croatia	0.2373	Kuwait	0.0248	Poland	0.4142	Vietnam	0.1117
Czech Rep.	0.2766	Kyrgyzstan	0.1249	Portugal	0.1503	Yemen	0.0049
D.R. Congo	0.1819	Laos	0.3058	Romania	0.1284	Zambia	0.6690
Denmark	0.0861	Latvia	0.3309	Russia	0.1647	Zimbabwe	0.5187

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.2342	Min	0.0000	Std. Deviation	0.1781	5 Percentile	0.0199
Missing	0	Median	0.2009	Max	1.0000			95 Percentile	0.5506



## Indicator: Public expenditure on education

**Primary indicator:** Human Sustainability (HUMS)

**Secondary indicator:** Knowledge

**Tertiary indicator:** Response

**Explanation:** Public expenditure on education as % of GDP is the total public expenditure (current and capital) on education expressed as a percentage of the Gross Domestic Product (GDP) in a given year. Public expenditure on education includes government spending on educational institutions (both public and private), education administration, and transfers/subsidies for private entities (students/households and other private entities).

**Sources:** World Bank (<http://data.worldbank.org/indicator/SE.XPD.TOTL.GD.ZS>)

**Period:** 1990-2011

**Units:** percent of GDP

### Most recent data

Albania	3.2676	Ecuador	4.8896	Lebanon	1.6456	Rwanda	4.7733
Algeria	4.3373	Egypt	3.7608	Lithuania	5.6673	Saudi Arabia	5.6070
Angola	3.4764	El Salvador	3.4301	Macedonia, FYR	3.4978	Senegal	5.6336
Argentina	5.7820	Estonia	6.1204	Madagascar	2.7758	Sierra Leone	3.5995
Armenia	3.2106	Ethiopia	4.6868	Malawi	5.3534	Slovakia	4.0894
Australia	5.1180	Finland	6.8130	Malaysia	5.1314	Slovenia	5.7035
Austria	5.9770	France	5.9006	Mali	4.8348	South Africa	5.9830
Azerbaijan	2.7806	Gabon	3.8271	Mauritania	3.8689	South Korea	5.0499
Bangladesh	2.2338	Gambia	3.9251	Mexico	5.3079	Spain	5.0117
Belarus	5.2478	Georgia	2.7090	Moldova	8.5779	Sri Lanka	1.9659
Belgium	6.5660	Germany	5.0568	Mongolia	5.4762	Sudan	-
Benin	5.3452	Ghana	8.2168	Morocco	5.3758	Sweden	7.2612
Bolivia	7.6001	Greece	4.0911	Mozambique	5.0068	Switzerland	5.3580
Botswana	7.8428	Guatemala	2.8029	Namibia	8.2983	Syria	5.1333
Brazil	5.6215	Guinea	3.0666	Nepal	4.7170	Tajikistan	3.9354
Bulgaria	4.5783	Guinea Bis.	5.2462	Netherlands	5.9206	Tanzania	6.1812
Burkina Faso	4.0080	Honduras	3.5788	New Zealand	7.2429	Thailand	3.7526
Burundi	6.0743	Hungary	5.1197	Nicaragua	4.6607	Togo	4.6036
C. African R.	1.2291	India	3.3301	Niger	4.4814	Tunisia	6.2283
Cambodia	2.6039	Indonesia	2.9992	Nigeria	-	Turkey	2.8625
Cameroon	3.2164	Iran	4.6659	Norway	7.3200	UAE	1.1019
Canada	5.0025	Ireland	6.4982	Oman	4.3238	Uganda	3.2818
Chad	2.8936	Israel	5.8499	Pakistan	2.3724	UK	5.5990
Chile	4.2050	Italy	4.6951	Panama	4.0919	Ukraine	5.2822
China	1.9067	Japan	3.7814	Papua N.G.	-	Uruguay	2.8803
Colombia	4.4900	Jordan	4.9427	Paraguay	4.1204	USA	5.4339
Congo	6.2208	Kazakhstan	3.0607	Peru	2.5896	Uzbekistan	-
Cote d'Ivoire	4.6030	Kenya	6.6684	Philippines	2.6530	Venezuela	3.6273
Croatia	4.4199	Kuwait	3.7600	Poland	5.0924	Vietnam	6.5566
Czech Rep.	4.3615	Kyrgyzstan	5.8188	Portugal	5.7914	Yemen	5.1513
D.R. Congo	2.5090	Laos	3.3120	Romania	4.3249	Zambia	1.3454
Denmark	8.7400	Latvia	5.0295	Russia	4.1018	Zimbabwe	2.5013

### Descriptive Statistics - based on most recent data

Available	124	Mean	4.6229	Min	1.1019	Std. Deviation	1.5718	5 Percentile	2.2546
Missing	4	Median	4.6764	Max	8.7400			95 Percentile	7.3112

## Normalization

Type *LB (larger is better)*

Parameters  $u=1.2291$

$\tau=5.8321$

Comments  $u=\min$  (excluding 1% outliers)

$r=\text{average of EU-14, USA, Canada, Australia, Japan and Norway}$

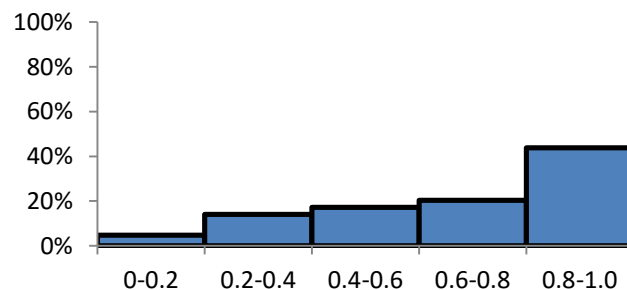
## Smoothed data

Albania	0.4258	Ecuador	0.2515	Lebanon	0.0909	Rwanda	0.7356
Algeria	0.6752	Egypt	0.5500	Lithuania	0.9531	Saudi Arabia	0.9715
Angola	0.4882	El Salvador	0.4669	Macedonia, FYR	0.4929	Senegal	0.9567
Argentina	0.9891	Estonia	1.0000	Madagascar	0.3402	Sierra Leone	0.5150
Armenia	0.4509	Ethiopia	0.7662	Malawi	0.8555	Slovakia	0.6214
Australia	0.7944	Finland	1.0000	Malaysia	0.8510	Slovenia	0.9298
Austria	0.9952	France	1.0000	Mali	0.7754	South Africa	1.0000
Azerbaijan	0.3515	Gabon	0.4775	Mauritania	0.5754	South Korea	0.8301
Bangladesh	0.2203	Gambia	0.5502	Mexico	0.8861	Spain	0.8218
Belarus	0.8698	Georgia	0.3414	Moldova	1.0000	Sri Lanka	0.1615
Belgium	0.9989	Germany	0.8316	Mongolia	0.8476	Sudan	0.7330**
Benin	0.8942	Ghana	0.9882	Morocco	0.9288	Sweden	1.0000
Bolivia	0.9998	Greece	0.6218	Mozambique	0.8207	Switzerland	0.8970
Botswana	1.0000	Guatemala	0.3694	Namibia	1.0000	Syria	0.8165
Brazil	0.9542	Guinea	0.4293	Nepal	0.7575	Tajikistan	0.5904
Bulgaria	0.6416	Guinea Bis.	0.8727	Netherlands	1.0000	Tanzania	1.0000
Burkina Faso	0.6478	Honduras	0.5105	New Zealand	0.9973	Thailand	0.5482
Burundi	1.0000	Hungary	0.8452	Nicaragua	0.3726	Togo	0.7331
C. African R.	0.0003	India	0.4564	Niger	0.6655	Tunisia	0.9995
Cambodia	0.2987	Indonesia	0.4134	Nigeria	0.9567**	Turkey	0.3082
Cameroon	0.4317	Iran	0.7742	Norway	1.0000	UAE	0.0000
Canada	0.8169	Ireland	1.0000	Oman	0.6320	Uganda	0.4461
Chad	0.2615	Israel	1.0000	Pakistan	0.2484	UK	0.9494
Chile	0.6465	Italy	0.7263	Panama	0.6164	Ukraine	0.8805
China	0.1378	Japan	0.5044	Papua N.G.	0.2203**	Uruguay	0.2750
Colombia	0.7144	Jordan	0.8068	Paraguay	0.6281	USA	0.9198
Congo	0.8963	Kazakhstan	0.3877	Peru	0.3078	Uzbekistan	0.6584**
Cote d'Ivoire	0.7330	Kenya	1.0000	Philippines	0.3093	Venezuela	0.5258
Croatia	0.6932	Kuwait	0.5498	Poland	0.8382	Vietnam	1.0000
Czech Rep.	0.6805	Kyrgyzstan	0.9971	Portugal	0.9777	Yemen	0.8521
D.R. Congo	0.2780	Laos	0.4030	Romania	0.6726	Zambia	0.0253
Denmark	1.0000	Latvia	0.8256	Russia	0.6241	Zimbabwe	0.2764

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.6791	Min	0.0000	Std. Deviation	0.2767	5 Percentile	0.2203
Missing	0	Median	0.7330	Max	1.0000			95 Percentile	1.0000



## Indicator: Public expenditure on R&D

**Primary indicator:** Human Sustainability (HUMS)

**Secondary indicator:** Knowledge

**Tertiary indicator:** Response

**Explanation:** Expenditures for research and development are current and capital expenditures (both public and private) on creative work undertaken systematically to increase knowledge, including knowledge of humanity, culture, and society, and the use of knowledge for new applications. R&D covers basic research, applied research, and experimental development.

**Sources:** World Bank (<http://data.worldbank.org/indicator/GB.XPD.RSDV.GD.ZS>)

**Period:** 1990-2011

**Units:** percent of GDP

### Most recent data

Albania	0.1531	Ecuador	0.2595	Lebanon	0.0000*	Rwanda	0.0000*
Algeria	0.0666	Egypt	0.2111	Lithuania	0.7985	Saudi Arabia	0.0836
Angola	0.0000*	El Salvador	0.0774	Macedonia, FYR	0.2253	Senegal	0.3683
Argentina	0.5951	Estonia	1.6232	Madagascar	0.1479	Sierra Leone	0.0000*
Armenia	0.2697	Ethiopia	0.2432	Malawi	0.0000*	Slovakia	0.6333
Australia	2.3736	Finland	3.8790	Malaysia	0.6348	Slovenia	2.1062
Austria	2.7501	France	2.2523	Mali	0.2491	South Africa	0.9300
Azerbaijan	0.2498	Gabon	0.6384	Mauritania	0.0000*	South Korea	3.7378
Bangladesh	-	Gambia	0.0160	Mexico	0.3950	Spain	1.3876
Belarus	0.6424	Georgia	0.1766	Moldova	0.5256	Sri Lanka	0.1144
Belgium	1.9870	Germany	2.8186	Mongolia	0.2426	Sudan	0.0000*
Benin	0.0000*	Ghana	0.2316	Morocco	0.6357	Sweden	3.3990
Bolivia	0.1570	Greece	0.6022	Mozambique	0.2057	Switzerland	2.9907
Botswana	0.5160	Guatemala	0.0553	Namibia	0.0000*	Syria	0.0000*
Brazil	1.1604	Guinea	0.0000*	Nepal	-	Tajikistan	0.0858
Bulgaria	0.5958	Guinea Bis.	0.0000*	Netherlands	1.8302	Tanzania	0.4344
Burkina Faso	0.2006	Honduras	0.0416	New Zealand	1.3014	Thailand	0.2138
Burundi	0.0000*	Hungary	1.1598	Nicaragua	0.0453	Togo	0.0000*
C. African R.	0.0000*	India	0.7575	Niger	0.0000*	Tunisia	1.1044
Cambodia	0.0498	Indonesia	0.0833	Nigeria	0.2197	Turkey	0.8434
Cameroon	0.0000*	Iran	0.7882	Norway	1.6949	UAE	0.2300*
Canada	1.7987	Ireland	1.7926	Oman	0.0000*	Uganda	0.4116
Chad	0.0000*	Israel	4.3997	Pakistan	0.4648	UK	1.7623
Chile	0.3750	Italy	1.2580	Panama	0.1938	Ukraine	0.8564
China	1.7020	Japan	3.3573	Papua N.G.	0.0000*	Uruguay	0.4339
Colombia	0.1553	Jordan	0.4347	Paraguay	0.0600	USA	2.8966
Congo	0.0000*	Kazakhstan	0.2292	Peru	0.1493	Uzbekistan	0.0000*
Cote d'Ivoire	0.0000*	Kenya	0.4168	Philippines	0.1096	Venezuela	-
Croatia	0.7302	Kuwait	0.1122	Poland	0.7354	Vietnam	0.1928
Czech Rep.	1.5637	Kyrgyzstan	0.1592	Portugal	1.5912	Yemen	0.0000*
D.R. Congo	0.4729	Laos	0.0371	Romania	0.4699	Zambia	0.3403
Denmark	3.0595	Latvia	0.6046	Russia	1.1586	Zimbabwe	0.0000*

\* denotes estimated values

### Descriptive Statistics - based on most recent data

Available	125	Mean	0.7199	Min	0.0000	Std. Deviation	0.9711	5 Percentile	0.0000
Missing	3	Median	0.2595	Max	4.3997			95 Percentile	2.9719

## Normalization

Type *LB (larger is better)*

Parameters  $u=0.0000$   $\tau=2.2627$

Comments  $u=\min$   $r=\text{average of EU-14, USA, Canada, Australia, Japan and Norway}$

## Smoothed data

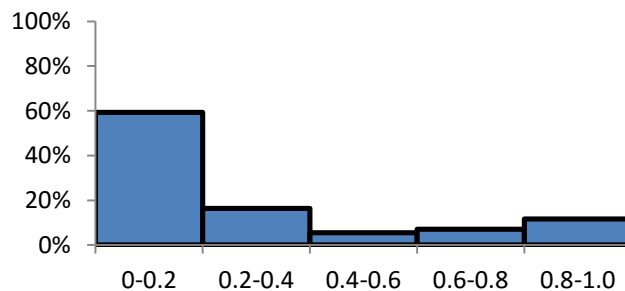
Albania	0.0677	Ecuador	0.1147	Lebanon	0.0000*	Rwanda	0.0000*
Algeria	0.0372	Egypt	0.1068	Lithuania	0.3529	Saudi Arabia	0.0369
Angola	0.0000*	El Salvador	0.0397	Macedonia, FYR	0.0949	Senegal	0.1628
Argentina	0.2630	Estonia	0.7174	Madagascar	0.0654	Sierra Leone	0.0000*
Armenia	0.0984	Ethiopia	0.0878	Malawi	0.0000*	Slovakia	0.2772
Australia	1.0000	Finland	1.0000	Malaysia	0.2806	Slovenia	0.9309
Austria	1.0000	France	0.9954	Mali	0.1101	South Africa	0.4110
Azerbaijan	0.1104	Gabon	0.2822	Mauritania	0.0000*	South Korea	0.9997
Bangladesh	0.0000**	Gambia	0.0071	Mexico	0.1690	Spain	0.6133
Belarus	0.3167	Georgia	0.0812	Moldova	0.2323	Sri Lanka	0.0706
Belgium	0.8781	Germany	1.0000	Mongolia	0.1072	Sudan	0.0000*
Benin	0.0000*	Ghana	0.1023	Morocco	0.2787	Sweden	1.0000
Bolivia	0.0694	Greece	0.2625	Mozambique	0.1831	Switzerland	1.0000
Botswana	0.2281	Guatemala	0.0244	Namibia	0.0000*	Syria	0.0000*
Brazil	0.5128	Guinea	0.0000*	Nepal	0.0000**	Tajikistan	0.0355
Bulgaria	0.2633	Guinea Bis.	0.0000*	Netherlands	0.8063	Tanzania	0.1920
Burkina Faso	0.0886	Honduras	0.0184	New Zealand	0.5693	Thailand	0.0993
Burundi	0.0000*	Hungary	0.5126	Nicaragua	0.0200	Togo	0.0000*
C. African R.	0.0000*	India	0.3348	Niger	0.0000*	Tunisia	0.4881
Cambodia	0.0220	Indonesia	0.0293	Nigeria	0.0971	Turkey	0.3723
Cameroon	0.0000*	Iran	0.3359	Norway	0.7529	UAE	0.1016*
Canada	0.7949	Ireland	0.7922	Oman	0.0000*	Uganda	0.1738
Chad	0.0000*	Israel	1.0000	Pakistan	0.2054	UK	0.7885
Chile	0.1657	Italy	0.5560	Panama	0.0857	Ukraine	0.3785
China	0.7522	Japan	1.0000	Papua N.G.	0.0000*	Uruguay	0.1801
Colombia	0.0686	Jordan	0.1921	Paraguay	0.0280	USA	1.0000
Congo	0.0000*	Kazakhstan	0.1013	Peru	0.0615	Uzbekistan	0.0000*
Cote d'Ivoire	0.0000*	Kenya	0.1842	Philippines	0.0485	Venezuela	0.0615**
Croatia	0.3467	Kuwait	0.0476	Poland	0.3250	Vietnam	0.0852
Czech Rep.	0.6911	Kyrgyzstan	0.0704	Portugal	0.7032	Yemen	0.0000*
D.R. Congo	0.2090	Laos	0.0164	Romania	0.2077	Zambia	0.1504
Denmark	1.0000	Latvia	0.2533	Russia	0.5164	Zimbabwe	0.0000*

\* denotes estimated values

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.2747	Min	0.0000	Std. Deviation	0.3276	5 Percentile	0.0000
Missing	0	Median	0.1102	Max	1.0000			95 Percentile	1.0000



**Indicator: Public health expenditure****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Health**Tertiary indicator:** Response**Explanation:** Public health expenditure consists of recurrent and capital spending from government budgets, external borrowings and grants, and social health insurance funds.**Sources:** World Bank (<http://data.worldbank.org/indicator/SH.XPD.PUBL.ZS>)**Period:** 1990-2011**Units:** percent of GDP**Most recent data**

Albania	2.8341	Ecuador	2.9757	Lebanon	1.6018	Rwanda	6.1061
Algeria	3.1706	Egypt	1.9730	Lithuania	4.7091	Saudi Arabia	2.5428
Angola	2.1501	El Salvador	4.2947	Macedonia, FYR	4.0349	Senegal	3.4887
Argentina	4.9192	Estonia	4.6987	Madagascar	2.5661	Sierra Leone	3.3916
Armenia	1.5511	Ethiopia	2.6867	Malawi	6.1557	Slovakia	5.5427
Australia	6.1901	Finland	6.6210	Malaysia	1.6368	Slovenia	6.5930
Austria	8.0408	France	8.9237	Mali	3.0930	South Africa	4.0636
Azerbaijan	1.1244	Gabon	1.7231	Mauritania	3.2671	South Korea	4.1321
Bangladesh	1.3601	Gambia	2.3721	Mexico	3.0443	Spain	6.9504
Belarus	3.7622	Georgia	2.1875	Moldova	5.1836	Sri Lanka	1.5331
Belgium	8.0474	Germany	8.3908	Mongolia	3.0139	Sudan	2.3813
Benin	2.4320	Ghana	2.6801	Morocco	2.0715	Sweden	7.5743
Bolivia	3.4526	Greece	6.6298	Mozambique	2.7477	Switzerland	7.1058
Botswana	3.0780	Guatemala	2.3871	Namibia	3.0500	Syria	1.8329
Brazil	4.0701	Guinea	1.6288	Nepal	2.1381	Tajikistan	1.7104
Bulgaria	4.0207	Guinea Bis.	1.6852	Netherlands	10.2438	Tanzania	2.8758
Burkina Faso	3.2724	Honduras	4.1509	New Zealand	8.3852	Thailand	3.0633
Burundi	2.8488	Hungary	5.0174	Nicaragua	5.4570	Togo	4.1846
C. African R.	1.9668	India	1.1988	Niger	2.9311	Tunisia	3.3907
Cambodia	1.2772	Indonesia	0.9280	Nigeria	1.9519	Turkey	4.9912
Cameroon	1.6269	Iran	2.3646	Norway	7.7697	UAE	2.4893
Canada	7.8700	Ireland	6.6050	Oman	1.8930	Uganda	2.4855
Chad	1.1600	Israel	4.7561	Pakistan	0.6780	UK	7.7072
Chile	3.5048	Italy	7.3392	Panama	5.5201	Ukraine	3.7188
China	2.8855	Japan	7.4155	Papua N.G.	3.3789	Uruguay	5.4051
Colombia	4.5776	Jordan	5.7068	Paraguay	3.7469	USA	8.2019
Congo	1.6478	Kazakhstan	2.2716	Peru	2.6990	Uzbekistan	2.7831
Cote d'Ivoire	1.8055	Kenya	1.7744	Philippines	1.3575	Venezuela	1.8947
Croatia	6.6201	Kuwait	2.1851	Poland	4.7982	Vietnam	2.7481
Czech Rep.	6.1630	Kyrgyzstan	3.8745	Portugal	6.6341	Yemen	1.1415
D.R. Congo	2.8839	Laos	1.3675	Romania	4.6863	Zambia	3.6587
Denmark	9.4955	Latvia	3.6054	Russia	3.7041	Zimbabwe	0.2589

**Descriptive Statistics - based on most recent data**

Available	128	Mean	3.8463	Min	0.2589	Std. Deviation	2.1948	5 Percentile	1.2263
Missing	0	Median	3.2189	Max	10.2438			95 Percentile	8.0451

## Normalization

Type *LB (larger is better)*

Parameters  $u=0.2589$   $\tau=8.2798$

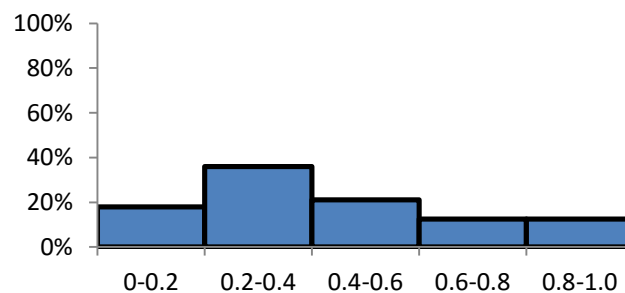
Comments  $u=\min$   $r=\text{average of Scandinavian countries}$

## Smoothed data

Albania	0.3211	Ecuador	0.3402	Lebanon	0.1674	Rwanda	0.7283
Algeria	0.3630	Egypt	0.2120	Lithuania	0.5548	Saudi Arabia	0.2847
Angola	0.2760	El Salvador	0.5031	Macedonia, FYR	0.4727	Senegal	0.4027
Argentina	0.5836	Estonia	0.5535	Madagascar	0.2877	Sierra Leone	0.3906
Armenia	0.1778	Ethiopia	0.3022	Malawi	0.7352	Slovakia	0.6588
Australia	0.7395	Finland	0.7932	Malaysia	0.2287	Slovenia	0.7897
Austria	0.9702	France	1.0000	Mali	0.3504	South Africa	0.4744
Azerbaijan	0.1098	Gabon	0.1812	Mauritania	0.3918	South Korea	0.4829
Bangladesh	0.1369	Gambia	0.2635	Mexico	0.3473	Spain	0.8343
Belarus	0.4596	Georgia	0.2404	Moldova	0.6140	Sri Lanka	0.1608
Belgium	0.9710	Germany	0.9946	Mongolia	0.3435	Sudan	0.2646
Benin	0.2568	Ghana	0.3508	Morocco	0.2260	Sweden	0.9120
Bolivia	0.4051	Greece	0.7943	Mozambique	0.3226	Switzerland	0.8536
Botswana	0.3604	Guatemala	0.2653	Namibia	0.3487	Syria	0.1953
Brazil	0.4767	Guinea	0.1708	Nepal	0.2258	Tajikistan	0.1804
Bulgaria	0.4719	Guinea Bis.	0.1778	Netherlands	1.0000	Tanzania	0.3262
Burkina Faso	0.3825	Honduras	0.4860	New Zealand	1.0000	Thailand	0.3496
Burundi	0.3349	Hungary	0.5933	Nicaragua	0.6481	Togo	0.4894
C. African R.	0.2095	India	0.1172	Niger	0.3332	Tunisia	0.3784
Cambodia	0.1270	Indonesia	0.0880	Nigeria	0.2080	Turkey	0.5900
Cameroon	0.1706	Iran	0.2526	Norway	0.9331	UAE	0.2796
Canada	0.9489	Ireland	0.7912	Oman	0.2163	Uganda	0.2499
Chad	0.1112	Israel	0.5607	Pakistan	0.0599	UK	0.9286
Chile	0.4047	Italy	0.8827	Panama	0.6673	Ukraine	0.4314
China	0.3275	Japan	0.8922	Papua N.G.	0.3698	Uruguay	0.6416
Colombia	0.5384	Jordan	0.6824	Paraguay	0.4289	USA	0.9903
Congo	0.1732	Kazakhstan	0.2509	Peru	0.3042	Uzbekistan	0.3147
Cote d'Ivoire	0.1928	Kenya	0.1992	Philippines	0.1394	Venezuela	0.2039
Croatia	0.7931	Kuwait	0.2450	Poland	0.5659	Vietnam	0.3054
Czech Rep.	0.7170	Kyrgyzstan	0.4508	Portugal	0.7948	Yemen	0.1100
D.R. Congo	0.3180	Laos	0.1382	Romania	0.5520	Zambia	0.4183
Denmark	1.0000	Latvia	0.4209	Russia	0.4321	Zimbabwe	0.0007

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.4446	Min	0.0007	Std. Deviation	0.2630	5 Percentile	0.1206
Missing	0	Median	0.3664	Max	1.0000			95 Percentile	0.9707





## Indicator: Public wastewater treatment plants

**Primary indicator:** Ecological Sustainability (ECOS)

**Secondary indicator:** Water

**Tertiary indicator:** Response

**Explanation:** Connected means actually connected to a waste water treatment plant through a public sewage network. Non-public treatment plants, i.e., industrial waste water plants, or individual private treatment facilities such as septic tanks are not included. High connectivity improves water sustainability.

