COVID-19 Regional Safety Assessment

Tier-1 Methodology Framework
Safety Score 20 Most Safe Regions

Tier-1

- Norway (685)
- Australia (716)
- New Zealand (655)
- Netherlands (651)
- Denmark (671)
- Switzerland (752)
- Germany (749)
- Hungary (656)
- China (717)
- South Korea (712)
- Japan (738)
- Taiwan (667)
- UAE (637)
- Hong Kong (698)
- Taiwan (699)
- Austria (726)
- Israel (748)
- Singapore (744)
- Vietnam (637)
- Saudi Arabia (657)
- Australia (716)
- New Zealand (715)
- Canada (699)
## Tier-1
### Regions COVID-19 Safety Ranking

<table>
<thead>
<tr>
<th>#</th>
<th>Region</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Switzerland</td>
<td>752</td>
</tr>
<tr>
<td>2</td>
<td>Germany</td>
<td>749</td>
</tr>
<tr>
<td>3</td>
<td>Israel</td>
<td>748</td>
</tr>
<tr>
<td>4</td>
<td>Singapore</td>
<td>744</td>
</tr>
<tr>
<td>5</td>
<td>Japan</td>
<td>738</td>
</tr>
<tr>
<td>6</td>
<td>Austria</td>
<td>726</td>
</tr>
<tr>
<td>7</td>
<td>China</td>
<td>717</td>
</tr>
<tr>
<td>8</td>
<td>Australia</td>
<td>716</td>
</tr>
<tr>
<td>9</td>
<td>New Zealand</td>
<td>715</td>
</tr>
<tr>
<td>10</td>
<td>South Korea</td>
<td>712</td>
</tr>
<tr>
<td>11</td>
<td>United Arab Emirates</td>
<td>700</td>
</tr>
<tr>
<td>12</td>
<td>Canada</td>
<td>699</td>
</tr>
<tr>
<td>13</td>
<td>Hong Kong</td>
<td>698</td>
</tr>
<tr>
<td>14</td>
<td>Norway</td>
<td>685</td>
</tr>
<tr>
<td>15</td>
<td>Denmark</td>
<td>671</td>
</tr>
<tr>
<td>16</td>
<td>Taiwan</td>
<td>667</td>
</tr>
<tr>
<td>17</td>
<td>Saudi Arabia</td>
<td>657</td>
</tr>
<tr>
<td>18</td>
<td>Hungary</td>
<td>656</td>
</tr>
<tr>
<td>19</td>
<td>The Netherlands</td>
<td>651</td>
</tr>
<tr>
<td>20</td>
<td>Vietnam</td>
<td>637</td>
</tr>
</tbody>
</table>
Tier 1 consists of the 20 regions that were ranked highest in terms of regional safety and stability according to the analytical framework and methodology utilized in Deep Knowledge group's first COVID-19 Regional Safety Assessment, according to all 130 parameters featured in that report's analysis. The 130 parameters developed for use in that report make up Deep Knowledge Group's COVID-19 Regional Safety Index, which itself is a hybrid index developed by expanding specific parameters and indicators originally formulated as part of the group's Global COVID-19 Safety and Risk Ranking Frameworks, in order to create a new framework designed to take into account safety and vulnerability factors simultaneously.

The pool of the 20 selected regions included in Tier 1 is made up of Switzerland, Germany, Israel, Singapore, China, Japan, Austria, Australia, New Zealand, Canada, South Korea, United Arab Emirates, Norway, Hong Kong, Denmark, Saudi Arabia, Hungary, Netherlands, Taiwan and Vietnam, and more than 130 qualitative and quantitative parametric variables have been developed, tuned, and grouped into 6 broad and top-level categories in order to determine the regional safety rankings of Tier 1 regions.

Nearly half of the regions positioned in Tier 1 are within Asia Pacific (and the overwhelming majority of those within Asia), with 35% being located in Europe, 15% in Middle East and Africa, and just one region (Canada) within North America. The predominance of Asian regions in Tier 1 can be partially explained by the fact that Asia is much later in the overall pandemic timeline, having faced COVID-19 earlier than others, and the factors which sets apart Asian regions in Tier 1 rather than Tiers 2 or 3, for example, can provide tangible insights into what strategies seem to have worked, and which ones have not. In addition to this, we also find a greater emphasis on government efficiency and a strong degree of coordination and integration of government-led action across many departments, more stringent and longer-lasting lock-down measures, a greater emphasis on monitoring and detection and generally more widespread testing than other parts of the world.
## COVID-19 Regional Safety Index: Tier 1 Parameters

<table>
<thead>
<tr>
<th>1</th>
<th>1.1 COVID-19 Quarantine Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1.1</td>
<td>Population Density</td>
</tr>
<tr>
<td>1.1.2</td>
<td>Does the region have dedicated military chemical and biological warfare divisions and forces? yes=1, no=0</td>
</tr>
<tr>
<td>1.1.3</td>
<td>Does the region have “hotspots” (high density of cases in one specific area)? yes=0, no=1</td>
</tr>
<tr>
<td>1.1.4</td>
<td>Number of cases. per million individuals</td>
</tr>
<tr>
<td>1.1.5</td>
<td>Scale and scope of region-wide lockdown full = 1, partial = 0.5 non-existing = 0</td>
</tr>
<tr>
<td>1.1.6</td>
<td>Does the region’s federal government have legislative authority over the entire territory? yes=0, no=1</td>
</tr>
<tr>
<td>1.1.7</td>
<td>Does the region possess culture and religion-specific behaviours that preclude enforcement of mandatory quarantine measures? yes=0, no=1</td>
</tr>
<tr>
<td>1.2</td>
<td>Quarantine Timeline</td>
</tr>
<tr>
<td>1.2.1</td>
<td>What is the length of quarantine? 14 days = 0.5, more than 14 = 1, no quarantine length = 0</td>
</tr>
<tr>
<td>1.2.2</td>
<td>Did the region impose quarantine measures early in the timeline of viral spread? yes=1, no=0</td>
</tr>
<tr>
<td>1.2.3</td>
<td>Was quarantine easing officially declared? yes=0, no=1</td>
</tr>
<tr>
<td>1.2.4</td>
<td>Did the population exert public pressure to ease quarantine measures? yes=0, no=1</td>
</tr>
<tr>
<td>1.3</td>
<td>Criminal Penalties for Violating Quarantine</td>
</tr>
<tr>
<td>1.3.1</td>
<td>Quantity of law enforcement officers. number per capita</td>
</tr>
</tbody>
</table>
# COVID-19 Regional Safety Index: Tier-1 Parameters

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.3.2</td>
<td>Did the region use volunteers to monitor quarantine compliance?</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>1.3.3</td>
<td>Criminal penalties for violating quarantine.</td>
<td>Number of months in incarceration.</td>
</tr>
<tr>
<td>1.3.4</td>
<td>Fines</td>
<td>In USD</td>
</tr>
<tr>
<td>1.3.5</td>
<td>Did the region use military personnel to assist law-enforcement officers?</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>1.4</td>
<td>Economic Support for Quarantined Citizens</td>
<td></td>
</tr>
<tr>
<td>1.4.1</td>
<td>Economic support to citizens</td>
<td>in USD</td>
</tr>
<tr>
<td>1.4.2</td>
<td>Economic support to SMEs</td>
<td>in USD</td>
</tr>
<tr>
<td>1.4.3</td>
<td>Tax reliefs</td>
<td>in USD</td>
</tr>
<tr>
<td>1.4.4</td>
<td>Economic rescue package</td>
<td>% of GDP</td>
</tr>
<tr>
<td>1.5</td>
<td>Economic and Supply Chain Freezing</td>
<td></td>
</tr>
<tr>
<td>1.5.1</td>
<td>Export-oriented region?</td>
<td>yes=0, no=1</td>
</tr>
<tr>
<td>1.5.2</td>
<td>Does the region have an absence of large supply shortages?</td>
<td>yes=0, no=1</td>
</tr>
<tr>
<td>1.5.3</td>
<td>Are the region’s border-crossing routes open?</td>
<td>yes=0, no=1</td>
</tr>
<tr>
<td>1.5.4</td>
<td>Does the region have a high availability of food?</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>1.5.5</td>
<td>Are there any shortages in protective equipment?</td>
<td>yes=0, no=1</td>
</tr>
<tr>
<td>1.6</td>
<td>Travel Restrictions</td>
<td></td>
</tr>
<tr>
<td>1.6.1</td>
<td>Quantity of automotive vehicles.</td>
<td>number per 1000 people</td>
</tr>
<tr>
<td>1.6.2</td>
<td>Did the region allow for direct flights to Italy or China in February - March 2020?</td>
<td>yes=0, no=1</td>
</tr>
<tr>
<td>1.6.3</td>
<td>Average level of touristic flow.</td>
<td>number of tourists per year</td>
</tr>
</tbody>
</table>
## COVID-19 Regional Safety Index: Tier-1 Parameters

