

APPENDICES

Appendix 1: PCA Scores and Rankings

Country	PC1	HDI	HDI Rank	PC1 Rank	Rank Change
Norway	-5.38332	0.943	1	1	0
Australia	-5.13518	0.929	2	6	-4
Netherlands	-5.1229	0.91	3	7	-4
United States	-4.09448	0.91	4	22	-18
Canada	-4.98423	0.908	5	9	-4
Ireland	-4.7798	0.908	6	11	-5
New Zealand	-5.24633	0.908	7	4	3
Liechtenstein	-4.69334	0.905	8	14	-6
Germany	-4.91346	0.905	9	10	-1
Sweden	-5.24304	0.904	10	5	5
Switzerland	-5.10045	0.903	11	8	3
Japan	-4.23073	0.901	12	20	-8
Hong Kong, China (SAR)	-4.63938	0.898	13	16	-3
Iceland	-4.65562	0.898	14	15	-1
Korea (Republic of)	-3.50801	0.897	15	30	-15
Denmark	-5.33296	0.895	16	2	14
Israel	-3.07056	0.888	17	33	-16
Belgium	-4.35157	0.886	18	18	0
Austria	-4.71432	0.885	19	13	6
France	-4.28693	0.884	20	19	1
Slovenia	-3.72366	0.884	21	25	-4
Finland	-5.27675	0.882	22	3	19
Spain	-3.62217	0.878	23	27	-4
Italy	-2.93346	0.874	24	37	-13
Luxembourg	-4.75167	0.867	25	12	13
Singapore	-4.47088	0.866	26	17	9
Czech Republic	-3.55464	0.865	27	29	-2
United Kingdom	-4.21218	0.863	28	21	7
Greece	-2.68911	0.861	29	42	-13
United Arab Emirates	-2.32982	0.846	30	47	-17
Cyprus	-3.69629	0.84	31	26	5
Andorra	-3.94449	0.838	32	23	9

Country	PCI	HDI	HDI Rank	PCI Rank	Rank Change
Brunei Darussalam	-2.81203	0.838	33	40	-7
Estonia	-3.61404	0.835	34	28	6
Slovakia	-3.02785	0.834	35	35	0
Malta	-3.72853	0.832	36	24	12
Qatar	-2.68083	0.831	37	43	-6
Hungary	-2.92017	0.816	38	38	0
Poland	-2.97711	0.813	39	36	3
Lithuania	-2.85398	0.81	40	39	1
Portugal	-3.23567	0.809	41	32	9
Bahrain	-1.75231	0.806	42	57	-15
Latvia	-3.31705	0.805	43	31	12
Chile	-2.7071	0.805	44	41	3
Argentina	-0.74022	0.797	45	76	-31
Croatia	-2.16556	0.796	46	50	-4
Barbados	-3.03389	0.793	47	34	13
Uruguay	-2.5684	0.783	48	45	3
Palau	-1.67525	0.782	49	58	-9
Romania	-1.61574	0.781	50	59	-9
Cuba	-0.54605	0.776	51	81	-30
Seychelles	-1.23922	0.773	52	64	-12
Bahamas	-2.58731	0.771	53	44	9
Montenegro	-1.02684	0.771	53	44	9
Bulgaria	-1.41483	0.771	55	62	-7
Saudi Arabia	-0.56066	0.77	56	80	-24
Mexico	-0.4044	0.77	57	73	-16
Panama	-0.91169	0.768	58	69	-11
Serbia	-1.03628	0.766	59	66	-7
Antigua and Barbuda	-2.34505	0.764	60	46	14
Malaysia	-1.79877	0.761	61	55	6
Trinidad and Tobago	-1.47687	0.76	62	61	1
Kuwait	0.52291	0.76	63	107	-44
Libya	-1.01945	0.76	64	67	-3
Belarus	0.46844	0.756	65	106	-41
Russian Federation	0.14147	0.755	66	103	-37
Grenada	-1.80012	0.748	67	54	13
Kazakhstan	-0.1961	0.745	68	88	-20
Costa Rica	-1.76841	0.744	69	56	13
Albania	-0.7453	0.739	70	75	-5
Lebanon	-0.07043	0.739	71	96	-25