**Sources:** United Nations Environment Programme ([http://geodata.grid.unep.ch/mod\\_download/download\\_xls.php?selectedID=1546](http://geodata.grid.unep.ch/mod_download/download_xls.php?selectedID=1546)); Eurostats ([http://epp.eurostat.ec.europa.eu/portal/page/portal/product\\_details/dataset?p\\_product\\_code=TSDNR320](http://epp.eurostat.ec.europa.eu/portal/page/portal/product_details/dataset?p_product_code=TSDNR320)); OECD (2005a); Fao - Water (<http://www.fao.org/nr/water>); World Health Organization ([www.euro.who.int/Document/EHI/ENHIS\\_Factsheet\\_1\\_3.pdf](http://www.euro.who.int/Document/EHI/ENHIS_Factsheet_1_3.pdf))

**Period:** 1990-2011

**Units:** percent of population connected

### Most recent data

Albania	7.3000	Ecuador	-	Lebanon	2.4200*	Rwanda	0.0000*
Algeria	53.0000	Egypt	-	Lithuania	71.0000	Saudi Arabia	75.0700*
Angola	0.0000*	El Salvador	-	Macedonia, FYR	7.0000	Senegal	0.0000*
Argentina	42.5000	Estonia	80.0000	Madagascar	0.0000*	Sierra Leone	0.0000*
Armenia	34.3000	Ethiopia	0.0000	Malawi	0.0000*	Slovakia	57.0000
Australia	89.0000*	Finland	81.0000	Malaysia	14.8000*	Slovenia	52.0000
Austria	93.0000	France	80.0000	Mali	0.0000*	South Africa	57.0000
Azerbaijan	31.4000	Gabon	0.0000*	Mauritania	0.0000*	South Korea	78.8000
Bangladesh	0.0000*	Gambia	0.0000*	Mexico	35.0000	Spain	92.0000
Belarus	94.9000	Georgia	-	Moldova	60.0000	Sri Lanka	0.0000*
Belgium	69.0000	Germany	95.0000	Mongolia	0.0000*	Sudan	0.0000*
Benin	0.0000*	Ghana	0.0000*	Morocco	6.1500*	Sweden	86.0000
Bolivia	24.7100*	Greece	87.0000	Mozambique	0.0000*	Switzerland	97.0000
Botswana	0.0000*	Guatemala	1.7700*	Namibia	0.0000*	Syria	40.4400*
Brazil	26.0000	Guinea	11.0000	Nepal	0.0000*	Tajikistan	0.0000*
Bulgaria	45.0000	Guinea Bis.	0.0000*	Netherlands	99.0000	Tanzania	0.0000*
Burkina Faso	0.0000*	Honduras	-	New Zealand	80.0000	Thailand	7.0000*
Burundi	0.0000*	Hungary	57.0000	Nicaragua	8.9000*	Togo	0.0000*
C. African R.	0.0000*	India	-	Niger	0.0000*	Tunisia	52.5000
Cambodia	0.0000	Indonesia	-	Nigeria	0.0000*	Turkey	46.0000
Cameroon	0.0000*	Iran	4.2200*	Norway	79.0000	UAE	78.3000
Canada	75.0000	Ireland	82.0000	Oman	0.1100*	Uganda	0.0000*
Chad	0.0000*	Israel	91.0000	Pakistan	-	UK	97.5000
Chile	83.3000	Italy	93.6000	Panama	55.0000	Ukraine	-
China	32.5000	Japan	67.0000	Papua N.G.	0.0000*	Uruguay	-
Colombia	6.7900	Jordan	61.0000	Paraguay	-	USA	71.4000
Congo	0.0000*	Kazakhstan	14.9700*	Peru	-	Uzbekistan	0.0000*
Cote d'Ivoire	0.0000	Kenya	4.9000	Philippines	1.3500*	Venezuela	23.8000
Croatia	27.3000	Kuwait	86.5500	Poland	64.0000	Vietnam	0.0000*
Czech Rep.	76.0000	Kyrgyzstan	0.0000	Portugal	70.0000	Yemen	3.3000
D.R. Congo	-	Laos	0.0000	Romania	29.0000	Zambia	0.0000*
Denmark	87.9000	Latvia	65.0000	Russia	-	Zimbabwe	0.0000*

\* denotes estimated values

### Descriptive Statistics - based on most recent data

Available	114	Mean	32.9803	Min	0.0000	Std. Deviation	36.1205	5 Percentile	0.0000
Missing	14	Median	12.9000	Max	99.0000			95 Percentile	93.2100

## Normalization

Type *LB (larger is better)* Parameters  $u=0.0000$   $\tau=86.6429$   
 Comments  $u=\min$   $r=\text{average of EU-14}$

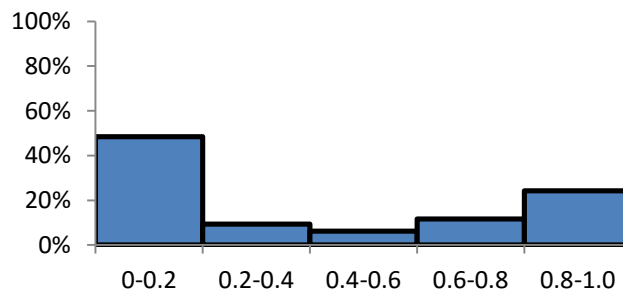
## Smoothed data

Albania	0.0843	Ecuador	0.3376**	Lebanon	0.0279*	Rwanda	0.0000*
Algeria	0.6117	Egypt	0.9037**	Lithuania	0.8195	Saudi Arabia	0.8664*
Angola	0.0000*	El Salvador	0.6348**	Macedonia, FYR	0.0808	Senegal	0.0000*
Argentina	0.4905	Estonia	0.9233	Madagascar	0.0000*	Sierra Leone	0.0000*
Armenia	0.3959*	Ethiopia	0.0000	Malawi	0.0000*	Slovakia	0.6579
Australia	1.0000*	Finland	0.9349	Malaysia	0.1708*	Slovenia	0.6002
Austria	1.0000	France	0.9233	Mali	0.0000*	South Africa	0.6579
Azerbaijan	0.3624	Gabon	0.0000*	Mauritania	0.0000*	South Korea	0.9095
Bangladesh	0.0000*	Gambia	0.0000*	Mexico	0.4040	Spain	1.0000
Belarus	1.0000	Georgia	0.0000**	Moldova	0.6925	Sri Lanka	0.0000*
Belgium	0.7964	Germany	0.8620	Mongolia	0.0000*	Sudan	0.0000*
Benin	0.0000*	Ghana	0.0000*	Morocco	0.0710*	Sweden	0.9926
Bolivia	0.2852*	Greece	1.0000	Mozambique	0.0000*	Switzerland	1.0000
Botswana	0.0000*	Guatemala	0.0204*	Namibia	0.0000*	Syria	0.4667*
Brazil	0.3001*	Guinea	0.1270*	Nepal	0.0000*	Tajikistan	0.0000*
Bulgaria	0.5194	Guinea Bis.	0.0000*	Netherlands	1.0000	Tanzania	0.0000*
Burkina Faso	0.0000*	Honduras	0.0616**	New Zealand	0.9233	Thailand	0.0808*
Burundi	0.0000*	Hungary	0.6579	Nicaragua	0.1027*	Togo	0.0000*
C. African R.	0.0000*	India	0.5309**	Niger	0.0000*	Tunisia	0.6059
Cambodia	0.0000	Indonesia	1.0000**	Nigeria	0.0000*	Turkey	0.5309
Cameroon	0.0000*	Iran	0.0487*	Norway	0.9118	UAE	0.9037*
Canada	0.8529	Ireland	0.9464	Oman	0.0013*	Uganda	0.0000*
Chad	0.0000*	Israel	1.0000*	Pakistan	0.4667**	UK	1.0000
Chile	0.9614	Italy	0.9090	Panama	0.6348	Ukraine	0.6752**
China	0.3751	Japan	0.7733	Papua N.G.	0.0000*	Uruguay	0.3376**
Colombia	0.0784	Jordan	0.7040	Paraguay	0.3376**	USA	0.8241
Congo	0.0000*	Kazakhstan	0.1728*	Peru	0.3376**	Uzbekistan	0.0000*
Cote d'Ivoire	0.0000	Kenya	0.0566*	Philippines	0.0156*	Venezuela	0.2747
Croatia	0.3151	Kuwait	0.9989	Poland	0.7387	Vietnam	0.0000*
Czech Rep.	0.8772	Kyrgyzstan	0.0000	Portugal	0.8079	Yemen	0.0381*
D.R. Congo	0.0000**	Laos	0.0000	Romania	0.3347	Zambia	0.0000*
Denmark	1.0000	Latvia	0.7502	Russia	0.4963**	Zimbabwe	0.0000*

\* denotes estimated values      \*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.3780	Min	0.0000	Std. Deviation	0.3911	5 Percentile	0.0000
Missing	0	Median	0.2926	Max	1.0000			95 Percentile	1.0000



**Indicator: Refugees per capita****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Policy**Tertiary indicator:** Pressure**Explanation:** Refugees are people who are recognized as refugees under the 1951 Convention Relating to the Status of Refugees or its 1967 Protocol, the 1969 Organization of African Unity Convention Governing the Specific Aspects of Refugee Problems in Africa, people recognized as refugees in accordance with the UNHCR statute, people granted refugee-like humanitarian status, and people provided temporary protection. Asylum seekers--people who have applied for asylum or refugee status and who have not yet received a decision or who are registered as asylum seekers--are excluded. Country of origin generally refers to the nationality or country of citizenship of a claimant.**Sources:** World Bank (calculated from <http://data.worldbank.org/indicator/SM.POP.REFG.OR> and <http://data.worldbank.org/indicator/SP.POP.TOTL>)**Period:** 1990-2011**Units:** ratio of refugees from a country to total population of that country**Most recent data**

Albania	0.0042	Ecuador	0.0001	Lebanon	0.0035	Rwanda	0.0098
Algeria	0.0002	Egypt	0.0001	Lithuania	0.0002	Saudi Arabia	0.0000
Angola	0.0066	El Salvador	0.0011	Macedonia, FYR	0.0037	Senegal	0.0014
Argentina	0.0000	Estonia	0.0002	Madagascar	0.0000	Sierra Leone	0.0013
Armenia	0.0053	Ethiopia	0.0008	Malawi	0.0000	Slovakia	0.0000
Australia	0.0000	Finland	0.0000	Malaysia	0.0000	Slovenia	0.0000
Austria	0.0000	France	0.0000	Mali	0.0003	South Africa	0.0000
Azerbaijan	0.0018	Gabon	0.0001	Mauritania	0.0113	South Korea	0.0000
Bangladesh	0.0001	Gambia	0.0015	Mexico	0.0001	Spain	0.0000
Belarus	0.0006	Georgia	0.0023	Moldova	0.0018	Sri Lanka	0.0065
Belgium	0.0000	Germany	0.0000	Mongolia	0.0007	Sudan	0.0146
Benin	0.0001	Ghana	0.0008	Morocco	0.0001	Sweden	0.0000
Bolivia	0.0001	Greece	0.0000	Mozambique	0.0000	Switzerland	0.0000
Botswana	0.0000	Guatemala	0.0004	Namibia	0.0005	Syria	0.0010
Brazil	0.0000	Guinea	0.0013	Nepal	0.0002	Tajikistan	0.0001
Bulgaria	0.0003	Guinea Bis.	0.0007	Netherlands	0.0000	Tanzania	0.0000
Burkina Faso	0.0001	Honduras	0.0003	New Zealand	0.0000	Thailand	0.0000
Burundi	0.0118	Hungary	0.0001	Nicaragua	0.0003	Togo	0.0029
C. African R.	0.0363	India	0.0000	Niger	0.0001	Tunisia	0.0002
Cambodia	0.0011	Indonesia	0.0001	Nigeria	0.0001	Turkey	0.0019
Cameroon	0.0008	Iran	0.0010	Norway	0.0000	UAE	0.0001
Canada	0.0000	Ireland	0.0000	Oman	0.0000	Uganda	0.0002
Chad	0.0037	Israel	0.0002	Pakistan	0.0002	UK	0.0000
Chile	0.0001	Italy	0.0000	Panama	0.0000	Ukraine	0.0006
China	0.0001	Japan	0.0000	Papua N.G.	0.0000	Uruguay	0.0001
Colombia	0.0084	Jordan	0.0004	Paraguay	0.0000	USA	0.0000
Congo	0.0031	Kazakhstan	0.0002	Peru	0.0002	Uzbekistan	0.0004
Cote d'Ivoire	0.0077	Kenya	0.0002	Philippines	0.0000	Venezuela	0.0003
Croatia	0.0142	Kuwait	0.0004	Poland	0.0000	Vietnam	0.0038
Czech Rep.	0.0001	Kyrgyzstan	0.0006	Portugal	0.0000	Yemen	0.0001
D.R. Congo	0.0073	Laos	0.0013	Romania	0.0002	Zambia	0.0000
Denmark	0.0000	Latvia	0.0003	Russia	0.0008	Zimbabwe	0.0020

**Descriptive Statistics - based on most recent data**

Available	128	Mean	0.0016	Min	0.0000	Std. Deviation	0.0042	5 Percentile	0.0000
Missing	0	Median	0.0002	Max	0.0363			95 Percentile	0.0082

## Normalization

Type SB (smaller is better)

Parameters

$T=0.0003$

$U=0.0100$

Comments

$T$  (set by experts based on Bossel, 1999)

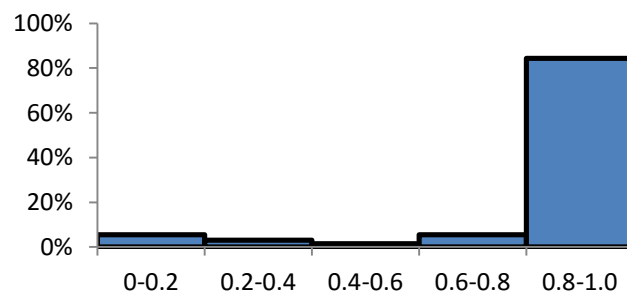
$U$  (set by experts based on Bossel, 1999)

## Smoothed data

Albania	0.5935	Ecuador	1.0000	Lebanon	0.6609	Rwanda	0.0714
Algeria	0.9951	Egypt	1.0000	Lithuania	1.0000	Saudi Arabia	1.0000
Angola	0.3530	El Salvador	0.9150	Macedonia, FYR	0.6619	Senegal	0.8833
Argentina	1.0000	Estonia	1.0000	Madagascar	1.0000	Sierra Leone	0.8888
Armenia	0.4795	Ethiopia	0.9402	Malawi	1.0000	Slovakia	1.0000
Australia	1.0000	Finland	1.0000	Malaysia	1.0000	Slovenia	1.0000
Austria	1.0000	France	1.0000	Mali	0.9978	South Africa	1.0000
Azerbaijan	0.8449	Gabon	1.0000	Mauritania	0.0000	South Korea	1.0000
Bangladesh	1.0000	Gambia	0.8812	Mexico	1.0000	Spain	1.0000
Belarus	0.9615	Georgia	0.7944	Moldova	0.8451	Sri Lanka	0.3542
Belgium	1.0000	Germany	1.0000	Mongolia	0.9529	Sudan	0.0000
Benin	1.0000	Ghana	0.9423	Morocco	1.0000	Sweden	1.0000
Bolivia	1.0000	Greece	1.0000	Mozambique	1.0000	Switzerland	1.0000
Botswana	1.0000	Guatemala	0.9833	Namibia	0.9787	Syria	0.9275
Brazil	1.0000	Guinea	0.8936	Nepal	1.0000	Tajikistan	1.0000
Bulgaria	0.9921	Guinea Bis.	0.9484	Netherlands	1.0000	Tanzania	1.0000
Burkina Faso	1.0000	Honduras	0.9996	New Zealand	1.0000	Thailand	1.0000
Burundi	0.0000	Hungary	1.0000	Nicaragua	1.0000	Togo	0.7273
C. African R.	0.0000	India	1.0000	Niger	1.0000	Tunisia	0.9993
Cambodia	0.9166	Indonesia	1.0000	Nigeria	1.0000	Turkey	0.8305
Cameroon	0.9480	Iran	0.9266	Norway	1.0000	UAE	1.0000
Canada	1.0000	Ireland	1.0000	Oman	1.0000	Uganda	0.9987
Chad	0.6456	Israel	1.0000	Pakistan	1.0000	UK	1.0000
Chile	1.0000	Italy	1.0000	Panama	1.0000	Ukraine	0.9687
China	1.0000	Japan	1.0000	Papua N.G.	1.0000	Uruguay	1.0000
Colombia	0.1587	Jordan	0.9882	Paraguay	1.0000	USA	1.0000
Congo	0.6784	Kazakhstan	1.0000	Peru	0.9994	Uzbekistan	0.9843
Cote d'Ivoire	0.2377	Kenya	1.0000	Philippines	1.0000	Venezuela	0.9991
Croatia	0.0000	Kuwait	0.9850	Poland	0.9988	Vietnam	0.6312
Czech Rep.	1.0000	Kyrgyzstan	0.9668	Portugal	1.0000	Yemen	1.0000
D.R. Congo	0.2817	Laos	0.8937	Romania	1.0000	Zambia	1.0000
Denmark	1.0000	Latvia	0.9903	Russia	0.9469	Zimbabwe	0.8242

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8849	Min	0.0000	Std. Deviation	0.2537	5 Percentile	0.1863
Missing	0	Median	1.0000	Max	1.0000			95 Percentile	1.0000



**Indicator: Renewable energy production****Primary indicator:** Ecological Sustainability (ECOS)**Secondary indicator:** Air**Tertiary indicator:** Response**Explanation:** It refers to renewable energy production. The higher the proportion of renewable energy sources, the less a country relies on environmentally damaging sources such as fossil fuel and nuclear energy.**Sources:** IEA (International Energy Agency) (<http://www.iea.org>)  
Human Development Report (<http://hdr.undp.org>)**Period:** 1990-2011**Units:** percent of total primary energy supply**Most recent data**

Albania	99.9868	Ecuador	51.5717	Lebanon	5.3399	Rwanda	-
Algeria	0.3819	Egypt	9.8988	Lithuania	18.2419	Saudi Arabia	0.0000
Angola	67.2565	El Salvador	65.0836	Macedonia, FYR	33.4665	Senegal	10.2116
Argentina	28.5855	Estonia	9.1600	Madagascar	-	Sierra Leone	-
Armenia	39.4854	Ethiopia	99.3775	Malawi	-	Slovakia	16.9980
Australia	10.4860	Finland	31.7312	Malaysia	6.1873	Slovenia	24.3590
Austria	66.8900	France	11.6203	Mali	-	South Africa	0.9632
Azerbaijan	18.4233	Gabon	44.1798	Mauritania	-	South Korea	1.4362
Bangladesh	3.9247	Gambia	-	Mexico	16.4251	Spain	29.8892
Belarus	0.3725	Georgia	92.5227	Moldova	2.2235	Sri Lanka	52.5269
Belgium	9.7887	Germany	19.8613	Mongolia	0.0000	Sudan	48.9926
Benin	0.6667	Ghana	83.6222	Morocco	18.5001	Sweden	54.5314
Bolivia	34.0209	Greece	14.9400	Mozambique	99.8860	Switzerland	53.6453
Botswana	0.0000	Guatemala	66.8931	Namibia	84.9462	Syria	5.5846
Brazil	84.7242	Guinea	-	Nepal	99.9065	Tajikistan	96.5570
Bulgaria	12.5780	Guinea Bis.	-	Netherlands	10.8486	Tanzania	57.9730
Burkina Faso	-	Honduras	46.1093	New Zealand	75.8535	Thailand	5.6075
Burundi	-	Hungary	7.3039	Nicaragua	37.0046	Togo	76.1538
C. African R.	-	India	14.2111	Niger	-	Tunisia	1.1742
Cambodia	4.9296	Indonesia	15.9779	Nigeria	24.4018	Turkey	25.3128
Cameroon	73.2158	Iran	4.1617	Norway	96.5298	UAE	0.0000
Canada	63.3579	Ireland	19.7843	Oman	0.0000	Uganda	-
Chad	-	Israel	0.4985	Pakistan	33.6792	UK	9.5905
Chile	37.7063	Italy	28.0651	Panama	56.9541	Ukraine	7.1501
China	18.3030	Japan	10.7292	Papua N.G.	-	Uruguay	88.9742
Colombia	72.0859	Jordan	0.4804	Paraguay	99.9982	USA	12.2865
Congo	76.9231	Kazakhstan	9.7065	Peru	57.8657	Uzbekistan	20.9631
Cote d'Ivoire	28.8170	Kenya	69.5107	Philippines	26.2934	Venezuela	64.9182
Croatia	60.7258	Kuwait	0.0000	Poland	7.7837	Vietnam	29.0876
Czech Rep.	8.3487	Kyrgyzstan	91.0132	Portugal	46.3998	Yemen	0.0000
D.R. Congo	99.5561	Laos	-	Romania	33.0905	Zambia	99.6993
Denmark	40.1088	Latvia	54.8514	Russia	16.1206	Zimbabwe	50.2286

**Descriptive Statistics - based on most recent data**

Available	111	Mean	35.9214	Min	0.0000	Std. Deviation	32.0710	5 Percentile	0.0000
Missing	17	Median	26.2934	Max	99.9982			95 Percentile	99.4668

## Normalization

Type *LB (larger is better)* Parameters  $u=0.0000$   $\tau=20.0000$   
 Comments  $u=\min$   $r=EU\ target$