<table>
<thead>
<tr>
<th>2</th>
<th>COVID-19 Government Efficiency of Risk Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1</td>
<td>Level of Security and Defense Advancement</td>
</tr>
<tr>
<td>2.1.1</td>
<td>Does the region’s military have dedicated laboratories for protection against chemical and biological warfare?</td>
</tr>
<tr>
<td>2.1.2</td>
<td>Does the region’s military have pre-existing plans and policies in place in the event of a biological or chemical attack?</td>
</tr>
<tr>
<td>2.2</td>
<td>Level of GovTech Development</td>
</tr>
<tr>
<td>2.2.1</td>
<td>Does the region have COVID-specific training courses for doctors and nurses?</td>
</tr>
<tr>
<td>2.2.2</td>
<td>Rural population</td>
</tr>
<tr>
<td>2.2.3</td>
<td>Local vaccine development (attempts).</td>
</tr>
<tr>
<td>2.3</td>
<td>The Efficiency of Government Structure</td>
</tr>
<tr>
<td>2.3.1</td>
<td>Did the region’s government develop a specific emergency response mechanism for engagement with the private sector?</td>
</tr>
<tr>
<td>2.3.2</td>
<td>Are there government-startups cooperation?</td>
</tr>
<tr>
<td>2.3.3</td>
<td>Government effectiveness (EIU score).</td>
</tr>
<tr>
<td>2.3.4</td>
<td>E-Government Development Index</td>
</tr>
<tr>
<td>2.3.5</td>
<td>Number of internet users per 1000 individuals.</td>
</tr>
<tr>
<td>2.3.6</td>
<td>Smartphone penetration.</td>
</tr>
<tr>
<td>2.3.7</td>
<td>Does the region utilize Electronic Health Records?</td>
</tr>
</tbody>
</table>
# COVID-19 Regional Safety Index: Tier-1 Parameters

<table>
<thead>
<tr>
<th>2.3.8</th>
<th>Regional Corruption Index Score.</th>
<th>Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.4</td>
<td>Economic Sustainability</td>
<td></td>
</tr>
<tr>
<td>2.4.1</td>
<td>Regional economic debt.</td>
<td>% of GDP</td>
</tr>
<tr>
<td>2.4.3</td>
<td>GDP index.</td>
<td>GDP index score</td>
</tr>
<tr>
<td>2.4.4</td>
<td>GNI index.</td>
<td>GNI index score</td>
</tr>
<tr>
<td>2.4.5</td>
<td>Minimum wages.</td>
<td>in USD</td>
</tr>
<tr>
<td>2.4.6</td>
<td>Unemployment rate due to COVID19.</td>
<td>% of population</td>
</tr>
<tr>
<td>2.4.7</td>
<td>Exit strategy plan.</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>2.5</td>
<td>Legislative Efficiency</td>
<td></td>
</tr>
<tr>
<td>2.5.1</td>
<td>Does the region’s government have a pre-existing Action Plan for rapid resource mobilization in the event of a national emergency?</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>2.5.2</td>
<td>Legislations and regulations for the cross-border screening of pathogens, toxic, pandemic potential pathogens.</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>2.5.3</td>
<td>Legislative availability for disaster mobilization.</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>2.5.4</td>
<td>State capability to adopt new surveillance laws.</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>2.6</td>
<td>Political Stability</td>
<td></td>
</tr>
<tr>
<td>2.6.1</td>
<td>State of emergency readiness</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>2.6.2</td>
<td>Functioning of Government (Index)</td>
<td>HDI Index</td>
</tr>
<tr>
<td>2.6.3</td>
<td>Civil Liberties (Index)</td>
<td>HDI Index</td>
</tr>
</tbody>
</table>
### COVID-19 Monitoring and Detection

#### 3.1 Monitoring Systems & Disaster Management

<table>
<thead>
<tr>
<th>3.1.1</th>
<th>Does the region’s government use event-based surveillance for infection disease?</th>
<th>yes=1, no=0</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1.2</td>
<td>Does the region’s government share its surveillance data with the neighboring regions?</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>3.1.3</td>
<td>Does the region’s government have an existing Action Plan in place for the surveillance and detection of viral outbreaks and disease?</td>
<td>yes=1, no=0</td>
</tr>
</tbody>
</table>

#### 3.2 Scope of Diagnostic Methods

<table>
<thead>
<tr>
<th>3.2.1</th>
<th>Does the region have validated laboratory testing methods available?</th>
<th>yes=1, no=0</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.2.2</td>
<td>Does the region have laboratories with molecular diagnostic capacity available?</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>3.2.3</td>
<td>Does the region use online diagnostic tools?</td>
<td>yes=1, no=0</td>
</tr>
</tbody>
</table>

#### 3.3 Testing Efficiency

<table>
<thead>
<tr>
<th>3.3.1</th>
<th>Number of COVID-19 tests conducted per day.</th>
<th>Numeric</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.3.2</td>
<td>Are mobile diagnostic stations available for use in the region?</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>3.3.3</td>
<td>Does the region have a significant shortage of COVID-19 tests?</td>
<td>yes=0, no=1</td>
</tr>
<tr>
<td>3.3.4</td>
<td>Does the region use local production of COVID-19 tests?</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>3.3.5</td>
<td>Does the region have national laboratories available for COVID-19 testing?</td>
<td>yes=1, no=0</td>
</tr>
</tbody>
</table>

#### 3.4 AI for Diagnostics and Prognostics

<p>| 3.4.1 | Are there AI/ML healthcare initiatives related to COVID-19? | yes=1, no=0 |</p>
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.4.2</td>
<td>Are there AI startups that create solutions to fight Covid-19?</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>3.4.3</td>
<td>Does the region employ AI technologies and techniques in hospitals?</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>3.5</td>
<td>Government Surveillance Technology for Monitoring</td>
<td></td>
</tr>
<tr>
<td>3.5.1</td>
<td>Per capita quantity of surveillance cameras.</td>
<td>per 1000 people / approximate</td>
</tr>
<tr>
<td>3.5.2</td>
<td>Does the region’s government routinely use face-recognition technology for surveillance?</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>3.5.3</td>
<td>Does the region’s government use mobile tracking (tracking of population’s mobile phones) in its surveillance practices?</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>3.5.4</td>
<td>Does the region’s government utilize other AI-based surveillance methods?</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>3.6</td>
<td>Reliability and Transparency of Data</td>
<td></td>
</tr>
<tr>
<td>3.6.1</td>
<td>Does the region have a publicly-available National Plan for COVID-19?</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>3.6.2</td>
<td>Does the region’s governments conduct daily briefings on the current status of the pandemic?</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>3.6.3</td>
<td>Does the region have an established agency or Action Group responsible for COVID-19 prevention and treatment?</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>3.6.4</td>
<td>Does the region conduct centralized collection of COVID-19 data?</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>3.6.5</td>
<td>Does the Ministry of Health provide data on confirmed COVID-19 cases among healthcare workers?</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>3.6.6</td>
<td>Does the Ministry of Health provide data on confirmed COVID-19 cases, critical cases and deaths on a daily basis?</td>
<td>yes=1, no=0</td>
</tr>
</tbody>
</table>
### COVID-19 Regional Safety Index: Tier-1 Parameters

<table>
<thead>
<tr>
<th></th>
<th>COVID-19 Healthcare Readiness</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td><strong>COVID-19 Equipment Availability</strong></td>
<td></td>
</tr>
<tr>
<td>4.1</td>
<td><strong>Quantity of Ventilator Stockpile.</strong></td>
<td></td>
</tr>
<tr>
<td>4.1.1</td>
<td></td>
<td>Numeric</td>
</tr>
<tr>
<td>4.1.2</td>
<td>Number of hospital beds</td>
<td>per 1000 people</td>
</tr>
<tr>
<td>4.1.3</td>
<td>Does the region have sufficient availability of PPE (masks and gloves)?</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>4.1.4</td>
<td>Does the region have sufficient availability of face shields?</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>4.2</td>
<td><strong>Mobilization of New Healthcare Resources</strong></td>
<td></td>
</tr>
<tr>
<td>4.2.1</td>
<td>Did the government request that medical students assist in COVID-19 patient treatment?</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>4.2.2</td>
<td>Does the region have the necessity and ability to build additional hospitals for COVID-19 treatment?</td>
<td>yes=0, no=1</td>
</tr>
<tr>
<td>4.2.3</td>
<td>Did the region use military mobile stations for chemical and bacteriological cleaning?</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>4.2.4</td>
<td>Does the region have the necessary infrastructure for surplus ventilator production?</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>4.2.5</td>
<td>Does the region have the necessary infrastructure for surplus mask production?</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>4.2.6</td>
<td>Does the region have the necessary infrastructure for the production of other surplus PPE?</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>4.3</td>
<td><strong>Quantity and Quality of Medical Staff</strong></td>
<td></td>
</tr>
<tr>
<td>4.3.1</td>
<td>Number of doctors.</td>
<td>per 1000 people</td>
</tr>
</tbody>
</table>
### COVID-19 Regional Safety Index: Tier-1 Parameters

