HUMAN DEVELOPMENT DATA STORY

# **COVID-19 AND HUMAN DEVELOPMENT:**

Exploring global preparedness and vulnerability



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# Exploring global preparedness and vulnerability

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**COVID-19** crisis is more than a global health emergency; it is a systemic human development crisis, reflecting our interaction with the ecosystem we are part of, which is already affecting the economic and social dimensions of development in unprecedented ways.

Policies to reduce vulnerabilities and build capacities to tackle crises, both in the short and long term, are vital to enable individuals and societies to better weather and recover from these shocks. The two dashboards here look at how prepared countries are for a crisis like COVID-19 and how vulnerable they are.

#### Preparedness of countries to respond to COVID-19

Every society, group, and individual is vulnerable to adverse events. However, when it comes to shocks such as COVID-19 pandemic, our ability to respond is significantly lower and unequally distributed.

Data visualization and dashboard 1 below present a series of indicators for human development groups, regions and 189 countries that show the level of preparedness to respond and cope with the impacts of COVID-19 crisis, including a nation's level of human development, healthcare system capacity and internet access.

The level of human development and its inequality, together with healthcare system capacity, can portray countries' preparedness to respond effectively and efficiently to a health crisis. For example, a very high human development country has on average 55 hospital beds, over 30 physicians, and 81 nurses per 10,000 people, compared to 7 hospital beds, 2.5 physicians, and 6 nurses in a least developed country.

Widespread lockdowns around the world mean many people are having to rely on Internet access to work, continue with their education, and interact with others. The digital divide has become more significant than ever, as hundreds of millions of people around the globe still don't have access to reliable broadband internet.

### INTERACTIVE DATA VISUALIZATION (ACCESS ONLINE AT HTTP://HDR.UNDP.ORG): **EXPLORE PREPAREDNESS OF COUNTRIES TO RESPOND TO COVID-19**

Country

Health system capacity

Internet connectivity



## HUMAN DEVELOPMENT DASHBOARD 1: PREPAREDNESS OF COUNTRIES TO RESPOND TO COVID-19

## Level of preparedness:

High Medium Low

Note: For each indicator in the table, countries are divided into five groups of roughly equal sizes. The intention is not to suggest thresholds or target values for the indicators, but to allow a crude assessment of a country performance relative to others. For example, a country that is in the top quintile group in an indicator performs better than 80 percent countries in this indicator. Similarly, a country in the medium group performs better than 40 percent of countries but also worse than 40 percent of countries.

Data source: download at http://hdr.undp.org/sites/default/files/preparedness\_vulnerability\_dashboards\_12.xlsx

	Hun	nan Developmer	ıt		Health s	Connectivity			
Human Development Groups	Human development index (HDI) (value), 2018	Inequality- adjusted HDI (IHDI) (value), 2018	Inequality in HDI (percent), 2018	Physicians (per 10,000 people), 2010-17	Nurses and midwifes (per 10,000 people), 2010-18	Hospital beds (per 10,000 people), 2010-18	Current health expenditure (% of GDP), 2016	Mobile phone subscription (per 100 people), 2017- 18	Fixed broadband subscriptions (per 100 people), 2017- 18
Very high human development	0.892	0.796	10.8	30.4	81	55	12.0	127.8	30.5
High human development	0.750	0.615	17.9	16.5	30	32	5.7	113.6	18.8
Medium human development	0.634	0.507	20.0	7.3	17	9	3.9	91.9	2.4
Low human development	0.507	0.349	31.1	2.1	8	6	4.5	67.5	0.4

Regions	Human development index (HDI) (value), 2018	Inequality- adjusted HDI (IHDI) (value), 2018	Inequality in HDI (percent), 2018	Physicians (per 10,000 people), 2010-17	Nurses and midwifes (per 10,000 people), 2010-18	Hospital beds (per 10,000 people), 2010-18	Current health expenditure (% of GDP), 2016	Mobile phone subscription (per 100 people), 2017- 18	Fixed broadband subscriptions (per 100 people), 2017- 18
Developing countries	0.686	0.547	20.3	11.5	23	21	5.3	99.2	10.2
Arab States	0.703	0.531	24.5	11.1	21	15	4.9	100.3	7.4
East Asia and the Pacific	0.741	0.618	16.6	14.8	22	35	4.8	117.6	21.3
Europe and Central Asia	0.779	0.689	11.5	24.9	61	51	5.2	107.3	14.6
Latin America and the Caribbean	0.759	0.589	22.4	21.6	47	20	8.0	103.6	12.8
South Asia	0.642	0.520	19.0	7.8	17	8	4.1	87.7	2.2
Sub-Saharan Africa	0.541	0.376	30.5	2.1	10	8	5.3	76.9	0.4
Least developed countries	0.528	0.377	28.6	2.5	б	7	4.2	70.9	1.4
Small Island developing states	0.723	0.549	24.0	22.2	28	25	5.9	80.5	6.4
Organisation for Economic Co- operation and Development	0.895	0.790	11.7	28.9	80	50	12.6	119.3	31.6
World	0.731	0.596	18.6	14.9	34	28	9.8	104	14

# HUMAN DEVELOPMENT DASHBOARD 1: **PREPAREDNESS OF COUNTRIES TO RESPOND TO COVID-19** (CONTINUED)

# Level of preparedness: High Medium Low

Note: For each indicator in the table, countries are divided into five groups of roughly equal sizes. The intention is not to suggest thresholds or target values for the indicators, but to allow a crude assessment of a country performance relative to others. For example, a country that is in the top quintile group in an indicator performs better than 80 percent countries in this indicator. Similarly, a country in the medium group performs better than 40 percent of countries.