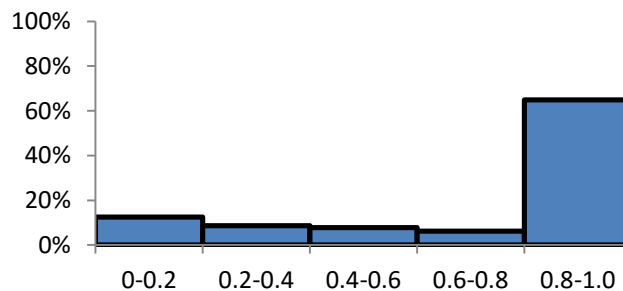
## Smoothed data

Albania	1.0000	Ecuador	1.0000	Lebanon	0.2670	Rwanda	1.0000**
Algeria	0.0315	Egypt	0.4953	Lithuania	0.9121	Saudi Arabia	0.0000
Angola	1.0000	El Salvador	1.0000	Macedonia, FYR	0.8966	Senegal	0.5106
Argentina	1.0000	Estonia	0.4580	Madagascar	1.0000**	Sierra Leone	1.0000**
Armenia	1.0000	Ethiopia	1.0000	Malawi	1.0000**	Slovakia	0.8499
Australia	0.5243	Finland	1.0000	Malaysia	0.3094	Slovenia	1.0000
Austria	1.0000	France	0.6121	Mali	0.7096**	South Africa	0.0359
Azerbaijan	0.9212	Gabon	1.0000	Mauritania	1.0000**	South Korea	0.0718
Bangladesh	0.2020	Gambia	0.8776**	Mexico	0.8245	Spain	0.9388
Belarus	0.0186	Georgia	1.0000	Moldova	0.1024	Sri Lanka	1.0000
Belgium	0.4894	Germany	0.9931	Mongolia	0.0000	Sudan	1.0000
Benin	0.0373	Ghana	1.0000	Morocco	0.9250	Sweden	1.0000
Bolivia	1.0000	Greece	0.7706	Mozambique	1.0000	Switzerland	1.0000
Botswana	0.0000	Guatemala	1.0000	Namibia	1.0000	Syria	0.2792
Brazil	1.0000	Guinea	1.0000**	Nepal	1.0000	Tajikistan	1.0000
Bulgaria	0.6289	Guinea Bis.	0.7553**	Netherlands	0.5424	Tanzania	1.0000
Burkina Faso	1.0000**	Honduras	1.0000	New Zealand	1.0000	Thailand	0.2804
Burundi	1.0000**	Hungary	0.3652	Nicaragua	0.9995	Togo	1.0000
C. African R.	0.9021**	India	0.7106	Niger	1.0000**	Tunisia	0.0574
Cambodia	0.2465	Indonesia	0.7467	Nigeria	1.0000	Turkey	0.9821
Cameroon	1.0000	Iran	0.2081	Norway	1.0000	UAE	0.0000
Canada	1.0000	Ireland	0.9662	Oman	0.0000	Uganda	1.0000**
Chad	1.0000**	Israel	0.0249	Pakistan	1.0000	UK	0.4795
Chile	1.0000	Italy	0.9969	Panama	1.0000	Ukraine	0.3548
China	0.8798	Japan	0.5077	Papua N.G.	0.2465**	Uruguay	1.0000
Colombia	1.0000	Jordan	0.0240	Paraguay	1.0000	USA	0.6100
Congo	1.0000	Kazakhstan	0.4853	Peru	1.0000	Uzbekistan	0.9640
Cote d'Ivoire	1.0000	Kenya	1.0000	Philippines	1.0000	Venezuela	1.0000
Croatia	1.0000	Kuwait	0.0000	Poland	0.3892	Vietnam	1.0000
Czech Rep.	0.4174	Kyrgyzstan	1.0000	Portugal	0.9922	Yemen	0.0000
D.R. Congo	1.0000	Laos	0.8005**	Romania	1.0000	Zambia	1.0000
Denmark	1.0000	Latvia	1.0000	Russia	0.8214	Zimbabwe	1.0000

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.7457	Min	0.0000	Std. Deviation	0.3568	5 Percentile	0.0065
Missing	0	Median	0.9998	Max	1.0000			95 Percentile	1.0000



**Indicator: Secondary education teaching staff****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Knowledge**Tertiary indicator:** Pressure**Explanation:** Teaching staff includes (OECD, 2000) professional personnel involved in direct student instruction: classroom teachers, special education teachers, other teachers who work with students as a whole class, and chairpersons of departments; it does not include nonprofessional personnel who support teachers.**Sources:** UNESCO Institute for Statistics (UIS)  
([http://stats.uis.unesco.org/unesco/TableViewer/document.aspx?ReportId=136&IF\\_Language=eng&BR\\_Topic=0](http://stats.uis.unesco.org/unesco/TableViewer/document.aspx?ReportId=136&IF_Language=eng&BR_Topic=0))**Period:** 1990-2011**Units:** ratio of students to teaching staff**Most recent data**

Albania	15.2441	Ecuador	10.9397	Lebanon	9.3060	Rwanda	23.7034
Algeria	20.8425	Egypt	12.1341	Lithuania	8.5626	Saudi Arabia	11.3194
Angola	38.6726	El Salvador	24.3453	Macedonia, FYR	11.9121	Senegal	27.3515
Argentina	10.8996	Estonia	8.7612	Madagascar	23.4839	Sierra Leone	26.6382
Armenia	6.6666	Ethiopia	40.3313	Malawi	42.1285	Slovakia	11.6709
Australia	13.0000	Finland	9.5042	Malaysia	13.7250	Slovenia	8.9627
Austria	9.6787	France	12.6912	Mali	24.7188	South Africa	25.0476
Azerbaijan	8.7278	Gabon	28.1166	Mauritania	26.5756	South Korea	17.5967
Bangladesh	30.6249	Gambia	25.4634	Mexico	17.6773	Spain	11.0529
Belarus	9.4250	Georgia	7.5675	Moldova	9.8985	Sri Lanka	17.2564
Belgium	10.5712	Germany	12.9060	Mongolia	14.4926	Sudan	22.2277
Benin	-	Ghana	17.8046	Morocco	18.7261	Sweden	9.5108
Bolivia	18.1657	Greece	7.8834	Mozambique	33.0741	Switzerland	9.9933
Botswana	13.8783	Guatemala	13.9813	Namibia	24.6243	Syria	18.1303
Brazil	16.3499	Guinea	31.1147	Nepal	29.5641	Tajikistan	15.4389
Bulgaria	12.0811	Guinea Bis.	37.2811	Netherlands	13.7293	Tanzania	26.3934
Burkina Faso	26.3330	Honduras	19.9149	New Zealand	14.5007	Thailand	19.9070
Burundi	29.3832	Hungary	10.0293	Nicaragua	30.8305	Togo	26.2458
C. African R.	66.8171	India	25.3282	Niger	39.7781	Tunisia	13.6250
Cambodia	28.9219	Indonesia	14.7671	Nigeria	33.0803	Turkey	21.7562
Cameroon	24.1255	Iran	31.3111	Norway	8.7047	UAE	12.0489
Canada	17.7250	Ireland	14.2761	Oman	17.3728	Uganda	18.5433
Chad	31.9824	Israel	9.7644	Pakistan	41.8565	UK	14.2692
Chile	21.0574	Italy	10.1012	Panama	14.6866	Ukraine	13.1307
China	15.1533	Japan	11.8862	Papua N.G.	22.6039	Uruguay	11.3187
Colombia	25.5814	Jordan	17.8784	Paraguay	11.8362	USA	13.7594
Congo	34.2694	Kazakhstan	8.6004	Peru	16.4963	Uzbekistan	13.2768
Cote d'Ivoire	29.3952	Kenya	29.6784	Philippines	34.8143	Venezuela	11.0000
Croatia	8.1496	Kuwait	7.8179	Poland	10.3949	Vietnam	25.5857
Czech Rep.	11.3269	Kyrgyzstan	15.2089	Portugal	7.3473	Yemen	16.0866
D.R. Congo	15.2176	Laos	19.8885	Romania	12.4765	Zambia	34.2236
Denmark	10.0527	Latvia	8.3302	Russia	8.4654	Zimbabwe	22.3245

**Descriptive Statistics - based on most recent data**

Available	127	Mean	18.9194	Min	6.6666	Std. Deviation	9.8892	5 Percentile	8.3707
Missing	1	Median	15.4389	Max	66.8171			95 Percentile	36.5410



## Normalization

Type *SB (smaller is better)* Parameters *T=10.9696* *U=66.8171*  
 Comments *T=average of EU-14* *U=max*

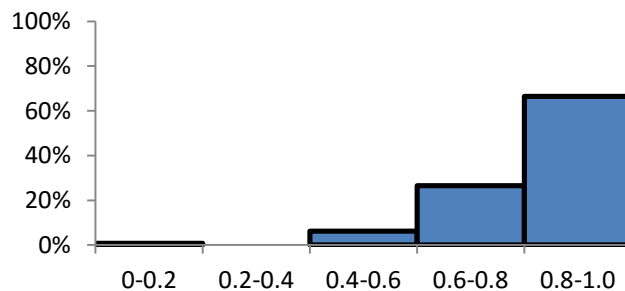
## Smoothed data

Albania	0.9235	Ecuador	0.9954	Lebanon	1.0000	Rwanda	0.7427
Algeria	0.8232	Egypt	0.9791	Lithuania	0.9990	Saudi Arabia	0.9937
Angola	0.5040	El Salvador	0.7605	Macedonia, FYR	0.9831	Senegal	0.7067
Argentina	1.0000	Estonia	1.0000	Madagascar	0.7595	Sierra Leone	0.8236
Armenia	1.0000	Ethiopia	0.4224	Malawi	0.4403	Slovakia	0.9841
Australia	0.9636	Finland	1.0000	Malaysia	0.9507	Slovenia	1.0000
Austria	1.0000	France	0.9692	Mali	0.7630	South Africa	0.7479
Azerbaijan	1.0000	Gabon	0.7085	Mauritania	0.7206	South Korea	0.8813
Bangladesh	0.6481	Gambia	0.7405	Mexico	0.8796	Spain	0.9985
Belarus	1.0000	Georgia	1.0000	Moldova	0.9985	Sri Lanka	0.8337
Belgium	1.0000	Germany	0.9651	Mongolia	0.9369	Sudan	0.7940
Benin	0.6254**	Ghana	0.8642	Morocco	0.8621	Sweden	1.0000
Bolivia	0.7957	Greece	1.0000	Mozambique	0.6042	Switzerland	1.0000
Botswana	0.9479	Guatemala	0.9422	Namibia	0.7558	Syria	0.8735
Brazil	0.8936	Guinea	0.6393	Nepal	0.6128	Tajikistan	0.8983
Bulgaria	0.9814	Guinea Bis.	0.5289	Netherlands	0.9560	Tanzania	0.7238
Burkina Faso	0.7037	Honduras	0.8398	New Zealand	0.9375	Thailand	0.8400
Burundi	0.6703	Hungary	1.0000	Nicaragua	0.6444	Togo	0.6128
C. African R.	0.0000	India	0.7436	Niger	0.4842	Tunisia	0.9527
Cambodia	0.6785	Indonesia	0.9546	Nigeria	0.6301	Turkey	0.8068
Cameroon	0.7644	Iran	0.6358	Norway	1.0000	UAE	0.9805
Canada	0.8790	Ireland	0.9408	Oman	0.8849	Uganda	0.8675
Chad	0.6127	Israel	1.0000	Pakistan	0.4469	UK	0.9409
Chile	0.8194	Italy	1.0000	Panama	0.9334	Ukraine	0.9612
China	0.9251	Japan	0.9836	Papua N.G.	0.8052	Uruguay	0.9937
Colombia	0.7384	Jordan	0.8763	Paraguay	0.9705	USA	0.9498
Congo	0.6316	Kazakhstan	1.0000	Peru	0.9038	Uzbekistan	0.9587
Cote d'Ivoire	0.6701	Kenya	0.6650	Philippines	0.5690	Venezuela	0.9995
Croatia	1.0000	Kuwait	1.0000	Poland	0.9997	Vietnam	0.7383
Czech Rep.	0.9936	Kyrgyzstan	0.9500	Portugal	0.9998	Yemen	0.8242
D.R. Congo	0.9112	Laos	0.8403	Romania	0.9730	Zambia	0.5836
Denmark	1.0000	Latvia	1.0000	Russia	1.0000	Zimbabwe	0.7701

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8456	Min	0.0000	Std. Deviation	0.1717	5 Percentile	0.5429
Missing	0	Median	0.9010	Max	1.0000			95 Percentile	1.0000



## Indicator: Secondary net school enrollment

**Primary indicator:** Human Sustainability (HUMS)

**Secondary indicator:** Knowledge

**Tertiary indicator:** State

**Explanation:** Number of children of official school age, as defined by the education system, enrolled in secondary school, expressed as percentage of the total number of children of that age.

**Sources:** World Bank (<http://data.worldbank.org/indicator/SE.SEC.NENR>)

**Period:** 1990-2011

**Units:** percent of children

### Most recent data

Albania	69.5483	Ecuador	74.2732	Lebanon	76.1540	Rwanda	-
Algeria	66.6618	Egypt	68.2001	Lithuania	90.6973	Saudi Arabia	-
Angola	13.4612	El Salvador	60.0429	Macedonia, FYR	81.6817	Senegal	21.6104
Argentina	83.5307	Estonia	92.0322	Madagascar	23.6027	Sierra Leone	-
Armenia	84.8135	Ethiopia	14.0024	Malawi	29.2767	Slovakia	-
Australia	85.4701	Finland	93.8712	Malaysia	68.6103	Slovenia	92.4605
Austria	-	France	98.4388	Mali	30.6291	South Africa	69.7930
Azerbaijan	86.0743	Gabon	-	Mauritania	15.9099	South Korea	96.0012
Bangladesh	47.1354	Gambia	-	Mexico	72.6744	Spain	95.1460
Belarus	92.7312	Georgia	79.4327	Moldova	77.7484	Sri Lanka	76.0000*
Belgium	88.1817	Germany	-	Mongolia	76.4360	Sudan	-
Benin	19.9537	Ghana	46.2877	Morocco	35.0657	Sweden	94.1017
Bolivia	70.0202	Greece	98.0301	Mozambique	17.3184	Switzerland	83.0653
Botswana	61.0716	Guatemala	46.1358	Namibia	50.6731	Syria	67.8101
Brazil	-	Guinea	33.3116	Nepal	54.0000*	Tajikistan	86.0430
Bulgaria	82.6773	Guinea Bis.	8.8547	Netherlands	87.4358	Tanzania	-
Burkina Faso	17.5035	Honduras	20.6362	New Zealand	94.7461	Thailand	74.0504
Burundi	18.0744	Hungary	91.0917	Nicaragua	45.7662	Togo	24.6791
C. African R.	14.1285	India	40.0000*	Niger	8.6992	Tunisia	-
Cambodia	21.9989	Indonesia	67.2825	Nigeria	-	Turkey	78.8508
Cameroon	41.4569	Iran	-	Norway	93.9413	UAE	81.0400
Canada	90.8084	Ireland	99.0306	Oman	93.7045	Uganda	15.5126
Chad	10.7677	Israel	98.1080	Pakistan	34.5737	UK	98.4424
Chile	84.2137	Italy	94.0053	Panama	68.0657	Ukraine	84.6374
China	50.0000*	Japan	99.5438	Papua N.G.	-	Uruguay	72.0800
Colombia	75.9551	Jordan	85.6436	Paraguay	61.1060	USA	89.4981
Congo	84.0000*	Kazakhstan	90.0343	Peru	77.5746	Uzbekistan	-
Cote d'Ivoire	19.9492	Kenya	50.0251	Philippines	61.5584	Venezuela	72.8041
Croatia	91.0323	Kuwait	89.0193	Poland	91.0165	Vietnam	64.8878
Czech Rep.	-	Kyrgyzstan	80.3735	Portugal	81.6453	Yemen	39.6349
D.R. Congo	17.3480	Laos	40.6790	Romania	82.3011	Zambia	-
Denmark	89.5355	Latvia	82.9489	Russia	88.0000*	Zimbabwe	-

\* denotes estimated values

### Descriptive Statistics - based on most recent data

Available	109	Mean	64.8459	Min	8.6992	Std. Deviation	28.0326	5 Percentile	14.6821
Missing	19	Median	74.2732	Max	99.5438			95 Percentile	97.2186

## Normalization

Type *LB (larger is better)* Parameters  $u=8.6992$   $\tau=93.1554$   
 Comments  $u=\min$   $r=\text{average of EU-14}$

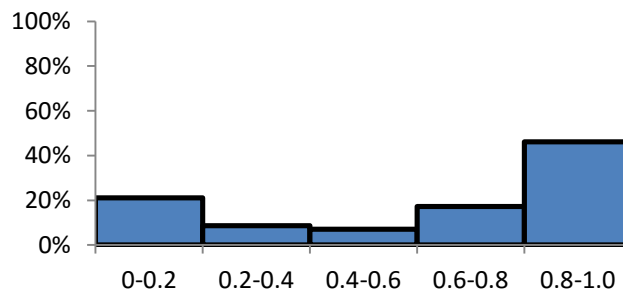
## Smoothed data

Albania	0.7205	Ecuador	0.7764	Lebanon	0.7916	Rwanda	0.1428**
Algeria	0.6789	Egypt	0.7434	Lithuania	0.9709	Saudi Arabia	0.9510**
Angola	0.0564	El Salvador	0.6079	Macedonia, FYR	0.8641	Senegal	0.1529
Argentina	0.8860	Estonia	0.9867	Madagascar	0.1765	Sierra Leone	0.1251**
Armenia	0.9020	Ethiopia	0.0628	Malawi	0.2436	Slovakia	0.9323**
Australia	0.9090	Finland	1.0000	Malaysia	0.7094	Slovenia	0.9918
Austria	0.9385**	France	1.0000	Mali	0.2597	South Africa	0.7228
Azerbaijan	0.9186	Gabon	0.0564**	Mauritania	0.0854	South Korea	1.0000
Bangladesh	0.4551	Gambia	0.0998**	Mexico	0.7575	Spain	1.0000
Belarus	0.9942	Georgia	0.8375	Moldova	0.8205	Sri Lanka	0.7969*
Belgium	0.9411	Germany	0.9385**	Mongolia	0.8020	Sudan	0.1332**
Benin	0.1333	Ghana	0.4451	Morocco	0.3122	Sweden	1.0000
Bolivia	0.7252	Greece	1.0000	Mozambique	0.1021	Switzerland	0.8805
Botswana	0.6199	Guatemala	0.4433	Namibia	0.4970	Syria	0.6999
Brazil	0.8860**	Guinea	0.2914	Nepal	0.5364*	Tajikistan	0.9158
Bulgaria	0.8759	Guinea Bis.	0.0018	Netherlands	0.9323	Tanzania	0.1343**
Burkina Faso	0.1042	Honduras	0.1413	New Zealand	1.0000	Thailand	0.7738
Burundi	0.1110	Hungary	0.9756	Nicaragua	0.4389	Togo	0.1892
C. African R.	0.0643	India	0.3706*	Niger	0.0000	Tunisia	0.3122**
Cambodia	0.1575	Indonesia	0.6937	Nigeria	0.1529**	Turkey	0.8306
Cameroon	0.3879	Iran	0.8457**	Norway	1.0000	UAE	0.8565
Canada	0.9722	Ireland	1.0000	Oman	1.0000	Uganda	0.0807
Chad	0.0245	Israel	1.0000	Pakistan	0.3063	UK	1.0000
Chile	0.8909	Italy	1.0000	Panama	0.7029	Ukraine	0.9011
China	0.4890*	Japan	1.0000	Papua N.G.	0.4551**	Uruguay	0.7505
Colombia	0.7963	Jordan	0.9111	Paraguay	0.6205	USA	0.9568
Congo	0.8916*	Kazakhstan	0.9630	Peru	0.8155	Uzbekistan	0.9082**
Cote d'Ivoire	0.1332	Kenya	0.4126	Philippines	0.6259	Venezuela	0.7590
Croatia	0.9749	Kuwait	0.9510	Poland	0.9854	Vietnam	0.6653
Czech Rep.	0.9805**	Kyrgyzstan	0.8457	Portugal	0.8633	Yemen	0.3663
D.R. Congo	0.1024	Laos	0.3787	Romania	0.8715	Zambia	0.1286**
Denmark	0.9570	Latvia	0.8897	Russia	0.9390*	Zimbabwe	0.3879**

\* denotes estimated values      \*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.6362	Min	0.0000	Std. Deviation	0.3394	5 Percentile	0.0700
Missing	0	Median	0.7664	Max	1.0000			95 Percentile	1.0000



**Indicator:** Tax revenue**Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Policy**Tertiary indicator:** Response**Explanation:** Tax revenue refers to compulsory transfers to the central government for public purposes. Certain compulsory transfers such as fines, penalties, and most social security contributions are excluded. Refunds and corrections of erroneously collected tax revenue are treated as negative revenue.**Sources:** World Bank (<http://data.worldbank.org/indicator/GC.TAX.TOTL.GD.ZS>)**Period:** 1990-2011**Units:** percent of GDP**Most recent data**

Albania	17.2918	Ecuador	27.2492	Lebanon	17.0221	Rwanda	9.0483
Algeria	39.4192	Egypt	14.0621	Lithuania	13.3728	Saudi Arabia	-
Angola	-	El Salvador	13.5002	Macedonia, FYR	19.0944	Senegal	16.1154
Argentina	14.1974	Estonia	16.0187	Madagascar	13.0044	Sierra Leone	11.0799
Armenia	17.0418	Ethiopia	9.2800	Malawi	-	Slovakia	12.6744
Australia	20.5900	Finland	20.5520	Malaysia	15.3089	Slovenia	17.9321
Austria	18.3634	France	21.3019	Mali	14.6120	South Africa	25.6672
Azerbaijan	12.7163	Gabon	-	Mauritania	-	South Korea	15.5506
Bangladesh	9.9847	Gambia	18.2048	Mexico	11.6553	Spain	9.4523
Belarus	16.2528	Georgia	23.9464	Moldova	18.3188	Sri Lanka	12.4202
Belgium	24.6318	Germany	11.7994	Mongolia	21.9414	Sudan	6.3866
Benin	15.7213	Ghana	15.0043	Morocco	23.5640	Sweden	21.9130
Bolivia	16.9649	Greece	21.3143	Mozambique	-	Switzerland	10.4385
Botswana	20.7570	Guatemala	11.0122	Namibia	27.3342	Syria	16.2976
Brazil	15.7381	Guinea	11.1293	Nepal	13.2358	Tajikistan	9.8212
Bulgaria	19.0644	Guinea Bis.	-	Netherlands	21.7442	Tanzania	-
Burkina Faso	14.1810	Honduras	15.0289	New Zealand	27.4885	Thailand	17.5521
Burundi	13.5974	Hungary	20.9952	Nicaragua	15.2319	Togo	17.0609
C. African R.	6.2142	India	10.3894	Niger	11.3401	Tunisia	20.9086
Cambodia	10.0001	Indonesia	11.7660	Nigeria	0.2790	Turkey	20.0545
Cameroon	11.1981	Iran	9.2565	Norway	28.3746	UAE	1.1224
Canada	11.8947	Ireland	23.0939	Oman	2.1507	Uganda	16.1484
Chad	-	Israel	24.4741	Pakistan	9.3128	UK	27.4036
Chile	19.1372	Italy	22.4776	Panama	9.2601	Ukraine	18.2815
China	10.4818	Japan	9.8194	Papua N.G.	21.0132	Uruguay	19.6141
Colombia	13.8693	Jordan	14.9547	Paraguay	13.2489	USA	10.0881
Congo	6.2431	Kazakhstan	22.4633	Peru	15.8765	Uzbekistan	-
Cote d'Ivoire	-	Kenya	19.9003	Philippines	12.3472	Venezuela	15.5137
Croatia	18.3923	Kuwait	0.6976	Poland	17.0032	Vietnam	-
Czech Rep.	13.6828	Kyrgyzstan	16.1283	Portugal	21.4584	Yemen	9.2068
D.R. Congo	13.7384	Laos	13.6105	Romania	17.2106	Zambia	16.5822
Denmark	33.7539	Latvia	13.2814	Russia	15.3675	Zimbabwe	26.0534