<table>
<thead>
<tr>
<th>Section</th>
<th>Parameter</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.3.2</td>
<td>Number of nurses.</td>
<td>per 1000 people</td>
</tr>
<tr>
<td>4.3.3</td>
<td>Does the region have epidemiology faculty at the majority of their medical universities?</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>4.3.4</td>
<td>Are epidemiology classes available for medical students not specializing in epidemiology?</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>4.4</td>
<td>Level of Healthcare Progressiveness</td>
<td></td>
</tr>
<tr>
<td>4.4.1</td>
<td>Does the region have evidence of recent healthcare advancements?</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>4.4.2</td>
<td>Healthcare Development Index score.</td>
<td>Index</td>
</tr>
<tr>
<td>4.4.3</td>
<td>Current health expenditure per capita.</td>
<td>in USD</td>
</tr>
<tr>
<td>4.4.4</td>
<td>Current health expenditure.</td>
<td>as % of GDP</td>
</tr>
<tr>
<td>4.4.5</td>
<td>HAQ (The Healthcare Access and Quality Index) - 2016.</td>
<td>Index</td>
</tr>
<tr>
<td>4.4.6</td>
<td>Pharmaceuticals spending per capita.</td>
<td>in USD</td>
</tr>
<tr>
<td>4.5</td>
<td>Level of Technological Advancement</td>
<td></td>
</tr>
<tr>
<td>4.5.1</td>
<td>MRI number.</td>
<td>per million people</td>
</tr>
<tr>
<td>4.5.2</td>
<td>Quantity of ICU-CCB beds.</td>
<td>per 100,000 people</td>
</tr>
<tr>
<td>4.6</td>
<td>Epidemiology System Level of Development</td>
<td></td>
</tr>
<tr>
<td>4.6.1</td>
<td>Global Health Security Index</td>
<td>GHS index score</td>
</tr>
</tbody>
</table>
### COVID-19 Regional Safety Index: Tier-1 Parameters

<table>
<thead>
<tr>
<th></th>
<th>COVID-19 Region Vulnerability</th>
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<tbody>
<tr>
<td>5</td>
<td>Infection Spread Risk</td>
</tr>
<tr>
<td>5.1</td>
<td>Container port traffic.</td>
</tr>
<tr>
<td>5.1.1</td>
<td>TEU: 20 foot equivalent units</td>
</tr>
<tr>
<td>5.1.2</td>
<td>Average number of international arrivals (incoming tourists) per year.</td>
</tr>
<tr>
<td>5.1.3</td>
<td>Total transportation network size.</td>
</tr>
<tr>
<td>5.1.4</td>
<td>Does the region have a significant risk of power shortages?</td>
</tr>
<tr>
<td>5.1.5</td>
<td>Does the region have a significant risk of medication shortages?</td>
</tr>
<tr>
<td>5.2</td>
<td>Culture Specifics and Societal Discipline</td>
</tr>
<tr>
<td>5.2.1</td>
<td>Literacy rate.</td>
</tr>
<tr>
<td>5.2.2</td>
<td>Proportion of population with tertiary education.</td>
</tr>
<tr>
<td>5.2.3</td>
<td>Poverty rate.</td>
</tr>
<tr>
<td>5.2.4</td>
<td>Does the region have religious or cultural practices that increase chances of infection risk or quarantine non-compliance?</td>
</tr>
<tr>
<td>5.2.5</td>
<td>Human Development Index 2016.</td>
</tr>
<tr>
<td>5.3</td>
<td>Level of Modern Sanitization Methods</td>
</tr>
<tr>
<td>5.3.1</td>
<td>Does the region have access to basic sanitation facilities?</td>
</tr>
<tr>
<td>5.4</td>
<td>Diseases</td>
</tr>
<tr>
<td>5.4.1</td>
<td>Prevalence of diabetes.</td>
</tr>
</tbody>
</table>

For further details on each parameter, please refer to the document.
### COVID-19 Regional Safety Index: Tier-1 Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
<th>Unit</th>
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<tbody>
<tr>
<td>5.4.2</td>
<td>Death rate due to endocrine disorder.</td>
<td>per 100,000 people</td>
</tr>
<tr>
<td>5.4.4</td>
<td>Incidence of tuberculosis.</td>
<td>per 100,000 people</td>
</tr>
<tr>
<td>5.4.5</td>
<td>Incidence of cancer.</td>
<td>per 100,000 people</td>
</tr>
<tr>
<td>5.4.6</td>
<td>Obesity</td>
<td>% of total population</td>
</tr>
<tr>
<td>5.5.1</td>
<td>Size of Elderly Population.</td>
<td>% of total population</td>
</tr>
<tr>
<td>5.6.1</td>
<td>Is the region currently experiencing a political or election-based crisis?</td>
<td>yes=0, no=1</td>
</tr>
<tr>
<td>5.6.2</td>
<td>Is there a majoritively positive public sentiment regarding government COVID-19 strategy?</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>5.6.3</td>
<td>Does the majority of the region’s population support the current government?</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>5.6.4</td>
<td>Does the region’s government take into account diaspora as a factor in formulating its COVID-19 strategy?</td>
<td>yes=1, no=0</td>
</tr>
<tr>
<td>5.6.5</td>
<td>Does the region’s government experience significant foreign pressure affecting its COVID-19 strategic decision making?</td>
<td>yes=0, no=1</td>
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## COVID-19 Regional Safety Index: Tier-1 Proprietary Parameters

<table>
<thead>
<tr>
<th>Section</th>
<th>Metric</th>
<th>Note</th>
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</thead>
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<tr>
<td>6.1 Societal Emergency Resilience</td>
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<tr>
<td></td>
<td>Proprietary metric #2</td>
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</tr>
<tr>
<td></td>
<td>Proprietary metric #3</td>
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<tr>
<td></td>
<td>Proprietary metric #4</td>
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</tr>
<tr>
<td>6.2 Emergency Military Mobilization Experience</td>
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<tr>
<td></td>
<td>Proprietary metric #2</td>
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</tr>
<tr>
<td></td>
<td>Proprietary metric #3</td>
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<tr>
<td>6.3 Surveillance Capabilities (Scale, Scope and Technological Sophistication)</td>
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<td></td>
<td>Proprietary metric #2</td>
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</tr>
<tr>
<td></td>
<td>Proprietary metric #3</td>
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<tr>
<td>6.4 Previous National Emergency Experience</td>
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<tr>
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<tr>
<td></td>
<td>Proprietary metric #3</td>
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</table>
Switzerland: #1 Region by COVID-19 Safety Ranking

Tier 1 Countries & Regions
June 3, 2020

COVID-19 Quarantine Efficiency
Weight 2.2  Category Score 65.26
- Scale of Quarantine: 15.36
- Quarantine Timeline: 10.63
- Criminal Penalties for Violating Quarantine: 6.42
- Economic Support for Quarantined Citizens: 10.44
- Economic and Supply Chain Freezing: 12.40
- Travel Restrictions: 10.01

COVID-19 Healthcare Readiness
Weight 1.3  Category Score 77.75
- COVID-19 Equipment Availability: 17.10
- Mobilization of New Healthcare Resources: 14.58
- Quantity and Quality of Medical Staff: 12.03
- Level of Healthcare Progressiveness: 12.42
- Level of Technological Advancement: 11.75
- Epidemiology System Level of Development: 9.87

COVID-19 Government Efficiency of Risk Management
Weight 2.2  Category Score 85.56
- Level of Security and Defense Advancement: 17.00
- Rapid Emergency Mobilization: 14.29
- Efficiency of Government Structure: 14.65
- Economic Sustainability: 12.47
- Legislative Efficiency: 12.00
- Political Stability: 15.15

COVID-19 Regional Resiliency
Weight 1.3  Category Score 71.66
- Infection Spread Risk: 11.09
- Culture Specifics and Societal Discipline: 15.15
- Level of Modern Sanitization Methods: 14.94
- Demography: 4.02
- Chronic Diseases: 9.91
- Societal Risks: 17.00

