

COVID-19 Regional Safety Assessment



Tier-1 Methodology Framework


Safety Score 20 Most Safe Regions Tier-1



Tier-1

Regions COVID-19 Safety Ranking

#1		SWITZERLAND	752
#2		GERMANY	749
#3		ISRAEL	748
#4		SINGAPORE	744
#5		JAPAN	738
#6		AUSTRIA	726
#7		CHINA	717
#8		AUSTRALIA	716
#9		NEW ZEALAND	715
#10		SOUTH KOREA	712

#11		UNITED ARAB EMIRATES	700
#12		CANADA	699
#13		HONG KONG	698
#14		NORWAY	685
#15		DENMARK	671
#16		TAIWAN	667
#17		SAUDI ARABIA	657
#18		HUNGARY	656
#19		THE NETHERLANDS	651
#20		VIETNAM	637

COVID-19 Regional Safety Index: Tier-1 Methodology Framework

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

1	COVID-19 Quarantine Efficiency	
1.1	Scale of Quarantine	
1.1.1	Population Density	People per km ²
1.1.2	Does the region have dedicated military chemical and biological warfare divisions and forces?	yes=1, no=0
1.1.3	Does the region have “hotspots” (high density of cases in one specific area)?	yes=0, no=1
1.1.4	Number of cases.	per million individuals
1.1.5	Scale and scope of region-wide lockdown	full = 1, partial = 0.5 non-existing = 0
1.1.6	Does the region’s federal government have legislative authority over the entire territory?	yes=0, no=1
1.1.7	Does the region possess culture and religion-specific behaviours that preclude enforcement of mandatory quarantine measures?	yes=0, no=1
1.2	Quarantine Timeline	
1.2.1	What is the length of quarantine?	14 days = 0.5, more than 14 = 1, no quarantine length = 0
1.2.2	Did the region impose quarantine measures early in the timeline of viral spread?	yes=1, no=0
1.2.3	Was quarantine easing officially declared?	yes=0, no=1
1.2.4	Did the population exert public pressure to ease quarantine measures?	yes=0, no=1
1.3	Criminal Penalties for Violating Quarantine	
1.3.1	Quantity of law enforcement officers.	number per capita

COVID-19 Regional Safety Index: Tier-1 Parameters

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

COVID-19 Regional Safety Index: Tier-1 Parameters

2	COVID-19 Government Efficiency of Risk Management	
2.1	Level of Security and Defense Advancement	
2.1.1	Does the region's military have dedicated laboratories for protection against chemical and biological warfare?	yes=1, no=0
2.1.2	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
2.2	Level of GovTech Development	
2.2.1	Does the region have COVID-specific training courses for doctors and nurses?	yes=1, no=0
2.2.2	Rural population	% of total population
2.2.3	Local vaccine development (attempts).	yes=1, no=0
2.3	The Efficiency of Government Structure	
2.3.1	Did the region's government develop a specific emergency response mechanism for engagement with the private sector?	yes=1, no=0
2.3.2	Are there government-startups cooperation?	yes=1, no=0
2.3.3	Government effectiveness (EIU score).	EIU Score
2.3.4	E-Government Development Index	EGDI score
2.3.5	Number of internet users per 1000 individuals.	number per 1000 people
2.3.6	Smartphone penetration.	% of population
2.3.7	Does the region utilize Electronic Health Records?	yes=1, no=0

COVID-19 Regional Safety Index: Tier-1 Parameters

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

COVID-19 Regional Safety Index: Tier-1 Parameters

3	COVID-19 Monitoring and Detection	
3.1	Monitoring Systems & Disaster Management	
3.1.1	Does the region's government use event-based surveillance for infection disease?	yes=1, no=0
3.1.2	Does the region's government share its surveillance data with the neighboring regions?	yes=1, no=0
3.1.3	Does the region's government have an existing Action Plan in place for the surveillance and detection of viral outbreaks and disease?	yes=1, no=0
3.2	Scope of Diagnostic Methods	
3.2.1	Does the region have validated laboratory testing methods available?	yes=1, no=0
3.2.2	Does the region have laboratories with molecular diagnostic capacity available?	yes=1, no=0
3.2.3	Does the region use online diagnostic tools?	yes=1, no=0
3.3	Testing Efficiency	
3.3.1	Number of COVID-19 tests conducted per day.	Numeric
3.3.2	Are mobile diagnostic stations available for use in the region?	yes=1, no=0
3.3.3	Does the region have a significant shortage of COVID-19 tests?	yes=0, no=1
3.3.4	Does the region use local production of COVID-19 tests?	yes=1, no=0
3.3.5	Does the region have national laboratories available for COVID-19 testing?	yes=1, no=0
3.4	AI for Diagnostics and Prognostics	
3.4.1	Are there AI/ML healthcare initiatives related to COVID-19?	yes=1, no=0

COVID-19 Regional Safety Index: Tier-1 Parameters

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

COVID-19 Regional Safety Index: Tier-1 Parameters

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

COVID-19 Regional Safety Index: Tier-1 Parameters

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

COVID-19 Regional Safety Index: Tier-1 Parameters

5	COVID-19 Region Vulnerability	
5.1	Infection Spread Risk	
5.1.1	Container port traffic.	TEU: 20 foot equivalent units
5.1.2	Average number of international arrivals (incoming tourists) per year.	Number per year
5.1.3	Total transportation network size.	km
5.1.4	Does the region have a significant risk of power shortages?	yes=0, no=1
5.1.5	Does the region have a significant risk of medication shortages?	yes=0, no=1
5.2	Culture Specifics and Societal Discipline	
5.2.1	Literacy rate.	%
5.2.2	Proportion of population with tertiary education.	number per capita
5.2.3	Poverty rate.	Population living below national poverty line (%)
5.2.4	Does the region have religious or cultural practices that increase chances of infection risk or quarantine non-compliance?	yes=0, no=1
5.2.5	Human Development Index 2016.	Index
5.3	Level of Modern Sanitization Methods	
5.3.1	Does the region have access to basic sanitation facilities?	yes=1, no=0
5.4	Diseases	
5.4.1	Prevalence of diabetes.	% of population ages 20 to 79