**Descriptive Statistics - based on most recent data**

Available	116	Mean	15.9947	Min	0.2790	Std. Deviation	6.3726	5 Percentile	6.3507
Missing	12	Median	15.6359	Max	39.4192			95 Percentile	27.2705

## Normalization

Type *LB (larger is better)* Parameters  $u=9.4523$   $\tau=21.3757$   
 Comments  $u=\text{min of EU-14}$   $r=\text{average of EU-14}$

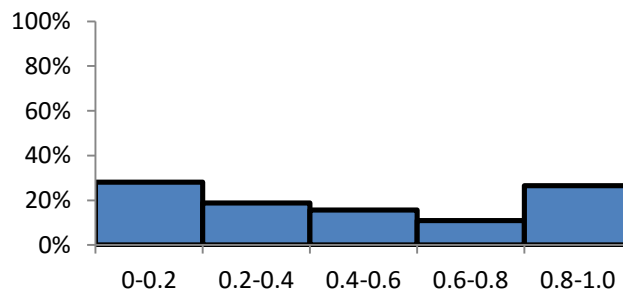
## Smoothed data

Albania	0.6575	Ecuador	1.0000	Lebanon	0.6349	Rwanda	0.0000
Algeria	1.0000	Egypt	0.3866	Lithuania	0.3288	Saudi Arabia	0.0000**
Angola	0.1180**	El Salvador	0.3395	Macedonia, FYR	0.8167	Senegal	0.5588
Argentina	0.3980	Estonia	0.5573	Madagascar	0.2979	Sierra Leone	0.1365
Armenia	0.6365	Ethiopia	0.0000	Malawi	0.3557**	Slovakia	0.2702
Australia	0.9341	Finland	0.9309	Malaysia	0.4912	Slovenia	0.7022
Austria	0.7474	France	0.9918	Mali	0.4319	South Africa	1.0000
Azerbaijan	0.2737	Gabon	0.1425**	Mauritania	0.1770**	South Korea	0.5069
Bangladesh	0.0446	Gambia	0.7341	Mexico	0.1416	Spain	0.0047
Belarus	0.5703	Georgia	1.0000	Moldova	0.7436	Sri Lanka	0.2489
Belgium	1.0000	Germany	0.1945	Mongolia	0.9797	Sudan	0.0000
Benin	0.5621	Ghana	0.4442	Morocco	1.0000	Sweden	0.9993
Bolivia	0.6301	Greece	0.9948	Mozambique	0.6212**	Switzerland	0.0426
Botswana	0.9573	Guatemala	0.1308	Namibia	1.0000	Syria	0.6252
Brazil	0.5272	Guinea	0.1406	Nepal	0.3173	Tajikistan	0.0309
Bulgaria	0.8098	Guinea Bis.	0.3507**	Netherlands	1.0000	Tanzania	0.1425**
Burkina Faso	0.3302	Honduras	0.4677	New Zealand	1.0000	Thailand	0.5736
Burundi	0.3693	Hungary	0.9681	Nicaragua	0.4847	Togo	0.5656
C. African R.	0.0000	India	0.0786	Niger	0.1583	Tunisia	0.9593
Cambodia	0.0440	Indonesia	0.1818	Nigeria	0.0000	Turkey	0.8892
Cameroon	0.1425	Iran	0.0064	Norway	1.0000	UAE	0.0000
Canada	0.2048	Ireland	1.0000	Oman	0.0000	Uganda	0.4135
Chad	0.3531**	Israel	1.0000	Pakistan	0.0085	UK	1.0000
Chile	0.8123	Italy	0.9987	Panama	0.0154	Ukraine	0.6760
China	0.0863	Japan	0.0308	Papua N.G.	0.9510	Uruguay	0.8523
Colombia	0.2611	Jordan	0.4615	Paraguay	0.3184	USA	0.0533
Congo	0.0000	Kazakhstan	1.0000	Peru	0.5388	Uzbekistan	0.0064**
Cote d'Ivoire	0.3540**	Kenya	0.8040	Philippines	0.2428	Venezuela	0.4251
Croatia	0.7498	Kuwait	0.0000	Poland	0.6354	Vietnam	0.3023**
Czech Rep.	0.3548	Kyrgyzstan	0.5268	Portugal	0.9437	Yemen	0.0693
D.R. Congo	0.3540	Laos	0.3487	Romania	0.6447	Zambia	0.5994
Denmark	1.0000	Latvia	0.3211	Russia	0.4961	Zimbabwe	0.9692

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.4860	Min	0.0000	Std. Deviation	0.3501	5 Percentile	0.0000
Missing	0	Median	0.4528	Max	1.0000			95 Percentile	1.0000



**Indicator:** Tertiary education teaching staff**Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Knowledge**Tertiary indicator:** Pressure**Explanation:** Teaching staff includes (OECD, 2000) professional personnel involved in direct student instruction: classroom teachers, special education teachers, other teachers who work with students as a whole class, and chairpersons of departments; it does not include nonprofessional personnel who support teachers.**Sources:** UNESCO  
(<http://stats.uis.unesco.org/unesco/ReportFolders/ReportFolders.aspx>)**Period:** 1990-2011**Units:** ratio of students to teaching staff**Most recent data**

Albania	25.6622	Ecuador	-	Lebanon	12.8662	Rwanda	15.1283
Algeria	11.8236	Egypt	29.6708	Lithuania	12.3951	Saudi Arabia	22.4900
Angola	9.7790	El Salvador	15.4639	Macedonia, FYR	17.3146	Senegal	-
Argentina	15.9489	Estonia	9.6783	Madagascar	17.5514	Sierra Leone	7.5467
Armenia	6.2444	Ethiopia	35.8341	Malawi	10.0773	Slovakia	12.5458
Australia	15.0000	Finland	16.2144	Malaysia	18.0892	Slovenia	32.6336
Austria	8.0076	France	15.8019	Mali	19.4396	South Africa	16.5480
Azerbaijan	9.1917	Gabon	12.7744	Mauritania	26.0567	South Korea	18.6788
Bangladesh	14.3073	Gambia	13.7529	Mexico	9.6597	Spain	13.4906
Belarus	11.3113	Georgia	9.0564	Moldova	15.7875	Sri Lanka	-
Belgium	14.7663	Germany	8.2170	Mongolia	18.2689	Sudan	45.5002
Benin	29.4018	Ghana	17.7900	Morocco	18.6925	Sweden	11.3876
Bolivia	19.1253	Greece	23.6348	Mozambique	11.8199	Switzerland	9.1083
Botswana	11.5975	Guatemala	27.7062	Namibia	14.5392	Syria	-
Brazil	14.7731	Guinea	-	Nepal	22.4641	Tajikistan	15.0596
Bulgaria	12.0662	Guinea Bis.	14.9355	Netherlands	11.9470	Tanzania	17.0700
Burkina Faso	-	Honduras	17.5658	New Zealand	13.7047	Thailand	33.6483
Burundi	15.2366	Hungary	16.4070	Nicaragua	15.3296	Togo	39.1354
C. African R.	19.4554	India	26.3855	Niger	16.6253	Tunisia	20.3613
Cambodia	17.4304	Indonesia	14.7474	Nigeria	26.9839	Turkey	25.2133
Cameroon	25.6848	Iran	20.3622	Norway	11.8637	UAE	21.5126
Canada	9.0814	Ireland	14.2487	Oman	31.4802	Uganda	14.5789
Chad	14.4279	Israel	-	Pakistan	-	UK	22.6428
Chile	-	Italy	21.9383	Panama	13.9272	Ukraine	12.9260
China	17.8614	Japan	8.1304	Papua N.G.	9.3185	Uruguay	8.2175
Colombia	11.8757	Jordan	26.7936	Paraguay	-	USA	14.2308
Congo	13.9329	Kazakhstan	16.0383	Peru	14.8269	Uzbekistan	16.0485
Cote d'Ivoire	-	Kenya	-	Philippines	22.0698	Venezuela	12.4670
Croatia	14.9683	Kuwait	14.9977	Poland	21.1023	Vietnam	20.6456
Czech Rep.	12.9888	Kyrgyzstan	15.2128	Portugal	11.0767	Yemen	33.1794
D.R. Congo	15.9295	Laos	15.6728	Romania	21.7398	Zambia	-
Denmark	-	Latvia	22.1910	Russia	13.8722	Zimbabwe	-

**Descriptive Statistics - based on most recent data**

Available	113	Mean	17.2742	Min	6.2444	Std. Deviation	7.0749	5 Percentile	8.7208
Missing	15	Median	15.3296	Max	45.5002			95 Percentile	31.9416

## Normalization

Type *SB (smaller is better)* Parameters *T=14.8749* *U=45.5002*  
 Comments *T=average of EU-14* *U=max*

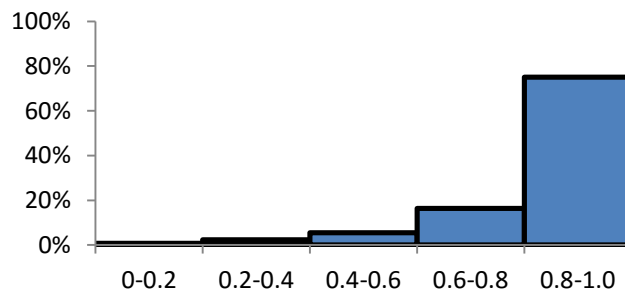
## Smoothed data

Albania	0.6478	Ecuador	1.0000**	Lebanon	1.0000	Rwanda	0.9917
Algeria	1.0000	Egypt	0.5169	Lithuania	1.0000	Saudi Arabia	0.7513
Angola	1.0000	El Salvador	0.9798	Macedonia, FYR	0.9203	Senegal	0.6046**
Argentina	0.9820	Estonia	1.0000	Madagascar	0.8518	Sierra Leone	1.0000
Armenia	1.0000	Ethiopia	0.3156	Malawi	1.0000	Slovakia	1.0000
Australia	0.9959	Finland	0.9563	Malaysia	0.8892	Slovenia	0.4227
Austria	1.0000	France	0.9697	Mali	0.8510	South Africa	0.9454
Azerbaijan	1.0000	Gabon	1.0000	Mauritania	0.6349	South Korea	0.8758
Bangladesh	0.9694	Gambia	1.0000	Mexico	1.0000	Spain	1.0000
Belarus	1.0000	Georgia	1.0000	Moldova	0.9702	Sri Lanka	0.6921**
Belgium	0.9809	Germany	1.0000	Mongolia	0.8892	Sudan	0.0000
Benin	0.5257	Ghana	0.8550	Morocco	0.8870	Sweden	1.0000
Bolivia	0.8213	Greece	0.7145	Mozambique	1.0000	Switzerland	1.0000
Botswana	1.0000	Guatemala	0.5810	Namibia	1.0000	Syria	0.9617**
Brazil	0.9948	Guinea	0.7029**	Nepal	0.7522	Tajikistan	0.9940
Bulgaria	1.0000	Guinea Bis.	0.9980	Netherlands	1.0000	Tanzania	0.9283
Burkina Faso	0.8510**	Honduras	0.9121	New Zealand	0.9954	Thailand	0.3779
Burundi	0.9815	Hungary	0.9629	Nicaragua	0.9852	Togo	0.2078
C. African R.	0.8504	India	0.6241	Niger	0.9428	Tunisia	0.8209
Cambodia	0.9166	Indonesia	1.0000	Nigeria	0.6046	Turkey	0.6945
Cameroon	0.6508	Iran	0.8028	Norway	1.0000	UAE	0.7834
Canada	1.0000	Ireland	0.9978	Oman	0.4578	Uganda	1.0000
Chad	1.0000	Israel	0.4227**	Pakistan	0.9694**	UK	0.7615
Chile	0.9953**	Italy	0.7651	Panama	1.0000	Ukraine	1.0000
China	0.9025	Japan	1.0000	Papua N.G.	1.0000	Uruguay	1.0000
Colombia	1.0000	Jordan	0.6109	Paraguay	0.9798**	USA	1.0000
Congo	1.0000	Kazakhstan	0.9623	Peru	1.0000	Uzbekistan	0.9617
Cote d'Ivoire	0.9980**	Kenya	0.8028**	Philippines	0.6985	Venezuela	1.0000
Croatia	0.9970	Kuwait	0.9960	Poland	0.7967	Vietnam	0.8116
Czech Rep.	1.0000	Kyrgyzstan	0.8944	Portugal	1.0000	Yemen	0.4023
D.R. Congo	0.9656	Laos	0.9639	Romania	0.7758	Zambia	0.9259**
Denmark	0.9854**	Latvia	0.7611	Russia	1.0000	Zimbabwe	0.6508**

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8711	Min	0.0000	Std. Deviation	0.1925	5 Percentile	0.4350
Missing	0	Median	0.9696	Max	1.0000			95 Percentile	1.0000





**Indicator:** Threatened amphibians**Primary indicator:** Ecological Sustainability (ECOS)**Secondary indicator:** Biodiversity**Tertiary indicator:** Pressure**Explanation:** Includes all amphibians that are critically endangered, endangered, or vulnerable, but excludes introduced species, species whose status is insufficiently known, those known to be extinct, and those for which a status has not been assessed. IUCN has established detailed quantitative definitions for the previous categories.**Sources:** United Nations Environment Programme (<http://geodata.grid.unep.ch>)**Period:** 1990-2011**Units:** percentage of all amphibian species**Most recent data**

Albania	0.0000	Ecuador	0.0000	Lebanon	0.0000	Rwanda	0.0000
Algeria	0.0000	Egypt	0.0000	Lithuania	0.0000	Saudi Arabia	0.0000
Angola	0.0000	El Salvador	0.0000	Macedonia, FYR	0.0000	Senegal	0.0000
Argentina	3.0864	Estonia	0.0000	Madagascar	0.9217	Sierra Leone	0.0000
Armenia	0.0000	Ethiopia	0.0000	Malawi	0.0000	Slovakia	0.0000
Australia	15.3509	Finland	0.0000	Malaysia	0.0000	Slovenia	5.5556
Austria	0.0000	France	5.1282	Mali	0.0000	South Africa	7.6923
Azerbaijan	0.0000	Gabon	0.0000	Mauritania	0.0000	South Korea	0.0000
Bangladesh	0.0000	Gambia	0.0000	Mexico	1.1173	Spain	9.3750
Belarus	0.0000	Georgia	6.6667	Moldova	0.0000	Sri Lanka	0.0000
Belgium	0.0000	Germany	0.0000	Mongolia	0.0000	Sudan	0.0000
Benin	0.0000	Ghana	0.0000	Morocco	0.0000	Sweden	0.0000
Bolivia	0.6173	Greece	4.7619	Mozambique	0.0000	Switzerland	0.0000
Botswana	0.0000	Guatemala	0.0000	Namibia	3.2258	Syria	0.0000
Brazil	0.8811	Guinea	3.0303	Nepal	0.0000	Tajikistan	0.0000
Bulgaria	0.0000	Guinea Bis.	0.0000	Netherlands	0.0000	Tanzania	0.0000
Burkina Faso	0.0000	Honduras	0.0000	New Zealand	16.6667	Thailand	0.0000
Burundi	0.0000	Hungary	0.0000	Nicaragua	0.0000	Togo	0.0000
C. African R.	0.0000	India	1.2987	Niger	0.0000	Tunisia	0.0000
Cambodia	0.0000	Indonesia	0.0000	Nigeria	0.0000	Turkey	13.0435
Cameroon	0.5848	Iran	8.6957	Norway	0.0000	UAE	0.0000
Canada	2.3810	Ireland	0.0000	Oman	0.0000	Uganda	0.0000
Chad	0.0000	Israel	0.0000	Pakistan	0.0000	UK	0.0000
Chile	6.1224	Italy	9.0909	Panama	0.0000	Ukraine	0.0000
China	0.2941	Japan	15.6250	Papua N.G.	0.0000	Uruguay	0.0000
Colombia	0.0000	Jordan	0.0000	Paraguay	0.0000	USA	8.8339
Congo	0.0000	Kazakhstan	6.6667	Peru	0.2841	Uzbekistan	0.0000
Cote d'Ivoire	2.6316	Kenya	0.0000	Philippines	20.7207	Venezuela	0.0000
Croatia	10.0000	Kuwait	0.0000	Poland	0.0000	Vietnam	0.7634
Czech Rep.	0.0000	Kyrgyzstan	0.0000	Portugal	5.0000	Yemen	0.0000
D.R. Congo	0.0000	Laos	0.0000	Romania	0.0000	Zambia	0.0000
Denmark	0.0000	Latvia	0.0000	Russia	0.0000	Zimbabwe	0.0000

**Descriptive Statistics - based on most recent data**

Available	128	Mean	1.5321	Min	0.0000	Std. Deviation	3.7844	5 Percentile	0.0000
Missing	0	Median	0.0000	Max	20.7207			95 Percentile	9.2756

## Normalization

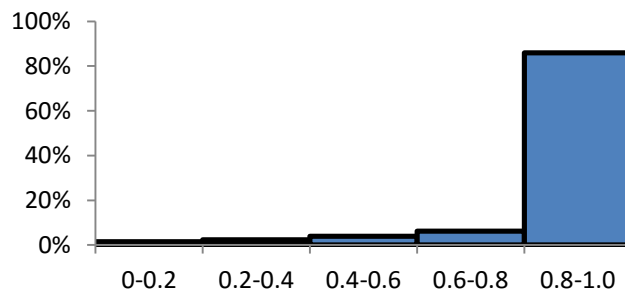
Type *SB (smaller is better)* Parameters *T=0.0000* *U=20.7207*  
 Comments *T=minimum possible* *U=max*

## Smoothed data

Albania	1.0000	Ecuador	1.0000	Lebanon	1.0000	Rwanda	1.0000
Algeria	1.0000	Egypt	1.0000	Lithuania	1.0000	Saudi Arabia	1.0000
Angola	1.0000	El Salvador	1.0000	Macedonia, FYR	1.0000	Senegal	1.0000
Argentina	0.8510	Estonia	1.0000	Madagascar	0.9555	Sierra Leone	1.0000
Armenia	1.0000	Ethiopia	1.0000	Malawi	1.0000	Slovakia	1.0000
Australia	0.2592	Finland	1.0000	Malaysia	1.0000	Slovenia	0.7319
Austria	1.0000	France	0.7525	Mali	1.0000	South Africa	0.6288
Azerbaijan	1.0000	Gabon	1.0000	Mauritania	1.0000	South Korea	1.0000
Bangladesh	1.0000	Gambia	1.0000	Mexico	0.9461	Spain	0.5476
Belarus	1.0000	Georgia	0.6783	Moldova	1.0000	Sri Lanka	1.0000
Belgium	1.0000	Germany	1.0000	Mongolia	1.0000	Sudan	1.0000
Benin	1.0000	Ghana	1.0000	Morocco	1.0000	Sweden	1.0000
Bolivia	0.9702	Greece	0.7702	Mozambique	1.0000	Switzerland	1.0000
Botswana	1.0000	Guatemala	1.0000	Namibia	0.8443	Syria	1.0000
Brazil	0.9575	Guinea	0.8538	Nepal	1.0000	Tajikistan	1.0000
Bulgaria	1.0000	Guinea Bis.	1.0000	Netherlands	1.0000	Tanzania	1.0000
Burkina Faso	1.0000	Honduras	1.0000	New Zealand	0.1957	Thailand	1.0000
Burundi	1.0000	Hungary	1.0000	Nicaragua	1.0000	Togo	1.0000
C. African R.	1.0000	India	0.9373	Niger	1.0000	Tunisia	1.0000
Cambodia	1.0000	Indonesia	1.0000	Nigeria	1.0000	Turkey	0.3705
Cameroon	0.9718	Iran	0.5803	Norway	1.0000	UAE	1.0000
Canada	0.8851	Ireland	1.0000	Oman	1.0000	Uganda	1.0000
Chad	1.0000	Israel	1.0000	Pakistan	1.0000	UK	1.0000
Chile	0.7045	Italy	0.5613	Panama	1.0000	Ukraine	1.0000
China	0.9858	Japan	0.2459	Papua N.G.	1.0000	Uruguay	1.0000
Colombia	1.0000	Jordan	1.0000	Paraguay	1.0000	USA	0.5737
Congo	1.0000	Kazakhstan	0.6783	Peru	0.9863	Uzbekistan	1.0000
Cote d'Ivoire	0.8730	Kenya	1.0000	Philippines	0.0000	Venezuela	1.0000
Croatia	0.5174	Kuwait	1.0000	Poland	1.0000	Vietnam	0.9632
Czech Rep.	1.0000	Kyrgyzstan	1.0000	Portugal	0.7587	Yemen	1.0000
D.R. Congo	1.0000	Laos	1.0000	Romania	1.0000	Zambia	1.0000
Denmark	1.0000	Latvia	1.0000	Russia	1.0000	Zimbabwe	1.0000

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.9261	Min	0.0000	Std. Deviation	0.1826	5 Percentile	0.5524
Missing	0	Median	1.0000	Max	1.0000			95 Percentile	1.0000



**Indicator: Threatened birds****Primary indicator:** Ecological Sustainability (ECOS)**Secondary indicator:** Biodiversity**Tertiary indicator:** Pressure**Explanation:** Includes all bird species that are critically endangered, endangered, or vulnerable, but excludes introduced species, species whose status is insufficiently known, those known to be extinct, and those for which a status has not been assessed. IUCN has established detailed quantitative definitions for the previous categories.**Sources:** United Nations Environment Programme (<http://geodata.grid.unep.ch>)**Period:** 1990-2011**Units:** percentage of all bird species**Most recent data**

Albania	1.5544	Ecuador	9.6875	Lebanon	6.0345	Rwanda	4.5000
Algeria	3.2787	Egypt	5.6911	Lithuania	1.9900	Saudi Arabia	12.0000
Angola	5.6604	El Salvador	0.0000	Macedonia, FYR	1.5075	Senegal	2.2857
Argentina	10.7735	Estonia	1.4706	Madagascar	15.6977	Sierra Leone	5.8140
Armenia	1.6949	Ethiopia	6.1069	Malawi	5.0228	Slovakia	2.0101
Australia	7.4447	Finland	1.2346	Malaysia	14.5669	Slovenia	0.4975
Austria	1.3043	France	1.7668	Mali	2.0942	South Africa	9.2105
Azerbaijan	3.4934	Gabon	3.2051	Mauritania	1.1628	South Korea	18.1159
Bangladesh	13.8554	Gambia	1.2987	Mexico	8.8636	Spain	2.4911
Belarus	1.5464	Georgia	1.4423	Moldova	2.8571	Sri Lanka	11.1111
Belgium	1.0471	Germany	2.0243	Mongolia	5.8394	Sudan	2.1429
Benin	1.7857	Ghana	3.8835	Morocco	4.3689	Sweden	0.7722
Bolivia	5.5556	Greece	2.7451	Mozambique	11.1111	Switzerland	1.0050
Botswana	3.8043	Guatemala	2.7149	Namibia	5.4726	Syria	5.5172
Brazil	16.6181	Guinea	9.1743	Nepal	9.1241	Tajikistan	3.3333
Bulgaria	4.0323	Guinea Bis.	0.0000	Netherlands	2.0833	Tanzania	14.4105
Burkina Faso	1.4493	Honduras	2.1552	New Zealand	33.1579	Thailand	12.9825
Burundi	4.8276	Hungary	3.8462	Nicaragua	2.3256	Togo	0.0000
C. African R.	1.7857	India	15.7205	Niger	2.4000	Tunisia	3.0303
Cambodia	10.3825	Indonesia	12.2713	Nigeria	3.1469	Turkey	3.9568
Cameroon	9.0909	Iran	4.4369	Norway	0.8299	UAE	23.5294
Canada	2.5806	Ireland	0.6993	Oman	9.1743	Uganda	5.3498
Chad	3.5461	Israel	7.4074	Pakistan	7.1730	UK	0.8734
Chile	14.0127	Italy	2.0000	Panama	5.2980	Ukraine	3.2653
China	11.9741	Japan	16.1905	Papua N.G.	7.7295	Uruguay	9.5652
Colombia	11.0169	Jordan	6.8376	Paraguay	11.1588	USA	10.8268
Congo	2.3077	Kazakhstan	3.9578	Peru	10.9353	Uzbekistan	4.4335
Cote d'Ivoire	4.7619	Kenya	6.9767	Philippines	16.5842	Venezuela	4.3876
Croatia	1.7857	Kuwait	20.0000	Poland	1.7167	Vietnam	14.1221
Czech Rep.	0.9756	Kyrgyzstan	2.3810	Portugal	2.9787	Yemen	12.9032
D.R. Congo	8.1159	Laos	9.4340	Romania	3.1128	Zambia	4.3651
Denmark	0.5102	Latvia	1.3889	Russia	7.1970	Zimbabwe	4.3668