COVID-19 Monitoring and Detection
Weight 1.5  Category Score 87.67
- Monitoring Systems and Disaster Management: 18.00
- Scope of Diagnostic Methods: 15.00
- Testing Efficiency: 13.45
- AI for Diagnostics and Prognostics: 15.00
- Government Surveillance Technology for Monitoring: 9.18
- Reliability and Transparency of Data: 17.00

COVID-19 Emergency Preparedness
Weight 1.5  Category Score 63.04
- Societal Emergency Resilience: 23.63
- Emergency Military Mobilization Experience: 7.67
- Surveillance Capabilities (Scale, Scope and Technological Sophistication): 20.25
- Previous National Emergency Experience: 11.50
## Germany: #2 Region by COVID-19 Safety Ranking

### Tier 1 Countries & Regions 
June 3, 2020

<table>
<thead>
<tr>
<th>Category</th>
<th>Score</th>
<th>Weight</th>
<th>2020 Rank</th>
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<tbody>
<tr>
<td><strong>COVID-19 Quarantine Efficiency</strong></td>
<td>78.82</td>
<td>2.2</td>
<td>2020 Rank</td>
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<tr>
<td><strong>COVID-19 Healthcare Readiness</strong></td>
<td>91.97</td>
<td>1.3</td>
<td>2020 Rank</td>
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<tr>
<td><strong>COVID-19 Regional Resiliency</strong></td>
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<td>1.3</td>
<td>2020 Rank</td>
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<tr>
<td><strong>COVID-19 Monitoring and Detection</strong></td>
<td>88.13</td>
<td>2.2</td>
<td>2020 Rank</td>
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### COVID-19 Quarantine Efficiency
- **Weight 2.2**
- Category Score: 78.82

<table>
<thead>
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<th>Points</th>
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<tbody>
<tr>
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<tr>
<td>Quarantine Timeline</td>
<td>4.25</td>
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<tr>
<td>Criminal Penalties for Violating Quarantine</td>
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<tr>
<td>Economic Support for Quarantied Citizens</td>
<td>13.02</td>
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<tr>
<td>Economic and Supply Chain Freezing</td>
<td>9.30</td>
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<tr>
<td>Travel Restrictions</td>
<td>6.12</td>
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### COVID-19 Healthcare Readiness
- **Weight 1.3**
- Category Score: 91.97

<table>
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<tr>
<th>Subcategory</th>
<th>Points</th>
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<tbody>
<tr>
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</tr>
<tr>
<td>Mobilization of New Healthcare Resources</td>
<td>17.50</td>
</tr>
<tr>
<td>Quantity and Quality of Medical Staff</td>
<td>14.99</td>
</tr>
<tr>
<td>Level of Healthcare Progressiveness</td>
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<tr>
<td>Level of Technological Advancement</td>
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<td>Epidemiology System Level of Development</td>
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### COVID-19 Regional Resiliency
- **Weight 1.3**
- Category Score: 81.10

<table>
<thead>
<tr>
<th>Subcategory</th>
<th>Points</th>
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<tbody>
<tr>
<td>Infection Spread Risk</td>
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<tr>
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</tr>
<tr>
<td>Level of Modern Sanitization Methods</td>
<td>15.00</td>
</tr>
<tr>
<td>Demography</td>
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<tr>
<td>Chronic Diseases</td>
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<tr>
<td>Societal Risks</td>
<td>13.60</td>
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</table>

### COVID-19 Monitoring and Detection
- **Weight 2.2**
- Category Score: 88.13

<table>
<thead>
<tr>
<th>Subcategory</th>
<th>Points</th>
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<tr>
<td>Scope of Diagnostic Methods</td>
<td>15.00</td>
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<tr>
<td>Testing Efficiency</td>
<td>13.37</td>
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<tr>
<td>AI for Diagnostics and Prognostics</td>
<td>13.60</td>
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<tr>
<td>Government Surveillance Technology for Monitoring</td>
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<tr>
<td>Reliability and Transparency of Data</td>
<td>17.00</td>
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</table>

### COVID-19 Government Efficiency of Risk Management
- **Weight 2.2**
- Category Score: 91.97

<table>
<thead>
<tr>
<th>Subcategory</th>
<th>Points</th>
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<tbody>
<tr>
<td>Level of Security and Defense Advancement</td>
<td>17.00</td>
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<tr>
<td>Rapid Emergency Mobilization</td>
<td>14.57</td>
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<tr>
<td>Efficiency of Government Structure</td>
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<tr>
<td>Economic Sustainability</td>
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<td>Legislative Efficiency</td>
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<td>Political Stability</td>
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### COVID-19 Monitoring and Detection
- **Weight 1.5**
- Category Score: 52.92

<table>
<thead>
<tr>
<th>Subcategory</th>
<th>Points</th>
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<tbody>
<tr>
<td>Societal Emergency Resilience</td>
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</tr>
<tr>
<td>Emergency Military Mobilization Experience</td>
<td>7.67</td>
</tr>
<tr>
<td>Surveillance Capabilities (Scale, Scope and Technological Sophistication)</td>
<td>13.50</td>
</tr>
<tr>
<td>Previous National Emergency Experience</td>
<td>11.50</td>
</tr>
</tbody>
</table>
Israel: #3 Region by COVID-19 Safety Ranking

Tier 1 Countries & Regions June 3, 2020

COVID-19 Quarantine Efficiency
Weight 2.2 Category Score 57.98
- Scale of Quarantine 12.67
- Quarantine Timeline 10.63
- Criminal Penalties for Violating Quarantine 7.67
- Economic Support for Quarantined Citizens 6.30
- Economic and Supply Chain Freezing 12.4
- Travel Restrictions 8.30

COVID-19 Government Efficiency of Risk Management
Weight 2.2 Category Score 86.66
- Level of Security and Defense 17.00
- Rapid Emergency Mobilization 16.00
- Efficiency of Government Structure 13.69
- Economic Sustainability 11.31
- Legislative Efficiency 16.00
- Political Stability 12.66

COVID-19 Monitoring and Detection
Weight 1.5 Category Score 95.38
- Monitoring Systems and Disaster Management 18.00
- Scope of Diagnostic Methods 15.00
- Testing Efficiency 14.40
- AI for Diagnostics and Prognostics 15.00
- Government Surveillance Technology for Monitoring 15.98
- Reliability and Transparency of Data 17.00

COVID-19 Healthcare Readiness
Weight 1.3 Category Score 65.38
- COVID-19 Equipment Availability 11.12
- Mobilization of New Healthcare Resources 17.50
- Quantity and Quality of Medical Staff 11.38
- Level of Healthcare Progressiveness 9.67
- Level of Technological Advancement 7.90
- Epidemiology System Level of Development 7.80

COVID-19 Regional Resiliency
Weight 1.3 Category Score 68.46
- Infection Spread Risk 5.39
- Culture Specifics and Societal Discipline 17.11
- Level of Modern Sanitization Methods 15.00
- Demography 0.00
- Chronic Diseases 13.95
- Societal Risks 17.00

COVID-19 Emergency Preparedness
Weight 1.5 Category Score 75.43
- Societal Emergency Resilience 21.60
- Emergency Military Mobilization Experience 15.33
- Surveillance Capabilities (Scale, Scope and Technological Sophistication) 27.00
- Previous National Emergency Experience 11.50

748 CUMULATIVE SCORE
Singapore: #4 Region by COVID-19 Safety Ranking

Tier 1 Countries & Regions

**COVID-19 Quarantine Efficiency**
Weight 2.2  Category Score 65.92
- Scale of Quarantine: 13.65
- Quarantine Timeline: 12.75
- Criminal Penalties for Violating Quarantine: 9.20
- Economic Support for Quarantined Citizens: 9.04
- Economic and Supply Chain Freezing: 15.50
- Travel Restrictions: 5.78

**COVID-19 Government Efficiency**
of Risk Management
Weight 2.2  Category Score 80.14
- Level of Security and Defense: 8.50
- Rapid Emergency Mobilization: 16.00
- Efficiency of Government Structure: 15.33
- Economic Sustainability: 11.02
- Legislative Efficiency: 16.00
- Political Stability: 13.29

**COVID-19 Monitoring and Detection**
Weight 1.5  Category Score 96.41
- Monitoring Systems and Disaster Management: 18.00
- Scope of Diagnostic Methods: 15.00
- Testing Efficiency: 16.45
- AI for Diagnostics and Prognostics: 15.00
- Government Surveillance Technology for Monitoring: 14.96
- Reliability and Transparency of Data: 17.00