Data source: download at <a href="http://hdr.undp.org/sites/default/files/preparedness\_vulnerability\_dashboards\_12.xlsx">http://hdr.undp.org/sites/default/files/preparedness\_vulnerability\_dashboards\_12.xlsx</a>

country	Human development ac index (HDI)	Development Inequality- In djusted HDI (IHDI) ralue), 2018	nequality in ( HDI () (percent), 2018	Physicians per 10,000 r people), 10, 2010-18	Health syste Nurses and Hos nidwifes (per (j 000 people), 2010-18	spital beds Cu	rrent health sul enditure (% 100 p GDP), 2016	Connectivity Mobile phone Fixed oscription (per subsc people), 2017- 100 pe 18	d broadband riptions (per ople), 2017- 18
Niger     Image: Central African Republic       Chad     Image: Chad	0.377 0.381 0.401	0.272 0.222 0.250	27.8 41.6 37.7	0.5 0.6 0.5	2010-18 3 2 4	2010-18 3 10 -	6.2 4.3 4.5	40.6 27.7 45.1	0
South Sudan Burundi	0.413	0.264	36.1 30.1	- 0.5	- 7	- 8	- 6.2	33.5 56.5	0
Mali Eritrea Burkina Faso	0.427 0.434 0.434	0.294 - 0.303	31.2 - 30.0	1.4 - 0.6	4 - 6	1 7 4	3.8           3.0           6.8	115.1       20.4       97.9	0.6 0 0.1
Sierra Leone Mozambique Congo (Democratic Republic of the)	0.438 0.446 0.459	0.282	35.7 30.7 31.0	0.3 0.7 0.9	10 4 5	- 7 -	16.5           5.1           3.9	88.5 47.7 43.4	0.2
Guinea-Bissau Yemen	0.461	0.288	37.5 31.8	2 3.1	14 7	10 7	6.1 5.6	79 55.2	0.1
Liberia Guinea Gambia	0.465 0.466 0.466	0.314 0.310 0.293	32.3 33.4 37.2	0.4 0.8 1.1	1 4 16	8 3 11	9.6 5.5 4.4	56.6 96.1 139.5	0.2 0 0.2
Ethiopia Malawi Djibouti	0.470 0.485 0.495	0.337	28.4 28.7	1 0.2 2.2	8 3 5	3 13 14	4.0 9.8 3.5	37.2 39 41.2	0.1 0.1 2.7
Afghanistan Haiti	0.496	0.299	40.5	2.8 2.3	3 7	5	10.2 5.4	59.1 57.5	0.3
Sudan Togo Senegal	0.507 0.513 0.514	0.332 0.350 0.347	34.6 31.7 32.5	4.1       0.5       0.7	8 3 3	8 7 3	5.7 6.6 5.5	72 77.9 104.5	0.1 0.3 0.8
Côte d'Ivoire	0.516 0.518 0.520	0.331 0.350 0.327	35.7 32.5 37.1	2.3 0.7 1.6	9 7 6	- - 5	4.4 8.1 3.9	134.9 113.8 82.4	0.7 0.3 0.2
Madagascar Mauritania	0.521 0.527	0.386	25.8 32.1	1.8 1.8	1 10	2	6.0 4.2	40.6 103.7	0.1 0.3
Uganda Tanzania (United Republic of) Nigeria	0.528 0.528 0.534	0.387 0.397 0.349	26.7 24.9 34.6	0.9 0.4 3.8	6 4 15	5 7 -	6.2 4.1 3.6	57.3 77.2 88.2	0 1.5 0
Rwanda Comoros Papua New Guinea	0.536 0.538 0.543	0.382	28.7 45.3	1.3 1.7 0.5	8 9 5	16 22	6.8 7.6 2.0	78.9 59.9 47.6	0.1 0.2 0.2
Syrian Arab Republic	0.549	-	-	12.2 2	15 21	15 14	5.2	98.4 73.8	7.8 0.2
Pakistan Zimbabwe Cameroon	0.560 0.563 0.563	0.386 0.435 0.371	31.1 22.8 34.1	9.8 0.8 0.9	5 12 9	6 17 13	2.8 9.4 4.7	72.6 89.4 69.1	0.9 1.4 0.1
Angola	0.574	0.392	31.7 25.8	2.1 6.5	- 27	- 3	2.9 6.3	43.1 139.4	0.4 2.8
Kenya Cambodia Myanmar	0.579 0.581 0.584	0.426 0.465 0.448	26.3 20.1 23.2	2 1.7 8.6	15 10 10	14 8 9	4.5       6.1       5.1	96.3 119.5 113.8	0.7 1 0.2
Equatorial Guinea	0.588 0.591 0.596	- 0.394 0.427	- 33.4 28.3	4 0.9 1.8	5 9 12	21 20 9	3.4 4.5 4.4	45.2 89.2 137.5	0.1
Vanuatu Lao People's Democratic Republic	0.597 0.604	- 0.454	- 24.9	1.7 5	14 10	17 15	3.7 2.4	79.9 51.9	1.6 0.6
Eswatini (Kingdom of) Congo Sao Tome and Principe	0.608 0.608 0.609	0.430 0.456 0.507	29.3 25.0 16.8	0.8 1.2 3.2	20 17 23	21 - 29	7.7 4.6 6.0	93.5 98.9 77.1	0.7 0 0.7
Micronesia (Federated States of)	0.614 0.614	- 0.465	- 24.3 27.1	1.9 5.3 3.7	33 3	32 8	12.6 2.4	- 97.3	3.4 6.3
Bhutan Kiribati Honduras	0.617 0.623 0.623	0.450 - 0.464	- 25.5	2 3.1	15 48 9	17 19 7	3.5 11.9 8.4	93.3 46.6 79.2	1.4 0.8 3.7
Timor-Leste Namibia India	0.626 0.645 0.647	0.450 0.418 0.538	28.0 35.3 16.9	7.2 3.7 7.8	17 28 21	59 27 7	4.0 9.1 3.7	103.2 112.7 86.9	0 2.5 1.3
Nicaragua Guatemala	0.651 0.651	0.501	23.0 27.4	10.1 3.6	16 9	9 6	8.7 5.8	115.1 118.7	3 3.1
Cabo Verde Tajikistan El Salvador	0.651 0.656 0.667	0.574 0.521	- 12.5 21.9	7.7 17 15.7	12       52       23	21 48 13	5.2       7.0       7.0	112.2 111.5 146.9	2.9 0.1 7.7
Guyana Kyrgyzstan Morocco	0.670 0.674 0.676	0.546 0.610	18.5 9.5 -	8 18.8 7.3	13 64 11	16 45 11	4.2 6.6 5.8	83 122.6 124.2	8.4 5.6 4.3
Palestine, State of	0.689 0.690	0.552	19.8 13.5	8.2	17	-	3.3	94.9 89.5	11.7 7.5
Viet Nam Marshall Islands Egypt	0.693 0.698 0.700	0.580 - 0.492	16.3 - 29.7	8.2 4.6 7.9	14 35 14	26 27 16	5.7 23.3 4.6	147.2 27.6 95.3	13.6 1.7 6.7
Gabon Bolivia (Plurinational State of)	0.702	0.544	22.5 24.2	3.6 16.1	26 7	63 11	3.1 6.9	138.3 100.8	1.4 4.4
South Africa Samoa Indonesia	0.705 0.707 0.707	0.463	34.4 - 17.5	9.1 3.4 3.8	35 19 21	- - 12	8.1 5.5 3.1	153.2 63.6 119.8	1.9 0.9 3.3
Libya Uzbekistan Turkmenistan	0.708 0.710 0.710	0.578	- 18.5	21.6 23.7 22.2	67 121 46	37 40 74	- 6.3 6.6	91.5 75.9 162.9	4.8 12.7 0.1
Moldova (Republic of) Philippines	0.711	0.638	10.4 18.2	32 12.8	45	58 10	9.0 4.4	88	15.4 3.7
Tonga Maldives Belize	0.717 0.719 0.720	- 0.568 0.558	- 21.0 22.6	5.2 10.4 11.3	39 40 17	26 43 13	5.3 10.6 6.1	105.8 166.4 85.5	2.4 10.4 6.4
Jordan Suriname	0.723	0.617	14.7 22.7	23.4 12.3	34 41	14 31	5.5       6.1	87.6 139.5	4