**Descriptive Statistics - based on most recent data**

Available	128	Mean	6.0673	Min	0.0000	Std. Deviation	5.4836	5 Percentile	0.7924
Missing	0	Median	4.3659	Max	33.1579			95 Percentile	16.0260

## Normalization

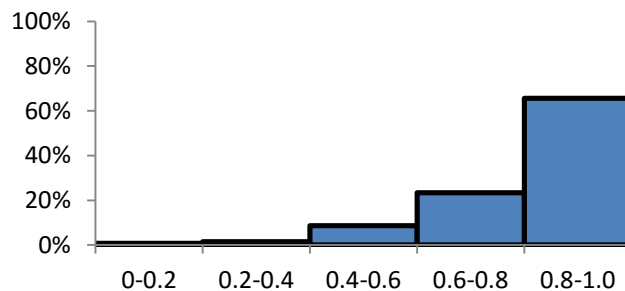
Type *SB (smaller is better)* Parameters *T=0.0000* *U=33.1579*  
 Comments *T=minimum possible* *U=max*

## Smoothed data

Albania	0.9531	Ecuador	0.7078	Lebanon	0.8180	Rwanda	0.8643
Algeria	0.9011	Egypt	0.8284	Lithuania	0.9400	Saudi Arabia	0.6381
Angola	0.8293	El Salvador	1.0000	Macedonia, FYR	0.9545	Senegal	0.9311
Argentina	0.6751	Estonia	0.9556	Madagascar	0.5266	Sierra Leone	0.8247
Armenia	0.9489	Ethiopia	0.8158	Malawi	0.8485	Slovakia	0.9394
Australia	0.7755	Finland	0.9628	Malaysia	0.5607	Slovenia	0.9850
Austria	0.9607	France	0.9467	Mali	0.9368	South Africa	0.7222
Azerbaijan	0.8946	Gabon	0.9033	Mauritania	0.9649	South Korea	0.4536
Bangladesh	0.5821	Gambia	0.9608	Mexico	0.7327	Spain	0.9249
Belarus	0.9534	Georgia	0.9565	Moldova	0.9138	Sri Lanka	0.6649
Belgium	0.9684	Germany	0.9389	Mongolia	0.8239	Sudan	0.9354
Benin	0.9461	Ghana	0.8829	Morocco	0.8682	Sweden	0.9767
Bolivia	0.8325	Greece	0.9172	Mozambique	0.6649	Switzerland	0.9697
Botswana	0.8853	Guatemala	0.9181	Namibia	0.8350	Syria	0.8336
Brazil	0.4988	Guinea	0.7233	Nepal	0.7248	Tajikistan	0.8995
Bulgaria	0.8784	Guinea Bis.	1.0000	Netherlands	0.9372	Tanzania	0.5654
Burkina Faso	0.9563	Honduras	0.9350	New Zealand	0.0000	Thailand	0.6085
Burundi	0.8544	Hungary	0.8840	Nicaragua	0.9299	Togo	1.0000
C. African R.	0.9461	India	0.5259	Niger	0.9276	Tunisia	0.9086
Cambodia	0.6869	Indonesia	0.6299	Nigeria	0.9051	Turkey	0.8807
Cameroon	0.7258	Iran	0.8662	Norway	0.9750	UAE	0.2904
Canada	0.9222	Ireland	0.9789	Oman	0.7233	Uganda	0.8387
Chad	0.8931	Israel	0.7766	Pakistan	0.7837	UK	0.9737
Chile	0.5774	Italy	0.9397	Panama	0.8402	Ukraine	0.9015
China	0.6389	Japan	0.5117	Papua N.G.	0.7669	Uruguay	0.7115
Colombia	0.6677	Jordan	0.7938	Paraguay	0.6635	USA	0.6735
Congo	0.9304	Kazakhstan	0.8806	Peru	0.6702	Uzbekistan	0.8663
Cote d'Ivoire	0.8564	Kenya	0.7896	Philippines	0.4998	Venezuela	0.8677
Croatia	0.9461	Kuwait	0.3968	Poland	0.9482	Vietnam	0.5741
Czech Rep.	0.9706	Kyrgyzstan	0.9282	Portugal	0.9102	Yemen	0.6109
D.R. Congo	0.7552	Laos	0.7155	Romania	0.9061	Zambia	0.8684
Denmark	0.9846	Latvia	0.9581	Russia	0.7829	Zimbabwe	0.8683

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8170	Min	0.0000	Std. Deviation	0.1654	5 Percentile	0.5167
Missing	0	Median	0.8683	Max	1.0000			95 Percentile	0.9761



**Indicator:** Threatened fishes**Primary indicator:** Ecological Sustainability (ECOS)**Secondary indicator:** Biodiversity**Tertiary indicator:** Pressure**Explanation:** Includes all fishes that are critically endangered, endangered, or vulnerable, but excludes introduced species, species whose status is insufficiently known, those known to be extinct, and those for which a status has not been assessed. IUCN has established detailed quantitative definitions for the previous categories.**Sources:** United Nations Environment Programme (<http://geodata.grid.unep.ch>)**Period:** 1990-2011**Units:** percentage of all fish species**Most recent data**

Albania	6.4220	Ecuador	1.2195	Lebanon	0.0000	Rwanda	0.0000
Algeria	1.0000	Egypt	0.0000	Lithuania	2.5641	Saudi Arabia	0.5988
Angola	0.0000	El Salvador	1.7699	Macedonia, FYR	23.5294	Senegal	0.6667
Argentina	1.9608	Estonia	0.0000	Madagascar	3.5897	Sierra Leone	0.0000
Armenia	5.8824	Ethiopia	0.0000	Malawi	0.0000	Slovakia	17.3913
Australia	2.9550	Finland	0.0000	Malaysia	5.4348	Slovenia	7.7670
Austria	14.2857	France	2.9586	Mali	50.0000	South Africa	4.6105
Azerbaijan	15.6250	Gabon	0.9615	Mauritania	0.0000	South Korea	0.0000
Bangladesh	0.0000	Gambia	0.9804	Mexico	13.0564	Spain	5.8824
Belarus	0.0000	Georgia	12.2449	Moldova	18.3673	Sri Lanka	2.9333
Belgium	0.0000	Germany	6.3158	Mongolia	100.0000	Sudan	0.0000
Benin	0.0000	Ghana	0.0000	Morocco	0.7353	Sweden	0.0000
Bolivia	0.0000	Greece	13.1579	Mozambique	0.7634	Switzerland	7.1429
Botswana	0.0000	Guatemala	1.4493	Namibia	2.8037	Syria	0.0000
Brazil	3.6093	Guinea	0.0000	Nepal	0.0000	Tajikistan	50.0000
Bulgaria	11.2360	Guinea Bis.	0.9091	Netherlands	2.9851	Tanzania	5.1360
Burkina Faso	0.0000	Honduras	0.4444	New Zealand	3.5088	Thailand	7.1429
Burundi	0.0000	Hungary	17.0213	Nicaragua	0.4149	Togo	0.0000
C. African R.	0.0000	India	0.1565	Niger	0.0000	Tunisia	0.0000
Cambodia	5.4688	Indonesia	16.6667	Nigeria	2.1053	Turkey	13.5802
Cameroon	19.5652	Iran	6.2500	Norway	0.0000	UAE	2.4390
Canada	12.5000	Ireland	0.0000	Oman	1.2195	Uganda	55.1020
Chad	0.0000	Israel	0.5618	Pakistan	2.1898	UK	0.7026
Chile	2.4540	Italy	5.3571	Panama	1.8182	Ukraine	12.5000
China	8.1013	Japan	1.2910	Papua N.G.	1.5152	Uruguay	3.0303
Colombia	2.5157	Jordan	0.0000	Paraguay	0.0000	USA	11.8074
Congo	1.2658	Kazakhstan	18.4211	Peru	0.6024	Uzbekistan	22.2222
Cote d'Ivoire	0.0000	Kenya	5.7325	Philippines	3.2563	Venezuela	2.8455
Croatia	19.6429	Kuwait	0.0000	Poland	1.9231	Vietnam	3.5019
Czech Rep.	15.9091	Kyrgyzstan	0.0000	Portugal	5.6962	Yemen	0.0000
D.R. Congo	0.9901	Laos	12.2449	Romania	11.6279	Zambia	0.0000
Denmark	0.0000	Latvia	2.6316	Russia	6.5327	Zimbabwe	0.0000

**Descriptive Statistics - based on most recent data**

Available	128	Mean	6.1201	Min	0.0000	Std. Deviation	12.4557	5 Percentile	0.0000
Missing	0	Median	1.8706	Max	100.0000			95 Percentile	19.6157

## Normalization

Type *SB (smaller is better)*

Parameters

$T=0.0000$

$U=55.1020$

Comments

$T=\text{minimum possible}$

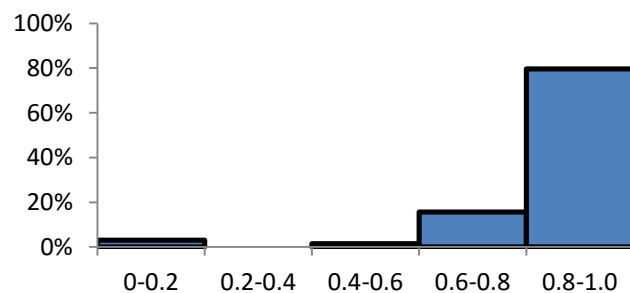
$U=\text{max (excluding 1% outliers)}$

## Smoothed data

Albania	0.8835	Ecuador	0.9779	Lebanon	1.0000	Rwanda	1.0000
Algeria	0.9819	Egypt	1.0000	Lithuania	0.9535	Saudi Arabia	0.9891
Angola	1.0000	El Salvador	0.9679	Macedonia, FYR	0.5730	Senegal	0.9879
Argentina	0.9644	Estonia	1.0000	Madagascar	0.9349	Sierra Leone	1.0000
Armenia	0.8932	Ethiopia	1.0000	Malawi	1.0000	Slovakia	0.6844
Australia	0.9464	Finland	1.0000	Malaysia	0.9014	Slovenia	0.8590
Austria	0.7407	France	0.9463	Mali	0.0926	South Africa	0.9163
Azerbaijan	0.7164	Gabon	0.9825	Mauritania	1.0000	South Korea	1.0000
Bangladesh	1.0000	Gambia	0.9822	Mexico	0.7631	Spain	0.8932
Belarus	1.0000	Georgia	0.7778	Moldova	0.6667	Sri Lanka	0.9468
Belgium	1.0000	Germany	0.8854	Mongolia	0.0000	Sudan	1.0000
Benin	1.0000	Ghana	1.0000	Morocco	0.9867	Sweden	1.0000
Bolivia	1.0000	Greece	0.7612	Mozambique	0.9861	Switzerland	0.8704
Botswana	1.0000	Guatemala	0.9737	Namibia	0.9491	Syria	1.0000
Brazil	0.9345	Guinea	1.0000	Nepal	1.0000	Tajikistan	0.0926
Bulgaria	0.7961	Guinea Bis.	0.9835	Netherlands	0.9458	Tanzania	0.9068
Burkina Faso	1.0000	Honduras	0.9919	New Zealand	0.9363	Thailand	0.8704
Burundi	1.0000	Hungary	0.6911	Nicaragua	0.9925	Togo	1.0000
C. African R.	1.0000	India	0.9972	Niger	1.0000	Tunisia	1.0000
Cambodia	0.9008	Indonesia	0.6975	Nigeria	0.9618	Turkey	0.7535
Cameroon	0.6449	Iran	0.8866	Norway	1.0000	UAE	0.9557
Canada	0.7731	Ireland	1.0000	Oman	0.9779	Uganda	0.0000
Chad	1.0000	Israel	0.9898	Pakistan	0.9603	UK	0.9872
Chile	0.9555	Italy	0.9028	Panama	0.9670	Ukraine	0.7731
China	0.8530	Japan	0.9766	Papua N.G.	0.9725	Uruguay	0.9450
Colombia	0.9543	Jordan	1.0000	Paraguay	1.0000	USA	0.7857
Congo	0.9770	Kazakhstan	0.6657	Peru	0.9891	Uzbekistan	0.5967
Cote d'Ivoire	1.0000	Kenya	0.8960	Philippines	0.9409	Venezuela	0.9484
Croatia	0.6435	Kuwait	1.0000	Poland	0.9651	Vietnam	0.9364
Czech Rep.	0.7113	Kyrgyzstan	1.0000	Portugal	0.8966	Yemen	1.0000
D.R. Congo	0.9820	Laos	0.7778	Romania	0.7890	Zambia	1.0000
Denmark	1.0000	Latvia	0.9522	Russia	0.8814	Zimbabwe	1.0000

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8953	Min	0.0000	Std. Deviation	0.1855	5 Percentile	0.6440
Missing	0	Median	0.9661	Max	1.0000			95 Percentile	1.0000



**Indicator:** Threatened mammals**Primary indicator:** Ecological Sustainability (ECOS)**Secondary indicator:** Biodiversity**Tertiary indicator:** Pressure**Explanation:** Includes all mammal species that are critically endangered, endangered, or vulnerable, but excludes introduced species, species whose status is insufficiently known, those known to be extinct, and those for which a status has not been assessed. IUCN has established detailed quantitative definitions for the previous categories.**Sources:** United Nations Environment Programme (<http://geodata.grid.unep.ch>)**Period:** 1990-2011**Units:** percentage of all mammal species**Most recent data**

Albania	4.4118	Ecuador	10.9272	Lebanon	8.7719	Rwanda	5.9603
Algeria	14.1304	Egypt	13.2653	Lithuania	7.3529	Saudi Arabia	10.3896
Angola	6.8841	El Salvador	1.4815	Macedonia, FYR	14.1026	Senegal	6.2500
Argentina	10.6250	Estonia	6.1538	Madagascar	35.4610	Sierra Leone	8.1633
Armenia	13.0952	Ethiopia	12.6354	Malawi	4.1026	Slovakia	10.5882
Australia	25.0000	Finland	8.3333	Malaysia	16.6667	Slovenia	12.0000
Austria	8.4337	France	19.3548	Mali	9.4891	South Africa	17.0040
Azerbaijan	13.1313	Gabon	7.8947	Mauritania	16.3934	South Korea	26.5306
Bangladesh	18.4000	Gambia	2.5641	Mexico	14.2566	Spain	29.2683
Belarus	9.4595	Georgia	12.1495	Moldova	8.8235	Sri Lanka	25.0000
Belgium	18.9655	Germany	14.4737	Mongolia	10.5263	Sudan	8.6142
Benin	4.2553	Ghana	6.3063	Morocco	15.2381	Sweden	11.6667
Bolivia	7.5949	Greece	13.6842	Mozambique	7.8212	Switzerland	6.6667
Botswana	3.6585	Guatemala	2.4000	Namibia	6.0000	Syria	6.3492
Brazil	20.5584	Guinea	6.3158	Nepal	17.1271	Tajikistan	10.7143
Bulgaria	17.2840	Guinea Bis.	2.7778	Netherlands	18.1818	Tanzania	13.2911
Burkina Faso	4.7619	Honduras	5.7803	New Zealand	0.0000	Thailand	13.9623
Burundi	5.6075	Hungary	10.8434	Nicaragua	3.0000	Togo	4.5918
C. African R.	6.6986	India	22.5641	Niger	8.3969	Tunisia	14.1026
Cambodia	19.5122	Indonesia	28.5437	Nigeria	9.8540	Turkey	14.6552
Cameroon	9.7800	Iran	15.7143	Norway	18.5185	UAE	12.0000
Canada	7.2539	Ireland	20.0000	Oman	16.0714	Uganda	5.7971
Chad	12.6866	Israel	12.0690	Pakistan	10.1064	UK	24.0000
Chile	23.0769	Italy	15.5556	Panama	9.1743	Ukraine	14.8148
China	20.0508	Japan	19.6809	Papua N.G.	27.1028	Uruguay	7.4074
Colombia	11.4206	Jordan	14.0845	Paraguay	3.2787	USA	8.6449
Congo	7.5000	Kazakhstan	8.9888	Peru	10.6522	Uzbekistan	9.2784
Cote d'Ivoire	8.2609	Kenya	14.2061	Philippines	32.6797	Venezuela	8.0495
Croatia	11.8421	Kuwait	4.7619	Poland	17.8571	Vietnam	18.7793
Czech Rep.	9.8765	Kyrgyzstan	8.4337	Portugal	26.9841	Yemen	7.5758
D.R. Congo	8.8889	Laos	18.0233	Romania	20.2381	Zambia	4.7210
Denmark	11.6279	Latvia	4.8193	Russia	16.7286	Zimbabwe	4.0741

**Descriptive Statistics - based on most recent data**

Available	128	Mean	12.1983	Min	0.0000	Std. Deviation	6.8614	5 Percentile	3.4116
Missing	0	Median	10.6832	Max	35.4610			95 Percentile	25.9949



## Normalization

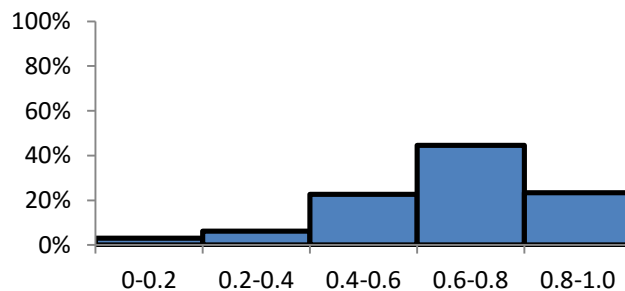
Type *SB (smaller is better)* Parameters *T=0.0000* *U=35.4610*  
 Comments *T=minimum possible* *U=max*

## Smoothed data

Albania	0.8756	Ecuador	0.6919	Lebanon	0.7526	Rwanda	0.8319
Algeria	0.6015	Egypt	0.6259	Lithuania	0.7926	Saudi Arabia	0.7070
Angola	0.8059	El Salvador	0.9582	Macedonia, FYR	0.6023	Senegal	0.8237
Argentina	0.7004	Estonia	0.8265	Madagascar	0.0000	Sierra Leone	0.7698
Armenia	0.6307	Ethiopia	0.6437	Malawi	0.8843	Slovakia	0.7014
Australia	0.2950	Finland	0.7650	Malaysia	0.5300	Slovenia	0.6616
Austria	0.7622	France	0.4542	Mali	0.7324	South Africa	0.5205
Azerbaijan	0.6297	Gabon	0.7774	Mauritania	0.5377	South Korea	0.2518
Bangladesh	0.4811	Gambia	0.9277	Mexico	0.5980	Spain	0.1746
Belarus	0.7332	Georgia	0.6574	Moldova	0.7512	Sri Lanka	0.2950
Belgium	0.4652	Germany	0.5918	Mongolia	0.7032	Sudan	0.7571
Benin	0.8800	Ghana	0.8222	Morocco	0.5703	Sweden	0.6710
Bolivia	0.7858	Greece	0.6141	Mozambique	0.7794	Switzerland	0.8120
Botswana	0.8968	Guatemala	0.9323	Namibia	0.8308	Syria	0.8210
Brazil	0.4203	Guinea	0.8219	Nepal	0.5170	Tajikistan	0.6979
Bulgaria	0.5126	Guinea Bis.	0.9217	Netherlands	0.4873	Tanzania	0.6252
Burkina Faso	0.8657	Honduras	0.8370	New Zealand	1.0000	Thailand	0.6063
Burundi	0.8419	Hungary	0.6942	Nicaragua	0.9154	Togo	0.8705
C. African R.	0.8111	India	0.3637	Niger	0.7632	Tunisia	0.6023
Cambodia	0.4498	Indonesia	0.1951	Nigeria	0.7221	Turkey	0.5867
Cameroon	0.7242	Iran	0.5569	Norway	0.4778	UAE	0.6616
Canada	0.7954	Ireland	0.4360	Oman	0.5468	Uganda	0.8365
Chad	0.6422	Israel	0.6597	Pakistan	0.7150	UK	0.3232
Chile	0.3492	Italy	0.5613	Panama	0.7413	Ukraine	0.5822
China	0.4346	Japan	0.4450	Papua N.G.	0.2357	Uruguay	0.7911
Colombia	0.6779	Jordan	0.6028	Paraguay	0.9075	USA	0.7562
Congo	0.7885	Kazakhstan	0.7465	Peru	0.6996	Uzbekistan	0.7384
Cote d'Ivoire	0.7670	Kenya	0.5994	Philippines	0.0784	Venezuela	0.7730
Croatia	0.6661	Kuwait	0.8657	Poland	0.4964	Vietnam	0.4704
Czech Rep.	0.7215	Kyrgyzstan	0.7622	Portugal	0.2390	Yemen	0.7864
D.R. Congo	0.7493	Laos	0.4917	Romania	0.4293	Zambia	0.8669
Denmark	0.6721	Latvia	0.8641	Russia	0.5283	Zimbabwe	0.8851

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.6560	Min	0.0000	Std. Deviation	0.1935	5 Percentile	0.2669
Missing	0	Median	0.6987	Max	1.0000			95 Percentile	0.9038



**Indicator:** **Threatened plants****Primary indicator:** Ecological Sustainability (ECOS)**Secondary indicator:** Biodiversity**Tertiary indicator:** Pressure**Explanation:** Includes all plants that are critically endangered, endangered, or vulnerable, but excludes introduced species, species whose status is insufficiently known, those known to be extinct, and those for which a status has not been assessed. IUCN has established detailed quantitative definitions for the previous categories.**Sources:** United Nations Environment Programme (<http://geodata.grid.unep.ch>)**Period:** 1990-2011**Units:** percentage of all plant species**Most recent data**

Albania	0.0000	Ecuador	1.0175	Lebanon	0.0000	Rwanda	0.1311
Algeria	0.0632	Egypt	0.0963	Lithuania	0.0000	Saudi Arabia	0.1479
Angola	0.3664	El Salvador	0.7901	Macedonia, FYR	0.0000	Senegal	0.3356
Argentina	0.4481	Estonia	0.0000	Madagascar	1.7044	Sierra Leone	2.0574
Armenia	0.0281	Ethiopia	0.3332	Malawi	0.3453	Slovakia	0.0640
Australia	0.2430	Finland	0.0907	Malaysia	4.3935	Slovenia	0.0000
Austria	0.0968	France	0.0432	Mali	0.3446	South Africa	0.1921
Azerbaijan	0.0000	Gabon	1.0675	Mauritania	0.0000	South Korea	0.0000
Bangladesh	0.2400	Gambia	0.3080	Mexico	0.8477	Spain	0.2772
Belarus	0.0000	Georgia	0.0000*	Moldova	0.0000	Sri Lanka	8.4490
Belgium	0.0000	Germany	0.4474	Mongolia	0.0000	Sudan	0.5419
Benin	0.4400	Ghana	3.0872	Morocco	0.0544	Sweden	0.1714
Bolivia	0.4031	Greece	0.0401	Mozambique	0.6325	Switzerland	0.0660
Botswana	0.0000	Guatemala	0.8870	Namibia	0.1575	Syria	0.0000
Brazil	0.6778	Guinea	0.7000	Nepal	0.0860	Tajikistan	0.0400
Bulgaria	0.0000	Guinea Bis.	0.4000	Netherlands	0.0000	Tanzania	2.3481
Burkina Faso	0.1818	Honduras	1.9014	New Zealand	0.8816	Thailand	0.6710
Burundi	0.0800	Hungary	0.0452	Nicaragua	0.8497	Togo	0.2917
C. African R.	0.2776	India	1.3073	Niger	0.1370	Tunisia	0.0000
Cambodia	0.0000*	Indonesia	1.3072	Nigeria	2.5239	Turkey	0.0347
Cameroon	1.8765	Iran	0.0125	Norway	0.1166	UAE	0.0000*
Canada	0.0306	Ireland	0.1053	Oman	0.4983	Uganda	0.6735
Chad	0.1250	Israel	0.0000	Pakistan	0.0404	UK	0.8010
Chile	0.7570	Italy	0.0536	Panama	1.9365	Ukraine	0.0196
China	0.5217	Japan	0.1977	Papua N.G.	1.2301	Uruguay	0.0439
Colombia	0.4159	Jordan	0.0000	Paraguay	0.1274	USA	0.8679
Congo	0.5500	Kazakhstan	0.0167	Peru	1.5691	Uzbekistan	0.0208
Cote d'Ivoire	2.7596	Kenya	1.5063	Philippines	2.1610	Venezuela	0.3179
Croatia	0.0000	Kuwait	0.0000	Poland	0.1633	Vietnam	1.2000
Czech Rep.	0.2105	Kyrgyzstan	0.0222	Portugal	0.2970	Yemen	3.1515
D.R. Congo	0.4997	Laos	0.2172	Romania	0.0294	Zambia	0.1685
Denmark	0.2069	Latvia	0.0000	Russia	0.0614	Zimbabwe	0.3153