Country	PC1	HDI	HDI Rank	PC1 Rank	Rank Change
Saint Kitts and Nevis	-2.24442	0.735	72	48	24
Venezuela (Bolivarian Republic of)	1.59645	0.735	73	130	-57
Bosnia and Herzegovina	-0.44467	0.733	74	83	-9
Georgia	-0.85747	0.733	75	71	4
Ukraine	-0.09507	0.729	76	95	-19
Mauritius	-2.10491	0.728	77	53	24
The former Yugoslav Republic of Macedonia	-0.83602	0.728	78	72	6
Jamaica	-0.46928	0.727	79	82	-3
Peru	-0.26965	0.725	80	87	-7
Dominica	-2.242	0.724	81	49	32
Saint Lucia	-2.16117	0.723	82	51	31
Ecuador	0.90221	0.72	83	121	-38
Brazil	-0.78735	0.718	84	74	10
Saint Vincent and the Grenadines	-2.11627	0.717	85	52	33
Armenia	-0.32807	0.716	86	85	1
Colombia	-0.00478	0.71	87	99	-12
Iran (Islamic Republic of)	1.26487	0.707	88	127	-39
Oman	-1.3763	0.705	89	63	26
Tonga	-0.85783	0.704	90	70	20
Azerbaijan	0.82743	0.7	91	118	-27
Turkey	-0.1776	0.699	92	90	2
Belize	-0.5568	0.698	93	81	12
Tunisia	0.74208	0.698	94	114	-20
Jordan	-0.61714	0.698	95	78	17
Algeria	-0.63807	0.698	96	77	19
Sri Lanka	-0.16848	0.691	97	91	6
Dominican Republic	0.67864	0.689	98	111	-13
Samoa	0.55166	0.688	99	108	-9
Fiji	-1.09544	0.688	100	65	35
China	0.20182	0.687	101	105	-4
Turkmenistan	1.87693	0.686	102	136	-34
Thailand	-0.02341	0.682	103	98	5
Suriname	-0.16654	0.68	104	92	12
El Salvador	-0.00015	0.674	105	100	5
Gabon	1.29841	0.674	106	128	-22
Paraguay	0.92696	0.665	107	122	-15
Bolivia (Plurinational State of)	0.94512	0.663	108	123	-15
Maldives	-0.15675	0.661	109	93	16

Country	PCI	HDI	HDI Rank	PCI Rank	Rank Change
Mongolia	-0.06321	0.653	110	97	13
Moldova (Republic of)	0.19137	0.649	111	104	7
Philippines	0.71229	0.644	112	112	0
Egypt	0.75605	0.644	113	115	-2
Occupied Palestinian Territory	0.72631	0.641	114	113	1
Uzbekistan	1.76343	0.641	115	134	-19
Micronesia (Federated States of)	-0.18663	0.636	116	89	27
Guyana	-0.91626	0.633	117	68	49
Botswana	0.79212	0.633	118	116	2
Syrian Arab Republic	1.25984	0.632	119	126	-7
Namibia	1.22478	0.625	120	124	-4
Honduras	-0.1432	0.625	121	94	27
Kiribati	0.02025	0.624	122	101	21
South Africa	0.10717	0.619	123	102	21
Indonesia	0.89725	0.617	124	120	4
Vanuatu	-0.27401	0.617	125	86	39
Kyrgyzstan	1.23636	0.615	126	125	1
Tajikistan	1.80855	0.607	127	135	-8
Viet Nam	0.82166	0.593	128	117	11
Nicaragua	1.80104	0.589	129	131	-2
Morocco	0.60282	0.582	130	109	21
Guatemala	1.66974	0.574	131	133	-2
Iraq	3.03278	0.573	132	153	-21
Cape Verde	-0.38889	0.568	133	84	49
India	1.51213	0.547	134	129	5
Ghana	0.84508	0.541	135	119	16
Equatorial Guinea	4.04837	0.537	136	170	-34
Congo	3.72851	0.533	137	164	-27
Lao People's Democratic Republic	2.80993	0.524	138	148	-10
Cambodia	2.51311	0.523	139	141	-2
Swaziland	0.672	0.522	140	110	30
Bhutan	2.26225	0.522	141	139	2
Solomon Islands	1.65828	0.51	142	132	10
Kenya	2.73666	0.509	143	144	-1
Sao Tome and Principe	2.13103	0.509	144	137	7
Pakistan	3.04034	0.504	145	154	-9
Bangladesh	2.70646	0.5	146	143	3