Paraguay Fiji Dominica	0.724 0.724 0.724	0.562	22.5 - -	13.7 8.4 10.8	12 29 59	13       23       38	8.0 3.5 5.3	107 117.8 105.8	4.6 1.5 16.1
Venezuela (Bolivarian Republic of) Jamaica Saint Vincent and the Grenadines	0.726 0.726 0.728	0.600	17.3 16.7	- 13.2 6.6	- 11 26	8 17 26	3.2 6.1 3.6	71.8 101 96.1	9 9.7 22.3
Botswana Lebanon	0.728	-	-	3.7 22.7	33 26	18 29	5.5 8.0	150 64.5	1.8 0.1
Mongolia Tunisia Saint Lucia	0.735 0.739 0.745	0.635 0.585 0.617	13.6 20.8 17.2	28.9 12.7 1.1	40 26 16	70 23 13	3.8           7.0           5.3	133.2 127.7 101.7	9.7 8.8 17.7
Dominican Republic Ukraine Azerbaijan	0.745 0.750 0.754	0.584 0.701 0.683	21.5 6.5 9.4	15.6 30.1 34.5	3 71 70	16 88 47	6.2 6.7 6.9	84.1 122.6 103.9	7.5 12.8 19
Ecuador China	0.758	0.607	19.9 16.1	20.5 17.9	12 23	15 42	8.4       5.0	92.3	11.4 28.5
Peru North Macedonia	0.759 0.759 0.759	0.612 0.660 0.604	19.4 13.1 20.4	12.7 28.7 18.3	14 38 22	16 44 19	5.1           6.3           6.6	123.8 98.5 121.9	7.3 20.5 7.3
Armenia Colombia	0.760 0.761 0.761	0.685	9.9 23.1	29 20.8 21.5	56 13 97	42 15 22	9.9 5.9	121.3 129.9	11.8 13.4
Brazil Grenada Thailand	0.763	0.574 - 0.635	24.5 - 17.0	21.5 14.5 8.1	31 30	22       37       21	11.8       5.2       3.7	98.8 102.1 180.2	14.9 20.1 13.2
Mexico Bosnia and Herzegovina Antigua and Barbuda	0.767 0.769 0.776	0.595	22.5 14.4 -	22.5 20 27.6	29 63 31	15 35 38	5.5 9.2 4.3	93 104.1 192.8	14.5 20.9 9.4
Saint Kitts and Nevis	0.777 0.778	-	-	25.2 81.9	40 78	23 52	5.7 12.2	147.7 47.4	16.6 0.9
Sri Lanka Georgia Albania	0.780 0.786 0.791	0.686 0.692 0.705	12.1 12.0 10.9	9.6 51 12	21 41 36	36 26 29	3.9           8.4           6.7	115.1 133.4 94.2	7.3 21 12.6
Costa Rica	0.794	0.639	19.5 21.2	11.5 15.7 20.2	8 14 34	12 23 34	7.6 7.3	169.9 130.1 151.4	16.7 12.9 21 6
Iran (Islamic Republic of)	0.796 0.797 0.799	0.688 0.706 -	13.6 11.5 -	20.2 11.4 26.7	34 19 35	34 15 30	5.7 8.1 6.5	151.4 108.5 140.1	21.6 12 24.5
Serbia Seychelles Malaysia	0.799 0.801 0.804	0.710	11.1 - -	31.3 9.5 15.1	61 33 41	57 36 19	9.1 3.9 3.8	97.6 184.3 134.5	17.6 20.3 8.6
Bahamas Turkey	0.805 0.806	0.676	- 16.2	19.4 17.6	31 26	29 27	6.4 4.3	99 97.3	22.6 16.3
Uruguay Kuwait Barbados	0.808 0.808 0.813	0.703 - 0.675	13.0 - 17.0	50.5         25.8         24.9	19       70       60	28 20 58	9.1 3.9 7.0	149.9 178.6 122.6	28.3 2.5 31.2
Palau Romania Montenegro	0.814 0.816 0.816	0.725 0.746	- 11.1 8.6	11.8 22.6 23.3	53 61 57	48 63 40	11.7 5.0 7.6	134.4 116.2 180.7	6.9 26.1 25.3
Bulgaria Kazakhstan	0.816 0.817	0.713 0.759	12.5 7.1	39.9 32.5	53 85	68 67	8.2 3.5	118.1 142	27 13.4
Belarus Russian Federation Argentina	0.817 0.824 0.830	0.765 0.743 0.714	6.4 9.9 14.0	40.8 40.1 39.6	114 86 26	110 82 50	6.3 5.3 7.5	122.9 157.4 132.1	33.9 22 19.1
Oman Croatia Bahrain	0.834 0.837 0.838	0.732	12.2 8.3	19.7 30 9.3	43 81 25	16 56 20	4.3 7.2 4.9	133.4 105.6 133.3	8.7 27.1 11.8
Hungary Brunei Darussalam	0.845 0.845	0.777	8.0	32.3 17.7	66 66	70 27	7.4 2.3	103.4 131.9	31.7 11.5
Chile Qatar Portugal Q	0.847 0.848 0.850	0.673	20.5 - 12.7	10.8 - 33.4	9 66 64	22 12 34	8.5 3.1 9.1	134.4 141.9 115.6	17.4 9.6 36.9
Latvia	0.854 0.857	0.776	9.1 6.2	31.9 24.6	48 92	58 58	6.2 7.1	107.3 132.8	27.3 27.7
Saudi Arabia Andorra Jnited Arab Emirates	0.857 0.857 0.866	-	-	23.9 33.3 23.9	57 40 56	27 25 12	5.7 10.4 3.5	122.6 107.3 208.5	20.2 46.3 31.4
Lithuania Poland Greece	0.869 0.872 0.872	0.774 0.801 0.766	10.9 8.1 12.2	43.4 24 45.9	79 57 34	73 65 43	6.7 6.5 8.5	164.3 134.7 115.7	28.2 16.1 37.7
Cyprus Estonia	0.873 0.882	0.788	9.7 7.3	19.5 34.7	53 65	34 50	6.9 6.7	100.9 145.4	36.3 33.3
taly Malta	0.883 0.885 0.891	0.776 0.815 0.809	12.1 8.0 9.2	40.9 38.3 32.3	59 90 97	34 47 65	8.9 9.3 11.5	137.5 140.2 108.4	28.1 43.7 44.8
Czechia Spain Slovenia	0.891 0.893 0.902	0.850 0.765 0.858	4.6 14.3 4.8	43.1 40.7 30	84 55 97	65 30 46	7.1 9.0 8.5	119.2 115.9 118.7	30.2 32.5 29.5
Korea (Republic of)	0.906 0.906	0.777 0.809	14.2 10.8	23.7 32.2	70 52	115 31	7.3 7.3	129.7 127.7	41.6 28.8
Luxembourg Austria Japan Alassi Austria	0.909 0.914 0.915	0.822 0.843 0.882	9.5 7.7 3.6	30.3 51.4 24.1	123 82 115	48 76 134	6.2 10.4 10.9	132.2 123.5 139.2	37.1 28.4 32.6
Liechtenstein Belgium	0.917 0.919	- 0.849	- 7.6	- 33.2	- 111	- 62	- 10.0	124.6 103.4	44.1 39.2
United States United Kingdom New Zealand	0.920 0.920 0.921	0.797 0.845 0.836	13.4 8.2 9.2	25.9 28.1 30.3	86 83 110	29 28 28	17.1 9.8 9.2	123.7 117.5 134.9	33.8 39.6 34.7
Canada Finland Denmark	0.922 0.925 0.930	0.841 0.876 0.873	8.8 5.3 6.1	26.1 38.1 44.6	99 147 103	27 44 25	10.5 9.5 10.4	89.2 132.2 125.1	39 31.5 44.1
Netherlands Singapore	0.933 0.935	0.870 0.810	6.8 13.3	35.1 23.1	111 72	47 24	10.4 4.5	120.6 145.7	43.4 28
Sweden	0.937 0.938 0.938	0.874 0.885 0.862	6.7 5.7 8.1	54 39.7 35.9	115 157 127	26 32 38	10.9 8.3 9.3	125.1 126.1 113.6	39.8 40.6 30.7
Australia									
Australia Hong Kong, China (SAR) Germany Ireland	0.939 0.939 0.942	0.815 0.861 0.872	13.1 8.3 7.5	- 42.1 30.9	- 132 143	- 83 28	- 11.1 7.4	259.4 129.3 103.2	36.8 41.1 29.7