**COVID-19 Healthcare Readiness**
Weight 1.3  Category Score 66.00
- COVID-19 Equipment Availability: 14.40
- Mobilization of New Healthcare Resources: 17.50
- Quantity and Quality of Medical Staff: 10.99
- Level of Healthcare Progressiveness: 6.91
- Level of Technological Advancement: 6.52
- Epidemiology System Level of Development: 9.69

**COVID-19 Regional Resiliency**
Weight 1.3  Category Score 78.21
- Infection Spread Risk: 12.78
- Culture Specifics and Societal Discipline: 16.46
- Level of Modern Sanitization Methods: 14.94
- Demography: 5.17
- Chronic Diseases: 11.87
- Societal Risks: 17.00

**COVID-19 Emergency Preparedness**
Weight 1.5  Category Score 60.58
- Societal Emergency Resilience: 20.25
- Emergency Military Mobilization Experience: 15.33
- Surveillance Capabilities (Scale, Scope and Technological Sophistication): 13.50
- Previous National Emergency Experience: 11.50

744 CUMULATIVE SCORE
Japan: #5 Region by COVID-19 Safety Ranking

Tier 1 Countries & Regions

June 3, 2020

COVID-19 Quarantine Efficiency
Weight 2.2  Category Score 57.62

- Scale of Quarantine: 17.81
- Quarantine Timeline: 10.63
- Criminal Penalties for Violating Quarantine: 4.47
- Economic Support for Quarantined Citizens: 8.16
- Economic and Supply Chain Freezing: 9.30
- Travel Restrictions: 7.18

COVID-19 Government Efficiency of Risk Management
Weight 2.2  Category Score 83.76

- Level of Security and Defense Advancement: 17.00
- Rapid Emergency Mobilization: 16.00
- Efficiency of Government Structure: 13.41
- Economic Sustainability: 10.93
- Legislative Efficiency: 12.00
- Political Stability: 14.42

COVID-19 Monitoring and Detection
Weight 1.5  Category Score 94.70

- Monitoring Systems and Disaster Management: 18.00
- Scope of Diagnostic Methods: 15.00
- Testing Efficiency: 14.40
- AI for Diagnostics and Prognostics: 15.00
- Government Surveillance Technology for Monitoring: 15.30
- Reliability and Transparency of Data: 17.00

CUMULATIVE SCORE 738

COVID-19 Healthcare Readiness
Weight 1.3  Category Score 83.31

- COVID-19 Equipment Availability: 16.80
- Mobilization of New Healthcare Resources: 14.25
- Quantity and Quality of Medical Staff: 12.03
- Level of Healthcare Progressiveness: 13.62
- Level of Technological Advancement: 12.74
- Epidemiology System Level of Development: 13.87

COVID-19 Regional Resiliency
Weight 1.3  Category Score 65.62

- Infection Spread Risk: 5.39
- Culture Specifics and Societal Discipline: 13.11
- Level of Modern Sanitization Methods: 15.00
- Demography: 5.20
- Chronic Diseases: 13.92
- Societal Risks: 13.00

COVID-19 Emergency Preparedness
Weight 1.5  Category Score 60.58

- Societal Emergency Resilience: 20.25
- Emergency Military Mobilization Experience: 15.33
- Surveillance Capabilities (Scale, Scope and Technological Sophistication): 13.50
- Previous National Emergency Experience: 11.50
Austria: #6 Region by COVID-19 Safety Ranking

**COVID-19 Quarantine Efficiency**
- Weight 2.2
- Category Score 55.62
  - Scale of Quarantine: 16.64
  - Quarantine Timeline: 5.67
  - Criminal Penalties for Violating Quarantine: 7.18
  - Economic Support for Quarantined Citizens: 6.86
  - Economic and Supply Chain Freezing: 12.40
  - Travel Restrictions: 6.87

**COVID-19 Government Efficiency of Risk Management**
- Weight 2.2
- Category Score 85.52
  - Level of Security and Defense: 17.00
  - Rapid Emergency Mobilization: 12.76
  - Efficiency of Government Structure: 13.95
  - Economic Sustainability: 11.57
  - Legislative Efficiency: 16.00
  - Political Stability: 14.23

**COVID-19 Monitoring and Detection**
- Weight 1.5
- Category Score 81.16
  - Monitoring Systems and Disaster Management: 18.00
  - Scope of Diagnostic Methods: 15.00
  - Testing Efficiency: 13.32
  - AI for Diagnostics and Prognostics: 15.00
  - Government Surveillance Technology for Monitoring: 8.50
  - Reliability and Transparency of Data: 11.33

**COVID-19 Healthcare Readiness**
- Weight 1.3
- Category Score 68.26
  - COVID-19 Equipment Availability: 11.82
  - Mobilization of New Healthcare Resources: 17.50
  - Quantity and Quality of Medical Staff: 13.81
  - Level of Healthcare Progressiveness: 11.88
  - Level of Technological Advancement: 3.59
  - Epidemiology System Level of Development: 9.65

**COVID-19 Regional Resiliency**
- Weight 1.3
- Category Score 73.50
  - Infection Spread Risk: 11.61
  - Culture Specifics and Societal Discipline: 15.36
  - Level of Modern Sanitization Methods: 15.00
  - Demography: 5.17
  - Chronic Diseases: 9.37
  - Political Risks: 17.00

**COVID-19 Emergency Preparedness**
- Weight 1.5
- Category Score 73.17
  - Societal Emergency Resilience: 27.00
  - Emergency Military Mobilization Experience: 7.67
  - Surveillance Capabilities (Scale, Scope and Technological Sophistication): 27.00
  - Previous National Emergency Experience: 11.50

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**Austria: #6 Region by COVID-19 Safety Ranking**

Tier 1 Countries & Regions
June 3, 2020
China: #7 Region by COVID-19 Safety Ranking

Tier 1 Countries & Regions June 3, 2020

COVID-19 Quarantine Efficiency
Weight 2.2 Category Score 54.63
- Scale of Quarantine 17.91
- Quarantine Timeline 5.67
- Criminal Penalties for Violating Quarantine 8.86
- Economic Support for Quarantined Citizens 5.59
- Economic and Supply Chain Freezing 15.50
- Travel Restrictions 1.10

COVID-19 Government Efficiency of Risk Management
Weight 2.2 Category Score 78.02
- Level of Security and Defense 17.00
- Rapid Emergency Mobilization 12.86
- Efficiency of Government Structure 12.94
- Economic Sustainability 10.97
- Legislative Efficiency 16.00
- Political Stability 8.25

COVID-19 Monitoring and Detection
Weight 1.5 Category Score 88.33
- Monitoring Systems and Disaster Management 12.00
- Scope of Diagnostic Methods 15.00
- Testing Efficiency 18.00
- AI for Diagnostics and Prognostics 15.00
- Government Surveillance Technology for Monitoring 17.00
- Reliability and Transparency of Data 11.33

COVID-19 Healthcare Readiness
Weight 1.3 Category Score 61.53
- COVID-19 Equipment Availability 10.50
- Mobilization of New Healthcare Resources 17.50
- Quality and Quantity of Medical Staff 9.44
- Level of Healthcare Progressiveness 8.42
- Level of Technological Advancement 8.14
- Epidemiology System Level of Development 7.54

COVID-19 Regional Resiliency
Weight 1.3 Category Score 56.68
- Infection Spread Risk 9.90
- Culture Specifics and Societal Discipline 9.80
- Level of Modern Sanitization Methods 0.00
- Demography 9.76
- Chronic Diseases 10.22
- Political Risks 17.00

COVID-19 Emergency Preparedness
Weight 1.5 Category Score 92.33
- Societal Emergency Resilience 27.00
- Emergency Military Mobilization Experience 15.33
- Surveillance Capabilities (Scale, Scope and Technological Sophistication) 27.00
- Previous National Emergency Experience 23.00

CUMULATIVE SCORE 717

China: #7 Region by COVID-19 Safety Ranking

Tier 1 Countries & Regions June 3, 2020
Australia: #8 Region by COVID-19 Safety Ranking

Tier 1 Countries & Regions June 3, 2020

COVID-19 Quarantine Efficiency
Weight 2.2 Category Score 59.59

- Scale of Quarantine: 16.51
- Quarantine Timeline: 5.67
- Criminal Penalties for Violating Quarantine: 7.59
- Economic Support for Quarantined Citizens: 7.20
- Economic and Supply Chain Freezing: 12.40
- Travel Restrictions: 10.21

131 POINTS

COVID-19 Government Efficiency of Risk Management
Weight 2.2 Category Score 82.21