Country	PCI	HDI	HDI Rank	PCI Rank	Rank Change
Timor-Leste	2.60725	0.495	147	142	5
Angola	4.59007	0.486	148	173	-25
Myanmar	3.94255	0.483	149	168	-19
Cameroon	3.97284	0.482	150	169	-19
Madagascar	2.85765	0.48	151	149	2
Tanzania (United Republic of)	2.73982	0.466	152	145	7
Papua New Guinea	3.12007	0.466	153	156	-3
Yemen	3.40003	0.462	154	158	-4
Senegal	4.74471	0.459	155	175	-20
Nigeria	2.78134	0.459	156	146	10
Nepal	3.07038	0.458	157	155	2
Haiti	3.52976	0.454	158	162	-4
Mauritania	3.70841	0.453	159	163	-4
Lesotho	2.17976	0.45	160	138	22
Uganda	3.40167	0.446	161	159	2
Togo	3.29175	0.435	162	157	5
Comoros	3.40972	0.433	163	161	2
Djibouti	2.78964	0.43	164	147	17
Zambia	3.40887	0.43	165	160	5
Rwanda	2.27268	0.429	166	140	26
Benin	2.86663	0.427	167	150	17
Gambia	2.93748	0.42	168	151	17
Sudan	5.25724	0.419	169	180	-11
Côte d'Ivoire	4.81155	0.41	170	176	-6
Malawi	3.42189	0.404	171	152	19
Afghanistan	6.95372	0.398	172	186	-14
Zimbabwe	4.97501	0.376	173	177	-4
Ethiopia	3.84976	0.363	174	167	7
Mali	4.70786	0.359	175	174	1
Guinea-Bissau	5.48843	0.353	176	182	-6
Eritrea	4.41564	0.349	177	171	6
Guinea	5.49376	0.344	178	183	-5
Central African Republic	5.81488	0.343	179	184	-5
Sierra Leone	5.24791	0.336	180	179	1
Burkina Faso	3.80127	0.331	181	166	15
Liberia	4.467	0.329	182	172	10
Chad	6.83057	0.328	183	185	-2
Mozambique	3.73436	0.322	184	165	19
Burundi	4.97973	0.316	185	178	7
Niger	5.43906	0.295	186	181	5
Congo (Democratic Republic of the)	6.97606	0.286	187	187	0

Appendix 2: Country Scores using FA and Rankings

Country	HDI	Factor Score	HDI Rank	factor Rank	Rank Change
Norway	0.943	1.7621	1	1	0
Australia	0.929	1.68216	2	2	0
Netherlands	0.91	1.67339	3	5	-2
United States	0.91	1.3352	4	24	-20
Canada	0.908	1.60781	5	9	-4
Ireland	0.908	1.59517	6	10	-4
New Zealand	0.908	1.62877	7	8	-1
Liechtenstein	0.905	1.58726	8	11	-3
Germany	0.905	1.56595	9	13	-4
Sweden	0.904	1.6812	10	3	7
Switzerland	0.903	1.64962	11	6	5
Japan	0.901	1.52691	12	15	-3
Hong Kong, China (SAR)	0.898	1.54543	13	14	-1
Iceland	0.898	1.56915	14	12	2
Korea (Republic of)	0.897	1.39993	15	22	-7
Denmark	0.895	1.67426	16	4	12
Israel	0.888	1.2872	17	29	-12
Belgium	0.886	1.46748	18	19	-1
Austria	0.885	1.52348	19	16	3
France	0.884	1.48878	20	17	3
Slovenia	0.884	1.41728	21	21	0
Finland	0.882	1.68007	22	7	15
Spain	0.878	1.36557	23	23	0
Italy	0.874	1.26694	24	30	-6
Luxembourg	0.867	1.47393	25	18	7
Singapore	0.866	1.42827	26	20	6
Czech Republic	0.865	1.33406	27	25	2
United Kingdom	0.863	1.33267	28	26	2
Greece	0.861	1.19026	29	33	-4
United Arab Emirates	0.846	0.93595	30	44	-14
Cyprus	0.84	1.30549	31	28	3
Andorra	0.838	1.31717	32	27	5
Brunei Darussalam	0.838	1.01546	33	40	-7
Estonia	0.835	1.24184	34	32	2
Slovakia	0.834	1.14092	35	35	0
Malta	0.832	1.25642	36	31	5
Qatar	0.831	0.97251	37	42	-5
Hungary	0.816	1.11213	38	37	1
Poland	0.813	1.12111	39	36	3