\* denotes estimated values

**Descriptive Statistics - based on most recent data**

Available	128	Mean	0.5632	Min	0.0000	Std. Deviation	1.0394	5 Percentile	0.0000
Missing	0	Median	0.1870	Max	8.4490			95 Percentile	2.2826

## Normalization

Type *SB (smaller is better)* Parameters *T=0.0000* *U=8.4490*  
 Comments *T=minimum possible* *U=max*

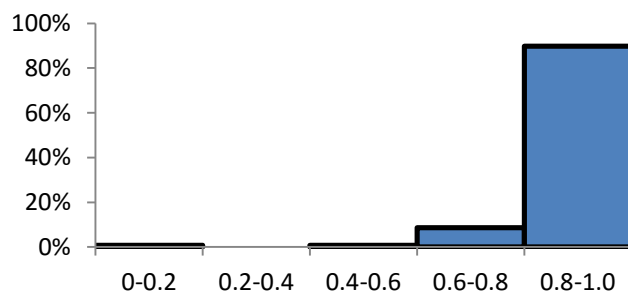
## Smoothed data

Albania	1.0000	Ecuador	0.8796	Lebanon	1.0000	Rwanda	0.9845
Algeria	0.9925	Egypt	0.9886	Lithuania	1.0000	Saudi Arabia	0.9825
Angola	0.9566	El Salvador	0.9065	Macedonia, FYR	1.0000	Senegal	0.9603
Argentina	0.9470	Estonia	1.0000	Madagascar	0.7983	Sierra Leone	0.7565
Armenia	0.9967	Ethiopia	0.9606	Malawi	0.9591	Slovakia	0.9924
Australia	0.9712	Finland	0.9893	Malaysia	0.4800	Slovenia	1.0000
Austria	0.9885	France	0.9949	Mali	0.9592	South Africa	0.9773
Azerbaijan	1.0000	Gabon	0.8737	Mauritania	1.0000	South Korea	1.0000
Bangladesh	0.9716	Gambia	0.9635	Mexico	0.8997	Spain	0.9672
Belarus	1.0000	Georgia	1.0000*	Moldova	1.0000	Sri Lanka	0.0000
Belgium	1.0000	Germany	0.9470	Mongolia	1.0000	Sudan	0.9359
Benin	0.9479	Ghana	0.6346	Morocco	0.9936	Sweden	0.9797
Bolivia	0.9523	Greece	0.9953	Mozambique	0.9251	Switzerland	0.9922
Botswana	1.0000	Guatemala	0.8950	Namibia	0.9814	Syria	1.0000
Brazil	0.9198	Guinea	0.9171	Nepal	0.9898	Tajikistan	0.9953
Bulgaria	1.0000	Guinea Bis.	0.9527	Netherlands	1.0000	Tanzania	0.7221
Burkina Faso	0.9785	Honduras	0.7750	New Zealand	0.8957	Thailand	0.9206
Burundi	0.9905	Hungary	0.9947	Nicaragua	0.8994	Togo	0.9655
C. African R.	0.9671	India	0.8453	Niger	0.9838	Tunisia	1.0000
Cambodia	1.0000*	Indonesia	0.8453	Nigeria	0.7013	Turkey	0.9959
Cameroon	0.7779	Iran	0.9985	Norway	0.9862	UAE	1.0000*
Canada	0.9964	Ireland	0.9875	Oman	0.9410	Uganda	0.9203
Chad	0.9852	Israel	1.0000	Pakistan	0.9952	UK	0.9052
Chile	0.9104	Italy	0.9937	Panama	0.7708	Ukraine	0.9977
China	0.9382	Japan	0.9766	Papua N.G.	0.8544	Uruguay	0.9948
Colombia	0.9508	Jordan	1.0000	Paraguay	0.9849	USA	0.8973
Congo	0.9349	Kazakhstan	0.9980	Peru	0.8143	Uzbekistan	0.9975
Cote d'Ivoire	0.6734	Kenya	0.8217	Philippines	0.7442	Venezuela	0.9624
Croatia	1.0000	Kuwait	1.0000	Poland	0.9807	Vietnam	0.8580
Czech Rep.	0.9751	Kyrgyzstan	0.9974	Portugal	0.9648	Yemen	0.6270
D.R. Congo	0.9409	Laos	0.9743	Romania	0.9965	Zambia	0.9801
Denmark	0.9755	Latvia	1.0000	Russia	0.9927	Zimbabwe	0.9627

\* denotes estimated values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.9333	Min	0.0000	Std. Deviation	0.1230	5 Percentile	0.7298
Missing	0	Median	0.9779	Max	1.0000			95 Percentile	1.0000



## Indicator: Threatened reptiles

**Primary indicator:** Ecological Sustainability (ECOS)

**Secondary indicator:** Biodiversity

**Tertiary indicator:** Pressure

**Explanation:** Includes all reptiles that are critically endangered, endangered, or vulnerable, but excludes introduced species, species whose status is insufficiently known, those known to be extinct, and those for which a status has not been assessed. IUCN has established detailed quantitative definitions for the previous categories.

**Sources:** United Nations Environment Programme (<http://geodata.grid.unep.ch>)

**Period:** 1990-2011

**Units:** percentage of all reptile species

### Most recent data

Albania	10.8108	Ecuador	2.4096	Lebanon	2.2727	Rwanda	0.0000
Algeria	2.0619	Egypt	5.5556	Lithuania	0.0000	Saudi Arabia	2.0202
Angola	1.7621	El Salvador	3.7736	Macedonia, FYR	6.8966	Senegal	6.5934
Argentina	1.5015	Estonia	0.0000	Madagascar	4.7244	Sierra Leone	4.4776
Armenia	9.4340	Ethiopia	0.4808	Malawi	0.0000	Slovakia	7.1429
Australia	4.3379	Finland	0.0000	Malaysia	5.5409	Slovenia	0.0000
Austria	0.0000	France	6.5217	Mali	0.9434	South Africa	5.2198
Azerbaijan	8.1967	Gabon	0.7692	Mauritania	2.7778	South Korea	0.0000
Bangladesh	17.8571	Gambia	2.0000	Mexico	2.1505	Spain	10.4478
Belarus	0.0000	Georgia	11.4754	Moldova	6.6667	Sri Lanka	4.4199
Belgium	0.0000	Germany	0.0000	Mongolia	0.0000	Sudan	1.2422
Benin	1.0309	Ghana	1.5267	Morocco	1.9417	Sweden	0.0000
Bolivia	0.7782	Greece	9.5238	Mozambique	2.5641	Switzerland	0.0000
Botswana	0.0000	Guatemala	3.3755	Namibia	1.3953	Syria	3.7037
Brazil	3.3951	Guinea	1.0638	Nepal	4.2017	Tajikistan	1.9608
Bulgaria	6.0606	Guinea Bis.	2.1739	Netherlands	0.0000	Tanzania	1.4925
Burkina Faso	2.2727	Honduras	2.8169	New Zealand	20.7547	Thailand	5.3254
Burundi	0.0000	Hungary	5.5556	Nicaragua	3.9106	Togo	1.8692
C. African R.	0.7634	India	4.7985	Niger	0.0000	Tunisia	4.2857
Cambodia	8.7719	Indonesia	3.7584	Nigeria	1.2987	Turkey	9.0226
Cameroon	0.4762	Iran	3.6530	Norway	0.0000	UAE	2.7778
Canada	5.1282	Ireland	0.0000	Oman	6.2500	Uganda	0.0000
Chad	1.9231	Israel	4.0404	Pakistan	4.7619	UK	0.0000
Chile	0.0000	Italy	7.2727	Panama	2.8926	Ukraine	8.0000
China	7.3113	Japan	11.9565	Papua N.G.	2.6706	Uruguay	4.3478
Colombia	2.7079	Jordan	1.2346	Paraguay	1.4706	USA	7.5000
Congo	0.6711	Kazakhstan	3.9216	Peru	1.7291	Uzbekistan	3.6364
Cote d'Ivoire	1.6000	Kenya	1.9157	Philippines	2.9412	Venezuela	4.0373
Croatia	2.9412	Kuwait	4.7619	Poland	0.0000	Vietnam	8.5409
Czech Rep.	0.0000	Kyrgyzstan	6.6667	Portugal	0.0000	Yemen	1.9802
D.R. Congo	0.6579	Laos	8.4507	Romania	9.0909	Zambia	0.0000
Denmark	0.0000	Latvia	0.0000	Russia	6.3830	Zimbabwe	0.0000

### Descriptive Statistics - based on most recent data

Available	128	Mean	3.4389	Min	0.0000	Std. Deviation	3.6365	5 Percentile	0.0000
Missing	0	Median	2.3412	Max	20.7547			95 Percentile	9.4924

## Normalization

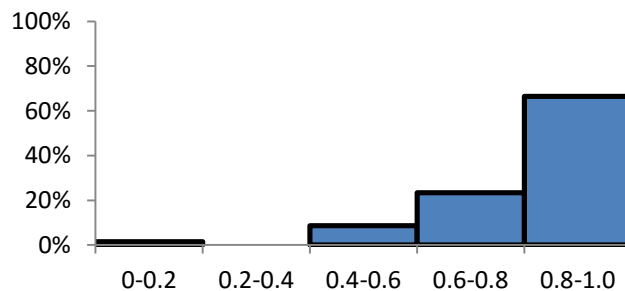
Type *SB (smaller is better)* Parameters *T=0.0000* *U=20.7547*  
 Comments *T=minimum possible* *U=max*

## Smoothed data

Albania	0.4791	Ecuador	0.8839	Lebanon	0.8905	Rwanda	1.0000
Algeria	0.9007	Egypt	0.7323	Lithuania	1.0000	Saudi Arabia	0.9027
Angola	0.9151	El Salvador	0.8182	Macedonia, FYR	0.6677	Senegal	0.6823
Argentina	0.9277	Estonia	1.0000	Madagascar	0.7724	Sierra Leone	0.7843
Armenia	0.5455	Ethiopia	0.9768	Malawi	1.0000	Slovakia	0.6558
Australia	0.7910	Finland	1.0000	Malaysia	0.7330	Slovenia	1.0000
Austria	1.0000	France	0.6858	Mali	0.9545	South Africa	0.7485
Azerbaijan	0.6051	Gabon	0.9629	Mauritania	0.8662	South Korea	1.0000
Bangladesh	0.1396	Gambia	0.9036	Mexico	0.8964	Spain	0.4966
Belarus	1.0000	Georgia	0.4471	Moldova	0.6788	Sri Lanka	0.7870
Belgium	1.0000	Germany	1.0000	Mongolia	1.0000	Sudan	0.9401
Benin	0.9503	Ghana	0.9264	Morocco	0.9064	Sweden	1.0000
Bolivia	0.9625	Greece	0.5411	Mozambique	0.8765	Switzerland	1.0000
Botswana	1.0000	Guatemala	0.8374	Namibia	0.9328	Syria	0.8215
Brazil	0.8364	Guinea	0.9487	Nepal	0.7976	Tajikistan	0.9055
Bulgaria	0.7080	Guinea Bis.	0.8953	Netherlands	1.0000	Tanzania	0.9281
Burkina Faso	0.8905	Honduras	0.8643	New Zealand	0.0000	Thailand	0.7434
Burundi	1.0000	Hungary	0.7323	Nicaragua	0.8116	Togo	0.9099
C. African R.	0.9632	India	0.7688	Niger	1.0000	Tunisia	0.7935
Cambodia	0.5774	Indonesia	0.8189	Nigeria	0.9374	Turkey	0.5653
Cameroon	0.9771	Iran	0.8240	Norway	1.0000	UAE	0.8662
Canada	0.7529	Ireland	1.0000	Oman	0.6989	Uganda	1.0000
Chad	0.9073	Israel	0.8053	Pakistan	0.7706	UK	1.0000
Chile	1.0000	Italy	0.6496	Panama	0.8606	Ukraine	0.6145
China	0.6477	Japan	0.4239	Papua N.G.	0.8713	Uruguay	0.7905
Colombia	0.8695	Jordan	0.9405	Paraguay	0.9291	USA	0.6386
Congo	0.9677	Kazakhstan	0.8111	Peru	0.9167	Uzbekistan	0.8248
Cote d'Ivoire	0.9229	Kenya	0.9077	Philippines	0.8583	Venezuela	0.8055
Croatia	0.8583	Kuwait	0.7706	Poland	1.0000	Vietnam	0.5885
Czech Rep.	1.0000	Kyrgyzstan	0.6788	Portugal	1.0000	Yemen	0.9046
D.R. Congo	0.9683	Laos	0.5928	Romania	0.5620	Zambia	1.0000
Denmark	1.0000	Latvia	1.0000	Russia	0.6925	Zimbabwe	1.0000

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8343	Min	0.0000	Std. Deviation	0.1752	5 Percentile	0.5426
Missing	0	Median	0.8872	Max	1.0000			95 Percentile	1.0000



**Indicator: Tuberculosis prevalence****Primary indicator:** Human Sustainability (HUMS)**Secondary indicator:** Health**Tertiary indicator:** Pressure**Explanation:** Incidence of tuberculosis is the estimated number of new pulmonary, smear positive, and extra-pulmonary tuberculosis cases. Incidence includes patients with HIV.**Sources:** World Bank (<http://data.worldbank.org/indicator/SH.TBS.INCD?page=3>)**Period:** 1990-2011**Units:** incidences per 100,000 population**Most recent data**

Albania	13.0000	Ecuador	62.0000	Lebanon	15.0000	Rwanda	94.0000
Algeria	90.0000	Egypt	17.0000	Lithuania	59.0000	Saudi Arabia	17.0000
Angola	310.0000	El Salvador	27.0000	Macedonia, FYR	20.0000	Senegal	136.0000
Argentina	26.0000	Estonia	25.0000	Madagascar	238.0000	Sierra Leone	723.0000
Armenia	55.0000	Ethiopia	258.0000	Malawi	191.0000	Slovakia	7.2000
Australia	6.0000	Finland	7.5000	Malaysia	81.0000	Slovenia	9.3000
Austria	3.7000	France	4.3000	Mali	62.0000	South Africa	993.0000
Azerbaijan	113.0000	Gabon	450.0000	Mauritania	344.0000	South Korea	100.0000
Bangladesh	225.0000	Gambia	279.0000	Mexico	23.0000	Spain	15.0000
Belarus	70.0000	Georgia	125.0000	Moldova	161.0000	Sri Lanka	66.0000
Belgium	8.1000	Germany	4.5000	Mongolia	223.0000	Sudan	117.0000
Benin	70.0000	Ghana	79.0000	Morocco	103.0000	Sweden	6.8000
Bolivia	131.0000	Greece	3.8000	Mozambique	548.0000	Switzerland	4.8000
Botswana	455.0000	Guatemala	61.0000	Namibia	723.0000	Syria	19.0000
Brazil	42.0000	Guinea	183.0000	Nepal	163.0000	Tajikistan	193.0000
Bulgaria	35.0000	Guinea Bis.	238.0000	Netherlands	6.8000	Tanzania	169.0000
Burkina Faso	57.0000	Honduras	43.0000	New Zealand	7.6000	Thailand	124.0000
Burundi	139.0000	Hungary	18.0000	Nicaragua	40.0000	Togo	73.0000
C. African R.	400.0000	India	181.0000	Niger	108.0000	Tunisia	30.0000
Cambodia	424.0000	Indonesia	187.0000	Nigeria	118.0000	Turkey	24.0000
Cameroon	243.0000	Iran	21.0000	Norway	6.1000	UAE	3.7000
Canada	4.5000	Ireland	7.5000	Oman	14.0000	Uganda	193.0000
Chad	151.0000	Israel	5.8000	Pakistan	231.0000	UK	14.0000
Chile	18.0000	Italy	2.8000	Panama	48.0000	Ukraine	89.0000
China	75.0000	Japan	20.0000	Papua N.G.	346.0000	Uruguay	21.0000
Colombia	34.0000	Jordan	6.0000	Paraguay	45.0000	USA	3.9000
Congo	387.0000	Kazakhstan	129.0000	Peru	101.0000	Uzbekistan	101.0000
Cote d'Ivoire	191.0000	Kenya	288.0000	Philippines	270.0000	Venezuela	33.0000
Croatia	17.0000	Kuwait	36.0000	Poland	23.0000	Vietnam	199.0000
Czech Rep.	6.0000	Kyrgyzstan	128.0000	Portugal	24.0000	Yemen	44.0000
D.R. Congo	327.0000	Laos	213.0000	Romania	101.0000	Zambia	444.0000
Denmark	6.5000	Latvia	42.0000	Russia	97.0000	Zimbabwe	603.0000

**Descriptive Statistics - based on most recent data**

Available	128	Mean	128.8688	Min	2.8000	Std. Deviation	166.3633	5 Percentile	4.5000
Missing	0	Median	68.0000	Max	993.0000			95 Percentile	447.9000

## Normalization

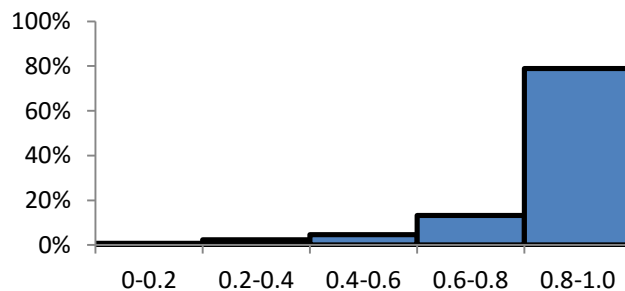
Type *SB (smaller is better)* Parameters *T=0.0000* *U=993.0000*  
 Comments *T=minimum possible* *U=max*

## Smoothed data

Albania	0.9869	Ecuador	0.9376	Lebanon	0.9849	Rwanda	0.9053
Algeria	0.9095	Egypt	0.9829	Lithuania	0.9406	Saudi Arabia	0.9829
Angola	0.6878	El Salvador	0.9728	Macedonia, FYR	0.9799	Senegal	0.8630
Argentina	0.9738	Estonia	0.9748	Madagascar	0.7603	Sierra Leone	0.2719
Armenia	0.9446	Ethiopia	0.7402	Malawi	0.8077	Slovakia	0.9927
Australia	0.9940	Finland	0.9924	Malaysia	0.9184	Slovenia	0.9906
Austria	0.9963	France	0.9957	Mali	0.9376	South Africa	0.0000
Azerbaijan	0.8862	Gabon	0.5468	Mauritania	0.6536	South Korea	0.8993
Bangladesh	0.7734	Gambia	0.7190	Mexico	0.9768	Spain	0.9849
Belarus	0.9295	Georgia	0.8741	Moldova	0.8379	Sri Lanka	0.9335
Belgium	0.9918	Germany	0.9955	Mongolia	0.7754	Sudan	0.8822
Benin	0.9295	Ghana	0.9204	Morocco	0.8963	Sweden	0.9932
Bolivia	0.8681	Greece	0.9962	Mozambique	0.4481	Switzerland	0.9952
Botswana	0.5418	Guatemala	0.9386	Namibia	0.2719	Syria	0.9809
Brazil	0.9577	Guinea	0.8148	Nepal	0.8359	Tajikistan	0.8056
Bulgaria	0.9648	Guinea Bis.	0.7603	Netherlands	0.9932	Tanzania	0.8298
Burkina Faso	0.9426	Honduras	0.9567	New Zealand	0.9923	Thailand	0.8751
Burundi	0.8600	Hungary	0.9819	Nicaragua	0.9597	Togo	0.9265
C. African R.	0.5972	India	0.8177	Niger	0.8912	Tunisia	0.9698
Cambodia	0.5730	Indonesia	0.8117	Nigeria	0.8812	Turkey	0.9758
Cameroon	0.7553	Iran	0.9789	Norway	0.9939	UAE	0.9963
Canada	0.9955	Ireland	0.9924	Oman	0.9859	Uganda	0.8056
Chad	0.8479	Israel	0.9942	Pakistan	0.7674	UK	0.9863
Chile	0.9819	Italy	0.9972	Panama	0.9517	Ukraine	0.9104
China	0.9245	Japan	0.9799	Papua N.G.	0.6513	Uruguay	0.9789
Colombia	0.9658	Jordan	0.9940	Paraguay	0.9547	USA	0.9961
Congo	0.6103	Kazakhstan	0.8701	Peru	0.8983	Uzbekistan	0.8983
Cote d'Ivoire	0.8077	Kenya	0.7100	Philippines	0.7281	Venezuela	0.9668
Croatia	0.9829	Kuwait	0.9637	Poland	0.9768	Vietnam	0.7996
Czech Rep.	0.9940	Kyrgyzstan	0.8711	Portugal	0.9758	Yemen	0.9557
D.R. Congo	0.6707	Laos	0.7855	Romania	0.8983	Zambia	0.5529
Denmark	0.9935	Latvia	0.9577	Russia	0.9023	Zimbabwe	0.3927

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8702	Min	0.0000	Std. Deviation	0.1675	5 Percentile	0.5489
Missing	0	Median	0.9315	Max	0.9972			95 Percentile	0.9955





## Indicator: Unemployment

**Primary indicator:** Human Sustainability (HUMS)

**Secondary indicator:** Wealth

**Tertiary indicator:** Pressure

**Explanation:** Unemployment refers to the share of the labor force that is without work but available for and seeking employment. Definitions of labor force and unemployment differ by country.

