



COVID-19 Regional Safety Assessment



Tier-4 Methodology Framework

Tier-4

COVID-19 Ranking of 100 Countries and Region

Rank	Region	Score
101	Isle of Man	435
102	St. Lucia	434
103	North Macedonia	431
104	Dominica	430
105	Antigua and Barbuda	429
106	Dominican Republic	429
107	Grenada	429
108	Kyrgyzstan	429
109	Mauritius	429
110	Barbados	428
111	Bermuda	428
112	Maldives	428
113	São Tomé and Príncipe	428
114	Cuba	427
115	Micronesia, Fed. Sts.	427
116	Nigeria	426
117	Palau	426
118	Gabon	424
119	French Polynesia	423
120	Fiji	421
121	Uzbekistan	421
122	Botswana	419
123	El Salvador	416
124	Tajikistan	414
125	Costa Rica	413

Rank	Region	Score
126	Suriname	412
127	Togo	412
128	Belize	409
129	North Korea	408
130	Mozambique	407
131	Turkmenistan	403
132	New Caledonia	402
133	Timor-Leste	402
134	Namibia	401
135	Seychelles	400
136	Sierra Leone	399
137	Guyana	398
138	Aruba	396
139	Guam	394
140	Bhutan	392
141	Jamaica	391
142	Nepal	390
143	Uganda	385
144	Gambia	380
145	Vanuatu	378
146	Comoros	374
147	Kenya	372
148	Pakistan	370
149	Zambia	369
150	Colombia	367

Rank	Region	Score
151	Zimbabwe	367
152	Madagascar	364
153	Equatorial Guinea	363
154	Sint Maarten (Dutch part)	362
155	Papua New Guinea	360
156	Guinea-Bissau	358
157	Ghana	356
158	Libya	356
159	Nicaragua	354
160	Angola	350
161	British Virgin Islands	350
162	Cabo Verde	350
163	Curaçao	350
164	Niger	350
165	Solomon Islands	350
166	St. Kitts and Nevis	350
167	St. Vincent and Grenadines	350
168	Trinidad and Tobago	350
169	Djibouti	349
170	Guatemala	347
171	St. Martin (French part)	345
172	Lesotho	343
173	Haiti	340
174	Ethiopia	338
175	Mauritania	338

Rank	Region	Score
176	Bolivia	337
177	Guinea	336
178	Malawi	336
179	Burundi	334
180	Cameroon	332
181	Eritrea	332
182	Côte d'Ivoire	331
183	Sudan	331
184	Venezuela, RB	331
185	Benin	329
186	Senegal	327
187	Somalia	326
188	Congo, Rep.	325
189	Yemen, Rep.	325
190	Central African Republic	323
191	Iraq	323
192	Syrian Arab Republic	321
193	Burkina Faso	318
194	Tanzania	314
195	Liberia	311
196	Afghanistan	310
197	Chad	305
198	Mali	300
199	Rwanda	300
200	South Sudan	300

COVID-19 Regional Safety Index: Tier-4 Methodology Framework

The 100 territories located in Tier 4 (45% Sub Saharan Africa, 22% Central America, 15% Asia and Pacific, 5% Middle East and North Africa, 5% South America, 4% Eastern Europe and Central Asia, 2% North America) were chosen based on the quantitative results of the first-stage regional safety analysis utilizing 20 parameters, as well as on the qualitative basis whether they suffered from severe levels of data unavailability and unreliability, preventing a fully comprehensive analysis. Due to such data availability issues, only 40 parameters (from the initial set of 130 parameters) was used was used to determine the cumulative scores for each of its 100 constituent regions.

Furthermore, due to the comparatively lower number of parameters utilized, and the fact that a single composite category (consisting of parameters taken from each of the index's 6 component categories) was created, only cumulative scoring was performed for each constituent region of Tier 4, rather than individual category-specific scoring. Additionally, the rankings provided for Tier 4 regions are approximate, and are given as score ranges rather than discrete, individual values, to better account for the fundamental issue of data unavailability for these regions. Thus, region-specific rankings for Tier 4 should be considered as more preliminary than the rankings presented for Tiers 1 - 3. While quantitative and qualitative parameters were utilized in order to arrive at the presented territory-specific scoring, severe data unavailability and unreliability prevented a fully comprehensive analysis, and it is our hope that these regions will consider releasing a greater volume of data necessary to conduct a more thorough analysis.