Country	HDI	Factor Score	HDI Rank	factor Rank	Rank Change
Lithuania	0.81	1.07282	40	38	2
Portugal	0.809	1.1586	41	34	7
Bahrain	0.806	0.82312	42	50	-8
Latvia	0.805	1.00359	43	41	2
Chile	0.805	1.04612	44	39	5
Argentina	0.797	0.53025	45	72	-27
Croatia	0.796	0.95733	46	43	3
Barbados	0.793	0.92677	47	45	2
Uruguay	0.783	0.82337	48	49	-1
Palau	0.782	0.85633	49	46	3
Romania	0.781	0.7715	50	53	-3
Cuba	0.776	0.62588	51	61	-10
Seychelles	0.773	0.57249	52	70	-18
Bahamas	0.771	0.84059	53	47	6
Montenegro	0.771	0.70133	54	58	-4
Bulgaria	0.771	0.78842	55	52	3
Saudi Arabia	0.77	0.36865	56	88	-32
Mexico	0.77	0.5841	57	68	-11
Panama	0.768	0.37156	58	87	-29
Serbia	0.766	0.71575	59	56	3
Antigua and Barbuda	0.764	0.72066	60	55	5
Malaysia	0.761	0.7927	61	51	10
Trinidad and Tobago	0.76	0.69427	62	59	3
Kuwait	0.76	0.42939	63	79	-16
Libya	0.758	0.0283	64	100	-14
Belarus	0.756	0.39127	65	84	-19
Russian Federation	0.755	0.38414	66	85	-19
Grenada	0.748	0.72732	67	54	13
Kazakhstan	0.745	0.38021	68	86	-18
Costa Rica	0.744	0.60401	69	65	4
Albania	0.739	0.61417	70	64	6
Lebanon	0.739	0.46432	71	75	-4
Saint Kitts and Nevis	0.735	0.70401	72	57	15
Venezuela (Bolivarian Republic of)	0.735	-0.09713	73	121	-48
Bosnia and Herzegovina	0.733	0.57631	74	69	5
Georgia	0.733	0.50347	75	73	2
Ukraine	0.729	0.4559	76	77	-1
Mauritius	0.728	0.68512	77	60	17
The former Yugoslav Republic of Macedonia	0.728	0.59756	78	66	12
Jamaica	0.727	0.24133	79	96	-17
Peru	0.725	0.29081	80	92	-12

Country	HDI	Factor Score	HDI Rank	factor Rank	Rank Change
Dominica	0.724	0.82729	81	48	33
Saint Lucia	0.723	0.61466	82	63	19
Ecuador	0.72	-0.02471	83	115	-32
Brazil	0.718	0.30256	84	91	-7
Saint Vincent and the Grenadines	0.717	0.62367	85	62	23
Armenia	0.716	0.42653	86	80	6
Colombia	0.71	0.15563	87	102	-15
Iran (Islamic Republic of)	0.707	0.0835	88	106	-18
Oman	0.705	0.59383	89	67	22
Tonga	0.704	0.56839	90	71	19
Azerbaijan	0.7	0.10746	91	103	-12
Turkey	0.699	0.19586	92	99	-7
Belize	0.699	0.36219	93	89	4
Tunisia	0.698	0.19491	94	100	-6
Jordan	0.698	0.42598	95	81	14
Algeria	0.698	0.50287	96	74	22
Sri Lanka	0.691	0.41245	97	82	15
Dominican Republic	0.689	-0.16778	98	123	-25
Samoa	0.688	0.22036	99	97	2
Fiji	0.688	0.45783	100	76	24
China	0.687	0.33051	101	90	11
Turkmenistan	0.686	-0.09226	102	120	-18
Thailand	0.682	0.26026	103	95	8
Suriname	0.68	0.21651	104	98	6
El Salvador	0.678	0.0095	105	117	-2
Gabon	0.674	-0.52011	106	133	-27
Paraguay	0.665	-0.05123	107	119	-12
Bolivia (Plurinational State of)	0.663	-0.22359	108	127	-19
Maldives	0.661	0.41213	109	83	26
Mongolia	0.653	0.29074	110	93	17
Moldova (Republic of)	0.649	0.26307	111	94	17
Philippines	0.644	0.02224	112	109	3
Egypt	0.644	-0.02485	113	116	-3
Occupied Palestinian Territory	0.641	-0.0226	114	114	0
Uzbekistan	0.641	-0.01053	115	111	4
Micronesia (Federated States of)	0.636	0.18879	116	101	15
Guyana	0.633	-0.03346	117	117	0
Botswana	0.633	-0.21565	118	126	-8
Syrian Arab Republic	0.632	-0.003	119	110	9
Namibia	0.625	-0.26975	120	128	-8
Honduras	0.625	-0.1668	121	122	-1
Kiribati	0.624	0.10283	122	104	18