**Sources:** World Bank (<http://data.worldbank.org/indicator/SL.UEM.TOTL.ZS>)

**Period:** 1990-2011

**Units:** percent of total labor force

### Most recent data

Albania	13.8000	Ecuador	4.2000	Lebanon	9.0000	Rwanda	2.4000
Algeria	10.0000	Egypt	9.0000	Lithuania	15.4000	Saudi Arabia	5.4000
Angola	-	El Salvador	7.0000	Macedonia, FYR	31.4000	Senegal	10.0000
Argentina	7.2000	Estonia	12.5000	Madagascar	2.6000	Sierra Leone	3.4000
Armenia	28.6000	Ethiopia	17.0000	Malawi	7.8000	Slovakia	13.5000
Australia	5.1000	Finland	7.7000	Malaysia	3.4000	Slovenia	8.2000
Austria	4.1000	France	9.3000	Mali	8.8000	South Africa	24.7000
Azerbaijan	5.4000	Gabon	17.8000	Mauritania	31.2000	South Korea	3.4000
Bangladesh	5.0000	Gambia	-	Mexico	5.3000	Spain	21.6000
Belarus	-	Georgia	15.1000	Moldova	6.7000	Sri Lanka	4.9000
Belgium	7.1000	Germany	5.9000	Mongolia	3.3000	Sudan	-
Benin	0.7000	Ghana	3.6000	Morocco	8.9000	Sweden	7.5000
Bolivia	3.4000	Greece	17.7000	Mozambique	2.2000	Switzerland	4.1000
Botswana	17.6000	Guatemala	4.1000	Namibia	37.6000	Syria	8.4000
Brazil	8.3000	Guinea	3.1000	Nepal	2.7000	Tajikistan	-
Bulgaria	11.2000	Guinea Bis.	-	Netherlands	4.4000	Tanzania	4.3000
Burkina Faso	3.3000	Honduras	4.8000	New Zealand	6.5000	Thailand	0.7000
Burundi	0.5000	Hungary	10.9000	Nicaragua	8.0000	Togo	-
C. African R.	-	India	3.5000	Niger	1.5000	Tunisia	13.0000
Cambodia	0.2000	Indonesia	6.6000	Nigeria	-	Turkey	9.8000
Cameroon	3.8000	Iran	10.5000	Norway	3.3000	UAE	4.0000
Canada	7.4000	Ireland	14.4000	Oman	-	Uganda	4.2000
Chad	0.7000	Israel	5.6000	Pakistan	5.0000	UK	7.8000
Chile	7.1000	Italy	8.4000	Panama	4.5000	Ukraine	7.9000
China	4.1000	Japan	4.5000	Papua N.G.	4.0000	Uruguay	6.0000
Colombia	11.6000	Jordan	12.9000	Paraguay	5.6000	USA	8.9000
Congo	-	Kazakhstan	5.4000	Peru	7.8000	Uzbekistan	-
Cote d'Ivoire	4.1000	Kenya	9.8000	Philippines	7.0000	Venezuela	8.3000
Croatia	13.4000	Kuwait	2.0000	Poland	9.6000	Vietnam	2.0000
Czech Rep.	6.7000	Kyrgyzstan	8.2000	Portugal	12.7000	Yemen	14.6000
D.R. Congo	-	Laos	1.4000	Romania	7.4000	Zambia	15.9000
Denmark	7.6000	Latvia	15.4000	Russia	6.6000	Zimbabwe	4.2000

### Descriptive Statistics - based on most recent data

Available	115	Mean	8.3096	Min	0.2000	Std. Deviation	6.5264	5 Percentile	1.4700
Missing	13	Median	7.0000	Max	37.6000			95 Percentile	18.9400

## Normalization

Type	NB (nominal is better)	Parameters	$u=0.7000$	$\tau=4.0000$	$T=7.0000$	$U=12.0000$
		Comments	$u=\min$ (excluding outliers)	$r$ (set by experts) 3.5%	$T$ (set by experts)	$U$ (set by experts)

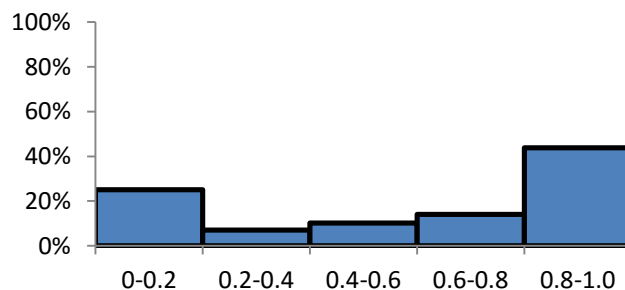
## Smoothed data

Albania	0.0000	Ecuador	0.9849	Lebanon	0.7067	Rwanda	0.5152
Algeria	0.4000	Egypt	0.6000	Lithuania	0.0000	Saudi Arabia	1.0000
Angola	1.0000**	El Salvador	0.9841	Macedonia, FYR	0.0000	Senegal	0.4000
Argentina	0.9600	Estonia	0.0000	Madagascar	0.7577	Sierra Leone	0.8182
Armenia	0.0000	Ethiopia	0.4448	Malawi	0.8400	Slovakia	0.0442
Australia	1.0000	Finland	0.8531	Malaysia	0.8327	Slovenia	0.7600
Austria	0.9995	France	0.5400	Mali	0.6400	South Africa	0.0000
Azerbaijan	1.0000	Gabon	0.0000	Mauritania	0.0000	South Korea	0.8182
Bangladesh	1.0000	Gambia	0.5297**	Mexico	1.0000	Spain	0.0000
Belarus	0.1600**	Georgia	0.0010	Moldova	1.0000	Sri Lanka	1.0000
Belgium	0.9800	Germany	1.0000	Mongolia	0.8332	Sudan	0.4000**
Benin	0.0000	Ghana	0.6388	Morocco	0.6152	Sweden	0.9000
Bolivia	0.8055	Greece	0.0000	Mozambique	0.4545	Switzerland	1.0000
Botswana	0.0000	Guatemala	0.9264	Namibia	0.0000	Syria	0.5907
Brazil	0.7515	Guinea	0.7273	Nepal	0.6207	Tajikistan	1.0000**
Bulgaria	0.1600	Guinea Bis.	0.6836**	Netherlands	1.0000	Tanzania	1.0000
Burkina Faso	0.6010	Honduras	0.8973	New Zealand	1.0000	Thailand	0.0278
Burundi	0.0000	Hungary	0.2200	Nicaragua	0.8580	Togo	0.5000**
C. African R.	0.2424**	India	0.8485	Niger	0.2424	Tunisia	0.0000
Cambodia	0.0000	Indonesia	1.0000	Nigeria	0.6388**	Turkey	0.4400
Cameroon	0.8572	Iran	0.2400	Norway	0.7879	UAE	1.0000
Canada	0.9200	Ireland	0.0000	Oman	1.0000**	Uganda	0.7344
Chad	0.0000	Israel	1.0000	Pakistan	1.0000	UK	0.8400
Chile	0.8925	Italy	0.7200	Panama	1.0000	Ukraine	0.8200
China	1.0000	Japan	1.0000	Papua N.G.	1.0000	Uruguay	1.0000
Colombia	0.0800	Jordan	0.0000	Paraguay	0.9323	USA	0.6200
Congo	0.0000**	Kazakhstan	1.0000	Peru	0.8400	Uzbekistan	0.0005**
Cote d'Ivoire	1.0000	Kenya	0.4400	Philippines	0.9909	Venezuela	0.7400
Croatia	0.0000	Kuwait	0.3939	Poland	0.4800	Vietnam	0.4876
Czech Rep.	1.0000	Kyrgyzstan	0.7433	Portugal	0.0000	Yemen	0.0000
D.R. Congo	0.4876**	Laos	0.2121	Romania	0.9461	Zambia	0.0000
Denmark	0.8900	Latvia	0.0000	Russia	1.0000	Zimbabwe	1.0000

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.5882	Min	0.0000	Std. Deviation	0.3894	5 Percentile	0.0000
Missing	0	Median	0.7236	Max	1.0000			95 Percentile	1.0000



## Indicator: Unemployment gender equality

**Primary indicator:** Human Sustainability (HUMS)

**Secondary indicator:** Wealth

**Tertiary indicator:** Pressure

**Explanation:** This variable shows the absolute difference between unemployment rate for female and male labor force.

**Sources:** World Bank (<http://data.worldbank.org/indicator/SL.UEM.TOTL.FE.ZS>); <http://data.worldbank.org/indicator/SL.UEM.TOTL.MA.ZS>)

**Period:** 1990-2011

**Units:** percent

### Most recent data

Albania	3.7000	Ecuador	2.3000	Lebanon	1.5000	Rwanda	0.0000
Algeria	11.0000	Egypt	17.7000	Lithuania	4.8000	Saudi Arabia	12.4000
Angola	-	El Salvador	3.3000	Macedonia, FYR	1.0000	Senegal	5.7000
Argentina	2.3000	Estonia	1.3000	Madagascar	1.8000	Sierra Leone	2.2000
Armenia	13.1000	Ethiopia	10.9000	Malawi	4.6000	Slovakia	0.0000
Australia	0.4000	Finland	1.2000	Malaysia	0.3000	Slovenia	0.0000
Austria	0.3000	France	0.9000	Mali	3.7000	South Africa	5.4000
Azerbaijan	1.9000	Gabon	3.0000	Mauritania	20.1000	South Korea	0.5000
Bangladesh	3.2000	Gambia	-	Mexico	0.1000	Spain	1.0000
Belarus	-	Georgia	3.6000	Moldova	2.1000	Sri Lanka	4.2000
Belgium	0.1000	Germany	0.6000	Mongolia	0.6000	Sudan	-
Benin	0.5000	Ghana	0.1000	Morocco	1.8000	Sweden	0.1000
Bolivia	1.8000	Greece	6.5000	Mozambique	2.1000	Switzerland	0.8000
Botswana	4.6000	Guatemala	3.7000	Namibia	10.5000	Syria	16.8000
Brazil	4.9000	Guinea	2.9000	Nepal	0.7000	Tajikistan	-
Bulgaria	2.3000	Guinea Bis.	-	Netherlands	0.1000	Tanzania	3.0000
Burkina Faso	1.2000	Honduras	1.3000	New Zealand	0.5000	Thailand	0.1000
Burundi	0.4000	Hungary	0.1000	Nicaragua	1.4000	Togo	-
C. African R.	-	India	1.0000	Niger	0.8000	Tunisia	3.9000
Cambodia	0.2000	Indonesia	1.7000	Nigeria	-	Turkey	2.1000
Cameroon	1.4000	Iran	7.7000	Norway	0.3000	UAE	10.0000
Canada	0.8000	Ireland	6.8000	Oman	-	Uganda	2.0000
Chad	0.8000	Israel	0.0000	Pakistan	4.7000	UK	1.3000
Chile	2.6000	Italy	2.0000	Panama	0.7000	Ukraine	2.0000
China	0.0000*	Japan	0.7000	Papua N.G.	5.2000	Uruguay	3.2000
Colombia	5.9000	Jordan	10.2000	Paraguay	3.0000	USA	0.9000
Congo	-	Kazakhstan	1.6000	Peru	4.3000	Uzbekistan	-
Cote d'Ivoire	0.0000*	Kenya	-	Philippines	0.7091	Venezuela	1.6000
Croatia	0.5000	Kuwait	0.2000	Poland	1.4000	Vietnam	0.7000
Czech Rep.	2.1000	Kyrgyzstan	2.1000	Portugal	0.7000	Yemen	29.4000
D.R. Congo	-	Laos	0.1000	Romania	1.1000	Zambia	2.8000
Denmark	0.2000	Latvia	4.5000	Russia	0.8000	Zimbabwe	0.1000

\* denotes estimated values

### Descriptive Statistics - based on most recent data

Available	114	Mean	3.1387	Min	0.0000	Std. Deviation	4.5279	5 Percentile	0.0650
Missing	14	Median	1.6500	Max	29.4000			95 Percentile	11.4900

## Normalization

Type *SB (smaller is better)*

Parameters

$T=0.0000$

$U=6.5000$

Comments

$T$ =minimum possible

$U$ =maximum of EU-14 (excluding 7.5% outliers)

## Smoothed data

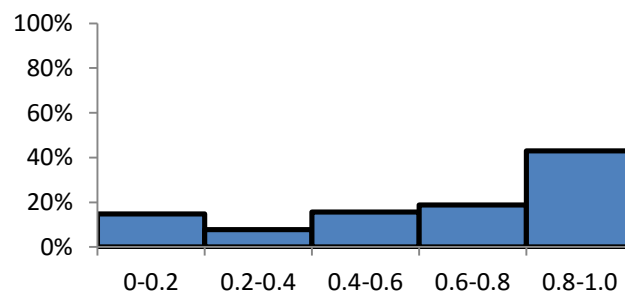
Albania	0.5989	Ecuador	0.5805	Lebanon	0.7692	Rwanda	0.9860
Algeria	0.0000	Egypt	0.0000	Lithuania	0.2307	Saudi Arabia	0.0000
Angola	0.4205**	El Salvador	0.4041	Macedonia, FYR	0.8706	Senegal	0.1231
Argentina	0.6340	Estonia	0.5954	Madagascar	0.7272	Sierra Leone	0.6615
Armenia	0.0000	Ethiopia	0.0465	Malawi	0.2923	Slovakia	1.0000
Australia	0.9418	Finland	0.8154	Malaysia	0.9547	Slovenia	1.0000
Austria	0.9140	France	0.8626	Mali	0.4308	South Africa	0.0915
Azerbaijan	0.6886	Gabon	0.5385	Mauritania	0.0000	South Korea	0.9200
Bangladesh	0.5075	Gambia	0.5938**	Mexico	0.9829	Spain	0.8462
Belarus	0.6462**	Georgia	0.6433	Moldova	0.5932	Sri Lanka	0.3538
Belgium	0.9823	Germany	0.9077	Mongolia	0.9077	Sudan	0.0000**
Benin	0.9231	Ghana	0.9846	Morocco	0.7377	Sweden	0.9846
Bolivia	0.7231	Greece	0.0000	Mozambique	0.6769	Switzerland	0.8476
Botswana	0.2942	Guatemala	0.5241	Namibia	0.0028	Syria	0.0593
Brazil	0.2462	Guinea	0.5538	Nepal	0.7795	Tajikistan	0.2785**
Bulgaria	0.6462	Guinea Bis.	0.4923**	Netherlands	0.9846	Tanzania	0.6974
Burkina Faso	0.8154	Honduras	0.8000	New Zealand	0.9231	Thailand	0.9795
Burundi	0.9385	Hungary	0.9780	Nicaragua	0.8146	Togo	0.5000**
C. African R.	0.8769**	India	0.8579	Niger	0.8769	Tunisia	0.4000
Cambodia	0.9743	Indonesia	0.7385	Nigeria	0.9846**	Turkey	0.8124
Cameroon	0.7846	Iran	0.0352	Norway	0.9538	UAE	0.0000
Canada	0.8631	Ireland	0.0000	Oman	0.0000**	Uganda	0.8154
Chad	0.8769	Israel	1.0000	Pakistan	0.2785	UK	0.8000
Chile	0.6083	Italy	0.6923	Panama	0.8923	Ukraine	0.7006
China	1.0000*	Japan	0.8896	Papua N.G.	0.4205	Uruguay	0.5077
Colombia	0.0817	Jordan	0.0001	Paraguay	0.5630	USA	0.8615
Congo	0.5385**	Kazakhstan	0.7538	Peru	0.4028	Uzbekistan	0.3216**
Cote d'Ivoire	1.0000*	Kenya	0.5004**	Philippines	0.8910	Venezuela	0.7538
Croatia	0.8999	Kuwait	0.9692	Poland	0.8158	Vietnam	0.9215
Czech Rep.	0.6769	Kyrgyzstan	0.7057	Portugal	0.8109	Yemen	0.0129
D.R. Congo	0.9215**	Laos	0.9846	Romania	0.7721	Zambia	0.6694
Denmark	0.8694	Latvia	0.2634	Russia	0.8636	Zimbabwe	0.9846

\* denotes estimated values

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.6305	Min	0.0000	Std. Deviation	0.3234	5 Percentile	0.0000
Missing	0	Median	0.7252	Max	1.0000			95 Percentile	0.9846



**Indicator: Urban NO2 concentration****Primary indicator:** Ecological Sustainability (ECOS)**Secondary indicator:** Air**Tertiary indicator:** State**Explanation:** Atmospheric concentrations of NO2 originally collected at the city level. The number of cities with data provided by each country varies. Within each country the values have been normalized by city population for the year 1995, and then summed to give the total concentration for the given country. High concentrations decrease air sustainability.**Sources:** Esty et al. (2005); Environmental Sustainability Index 2001, 2002 (www.yale.edu/esi)**Period:** 1990-2011**Units:** µg/m3 of air**Most recent data**

Albania	14.7400	Ecuador	47.7400	Lebanon	25.8100	Rwanda	17.6800
Algeria	43.7000	Egypt	63.8700	Lithuania	22.0000	Saudi Arabia	31.0100
Angola	46.9600	El Salvador	70.5000	Macedonia, FYR	25.8200	Senegal	26.0200
Argentina	56.7900	Estonia	22.6700	Madagascar	22.8100	Sierra Leone	29.9400
Armenia	1.5800	Ethiopia	36.8400	Malawi	27.3300	Slovakia	37.4400
Australia	16.4700	Finland	24.0000	Malaysia	39.5300	Slovenia	32.4700
Austria	33.0200	France	51.0000	Mali	24.1700	South Africa	44.0300
Azerbaijan	19.8100	Gabon	42.4300	Mauritania	33.1800	South Korea	53.4100
Bangladesh	28.6700	Gambia	25.4700	Mexico	56.0200	Spain	67.3000
Belarus	42.6000	Georgia	28.0600	Moldova	0.0100	Sri Lanka	29.1100
Belgium	41.0000	Germany	34.7200	Mongolia	25.8200	Sudan	42.2600
Benin	26.5600	Ghana	30.0300	Morocco	47.1100	Sweden	18.2000
Bolivia	42.5100	Greece	58.8000	Mozambique	23.5900	Switzerland	38.5700
Botswana	32.8000	Guatemala	69.3300	Namibia	31.8800	Syria	43.7400
Brazil	51.3700	Guinea	33.9700	Nepal	23.7800	Tajikistan	26.5000
Bulgaria	9.3500	Guinea Bis.	29.8300	Netherlands	58.0000	Tanzania	33.4700
Burkina Faso	34.7700	Honduras	29.5000	New Zealand	22.5000	Thailand	23.0000
Burundi	31.8600	Hungary	45.8500	Nicaragua	32.0000	Togo	35.8900
C. African R.	29.7300	India	29.6800	Niger	38.1200	Tunisia	38.0800
Cambodia	28.3000	Indonesia	40.7200	Nigeria	26.5900	Turkey	9.4500
Cameroon	45.4100	Iran	53.8100	Norway	38.0000	UAE	0.0000
Canada	34.7300	Ireland	70.0000	Oman	44.3200	Uganda	28.6600
Chad	36.4500	Israel	35.5500	Pakistan	45.0200	UK	54.8700
Chile	81.0000	Italy	72.0100	Panama	42.0000	Ukraine	0.0400
China	71.7200	Japan	55.0000	Papua N.G.	31.4600	Uruguay	35.2400
Colombia	52.2100	Jordan	47.4000	Paraguay	46.1800	USA	60.5700
Congo	44.1700	Kazakhstan	28.6200	Peru	56.2900	Uzbekistan	35.8800
Cote d'Ivoire	37.5600	Kenya	42.6200	Philippines	36.0200	Venezuela	57.0000
Croatia	26.1000	Kuwait	19.9200	Poland	38.7200	Vietnam	31.1500
Czech Rep.	31.5300	Kyrgyzstan	24.7200	Portugal	49.6900	Yemen	41.3200
D.R. Congo	42.1100	Laos	29.5900	Romania	16.6300	Zambia	26.3500
Denmark	47.0000	Latvia	22.9900	Russia	109.1600	Zimbabwe	38.5500

**Descriptive Statistics - based on most recent data**

Available	128	Mean	37.0827	Min	0.0000	Std. Deviation	16.5517	5 Percentile	15.3455
Missing	0	Median	35.0050	Max	109.1600			95 Percentile	68.6195

## Normalization

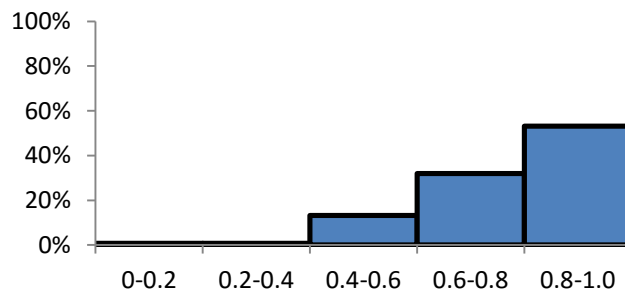
Type SB (smaller is better) Parameters T=18.2000 U=109.1600  
 Comments T=minimum of EU-14, U=max

## Smoothed data

Albania	1.0000	Ecuador	0.6752	Lebanon	0.9163	Rwanda	1.0000
Algeria	0.7197	Egypt	0.4979	Lithuania	0.9582	Saudi Arabia	0.8592
Angola	0.6838	El Salvador	0.4250	Macedonia, FYR	0.9162	Senegal	0.9140
Argentina	0.5757	Estonia	0.9509	Madagascar	0.9493	Sierra Leone	0.8709
Armenia	1.0000	Ethiopia	0.7951	Malawi	0.8996	Slovakia	0.7885
Australia	1.0000	Finland	0.9330	Malaysia	0.7655	Slovenia	0.8431
Austria	0.8371	France	0.6394	Mali	0.9344	South Africa	0.7160
Azerbaijan	0.9823	Gabon	0.7336	Mauritania	0.8353	South Korea	0.6129
Bangladesh	0.8849	Gambia	0.9201	Mexico	0.5842	Spain	0.4602
Belarus	0.7318	Georgia	0.8916	Moldova	1.0000	Sri Lanka	0.8801
Belgium	0.7493	Germany	0.8184	Mongolia	0.9162	Sudan	0.7355
Benin	0.9081	Ghana	0.8699	Morocco	0.6822	Sweden	0.9579
Bolivia	0.7327	Greece	0.5536	Mozambique	0.9407	Switzerland	0.7761
Botswana	0.8395	Guatemala	0.4379	Namibia	0.8496	Syria	0.7192
Brazil	0.6353	Guinea	0.8266	Nepal	0.9387	Tajikistan	0.9088
Bulgaria	0.5297	Guinea Bis.	0.8721	Netherlands	0.5624	Tanzania	0.8321
Burkina Faso	0.8178	Honduras	0.8758	New Zealand	0.9527	Thailand	0.9472
Burundi	0.8498	Hungary	0.6960	Nicaragua	0.8483	Togo	0.8055
C. African R.	0.8732	India	0.8738	Niger	0.7810	Tunisia	0.7814
Cambodia	0.8890	Indonesia	0.7524	Nigeria	0.9078	Turkey	1.0000
Cameroon	0.7009	Iran	0.6085	Norway	0.7824	UAE	1.0000
Canada	0.8183	Ireland	0.4305	Oman	0.7128	Uganda	0.8850
Chad	0.7994	Israel	0.8093	Pakistan	0.7051	UK	0.5969
Chile	0.3096	Italy	0.4084	Panama	0.7383	Ukraine	1.0000
China	0.4116	Japan	0.5954	Papua N.G.	0.8542	Uruguay	0.8127
Colombia	0.6261	Jordan	0.6790	Paraguay	0.6924	USA	0.5342
Congo	0.7145	Kazakhstan	0.8854	Peru	0.5812	Uzbekistan	0.8056
Cote d'Ivoire	0.7872	Kenya	0.7315	Philippines	0.8041	Venezuela	0.5734
Croatia	0.9131	Kuwait	0.9811	Poland	0.7741	Vietnam	0.8576
Czech Rep.	0.8535	Kyrgyzstan	0.9283	Portugal	0.6538	Yemen	0.7458
D.R. Congo	0.7371	Laos	0.8748	Romania	1.0000	Zambia	0.9104
Denmark	0.6834	Latvia	0.9473	Russia	0.0000	Zimbabwe	0.7763

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.7801	Min	0.0000	Std. Deviation	0.1680	5 Percentile	0.4457
Missing	0	Median	0.8110	Max	1.0000			95 Percentile	1.0000



**Indicator: Urban SO2 concentration****Primary indicator:** Ecological Sustainability (ECOS)**Secondary indicator:** Air**Tertiary indicator:** State**Explanation:** Atmospheric concentrations of SO2 originally collected at the city level. The number of cities with data provided by each country varies. Within each country the values have been normalized by city population for the year 1995, and then summed to give the total concentration for the given country. High concentrations decrease air sustainability.**Sources:** Esty et al. (2005); Environmental Sustainability Index 2001, 2002 (www.yale.edu/esi)**Period:** 1990-2011**Units:** µg/m3 of air**Most recent data**