- Level of Security and Defense: 17.00
- Rapid Emergency Mobilization: 15.43
- Efficiency of Government Structure: 14.50
- Economic Sustainability: 7.85
- Legislative Efficiency: 12.00
- Political Stability: 15.43

181 POINTS

COVID-19 Monitoring and Detection
Weight 1.5 Category Score 77.03

- Monitoring Systems and Disaster Management: 18.00
- Scope of Diagnostic Methods: 15.00
- Testing Efficiency: 9.20
- AI for Diagnostics and Prognostics: 15.00
- Government Surveillance Technology for Monitoring: 8.50
- Reliability and Transparency of Data: 11.33

116 POINTS

COVID-19 Healthcare Readiness
Weight 1.3 Category Score 62.18

- COVID-19 Equipment Availability: 10.47
- Mobilization of New Healthcare Resources: 14.58
- Quantity and Quality of Medical Staff: 13.41
- Level of Healthcare Progressiveness: 9.29
- Level of Technological Advancement: 1.96
- Epidemiology System Level of Development: 12.46

81 POINTS

COVID-19 Regional Resiliency
Weight 1.3 Category Score 68.70

- Infection Spread Risk: 9.09
- Culture Specifics and Societal Discipline: 16.61
- Level of Modern Sanitization Methods: 15.00
- Demography: 6.89
- Chronic Diseases: 7.51
- Political Risks: 13.60

89 POINTS

COVID-19 Emergency Preparedness
Weight 1.5 Category Score 78.83

- Societal Emergency Resilience: 20.25
- Emergency Military Mobilization Experience: 15.33
- Surveillance Capabilities (Scale, Scope and Technological Sophistication): 20.25
- Previous National Emergency Experience: 23.00

118 POINTS

CUMULATIVE SCORE 716
South Korea: #10 Region by COVID-19 Safety Ranking

COVID-19 Quarantine Efficiency
Weight 2.2 Category Score 53.82
- Scale of Quarantine 15.10
- Quarantine Timeline 00.00
- Criminal Penalties for Violating Quarantine 8.00
- Economic Support for Quarantined Citizens 7.39
- Economic and Supply Chain Freezing 15.50
- Travel Restrictions 7.83

COVID-19 Government Efficiency of Risk Management
Weight 2.2 Category Score 79.88
- Level of Security and Defense 17.00
- Rapid Emergency Mobilization 14.95
- Efficiency of Government Structure 14.42
- Economic Sustainability 11.59
- Legislative Efficiency 8.00
- Political Stability 13.92

COVID-19 Monitoring and Detection
Weight 1.5 Category Score 88.85
- Monitoring Systems and Disaster Management 18.00
- Scope of Diagnostic Methods 15.00
- Testing Efficiency 15.35
- AI for Diagnostics and Prognostics 15.00
- Government Surveillance Technology for Monitoring 14.17
- Reliability and Transparency of Data 11.33

COVID-19 Healthcare Readiness
Weight 1.3 Category Score 64.92
- COVID-19 Equipment Availability 14.33
- Mobilization of New Healthcare Resources 11.67
- Quantity and Quality of Medical Staff 11.04
- Level of Healthcare Progressiveness 8.76
- Level of Technological Advancement 9.25
- Epidemiology System Level of Development 9.87

COVID-19 Regional Resiliency
Weight 1.3 Category Score 68.28
- Infection Spread Risk 12.90
- Culture Specifics and Societal Discipline 13.20
- Level of Modern Sanitization Methods 15.00
- Demography 8.04
- Chronic Diseases 8.94
- Political Risks 10.20

COVID-19 Emergency Preparedness
Weight 1.5 Category Score 74.08
- Societal Emergency Resilience 20.25
- Emergency Military Mobilization Experience 15.33
- Surveillance Capabilities (Scale, Scope and Technological Sophistication) 27.00
- Previous National Emergency Experience 11.50

CUMULATIVE SCORE
712

Tier 1 Countries & Regions June 3, 2020
United Arab Emirates: #11 Region by COVID-19 Safety Ranking

Tier 1 Countries & Regions

June 3, 2020

COVID-19 Quarantine Efficiency
Weight 2.2
Category Score 54.59

- Scale of Quarantine: 15.75
- Quarantine Timeline: 5.67
- Criminal Penalties for Violating Quarantine: 4.98
- Economic Support for Quarantined Citizens: 7.11
- Economic and Supply Chain Freezing: 15.50
- Travel Restrictions: 5.57

COVID-19 Healthcare Readiness
Weight 1.3
Category Score 53.88

- COVID-19 Equipment Availability: 9.00
- Mobilization of New Healthcare Resources: 17.50
- Quantity and Quality of Medical Staff: 10.73
- Level of Healthcare Progressiveness: 7.25
- Level of Technological Advancement: 1.70
- Epidemiology System Level of Development: 7.71

COVID-19 Government Efficiency of Risk Management
Weight 2.2
Category Score 65.22

- Level of Security and Defense Advancement: 17.00
- Rapid Emergency Mobilization: 4.86
- Efficiency of Government Structure: 14.35
- Economic Sustainability: 8.16
- Legislative Efficiency: 12.00
- Political Stability: 8.84

COVID-19 Monitoring and Detection
Weight 1.5
Category Score 95.10

- Monitoring Systems and Disaster Management: 18.00
- Scope of Diagnostic Methods: 15.00
- Testing Efficiency: 25.00
- AI for Diagnostics and Prognostics: 15.00
- Government Surveillance Technology for Monitoring: 13.60
- Reliability and Transparency of Data: 8.50

COVID-19 Regional Resiliency
Weight 1.3
Category Score 78.83

- Infection Spread Risk: 12.49
- Culture Specifics and Societal Discipline: 10.09
- Level of Modern Sanitization Methods: 13.47
- Demography: 15.50
- Chronic Diseases: 10.27
- Political Risks: 17.00

COVID-19 Emergency Preparedness
Weight 1.5
Category Score 80.83

- Societal Emergency Resilience: 27.00
- Emergency Military Mobilization Experience: 15.33
- Surveillance Capabilities (Scale, Scope and Technological Sophistication): 27.00
- Previous National Emergency Experience: 11.50
Canada: #12 Region by COVID-19 Safety Ranking

Tier 1 Countries & Regions
June 3, 2020

COVID-19 Quarantine Efficiency
Weight 2.2  Category Score 58.92
- Scale of Quarantine 15.67
- Quarantine Timeline 5.67
- Criminal Penalties for Violating Quarantine 10.54
- Economic Support for Quarantined Citizens 5.92
- Economic and Supply Chain Freezing 12.40
- Travel Restrictions 8.73

COVID-19 Government Efficiency
of Risk Management
Weight 2.2  Category Score 78.02
- Level of Security and Defense Advancement 17.00
- Rapid Emergency Mobilization 14.95
- Efficiency of Government Structure 14.04
- Economic Sustainability 8.38
- Legislative Efficiency 8.00
- Political Stability 15.65

COVID-19 Monitoring and Detection
Weight 1.5  Category Score 88.96
- Monitoring Systems and Disaster Management 18.00
- Scope of Diagnostic Methods 15.00
- Testing Efficiency 12.63
- AI for Diagnostics and Prognostics 15.00
- Government Surveillance Technology for Monitoring 17.00
- Reliability and Transparency of Data 11.33

COVID-19 Healthcare Readiness
Weight 1.3  Category Score 57.58
- COVID-19 Equipment Availability 9.87
- Mobilization of New Healthcare Resources 11.67
- Quantity and Quality of Medical Staff 11.86
- Level of Healthcare Progressiveness 9.95
- Level of Technological Advancement 1.81
- Epidemiology System Level of Development 12.42

COVID-19 Regional Resiliency
Weight 1.3  Category Score 69.25
- Infection Spread Risk 8.31
- Culture Specifics and Societal Discipline 17.72
- Level of Modern Sanitization Methods 14.87
- Demography 6.31
- Chronic Diseases 8.43
- Political Risks 13.60

COVID-19 Emergency Preparedness
Weight 1.5  Category Score 66.42
- Societal Emergency Resilience 20.25
- Emergency Military Mobilization Experience 7.67
- Surveillance Capabilities (Scale, Scope and Technological Sophistication) 27.00
- Previous National Emergency Experience 11.50

CUMULATIVE SCORE 699

Canada: #12 Region by COVID-19 Safety Ranking

Tier 1 Countries & Regions
June 3, 2020
Hong Kong: #13 Region by COVID-19 Safety Ranking

Tier 1 Countries & Regions
June 3, 2020

COVID-19 Quarantine Efficiency
Weight 2.2  Category Score 61.61
- Scale of Quarantine 10.54
- Quarantine Timeline 10.63
- Criminal Penalties for Violating Quarantine 9.75
- Economic Support for Quarantined Citizens 14.49
- Economic and Supply Chain Freezing 12.40
- Travel Restrictions 3.79