#### Definitions

Human Development Index (HDI): A composite index measuring average achievement in three basic dimensions of human development – a long and healthy life, knowledge and a decent standard of living. See Technical note 1 at

http://hdr.undp.org/sites/default/files/hdr2019\_technical\_notes.pdf for details on how the HDI is calculated.

Inequality-adjusted HDI (IHDI): HDI value adjusted for inequalities in the three basic dimensions of human development. See Technical note 2 at http://hdr.undp.org/sites/default/files/hdr2019\_technical\_notes.pdf for details on how the IHDI is calculated. Inequality in HDI: Percentage difference between the IHDI value and the HDI value.

Physicians: Number of medical doctors (physicians), both generalists and specialists, expressed per 10,000 people.

Nurses and midwives: Number of professional nurses, professional midwives, auxiliary nurses, auxiliary midwives, enrolled nurses, enrolled midwives and other associated personnel, such as dental nurses and primary care nurses, expressed per 10,000 people.

Hospital beds: Number of hospital beds available, expressed per 10,000 people. Current health expenditure: Spending on healthcare goods and services, expressed as a percentage of GDP. It excludes capital health expenditures such as buildings, machinery, information technology and stocks of vaccines for emergency or outbreaks.

Mobile phone subscriptions: Number of subscriptions for the mobile phone service, expressed as a percentage of GDP. It exc

Fixed broadband subscriptions refers to fixed subscriptions to high-speed access to the public Internet (a TCP/IP connection), at downstream speeds equal to, or greater than, 256 kbit/s, expressed per 100 people. It includes both residential subscriptions and subscriptions for organizations.

#### Main Data Sources

Column 1: HDRO calculations based on data from UNDESA (2019b), UNESCO Institute for Statistics (2019), United Nations Statistics Division (2019b), World Bank (2019a), Barro and Lee (2018) and IMF (2019).

Column 2: Calculated as the geometric mean of the values in inequality-adjusted life expectancy index, inequality-adjusted education index and inequality-adjusted income index using the methodology in Technical note 2 (available at

http://hdr.undp.org/sites/default/files/hdr2019\_technical\_notes.pdf).