Albania	2.2800	Ecuador	21.5200	Lebanon	1.6500	Rwanda	9.3300
Algeria	11.5000	Egypt	69.0000	Lithuania	6.0000	Saudi Arabia	3.2300
Angola	7.3700	El Salvador	4.2300	Macedonia, FYR	24.2300	Senegal	1.2100
Argentina	1.0200	Estonia	2.0000	Madagascar	24.6500	Sierra Leone	6.6700
Armenia	0.4300	Ethiopia	7.4800	Malawi	3.7800	Slovakia	13.4000
Australia	13.1700	Finland	3.0000	Malaysia	20.4900	Slovenia	8.7100
Austria	8.3100	France	8.0000	Mali	8.6000	South Africa	22.3700
Azerbaijan	0.2500	Gabon	5.7900	Mauritania	2.6600	South Korea	23.8400
Bangladesh	6.0800	Gambia	1.4900	Mexico	46.6000	Spain	7.8200
Belarus	0.0100	Georgia	1.2500	Moldova	0.0000	Sri Lanka	6.9100
Belgium	9.7000	Germany	5.0200	Mongolia	0.5600	Sudan	5.9100
Benin	26.6200	Ghana	12.9800	Morocco	12.6400	Sweden	3.0000
Bolivia	19.2500	Greece	13.1600	Mozambique	2.9000	Switzerland	6.2500
Botswana	1.8300	Guatemala	35.3900	Namibia	19.8400	Syria	4.8400
Brazil	75.7800	Guinea	9.2900	Nepal	9.3700	Tajikistan	0.2300
Bulgaria	17.7900	Guinea Bis.	0.9300	Netherlands	5.1500	Tanzania	17.4300
Burkina Faso	12.0000	Honduras	18.5600	New Zealand	15.0000	Thailand	11.0000
Burundi	10.9100	Hungary	9.0000	Nicaragua	2.7700	Togo	2.4700
C. African R.	5.6000	India	27.5500	Niger	3.2200	Tunisia	3.9100
Cambodia	5.5000	Indonesia	39.3300	Nigeria	10.2500	Turkey	64.4700
Cameroon	9.3800	Iran	209.0000	Norway	4.0000	UAE	0.0100
Canada	9.3200	Ireland	6.6900	Oman	2.0200	Uganda	22.4900
Chad	5.6500	Israel	16.8200	Pakistan	6.3700	UK	4.6400
Chile	29.0000	Italy	1.3300	Panama	4.3800	Ukraine	0.0600
China	97.0700	Japan	19.0000	Papua N.G.	8.6300	Uruguay	4.9700
Colombia	59.1300	Jordan	2.8800	Paraguay	1.6500	USA	15.4300
Congo	8.8900	Kazakhstan	0.0400	Peru	76.8200	Uzbekistan	1.5700
Cote d'Ivoire	11.3400	Kenya	16.6400	Philippines	33.0000	Venezuela	33.0000
Croatia	31.0000	Kuwait	0.3100	Poland	20.5600	Vietnam	4.6500
Czech Rep.	9.3100	Kyrgyzstan	0.3100	Portugal	6.7700	Yemen	8.8500
D.R. Congo	1.0500	Laos	19.8400	Romania	6.5800	Zambia	19.5200
Denmark	4.0000	Latvia	6.3300	Russia	3.0000	Zimbabwe	5.3500

**Descriptive Statistics - based on most recent data**

Available	128	Mean	14.3936	Min	0.0000	Std. Deviation	23.9724	5 Percentile	0.2710
Missing	0	Median	7.4250	Max	209.0000			95 Percentile	54.7445



## Normalization

Type *SB (smaller is better)*

Parameters

$T=1.3300$

$U=97.0700$

Comments

$T=\text{minimum of EU-14}$

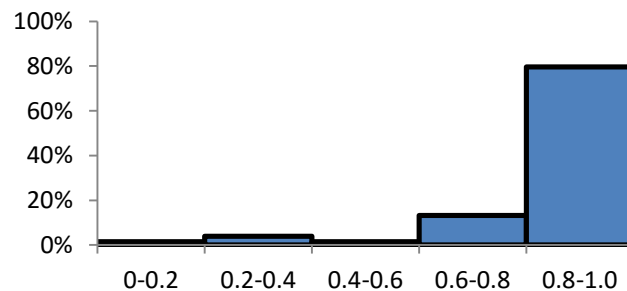
$U=\text{max (excluding 1% outliers)}$

## Smoothed data

Albania	0.9901	Ecuador	0.7891	Lebanon	0.9967	Rwanda	0.9164
Algeria	0.8938	Egypt	0.2932	Lithuania	0.9512	Saudi Arabia	0.9802
Angola	0.9369	El Salvador	0.9697	Macedonia, FYR	0.7608	Senegal	1.0000
Argentina	1.0000	Estonia	0.9930	Madagascar	0.7564	Sierra Leone	0.9442
Armenia	1.0000	Ethiopia	0.9358	Malawi	0.9744	Slovakia	0.8739
Australia	0.8763	Finland	0.9826	Malaysia	0.7999	Slovenia	0.9229
Austria	0.9236	France	0.9135	Mali	0.9241	South Africa	0.7802
Azerbaijan	1.0000	Gabon	0.9534	Mauritania	0.9861	South Korea	0.7223
Bangladesh	0.9504	Gambia	0.9983	Mexico	0.5272	Spain	0.9292
Belarus	1.0000	Georgia	1.0000	Moldova	1.0000	Sri Lanka	0.9417
Belgium	0.8825	Germany	0.9370	Mongolia	1.0000	Sudan	0.9522
Benin	0.7358	Ghana	0.8783	Morocco	0.8819	Sweden	0.9762
Bolivia	0.8128	Greece	0.8764	Mozambique	0.9836	Switzerland	0.9329
Botswana	0.9948	Guatemala	0.6442	Namibia	0.8067	Syria	0.9633
Brazil	0.2224	Guinea	0.9169	Nepal	0.9160	Tajikistan	1.0000
Bulgaria	0.6780	Guinea Bis.	1.0000	Netherlands	0.9601	Tanzania	0.8318
Burkina Faso	0.8886	Honduras	0.8200	New Zealand	0.8572	Thailand	0.8990
Burundi	0.8999	Hungary	0.8093	Nicaragua	0.9850	Togo	0.9881
C. African R.	0.9554	India	0.7261	Niger	0.9803	Tunisia	0.9731
Cambodia	0.9564	Indonesia	0.6031	Nigeria	0.9068	Turkey	0.3405
Cameroon	0.9159	Iran	0.0000	Norway	0.9721	UAE	1.0000
Canada	0.9165	Ireland	0.8919	Oman	0.9928	Uganda	0.7790
Chad	0.9549	Israel	0.8382	Pakistan	0.9474	UK	0.9022
Chile	0.7110	Italy	1.0000	Panama	0.9681	Ukraine	1.0000
China	0.0000	Japan	0.8154	Papua N.G.	0.9238	Uruguay	0.9620
Colombia	0.3963	Jordan	0.9838	Paraguay	0.9967	USA	0.8527
Congo	0.9210	Kazakhstan	1.0000	Peru	0.2115	Uzbekistan	0.9975
Cote d'Ivoire	0.8954	Kenya	0.8401	Philippines	0.6692	Venezuela	0.6692
Croatia	0.6901	Kuwait	1.0000	Poland	0.6883	Vietnam	0.9653
Czech Rep.	0.8546	Kyrgyzstan	1.0000	Portugal	0.9422	Yemen	0.9215
D.R. Congo	1.0000	Laos	0.8067	Romania	0.9452	Zambia	0.8100
Denmark	0.9721	Latvia	0.9478	Russia	0.4957	Zimbabwe	0.9580

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8624	Min	0.0000	Std. Deviation	0.1923	5 Percentile	0.4311
Missing	0	Median	0.9239	Max	1.0000			95 Percentile	1.0000



**Indicator: Urban TSP concentration****Primary indicator:** Ecological Sustainability (ECOS)**Secondary indicator:** Air**Tertiary indicator:** State**Explanation:** Atmospheric concentrations of TSP originally collected at the city level. The number of cities with data provided by each country varies. Within each country the values have been normalized by city population for the year 1995, and then summed to give the total concentration for the given country. High concentrations decrease air sustainability.**Sources:** Esty et al. (2005); Environmental Sustainability Index 2001, 2002 (www.yale.edu/esi)**Period:** 1990-2011**Units:** µg/m3 of air**Most recent data**

Albania	167.4200	Ecuador	125.7300	Lebanon	89.4800	Rwanda	150.9000
Algeria	116.8500	Egypt	74.1800	Lithuania	31.9000	Saudi Arabia	72.3900
Angola	163.8500	El Salvador	163.7700	Macedonia, FYR	86.2500	Senegal	167.6000
Argentina	50.0100	Estonia	33.7300	Madagascar	215.7000	Sierra Leone	136.8000
Armenia	1.0200	Ethiopia	195.1400	Malawi	178.5000	Slovakia	49.2100
Australia	43.2200	Finland	18.9200	Malaysia	91.5800	Slovenia	36.0400
Austria	31.6300	France	24.0000	Mali	150.0000	South Africa	111.9000
Azerbaijan	105.3600	Gabon	121.6000	Mauritania	106.0000	South Korea	66.0500
Bangladesh	163.8400	Gambia	141.4100	Mexico	52.5500	Spain	33.5100
Belarus	18.4000	Georgia	142.0600	Moldova	1.0800	Sri Lanka	170.4000
Belgium	42.6200	Germany	31.9500	Mongolia	51.2700	Sudan	175.4000
Benin	165.5800	Ghana	137.0000	Morocco	148.4000	Sweden	54.6700
Bolivia	60.5700	Greece	58.7900	Mozambique	201.3000	Switzerland	27.7700
Botswana	62.7500	Guatemala	272.3300	Namibia	91.9900	Syria	124.8000
Brazil	106.2000	Guinea	195.1900	Nepal	228.2000	Tajikistan	65.0700
Bulgaria	61.3000	Guinea Bis.	119.2300	Netherlands	38.6500	Tanzania	183.9000
Burkina Faso	159.6200	Honduras	320.0000	New Zealand	25.0000	Thailand	223.0000
Burundi	160.8300	Hungary	40.7000	Nicaragua	206.2000	Togo	106.7000
C. African R.	122.6400	India	277.4500	Niger	126.6000	Tunisia	93.4300
Cambodia	154.7200	Indonesia	271.0000	Nigeria	207.9000	Turkey	11.3500
Cameroon	165.6100	Iran	248.0000	Norway	24.2000	UAE	126.4700
Canada	11.4100	Ireland	24.7500	Oman	56.8700	Uganda	187.1000
Chad	101.3600	Israel	67.4400	Pakistan	135.8000	UK	19.4900
Chile	100.8700	Italy	104.5000	Panama	109.9000	Ukraine	0.1500
China	310.8200	Japan	40.0000	Papua N.G.	194.7000	Uruguay	76.3400
Colombia	120.0000	Jordan	77.1400	Paraguay	57.6900	USA	27.5000
Congo	77.7200	Kazakhstan	0.5000	Peru	139.6000	Uzbekistan	64.7100
Cote d'Ivoire	160.6600	Kenya	69.0000	Philippines	200.0000	Venezuela	53.0000
Croatia	71.0000	Kuwait	106.6000	Poland	40.8500	Vietnam	182.8000
Czech Rep.	42.3900	Kyrgyzstan	119.1200	Portugal	38.5700	Yemen	152.2000
D.R. Congo	200.3700	Laos	183.4400	Romania	82.0000	Zambia	147.0000
Denmark	32.1800	Latvia	63.8000	Russia	20.8400	Zimbabwe	144.6000

**Descriptive Statistics - based on most recent data**

Available	128	Mean	108.5399	Min	0.1500	Std. Deviation	71.4534	5 Percentile	18.5820
Missing	0	Median	104.9300	Max	320.0000			95 Percentile	226.3800

## Normalization

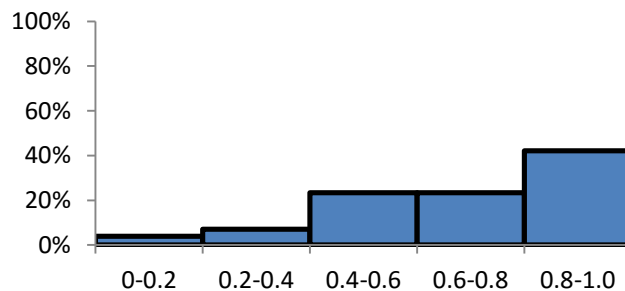
Type SB (smaller is better) Parameters T=18.9200 U=320.0000  
 Comments T=minimum of EU-14 U=max

## Smoothed data

Albania	0.5068	Ecuador	0.6452	Lebanon	0.7656	Rwanda	0.5616
Algeria	0.6747	Egypt	0.8165	Lithuania	0.9569	Saudi Arabia	0.8224
Angola	0.5186	El Salvador	0.5189	Macedonia, FYR	0.7764	Senegal	0.5062
Argentina	0.8967	Estonia	0.9508	Madagascar	0.3464	Sierra Leone	0.6085
Armenia	1.0000	Ethiopia	0.4147	Malawi	0.4700	Slovakia	0.8994
Australia	0.9193	Finland	0.9657	Malaysia	0.7587	Slovenia	0.9431
Austria	0.9563	France	0.9831	Mali	0.5646	South Africa	0.6912
Azerbaijan	0.7129	Gabon	0.6590	Mauritania	0.7108	South Korea	0.8435
Bangladesh	0.5187	Gambia	0.5932	Mexico	0.8883	Spain	0.9050
Belarus	1.0000	Georgia	0.5910	Moldova	1.0000	Sri Lanka	0.4969
Belgium	0.9006	Germany	0.9567	Mongolia	0.8926	Sudan	0.4803
Benin	0.5129	Ghana	0.6078	Morocco	0.5699	Sweden	0.8813
Bolivia	0.8617	Greece	0.8676	Mozambique	0.3942	Switzerland	0.9706
Botswana	0.8544	Guatemala	0.1583	Namibia	0.7573	Syria	0.6483
Brazil	0.7101	Guinea	0.4145	Nepal	0.3049	Tajikistan	0.8467
Bulgaria	0.6641	Guinea Bis.	0.6668	Netherlands	0.9345	Tanzania	0.4520
Burkina Faso	0.5327	Honduras	0.0000	New Zealand	0.9798	Thailand	0.3222
Burundi	0.5287	Hungary	0.9237	Nicaragua	0.3780	Togo	0.7084
C. African R.	0.6555	India	0.1413	Niger	0.6424	Tunisia	0.7525
Cambodia	0.5490	Indonesia	0.1627	Nigeria	0.3723	Turkey	1.0000
Cameroon	0.5128	Iran	0.2391	Norway	0.9825	UAE	0.6428
Canada	0.9863	Ireland	0.9806	Oman	0.8740	Uganda	0.4414
Chad	0.7262	Israel	0.8388	Pakistan	0.6118	UK	0.9981
Chile	0.7278	Italy	0.7158	Panama	0.6978	Ukraine	1.0000
China	0.0305	Japan	0.9300	Papua N.G.	0.4162	Uruguay	0.8093
Colombia	0.6643	Jordan	0.8066	Paraguay	0.8712	USA	0.9715
Congo	0.8047	Kazakhstan	1.0000	Peru	0.5992	Uzbekistan	0.8479
Cote d'Ivoire	0.5292	Kenya	0.8337	Philippines	0.3986	Venezuela	0.8868
Croatia	0.8270	Kuwait	0.7088	Poland	0.9272	Vietnam	0.4557
Czech Rep.	0.9221	Kyrgyzstan	0.6672	Portugal	0.9347	Yemen	0.5573
D.R. Congo	0.3973	Laos	0.4536	Romania	0.7905	Zambia	0.5746
Denmark	0.9560	Latvia	0.8509	Russia	0.8737	Zimbabwe	0.5826

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.6966	Min	0.0000	Std. Deviation	0.2317	5 Percentile	0.3109
Missing	0	Median	0.7118	Max	1.0000			95 Percentile	0.9940



**Indicator:** Water withdrawals**Primary indicator:** Ecological Sustainability (ECOS)**Secondary indicator:** Water**Tertiary indicator:** Pressure

**Explanation:** Annual freshwater withdrawals refer to total water withdrawals, not counting evaporation losses from storage basins. Withdrawals also include water from desalination plants in countries where they are a significant source. Withdrawals can exceed 100 percent of total renewable resources where extraction from nonrenewable aquifers or desalination plants is considerable or where there is significant water reuse. Withdrawals for agriculture and industry are total withdrawals for irrigation and livestock production and for direct industrial use (including withdrawals for cooling thermoelectric plants). Withdrawals for domestic uses include drinking water, municipal use or supply, and use for public services, commercial establishments, and homes.

**Sources:** World Bank (<http://data.worldbank.org/indicator/ER.H2O.FWTL.ZS>)**Period:** 1990-2011**Units:** percent of internal resources**Most recent data**

Albania	6.8327	Ecuador	3.5301	Lebanon	27.2917	Rwanda	1.5789
Algeria	54.7644	Egypt	3,794.4444	Lithuania	15.2828	Saudi Arabia	986.2500
Angola	0.4328	El Salvador	7.7521	Macedonia, FYR	19.0370	Senegal	8.6085
Argentina	11.8007	Estonia	14.1306	Madagascar	4.3561	Sierra Leone	0.3083
Armenia	41.2159	Ethiopia	4.5557	Malawi	6.0068	Slovakia	5.4603
Australia	4.5894	Finland	1.5271	Malaysia	2.2776	Slovenia	5.0455
Austria	6.6491	France	15.8100	Mali	10.9100	South Africa	27.9018
Azerbaijan	150.4621	Gabon	0.0793	Mauritania	400.2500	South Korea	39.2753
Bangladesh	34.1619	Gambia	2.3767	Mexico	19.5110	Spain	29.1906
Belarus	11.6613	Georgia	3.1189	Moldova	191.5000	Sri Lanka	24.5265
Belgium	51.8000	Germany	30.1869	Mongolia	1.2299	Sudan	123.8000
Benin	1.2621	Ghana	3.2409	Morocco	43.4828	Sweden	1.5298
Bolivia	0.6679	Greece	16.3293	Mozambique	0.7420	Switzerland	6.4703
Botswana	8.0833	Guatemala	2.6859	Namibia	4.8701	Syria	234.9972
Brazil	1.0718	Guinea	0.7168	Nepal	4.9379	Tajikistan	18.1059
Bulgaria	29.1381	Guinea Bis.	1.0938	Netherlands	96.4545	Tanzania	6.1714
Burkina Faso	7.8800	Honduras	1.2447	New Zealand	1.4535	Thailand	25.5278
Burundi	2.8628	Hungary	93.1667	Nicaragua	0.6790	Togo	1.4696
C. African R.	0.0474	India	52.6279	Niger	67.5429	Tunisia	67.9380
Cambodia	1.8109	Indonesia	5.6117	Nigeria	4.6652	Turkey	17.6652
Cameroon	0.3514	Iran	72.6070	Norway	0.7694	UAE	2,665.3333
Canada	1.6130	Ireland	1.6122	Oman	94.3571	Uganda	0.8138
Chad	2.4467	Israel	260.5333	Pakistan	333.6364	UK	8.9586
Chile	1.2828	Italy	24.8822	Panama	0.3064	Ukraine	72.4670
China	19.6978	Japan	20.9395	Papua N.G.	0.0490	Uruguay	6.2034
Colombia	0.5990	Jordan	137.9619	Paraguay	0.5213	USA	16.9766
Congo	0.0207	Kazakhstan	32.8516	Peru	1.1968	Uzbekistan	342.7173
Cote d'Ivoire	1.8337	Kenya	13.2126	Philippines	17.0271	Venezuela	1.2547
Croatia	1.6737	Kuwait	-	Poland	22.3134	Vietnam	22.8242
Czech Rep.	12.9202	Kyrgyzstan	20.6009	Portugal	22.2711	Yemen	169.7619
D.R. Congo	0.0691	Laos	2.2374	Romania	16.2553	Zambia	2.1696
Denmark	11.0000	Latvia	2.4671	Russia	1.5349	Zimbabwe	34.2985

**Descriptive Statistics - based on most recent data**

Available	127	Mean	90.8123	Min	0.0207	Std. Deviation	419.1738	5 Percentile	0.3212
Missing	1	Median	7.8800	Max	3,794.4444			95 Percentile	252.8725

## Normalization

Type *SB (smaller is better)* Parameters *T=22.7287* *U=90.8123*  
 Comments *T=average of EU-14* *U=average of all countries*

## Smoothed data

Albania	1.0000	Ecuador	1.0000	Lebanon	0.9249	Rwanda	1.0000
Algeria	0.5295	Egypt	0.0000	Lithuania	1.0000	Saudi Arabia	0.0000
Angola	1.0000	El Salvador	1.0000	Macedonia, FYR	1.0000	Senegal	1.0000
Argentina	1.0000	Estonia	1.0000	Madagascar	1.0000	Sierra Leone	1.0000
Armenia	0.7818	Ethiopia	1.0000	Malawi	1.0000	Slovakia	1.0000
Australia	1.0000	Finland	1.0000	Malaysia	1.0000	Slovenia	1.0000
Austria	1.0000	France	1.0000	Mali	1.0000	South Africa	0.9240
Azerbaijan	0.0000	Gabon	1.0000	Mauritania	0.0000	South Korea	0.7570
Bangladesh	0.8321	Gambia	1.0000	Mexico	1.0000	Spain	0.8968
Belarus	1.0000	Georgia	1.0000	Moldova	0.0000	Sri Lanka	0.9736
Belgium	0.5730	Germany	0.8905	Mongolia	1.0000	Sudan	0.0000
Benin	1.0000	Ghana	1.0000	Morocco	0.6952	Sweden	1.0000
Bolivia	1.0000	Greece	1.0000	Mozambique	1.0000	Switzerland	1.0000
Botswana	1.0000	Guatemala	1.0000	Namibia	1.0000	Syria	0.0000
Brazil	1.0000	Guinea	1.0000	Nepal	1.0000	Tajikistan	1.0000
Bulgaria	0.9040	Guinea Bis.	1.0000	Netherlands	0.0000	Tanzania	1.0000
Burkina Faso	1.0000	Honduras	1.0000	New Zealand	1.0000	Thailand	0.9589
Burundi	1.0000	Hungary	0.0000	Nicaragua	1.0000	Togo	1.0000
C. African R.	1.0000	India	0.5608	Niger	0.3418	Tunisia	0.3360
Cambodia	1.0000	Indonesia	1.0000	Nigeria	1.0000	Turkey	1.0000
Cameroon	1.0000	Iran	0.2674	Norway	1.0000	UAE	0.0000
Canada	1.0000	Ireland	1.0000	Oman	0.0000	Uganda	1.0000
Chad	1.0000	Israel	0.0000	Pakistan	0.0000	UK	1.0000
Chile	1.0000	Italy	0.9684	Panama	1.0000	Ukraine	0.2695
China	1.0000	Japan	1.0000	Papua N.G.	1.0000	Uruguay	1.0000
Colombia	1.0000	Jordan	0.0000	Paraguay	1.0000	USA	1.0000
Congo	1.0000	Kazakhstan	0.8525	Peru	1.0000	Uzbekistan	0.0000
Cote d'Ivoire	1.0000	Kenya	1.0000	Philippines	1.0000	Venezuela	1.0000
Croatia	1.0000	Kuwait	1.0000**	Poland	1.0000	Vietnam	0.9986
Czech Rep.	1.0000	Kyrgyzstan	1.0000	Portugal	1.0000	Yemen	0.0000
D.R. Congo	1.0000	Laos	1.0000	Romania	1.0000	Zambia	1.0000
Denmark	1.0000	Latvia	1.0000	Russia	1.0000	Zimbabwe	0.8301

\*\* denotes imputed values

## Descriptive Statistics - based on normalized data, including imputed values

Available	128	Mean	0.8286	Min	0.0000	Std. Deviation	0.3449	5 Percentile	0.0000
Missing	0	Median	1.0000	Max	1.0000			95 Percentile	1.0000