COVID-19 Government Efficiency of Risk Management
Weight 2.2  Category Score 75.40
- Level of Security and Defense Advancement 8.50
- Rapid Emergency Mobilization 16.00
- Efficiency of Government Structure 14.66
- Economic Sustainability 12.03
- Legislative Efficiency 12.00
- Political Stability 12.21

COVID-19 Monitoring and Detection
Weight 1.5  Category Score 88.84
- Monitoring Systems and Disaster Management 18.00
- Scope of Diagnostic Methods 15.00
- Testing Efficiency 12.51
- AI for Diagnostics and Prognostics 15.00
- Government Surveillance Technology for Monitoring 17.00
- Reliability and Transparency of Data 11.33

COVID-19 Healthcare Readiness
Weight 1.3  Category Score 53.45
- COVID-19 Equipment Availability 10.86
- Mobilization of New Healthcare Resources 14.58
- Quantity and Quality of Medical Staff 8.47
- Level of Healthcare Progressiveness 2.44
- Level of Technological Advancement 7.20
- Epidemiology System Level of Development 9.90

COVID-19 Regional Resiliency
Weight 1.3  Category Score 59.06
- Infection Spread Risk 12.06
- Culture Specifics and Societal Discipline 10.58
- Level of Modern Sanitization Methods 15.00
- Demography 6.31
- Chronic Diseases 4.91
- Political Risks 10.20

COVID-19 Emergency Preparedness
Weight 1.5  Category Score 77.92
- Societal Emergency Resilience 20.25
- Emergency Military Mobilization Experience 19.17
- Surveillance Capabilities (Scale, Scope and Technological Sophistication) 27.00
- Previous National Emergency Experience 11.50
Norway: #14 Region by COVID-19 Safety Ranking

**COVID-19 Quarantine Efficiency**
- Weight 2.2
- Category Score 58.07

1. Scale of Quarantine: 14.34 points
2. Quarantine Timeline: 5.67 points
3. Criminal Penalties for Violating Quarantine: 6.36 points
5. Economic and Supply Chain Freezing: 15.50 points
6. Travel Restrictions: 9.06 points

**COVID-19 Government Efficiency of Risk Management**
- Weight 2.2
- Category Score 82.20

1. Level of Security and Defense: 17.00 points
2. Rapid Emergency Mobilization: 4.38 points
4. Economic Sustainability: 14.37 points
5. Legislative Efficiency: 16.00 points
6. Political Stability: 15.65 points

**COVID-19 Monitoring and Detection**
- Weight 1.5
- Category Score 81.33

1. Monitoring Systems and Disaster Management: 18.00 points
2. Scope of Diagnostic Methods: 15.00 points
3. Testing Efficiency: 13.49 points
4. AI for Diagnostics and Prognostics: 15.00 points
5. Government Surveillance Technology for Monitoring: 8.50 points
6. Reliability and Transparency of Data: 11.33 points

**COVID-19 Healthcare Readiness**
- Weight 1.3
- Category Score 61.26

1. COVID-19 Equipment Availability: 10.33 points
3. Quantity and Quality of Medical Staff: 15.53 points
4. Level of Healthcare Progressiveness: 9.70 points
5. Level of Technological Advancement: 0.45 points
6. Epidemiology System Level of Development: 10.66 points

**COVID-19 Regional Resiliency**
- Weight 1.3
- Category Score 73.47

1. Infection Spread Risk: 9.74 points
2. Culture Specifics and Societal Discipline: 16.67 points
3. Level of Modern Sanitization Methods: 13.79 points
4. Demography: 6.31 points
5. Chronic Diseases: 9.96 points
6. Political Risks: 17.00 points

**COVID-19 Emergency Preparedness**
- Weight 1.5
- Category Score 52.92

1. Societal Emergency Resilience: 20.25 points
2. Emergency Military Mobilization Experience: 7.67 points
3. Surveillance Capabilities (Scale, Scope and Technological Sophistication): 13.50 points
4. Previous National Emergency Experience: 11.50 points

Tier 1 Countries & Regions
June 3, 2020
Denmark: #15 Region by COVID-19 Safety Ranking

Tier 1 Countries & Regions
June 3, 2020

COVID-19 Quarantine Efficiency
Weight 2.2
Category Score 62.41
- Scale of Quarantine: 16.82
- Quarantine Timeline: 5.67
- Criminal Penalties for Violating Quarantine: 7.52
- Economic Support for Quarantined Citizens: 9.07
- Economic and Supply Chain Freezing: 15.50
- Travel Restrictions: 7.83

COVID-19 Government Efficiency of Risk Management
Weight 2.2
Category Score 69.53
- Level of Security and Defense Advancement: 8.50
- Rapid Emergency Mobilization: 10.29
- Efficiency of Government Structure: 14.64
- Economic Sustainability: 11.62
- Legislative Efficiency: 12.00
- Political Stability: 12.49

COVID-19 Monitoring and Detection
Weight 1.5
Category Score 85.91
- Monitoring Systems and Disaster Management: 18.00
- Scope of Diagnostic Methods: 15.00
- Testing Efficiency: 13.83
- AI for Diagnostics and Prognostics: 15.00
- Government Surveillance Technology for Monitoring: 12.75
- Reliability and Transparency of Data: 11.33

COVID-19 Healthcare Readiness
Weight 1.3
Category Score 61.35
- COVID-19 Equipment Availability: 9.90
- Mobilization of New Healthcare Resources: 14.58
- Quantity and Quality of Medical Staff: 13.72
- Level of Healthcare Progressiveness: 11.15
- Level of Technological Advancement: 0.38
- Epidemiology System Level of Development: 11.62

COVID-19 Regional Resiliency
Weight 1.3
Category Score 71.09
- Infection Spread Risk: 9.37
- Culture Specifics and Societal Discipline: 16.00
- Level of Modern Sanitization Methods: 14.74
- Demography: 4.59
- Chronic Diseases: 9.39
- Political Risks: 17.00

COVID-19 Emergency Preparedness
Weight 1.5
Category Score 52.92
- Societal Emergency Resilience: 20.25
- Emergency Military Mobilization Experience: 7.67
- Surveillance Capabilities (Scale, Scope and Technological Sophistication): 13.50
- Previous National Emergency Experience: 11.50

671 CUMULATIVE SCORE
Taiwan: #16 Region by COVID-19 Safety Ranking

Tier 1 Countries & Regions

June 3, 2020

COVID-19 Quarantine Efficiency
Weight 2.2  Category Score 53.90

- Scale of Quarantine 15.20
- Quarantine Timeline 10.63
- Criminal Penalties for Violating Quarantine 4.40
- Economic Support for Quarantined Citizens 6.00
- Economic and Supply Chain Freezing 15.50
- Travel Restrictions 2.16

COVID-19 Government Efficiency of Risk Management
Weight 2.2  Category Score 78.97

- Level of Security and Defense 17.00
- Rapid Emergency Mobilization 14.76
- Efficiency of Government Structure 13.33
- Economic Sustainability 11.30
- Legislative Efficiency 8.00
- Political Stability 14.58

COVID-19 Monitoring and Detection
Weight 1.5  Category Score 83.85

- Monitoring Systems and Disaster Management 18.00
- Scope of Diagnostic Methods 15.00
- Testing Efficiency 10.91
- AI for Diagnostics and Prognostics 15.00
- Government Surveillance Technology for Monitoring 13.60
- Reliability and Transparency of Data 11.33

COVID-19 Healthcare Readiness
Weight 1.3  Category Score 52.44

- COVID-19 Equipment Availability 9.00
- Mobilization of New Healthcare Resources 11.67
- Quantity and Quality of Medical Staff 9.60
- Level of Healthcare Progressiveness 5.47
- Level of Technological Advancement 6.80
- Epidemiology System Level of Development 9.90

COVID-19 Regional Resiliency
Weight 1.3  Category Score 52.98

- Infection Spread Risk 9.87
- Culture Specifics and Societal Discipline 10.76
- Level of Modern Sanitization Methods 15.00
- Demography 0.00
- Chronic Diseases 0.35
- Political Risks 17.00

COVID-19 Emergency Preparedness
Weight 1.5  Category Score 74.08

- Societal Emergency Resilience 20.25
- Emergency Military Mobilization Experience 15.33
- Surveillance Capabilities (Scale, Scope and Technological Sophistication) 27.00
- Previous National Emergency Experience 11.50
Saudi Arabia: #17 Region by COVID-19 Safety Ranking