Column 3: Calculated based on data in columns 1 and 2. Columns 4 and 5: WHO (World Health Organization) (2019). Global Health Observatory. www.who.int/gho/. Accessed 15 July 2019.

Columns 4 and 5. who (world Health Organization) (2019). Global Health Observatory. www.who.intrgno/. Accessed 15 July 2019. Columns 7. World Bank (2019a). World Development Indicators database. Washington, DC. http://data.worldbank.org. Accessed 15 July 2019.

Column 8: ITU (International Telecommunication Union) (2019). ICT Facts and Figures 2019. www.itu.int/en/ITU-D/Statistics/Pages/stat/. Accessed 8 August 2019.

Column 9: World Bank (2020). World Development Indicators database. Washington, DC. http://data.worldbank.org. Accessed 02 April 2020

Note: For each indicator in the table, countries are divided into five groups of roughly equal sizes. The intention is not to suggest thresholds or target values for the indicators, but to allow a crude assessment of a country performance relative to others. For example, a country that is in the top quintile group in an indicator performs better than 80 percent countries in this indicator. Similarly, a country in the medium group performs better than 40 percent of countries but also worse than 40 percent of countries

### **Exploring vulnerabilities: COVID-19**

Although everyone is potentially affected in one way or another by this pandemic, some individuals and groups are more vulnerable, and suffer far more harm and have a much longer road to recovery.

Dashboard 2 and data visualization below present indicators for human development groups, regions and 189 countries that reflect human vulnerability, including poverty, social protection and labor programs, and an economy's exposure to the immediate economic impacts of travel bans.

Poverty adds to the high risks of long-lasting consequences. Despite recent progress in poverty reduction, about 1 in 4 people still live in multidimensional poverty or are vulnerable to it, and more than 40 percent of the global population does not have any social protection.

Globalization has brought new opportunities and efficiency gains, but, as witnessed with COVID-19 pandemic, disruptions at one point of the chain can trigger serious local problems elsewhere. The effects of such events may be detrimental for countries and people that, for example, heavily depend on tourism such as island countries, inflows of remittances, or receiving official development assistance.

## INTERACTIVE DATA VISUALIZATION (ACCESS ONLINE AT HTTP://HDR.UNDP.ORG): SELECT AND EXPLORE VULNERABILITIES OF COUNTRIES TO PANDEMICS



# HUMAN DEVELOPMENT DASHBOARD 2: VULNERABILITY TO PANDEMICS

Level of vulnerability:

Low Medium High

Note: For each indicator in the table, countries are divided into five groups of roughly equal sizes. The intention is not to suggest thresholds or target values for the indicators, but to allow a crude assessment of a country performance relative to others. For example, a country that is in the top quintile group in an indicator performs better than 80 percent countries in this indicator. Similarly, a country in the medium group performs better than 40 percent of countries.

Data source: download at http://hdr.undp.org/sites/default/files/preparedness\_vulnerability\_dashboards\_12.xlsx

			Population liv income pov				Immedia	ate economic vuln	erability
Human Development Groups	Population in multidimensional poverty (%), 2007- 18	Population vulnerable to multidimensional poverty (%), 2007-18	PPP \$1.90 a day (%), 2010-18	National poverty line (%), 2010-18	Working poor at PPP\$3.20 a day (% of total employment), 2018	Social protection and labour programs (% of population without any), 2006-2016	Remittances, inflows (% of GDP), 2018	Net official development assistance received (% of GNI), 2017	Inbound tourism expenditure (percent of GDP), 2016-18
Very high human development	-	-	0.6	-	-	31.3	0.3	-	2.3
High human development	4.5	12.5	2.1	10.4	8.5	39.3	1.0	0.1	1.5
Medium human development	29.4	18.4	17.7	23.0	40	31.9	4.1	0.8	1.4
Low human development	62.3	16.2	45.1	44.0	68.4	86.1	4.6	4.7	1.7

Regions	Population in multidimensional poverty (%), 2007- 18	Population vulnerable to multidimensional poverty (%), 2007-18	PPP \$1.90 a day (%), 2010-18	National poverty line (%), 2010-18	Working poor at PPP\$3.20 a day (% of total employment), 2018	Social protection and labour programs (% of population without any), 2006-2016	Remittances, inflows (% of GDP), 2018	Net official development assistance received (% of GNI), 2017	Inbound tourism expenditure (percent of GDP), 2016-18
Developing countries	23.1	15.3	12.6	19.3	25.9	43.2	1.51	0.3	1.8
Arab States	15.7	9.4	4.7	23.0	14.9	52.8	2.70	1.7	3.6
East Asia and the Pacific	5.6	14.9	1.5	5.1	10.1	41.7	0.62	0.0	1.4
Europe and Central Asia	1.1	3.6	-	11.5	9.2	42.6	2.75	0.7	4.2
Latin America and the Caribbean	7.5	7.7	3.8	-	6.8	42.7	1.59	0.1	1.6
South Asia	31.0	18.8	17.4	22.9	43	25.1	3.39	0.4	1
Sub-Saharan Africa	57.5	17.2	43.5	43.0	63.1	79.4	2.89	2.8	2
Least developed countries	59.0	17.8	36.7	38.1	59.7	84.5	4.57	4.9	2.4
Small Island Developing States	22.7	13.1	-	-	17.7	75.6	6.89	1.5	8.3
Organisation for Economic Co- operation and Development	-	-	0.7	-	-	36	0.33	-	2.1
World	-	-	10.5	19.1	25	42.5	0.74	0.3	1.9

## HUMAN DEVELOPMENT DASHBOARD 2: VULNERABILITY TO PANDEMICS (CONTINUED)



Note: For each indicator in the table, countries are divided into five groups of roughly equal sizes. The intention is not to suggest thresholds or target values for the indicators, but to allow a crude assessment of a country performance relative to others. For example, a country that is in the top quintile group in an indicator performs better than 80 percent countries in this indicator. Similarly, a country in the medium group performs better than 40 percent of countries.