Future iterations of Deep Knowledge Group's Regional Safety and Risk Assessment analytical case study will expand the scope of its Tiering system to include a fifth Tier, consisting of those territories from among Tier 4 which still score comparatively negatively after having provided a sufficient volume of available and reliable data necessary to conduct a more thorough analysis with a greater number of parameters.

COVID-19 Regional Safety Index: Tier-4 Parameters

No	Parameter Name	
1	Does the region have “hotspots” (high density of cases in one specific area)?	yes=1, no=0
2	Number of cases	per million individuals
3	Does the region have an absence of large supply shortages?	yes=0, no=1
4	Average level of touristic flow.	number of tourists per year
5	Does the region have dedicated military chemical and biological warfare divisions and forces?	yes=1, no=0
6	Government effectiveness (EIU score).	EIU Score
7	State of emergency readiness	yes=1, no=0
8	Does the region have national laboratories available for COVID-19 testing?	yes=1, no=0
9	Number of COVID-19 tests conducted per day.	Numeric
10	Does the region have a significant shortage of COVID-19 tests?	yes=0, no=1

COVID-19 Regional Safety Index: Tier-4 Parameters

No	Parameter Name	
11	Quantity of Ventilator Stockpile	Numeric
12	Number of hospital beds	per 1000 people
13	Number of doctors.	per 1000 people
14	Healthcare Development Index score.	Index
15	HAQ (The Healthcare Access and Quality Index) - 2016.	Index
16	Does the region have access to basic sanitation facilities?	yes=1, no=0
17	Size of Elderly Population	% of total population
18	Is the region currently experiencing a political or election-based crisis?	yes=0, no=1
19	Does the region's military have pre-existing plans and policies in place in the event of a biological or chemical attack?	yes=1, no=0
20	Number of deaths per mln	Numeric

COVID-19 Regional Safety Index: Tier-4 Parameters

No	Parameter Name	
21	Economic support to citizens	in USD
22	Tax reliefs	in USD
23	Are there any shortages in protective equipment?	yes=0, no=1
24	EGDI.	EGDI score
25	Does the region utilize Electronic Health Records?	yes=1, no=0
26	Regional economic debt (number).	% of GDP
27	Functioning of Government (Index)	HDI Index
28	Does the region have the necessary infrastructure for surplus ventilator production?	yes=1, no=0
29	Global Health Security Index	GHS index score
30	Total transportation network size.	km

COVID-19 Regional Safety Index: Tier-4 Parameters

No	Parameter Name	
31	Prevalence of diabetes.	% of population ages 20 to 79
32	Death rate due to endocrine disorder.	per 100,000 people
33	Prevalence of mental health and substance use disorders as a share of total disease burden, 2017.	Percent of total disease burden, 2017.
34	Incidence of tuberculosis.	per 100,000 people
35	Incidence of cancer.	per 100,000 people
36	Obesity	% of total population
37	Is there a majoritively positive public sentiment regarding government COVID-19 strategy?	yes=1, no=0
38	Proprietary metric #1	Not publicly disclosed.
39	Proprietary metric #2	Not publicly disclosed.
40	Proprietary metric #3	Not publicly disclosed.

DISCLAIMER



Deep Knowledge Group is using its best efforts to continuously update its COVID-19 analytics based on dynamic, publicly available metrics deemed reliable, such as World Health Organization, Worldometers, CDC, Johns Hopkins University, and other publicly available sources.

Certain metrics used for advanced and qualitative assessment were formulated by Deep Knowledge Group analysts in coordination with specific experts and consultants using proprietary sources and techniques. Therefore, such rankings may be adjusted over time depending on the corresponding underlying information and in coordination with ongoing enhancements to our underlying analytical methodologies.

Information provided herein is intended for indicative and informational purposes only. Opinions, estimates and analysis represented constitute the current judgment and opinion of the author.

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