Tier 1 Countries & Regions June 3, 2020

**COVID-19 Quarantine Efficiency**
- Scale of Quarantine: 14.57
- Quarantine Timeline: 5.67
- Criminal Penalties for Violating Quarantine: 7.14
- Economic Support for Quarantined Citizens: 7.88
- Economic and Supply Chain Freezing: 15.50
- Travel Restrictions: 5.91

**COVID-19 Healthcare Readiness**
- COVID-19 Equipment Availability: 9.00
- Mobilization of New Healthcare Resources: 14.58
- Quantity and Quality of Medical Staff: 10.75
- Level of Healthcare Progressiveness: 5.58
- Level of Technological Advancement: 0.00
- Epidemiology System Level of Development: 0.00

**COVID-19 Government Efficiency of Risk Management**
- Level of Security and Defense: 17.00
- Rapid Emergency Mobilization: 9.90
- Efficiency of Government Structure: 10.47
- Economic Sustainability: 7.82
- Legislative Efficiency: 12.00
- Political Stability: 7.64

**COVID-19 Regional Resiliency**
- Infection Spread Risk: 12.56
- Culture Specifics and Societal Discipline: 11.77
- Level of Modern Sanitization Methods: 15.00
- Demography: 14.35
- Chronic Diseases: 10.70
- Political Risks: 17.00

**COVID-19 Monitoring and Detection**
- Monitoring Systems and Disaster Management: 18.00
- Scope of Diagnostic Methods: 15.00
- Testing Efficiency: 12.67
- AI for Diagnostics and Prognostics: 15.00
- Government Surveillance Technology for Monitoring: 8.50
- Reliability and Transparency of Data: 11.33

**COVID-19 Emergency Preparedness**
- Societal Emergency Resilience: 20.25
- Emergency Military Mobilization Experience: 15.33
- Surveillance Capabilities (Scale, Scope and Technological Sophistication): 27.00
- Previous National Emergency Experience: 11.50

**Cumulative Score**
- 657 POINTS
Hungary: #18 Region by COVID-19 Safety Ranking

**COVID-19 Quarantine Efficiency**
- Weight 2.2
- Category Score 57.01
  - Scale of Quarantine: 17.75
  - Quarantine Timeline: 5.67
  - Criminal Penalties for Violating Quarantine: 4.26
  - Economic Support for Quarantined Citizens: 7.05
  - Economic and Supply Chain Freezing: 15.50
  - Travel Restrictions: 6.78

**COVID-19 Government Efficiency of Risk Management**
- Weight 2.2
- Category Score 66.31
  - Level of Security and Defense: 17.00
  - Rapid Emergency Mobilization: 3.33
  - Efficiency of Government Structure: 12.52
  - Economic Sustainability: 9.12
  - Legislative Efficiency: 12.00
  - Political Stability: 12.34

**COVID-19 Monitoring and Detection**
- Weight 1.5
- Category Score 81.33
  - Monitoring Systems and Disaster Management: 18.00
  - Scope of Diagnostic Methods: 15.00
  - Testing Efficiency: 13.50
  - AI for Diagnostics and Prognostics: 15.00
  - Government Surveillance Technology for Monitoring: 8.50
  - Reliability and Transparency of Data: 11.33

**Total Cumulative Score**: 656

**Tier 1 Countries & Regions June 3, 2020**

**COVID-19 Healthcare Readiness**
- Weight 1.3
- Category Score 50.42
  - COVID-19 Equipment Availability: 11.83
  - Mobilization of New Healthcare Resources: 8.75
  - Quantity and Quality of Medical Staff: 11.69
  - Level of Healthcare Progressiveness: 7.97
  - Level of Technological Advancement: 1.26
  - Epidemiology System Level of Development: 8.91

**COVID-19 Regional Resiliency**
- Weight 1.3
- Category Score 59.14
  - Infection Spread Risk: 5.68
  - Culture Specifics and Societal Discipline: 10.79
  - Level of Modern Sanitization Methods: 13.72
  - Demography: 5.17
  - Chronic Diseases: 10.18
  - Political Risks: 13.60

**COVID-19 Emergency Preparedness**
- Weight 1.5
- Category Score 79.83
  - Societal Emergency Resilience: 27.00
  - Emergency Military Mobilization Experience: 15.33
  - Surveillance Capabilities (Scale, Scope and Technological Sophistication): 20.25
  - Previous National Emergency Experience: 17.25
The Netherlands: #19 Region by COVID-19 Safety Ranking

Tier 1 Countries & Regions June 3, 2020

COVID-19 Quarantine Efficiency
Weight 2.2  Category Score 57.96
- Scale of Quarantine: 14.87
- Quarantine Timeline: 5.67
- Criminal Penalties for Violating Quarantine: 8.22
- Economic Support for Quarantined Citizens: 6.13
- Economic and Supply Chain Freezing: 15.50
- Travel Restrictions: 7.58

COVID-19 Government Efficiency of Risk Management
Weight 2.2  Category Score 71.98
- Level of Security and Defense: 17.00
- Rapid Emergency Mobilization: 10.57
- Efficiency of Government Structure: 14.64
- Economic Sustainability: 6.62
- Legislative Efficiency: 8.00
- Political Stability: 15.15

COVID-19 Monitoring and Detection
Weight 1.5  Category Score 84.58
- Monitoring Systems and Disaster Management: 18.00
- Scope of Diagnostic Methods: 15.00
- Testing Efficiency: 8.24
- AI for Diagnostics and Prognostics: 15.00
- Government Surveillance Technology for Monitoring: 17.00
- Reliability and Transparency of Data: 11.33

COVID-19 Healthcare Readiness
Weight 1.3  Category Score 65.98
- COVID-19 Equipment Availability: 10.14
- Mobilization of New Healthcare Resources: 17.50
- Quantity and Quality of Medical Staff: 12.96
- Level of Healthcare Progressiveness: 11.20
- Level of Technological Advancement: 1.70
- Epidemiology System Level of Development: 12.47

COVID-19 Regional Resiliency
Weight 1.3  Category Score 60.70
- Infection Spread Risk: 5.88
- Culture Specifics and Societal Discipline: 12.21
- Level of Modern Sanitization Methods: 6.62
- Demography: 5.17
- Chronic Diseases: 10.31
- Political Risks: 13.60

COVID-19 Emergency Preparedness
Weight 1.5  Category Score 49.08
- Societal Emergency Resilience: 20.25
- Emergency Military Mobilization Experience: 13.50
- Surveillance Capabilities (Scale, Scope and Technological Sophistication): 4.63
- Previous National Emergency Experience: 11.50
Vietnam: #20 Region by COVID-19 Safety Ranking

Tier 1 Countries & Regions June 3, 2020

**COVID-19 Quarantine Efficiency**
- Weight 2.2
- Category Score 58.32
  - Scale of Quarantine
  - Quarantine Timeline
  - Criminal Penalties for Violating Quarantine
  - Economic Support for Quarantined Citizens
  - Economic and Supply Chain Freezing
  - Travel Restrictions

**COVID-19 Government Efficiency of Risk Management**
- Weight 2.2
- Category Score 67.71
  - Level of Security and Defense
  - Rapid Emergency Mobilization
  - Efficiency of Government Structure
  - Economic Sustainability
  - Legislative Efficiency
  - Political Stability

**COVID-19 Monitoring and Detection**
- Weight 1.5
- Category Score 82.35
  - Monitoring Systems and Disaster Management
  - Scope of Diagnostic Methods
  - Testing Efficiency
  - AI for Diagnostics and Prognostics
  - Government Surveillance Technology for Monitoring
  - Reliability and Transparency of Data

**COVID-19 Healthcare Readiness**
- Weight 1.3
- Category Score 48.79
  - COVID-19 Equipment Availability
  - Mobilization of New Healthcare Resources
  - Quantity and Quality of Medical Staff
  - Level of Healthcare Progressiveness
  - Level of Technological Advancement
  - Epidemiology System Level of Development

**COVID-19 Regional Resiliency**
- Weight 1.3
- Category Score 55.56
  - Infection Spread Risk
  - Culture Specifics and Societal Discipline
  - Level of Modern Sanitization Methods
  - Demography
  - Chronic Diseases
  - Political Risks

**COVID-19 Emergency Preparedness**
- Weight 1.5
- Category Score 67.33
  - Societal Emergency Resilience
  - Emergency Military Mobilization Experience
  - Surveillance Capabilities (Scale, Scope and Technological Sophistication)
  - Previous National Emergency Experience

**CUMULATIVE SCORE**
- 637
- 128 POINTS
- 63 POINTS
- 72 POINTS
- 124 POINTS
- 101 POINTS
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.

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Deep Knowledge is Transcendent Power

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