Data source: download at <u>http://hdr.undp.org/sites/default/files/preparedness\_vulnerability\_dashboards\_12.xlsx</u>

iger	HDI rank T 189	Population in multidimensional poverty (%), 2007- 18 90.5	Population vulnerable to multidimensional poverty (%), 2007- 18 5.1	PPP \$1.90 a day (%), 2010-18 44.5	National poverty line (%), 2010-18 44.5	Working poor at PPP\$3.20 a day (% of total employment), 2018 73.0	Social protection and labour programs (% of population without any), 2006-2016 78.6	Remittances, inflows (% of GDP), 2018 3.05	Net official development assistance received (% of GNI), 2017 15.2	Inbound touris expenditu (percent o GDP), 2016-1
central African cepublic chad couth Sudan	188 187 186	79.4 85.7 91.9	13.1 9.9 6.3	- 38.4	46.7	85.9 64.2 -	97.0 93.8	- 35.27	23.4 6.6 60.5	0
urundi Iali ritrea urkina Faso	185 184 182 182	74.3 78.1 - 83.8	16.3 10.9 - 7.4	71.8 - - 43.7	64.9 - - 40.1	89.6 78.5 73.7 71.1	- 98.7 - 95.7	1.17 5.14 - 3.03	13.5 9 5.2 7.4	0 1 1
ierra Leone Iozambique ongo (Democratic epublic of the)	181 180 179	57.9 72.5 74.0	19.6 13.6 16.8	40.1 62.9 76.6	52.9 46.1 63.9	77.2 76.3 87.7	69.8 93.7 88.9	1.28 2.45 2.98	14.8 14.5 6.2	2
epublic of they iuinea-Bissau emen iberia	178 177 176	67.3 47.7 62.9	19.2 22.1 21.4	67.1 18.8 40.9	69.3 48.6 50.9	80.6 83.6 71.4	- - 85.6	1.82 12.45 11.92	8.4 12.1 20.8	1
uinea ambia thiopia	174 174 173	61.9 55.2 83.5	17.2 21.8 8.9	35.3 10.1 30.8	55.2 48.6 23.5	67.3 32.1 56.1	96.1 91.7 86.8	0.44 15.08 0.49	4.6 18.5 5.1	0 10 4
lalawi jibouti fghanistan	172 171 170	52.6 - 55.9	28.5 - 18.1	70.3 17.1 -	51.5 21.1 54.5	85.7 - 70.3	58.5 79.1 91.2	0.63 3.22 1.99	24.1 6.9 18.7	0 2 0
laiti udan ogo	169 168 167	41.3 52.3 48.2	21.8 17.7 21.8	24.2 12.7 49.8	58.5 - 55.1	42.2 25.7 64.4	80.5 92.6 97.0	30.92 1.04 8.54	11.6 0.7 7.2	6 2 5
enegal ôte d'Ivoire esotho	166 165 164	53.2 46.1 33.6	16.4 17.6 24.4	38.0 28.2 26.9	46.7 46.3 49.7	61.3 53.1 64.3	83.2 67.1 93.7	9.17 0.84 15.42	4.4 2.3 5.1	2 1 0
enin Iadagascar Iauritania Iganda	163 162 161 159	66.8 77.8 50.6 55.1	14.7 11.8 18.6 24.9	49.5 77.6 6.0 41.7	40.1 70.7 31 21.4	69.4 88.2 16.7 66.3	- 94.3 54.8 39.3	3.55 3.06 1.55 4.48	7.4 7 5.8 7.9	1 7 0 3
anzania (United epublic of) ligeria	159 158	55.4 51.4	24.2 16.8	49.1	26.4	70.3 69.1	87.1 93.6	0.75	- 0.9	4
wanda omoros apua New Guinea	157 156 155	54.4 37.3 -	25.7 22.3 -	55.5 17.6 -	38.2 42.4 -	74.5 31.1 50.8	68.6 - 95.8	2.42 11.85 0.02	13.7 6.2 2.5	5 6 0
yrian Arab Republic olomon Islands akistan imbabwe	154 153 152 150	7.4 - 38.3 31.8	7.7 - 12.9 27.4	25.1 3.9 33.9	- 12.7 24.3 70	58.3 51.9 30.3 42.9	- - 83.2 70.4	- 1.18 6.73 5.99	- 15.3 0.7 3.5	
ameroon ngola epal	150 149 147	45.3 51.1 34.0	17.3 15.5 22.3	23.8 47.6 15.0	37.5 - 25.2	37.8 54.0 35.4	95.0 - 56.5	0.90 0.00 27.99	3.5 0.2 5	1
enya ambodia Iyanmar	147 146 145	38.7 37.2 38.3	34.9 21.1 21.9	36.8 - 2.0	36.1 17.7 24.8	59.3 59.9 19.6	72.6 96.9 97.7	3.09 5.83 3.87	3.2 4.1 2.4	19
quatorial Guinea ambia hana	144 143 142	- 53.2 30.1	- 22.5 22.0	- 57.5 13.3	- 54.4 23.4	22.7 69.4 16.8	- 98.4 36.3	- 0.40 5.80	0.1 4.1 2.2	2
anuatu ao People's emocratic Republic swatini (Kingdom	141 140 138	38.8 23.1 19.2	32.3 21.2 20.9	13.2 22.7 28.4	12.7 23.4 58.9	42.5	- 98.3 48.4	2.19 1.50 3.31	15.7 3 3.4	37
f) ongo ao Tome and rincipe	138 137	24.3 22.1	21.3 19.4	37.0 34.5	40.9 66.2	60.1	-	0.09 4.21	1.4 10.8	(
licronesia Federated States of) angladesh hutan	135 135 134	- 41.7 37.3	- 21.4 17.7	15.4 14.8 1.5	41.2 24.3 8.2	- 44.8 12.6	- 82.2 97.1	7.05 5.65 2.29	25.1 1.4 5.1	
hutan iribati onduras imor-Leste	134 132 132 131	37.3 - 19.3 45.8	17.7 - 22.3 26.1	1.5 - 16.5 30.7	8.2 - 48.3 41.8	12.6 - 25.1 67.3	97.1 95.4 44.2 64.7	2.29 9.68 20.07 3.43	5.1 21.2 2.1 10.2	:
amibia Idia icaragua	130 129 126	43.8 38.0 27.9 16.3	20.1 20.3 19.3 13.2	13.4 21.2 3.2	17.4 21.9 24.9	13.6 46.7 22.8	6.0 31.8	0.37 2.88 11.47	1.4 0.1 4.2	:
uatemala abo Verde ajikistan	126 126 125	28.9 - 7.4	21.1 - 20.1	8.7 3.2 4.8	59.3 35 27.4	12.7 12.9 16.4	36.7 95.4 60.7	12.10 13.03 29.02	0.5 7.2 3.7	2(
l Salvador uyana yrgyzstan	124 123 122	7.9 3.4 2.3	9.9 5.8 8.3	1.5 - 0.9	29.2 - 22.4	6.2 6.3 14.3	41.9 - 42.1	20.68 7.91 33.23	0.6 1.4 -	:
lorocco aq alestine, State of	121 120 119	18.6 8.6 1.0	13.2 5.2 5.4	1.0 2.5 1.0	4.8 18.9 29.2	5.7 8.4 1.4	59.0 16.4 89.3	5.84 0.33 16.98	1.8 1.5 12.8	(
iet Nam Iarshall Islands gypt	118 117 116	4.9 - 5.2	5.6 - 6.1	1.9 - 3.2	6.7 - 32.5	7.4 - 12.4	65.1 - 44.5	6.51 14.09 11.53	1.1 26.9 0	2 5 5