Country	HDI	Factor Score	HDI Rank	factor Rank	Rank Change
South Africa	0.619	-0.39145	123	129	-6
Indonesia	0.617	-0.18175	124	124	0
Vanuatu	0.617	0.09999	125	105	20
Kyrgyzstan	0.615	-0.04563	126	118	8
Tajikistan	0.607	-0.19837	127	125	2
Viet Nam	0.593	0.04434	128	108	20
Nicaragua	0.589	-0.41297	129	130	-1
Morocco	0.582	-0.01199	130	113	17
Guatemala	0.574	-0.52863	131	134	-3
Iraq	0.573	-0.71626	132	137	-5
Cape Verde	0.568	-0.01066	133	112	21
India	0.547	-0.66716	134	136	-2
Ghana	0.541	-0.54909	135	135	0
Equatorial Guinea	0.537	-1.66465	136	165	-29
Congo	0.533	-1.6342	137	164	-27
Lao People's Democratic Republic	0.524	-0.93277	138	143	-5
Cambodia	0.523	-0.80747	139	138	1
Swaziland	0.522	-0.44329	140	131	9
Bhutan	0.522	-1.05499	141	148	-7
Solomon Islands	0.51	-0.45662	142	132	10
Kenya	0.509	-1.21433	143	156	-13
Sao Tome and Principe	0.509	-0.97878	144	145	-1
Pakistan	0.504	-0.88098	145	140	5
Bangladesh	0.5	-0.87864	146	139	7
Timor-Leste	0.495	-0.8898	147	141	6
Angola	0.486	-2.2341	148	178	-30
Myanmar	0.485	-0.90522	149	142	7
Cameroon	0.482	-1.90154	150	170	-20
Madagascar	0.48	-1.17217	151	152	-1
Tanzania (United Republic of)	0.466	-0.96269	152	144	8
Papua New Guinea	0.466	-1.72136	153	167	-14
Yemen	0.462	-1.04939	154	147	7
Senegal	0.459	-2.14208	155	176	-21
Nigeria	0.459	-1.31489	156	158	-2
Nepal	0.458	-1.08407	157	149	8
Haiti	0.454	-1.08509	158	150	8
Mauritania	0.453	-1.55363	159	162	-3
Lesotho	0.45	-1.19222	160	154	6
Uganda	0.446	-1.70543	161	166	-5
Togo	0.435	-1.20892	162	155	7
Comoros	0.433	-1.19054	163	153	10
Djibouti	0.43	-1.03023	164	146	18
Zambia	0.43	-1.8293	165	169	-4

Country	HDI	Factor Score	HDI Rank	factor Rank	Rank Change
Rwanda	0.429	-1.16515	166	151	15
Benin	0.427	-1.47112	167	160	7
Gambia	0.42	-1.30499	168	157	11
Sudan	0.408	-1.90827	169	171	-2
Côte d'Ivoire	0.4	-1.96951	170	172	-2
Malawi	0.4	-1.59194	171	163	8
Afghanistan	0.398	-3.16868	172	186	-14
Zimbabwe	0.376	-1.77324	173	168	5
Ethiopia	0.363	-1.53725	174	161	13
Mali	0.359	-2.67466	175	182	-7
Guinea-Bissau	0.353	-2.67311	176	181	-5
Eritrea	0.349	-1.33333	177	159	18
Guinea	0.344	-2.42417	178	179	-1
Central African Republic	0.343	-2.56324	179	180	-1
Sierra Leone	0.336	-2.75932	180	183	-3
Burkina Faso	0.331	-2.06917	181	173	8
Liberia	0.329	-2.18482	182	177	5
Chad	0.328	-3.31079	183	187	-4
Mozambique	0.322	-2.07334	184	174	10
Burundi	0.316	-2.10976	185	175	10
Niger	0.295	-2.83867	186	184	2
Congo (Democratic Republic of the)	0.286	-3.06462	187	185	2



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