abon olivia (Plurinational tate of) outh Africa	115 114 113	14.8 20.4 6.3	17.5 15.7 12.2	3.4 4.5 18.9	33.4 34.6 55.5	5.6 9.1 17.1	- 21.8 20.2	0.13 3.45 0.25	0.8 2.6 0.3	(
amoa donesia bya	111 111 110	- 7.0 2.0	- 9.1 11.3	1.1 4.6 -	20.3 9.8 -	- 24.2 0.4	66.4 42.6 -	16.43 1.08 -	15.9 0 1.1	22
zbekistan urkmenistan oldova (Republic of)	108 108 107	- 0.4 0.9	- 2.4 3.7	- - 0.0	14.1 - 9.6	49.8 24.2 0.3	- - 43.4	3.03 0.00 16.25	1.1 0.1 2.4	:
hilippines onga Ialdives	106 105 104	5.8 - 0.8	7.3 - 4.8	6.1 1.0 0.0	21.6 - 8.2	23.3 - 12.1	59.4 98.7 85.2	10.22 40.70 0.08	0 18.4 0.9	2 10 57
elize ordan uriname	103 102 98	4.3 0.4 9.4	8.4 0.7 4.5	- 0.1 -	- 14.4 -	9.2 1.8 14.5	60.6 26.8 -	4.81 10.33 0.02	2 7.2 0.8	25 14 2
araguay iji ominica	98 98 98	4.5 - -	7.2 - -	1.6 1.4 -	24.2 34 -	2.8 8.0 -	36.6 85.7 -	1.67 5.20 9.22	0.4 3 3.9	
enezuela (Bolivarian epublic of) amaica aint Vincent and the renadines	96 96 94	- 4.7 -	- 6.4 -	-	33.1 19.9 -	17.3 3.5 -	85.5 41.7 -	0.03 15.92 5.12	0 0.4 0.9	19
otswana ebanon Iongolia	94 93 92	- - 10.2	- - 19.2	16.1 0.0 0.5	- 27.4 28.4	22.3 0.2 1.9	- - 0.1	0.18 12.72 4.39	0.6 2.4 7.8	3
unisia aint Lucia ominican Republic	91 89 89	1.3 1.9 3.9	3.7 1.6 5.2	0.2 4.7 0.4	15.2 25 22.8	3.2 - 3.6	85.6 - 65.5	5.09 1.71 8.38	2 0.7 0.2	52 <u>c</u>
kraine zerbaijan cuador	88 87 85	0.2 - 4.5	0.4 - 7.5	0.0 - 3.3	1.3 6 25	0.1 0.1 8.2	29.7 35.4 27.4	10.99 2.61 2.80	1.1 0.3 0.2	-
hina eru orth Macedonia	85 82 82	3.9 12.7 2.5	17.1 12.5 2.9	0.5 2.6 4.4	1.7 20.5 21.9	5.9 10.3 0.7	36.9 35.1 -	0.18 1.46 2.72	0 0 1.4	2
Igeria rmenia olombia	82 81 79	2.1 0.2 4.8	5.8 2.7 6.2	0.5 2.1 4.1	5.5 23.5 27	1.2 7.9 6.2	- 33.2 34.3	1.07 11.97 1.93	0.1 2.1 0.3	) 9
razil renada hailand lexico	79 78 77 76	3.8 - 0.8 6.3	6.2 - 7.2 4.7	4.4 - 0.0 1.7	- 9.9 41.9	2.8 - 0.1 8.8	46.2 - 20.6 34.3	0.16 4.00 1.48 2.91	0 0.6 0.1 0.1	4:
osnia and erzegovina ntigua and Barbuda	76 75 74	0.3 2.2	4.7	0.1	41.9 16.9 -	8.8 0.2	- 34.3 49.7	2.91 10.71 2.16	0.1 2.4 0.7	59
aint Kitts and Nevis uba ri Lanka	73 72 71	- - -	- - -	- - 0.8	- - 4.1	- 0.9 6.7	- - 66.9	2.19 - 8.40	3.6 0.6 0.3	35
eorgia Ibania osta Rica	70 69 68	- 0.7 -	- 5.0 -	4.5 1.7 1.4	20.1 14.3 21	11.2 0.9 1.1	35.3 45.1 33.4	12.55 9.68 0.89	3.1 1.2 -	2- 1! (
anama lauritius an (Islamic Republic f)	67 66 65		- - -	1.7 0.2 0.3	22.1 10.3 -	2.9 0.6 0.5	36.6 53.4 -	0.83 1.72 0.29	0.1 0.1 0	ۂ 1
rinidad and Tobago erbia eychelles	63 63 62	0.6 0.3 -	3.7 3.4 -	- 5.5 1.1	- 24.3 39.3	0.6 0.3 -	- 39.0 -	0.61 8.56 1.50	0 4.1 1.4	: ; 38
lalaysia ahamas urkey	61 60 59	-	-	0.0	0.4	0.1 0.2 0.4	15.9 - 49.6	0.47	0-0.4	2.
ruguay uwait arbados alau	57 57 56 55	- - 2.5 -	- - 0.5	0.1 - -	8.1 - -	0.1 0.7 0.5	20.2 - - 62.6	0.17 0.02 2.32 0.79	0.1 - 0.4 7.9	2
alau omania Iontenegro ulgaria	55 52 52 52 52	- - 0.4	- - 4.3 -	- 3.5 1.7 1.3	23.6 23.6 22	- - 0.3 -	62.6 16.3 43.6 26.4	0.79 2.03 10.80 3.68	7.9 - 2.4 -	4: 
azakhstan elarus ussian Federation	52 50 50 49	- 0.5	- - -	0.0	2.5 5.6 12.9	0.1 0.3 0.1	20.4 49.8 23.6 22.1	0.36 2.01 0.52	-0.5	•
rgentina man roatia	48 47 46	-	-	1.0 - 0.5	32 - 19.4	0.6	- 22.1 53.6 - 29.3	0.02 0.10 0.05 4.74	0 0 0.2	: 19
ahrain ungary runei Darussalam	45 43 43	-	-	0.6 -	- 14.9	- - 0.2	- 10.6	- 3.12 -	-	1(
nile atar ortugal	42 41 40	-	-	0.3 - 0.4	8.6 - -	0.8 0.1 -	12.3 - -	0.02 0.24 0.19	0 - -	
atvia ovakia audi Arabia	39 36 36	-	-	0.8 1.4 -	22.5 12.6 -	- - 0.1	19.7 11.4 -	3.64 2.08 0.04	-	:
ndorra nited Arab Emirates thuania	36 35 34	-	-	0.0 1.0	- 22.2	- 0.5 -	- - 18.1 25.6	- - 2.60	-	
oland reece yprus	32 32 31 30	-	- - -	0.3 0.9 0.0	15.4 - - 21.8	-	35.6 - -	1.21 0.22 1.83	-	1:
stonia aly alta rance	30 29 28 26	- - -	- - -	0.3 1.4 0.2 0.0	21.8 - -	-	- - -	1.87 0.46 1.84 0.95	-	1:
ance zechia pain ovenia	26 26 25 24	- - -	- - -	0.0 0.0 0.7 0.0	- 9.7 - 14.3	-	- - -	0.95 1.60 0.24 1.13	-	:
ovenia orea (Republic of) rael uxembourg	24 22 22 21	- - -	-	0.0 0.2 0.2 0.3	14.3 - -	- 0.1	- - -	1.13 0.42 0.25 2.86	- - -	
uxembourg ustria apan echtenstein	21 20 19 18	- - -	- - -	0.3 0.3 0.7	-	-	- - -	2.86 0.70 0.09		
echtenstein elgium nited States nited Kingdom	18 17 15 15	- - -	- - -	0.1 1.2 0.2	-	-	- - -	- 2.16 0.03 0.16		
nited Kingdom ew Zealand anada nland	15 14 13 12	-	- - -	0.2 - 0.5 0.1	-	-	-	0.16 0.22 0.08 0.34	- - -	
enmark etherlands ngapore	12 11 10 9	- - -	-	0.1	- - -	0.1	-	0.34	-	:
weden eland ustralia	8 6 6	-	-	0.2 0.0 0.5	- - -	-	-	0.57 0.67 0.13	-	
ong Kong, China ;AR) ermany	4	-	-	- 0.0	-	0.1	-	0.12 0.45	-	1.
eland	3	-	-	0.1	-	-	-	0.17		:

Definitions

Population vulnerable to multidimensional poverty: Percentage of the population at risk of suffering multiple deprivations—that is, those with a deprivation score of 20–33 percent. Population living below PPP \$1.90 a day: Percentage of the population living below the international poverty line of \$1.90 (in purchasing power parity terms [PPP]) a day.

Population living below national poverty line: Percentage of the population living below the national poverty line, which is the poverty line deemed appropriate for a country by its authorities. National estimates are based on population-weighted subgroup estimates from household surveys.

Working poor at PPP\$3.20 a day: Proportion of employed people who live on less than \$3.20 (in purchasing power parity terms) a day, expressed as a percentage of the total employed population ages 15 and older. Coverage of social protection and labor programs: Percentage of population participating in social insurance, social safety net, and unemployment benefits and active labor market programs. We present the percentage of population without any social

protection or labour program. Estimates include both direct and indirect beneficiaries. Remittances, inflows: Earnings and material resources transferred by international migrants or refugees to recipients in their country of origin or countries in which the migrant formerly resided.

Inbound tourism expenditure is expenditure by international inbound visitors, including payments to national carriers for international transport. They also may include receipts from same-day visitors, except when these are important enough to justify separate classification.

Net official development assistance received: Disbursements of loans made on concessional terms (net of repayments of principal) and grants by official agencies to promote economic development and welfare in countries and territories on the Development Assistance Committee list of aid recipients, expressed as a percentage of the recipient country's gross national income (GNI).

#### Main data sources

Main data sources Columns 1 and 2: HDRO calculations based on data on household deprivations in health, education, and standard of living from various household surveys listed in column 1 using a revised methodology described in Technical note 5 (available at http:// hdr.undp.org/sites/default/files/hdr2018\_technical\_notes.pdf). Columns 3 and 5: World Bank (2020). World Development Indicators database. Washington, DC. http://data.worldbank.org. Accessed 02 April 2020 Column 4: ILO (2019). ILOSTAT database. www.ilo.org/ilostat. Accessed 17 June 2019. Column 6: ILO (International Labour Organization) (2018b). World Social Protection Report 2017–19. Geneva. www.social-protection.org/gimi/gess/ShowWiki.action?id=594. Accessed 13 April 2018. Column 7: and 8 World Bank (2019a). World Development Indicators database. Washington, DC. http://data.worldbank.org. Accessed 15 July 2019. Column 9: World Tourism Organization (2020), Compendium of Tourism Statistics dataset, Madrid, http://statistics.unwto.org/method\_notes\_tourism\_stat\_database\_2019ed. Accessed 02 April 2020.