COVID-19 Regional Safety Index: Tier-1 Parameters

5.4.2	Death rate due to endocrine disorder.	per 100,000 people
5.4.3	Prevalence of mental health and substance use disorders as a share of total disease burden, 2017.	Percent of total disease burden, 2017.
5.4.4	Incidence of tuberculosis.	per 100,000 people
5.4.5	Incidence of cancer.	per 100,000 people
5.4.6	Obesity	% of total population
5.5	Demography	
5.5.1	Size of Elderly Population.	% of total population
5.6	Societal Risks	
5.6.1	Is the region currently experiencing a political or election-based crisis?	yes=0, no=1
5.6.2	Is there a majoritively positive public sentiment regarding government COVID-19 strategy?	yes=1, no=0
5.6.3	Does the majority of the region's population support the current government?	yes=1, no=0
5.6.4	Does the region's government take into account diaspora as a factor in formulating its COVID-19 strategy?	yes=1, no=0
5.6.5	Does the region's government experience significant foreign pressure affecting its COVID-19 strategic decision making?	yes=0, no=1

COVID-19 Regional Safety Index: Tier-1 Proprietary Parameters

6	COVID-19 Emergency Preparedness	
6.1	Societal Emergency Resilience	
6.1.1	Proprietary metric #1	Not publicly disclosed.
6.1.2	Proprietary metric #2	Not publicly disclosed.
6.1.3	Proprietary metric #3	Not publicly disclosed.
6.1.4	Proprietary metric #4	Not publicly disclosed.
6.2	Emergency Military Mobilization Experience	
6.2.1	Proprietary metric #1	Not publicly disclosed.
6.2.2	Proprietary metric #2	Not publicly disclosed.
6.2.3	Proprietary metric #3	Not publicly disclosed.
6.3	Surveillance Capabilities (Scale, Scope and Technological Sophistication)	
6.3.1	Proprietary metric #1	Not publicly disclosed.
6.3.2	Proprietary metric #2	Not publicly disclosed.
6.3.3	Proprietary metric #3	Not publicly disclosed.
6.4	Previous National Emergency Experience	
6.4.1	Proprietary metric #1	Not publicly disclosed.
6.4.1	Proprietary metric #2	Not publicly disclosed.
6.4.1	Proprietary metric #3	Not publicly disclosed.

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

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POINTS

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

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POINTS

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

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POINTS

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

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POINTS

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

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POINTS

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

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POINTS

752
CUMULATIVE
SCORE

Germany: #2 Region by COVID-19 Safety Ranking

Tier 1 Countries & Regions June 3, 2020

COVID-19 Quarantine Efficiency

Weight 2.2 Category Score 59.45

<input type="checkbox"/> Scale of Quarantine	16.51
<input type="checkbox"/> Quarantine Timeline	4.25
<input type="checkbox"/> Criminal Penalties for Violating Quarantine	10.24
<input type="checkbox"/> Economic Support for Quarantined Citizens	13.02
<input type="checkbox"/> Economic and Supply Chain Freezing	9.30
<input type="checkbox"/> Travel Restrictions	6.12

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POINTS

COVID-19 Government Efficiency of Risk Management

Weight 2.2 Category Score 88.13

<input type="checkbox"/> Level of Security and Defense Advancement	17.00
<input type="checkbox"/> Rapid Emergency Mobilization	14.57
<input type="checkbox"/> Efficiency of Government Structure	14.26
<input type="checkbox"/> Economic Sustainability	11.38
<input type="checkbox"/> Legislative Efficiency	16.00
<input type="checkbox"/> Political Stability	14.92

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POINTS

COVID-19 Monitoring and Detection

Weight 1.5 Category Score 91.97

<input type="checkbox"/> Monitoring Systems and Disaster Management	18.00
<input type="checkbox"/> Scope of Diagnostic Methods	15.00
<input type="checkbox"/> Testing Efficiency	13.37
<input type="checkbox"/> AI for Diagnostics and Prognostics	15.00
<input type="checkbox"/> Government Surveillance Technology for Monitoring	13.60
<input type="checkbox"/> Reliability and Transparency of Data	17.00

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POINTS


749
CUMULATIVE
SCORE

COVID-19 Healthcare Readiness

Weight 1.3 Category Score 78.82

<input type="checkbox"/> COVID-19 Equipment Availability	14.40
<input type="checkbox"/> Mobilization of New Healthcare Resources	17.50
<input type="checkbox"/> Quantity and Quality of Medical Staff	14.99
<input type="checkbox"/> Level of Healthcare Progressiveness	12.19
<input type="checkbox"/> Level of Technological Advancement	8.68
<input type="checkbox"/> Epidemiology System Level of Development	11.06

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POINTS

COVID-19 Regional Resiliency

Weight 1.3 Category Score 81.10

<input type="checkbox"/> Infection Spread Risk	13.12
<input type="checkbox"/> Culture Specifics and Societal Discipline	16.23
<input type="checkbox"/> Level of Modern Sanitization Methods	15.00
<input type="checkbox"/> Demography	9.76
<input type="checkbox"/> Chronic Diseases	13.39
<input type="checkbox"/> Societal Risks	13.60

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POINTS

COVID-19 Emergency Preparedness

Weight 1.5 Category Score 52.92

<input type="checkbox"/> Societal Emergency Resilience	20.25
<input type="checkbox"/> Emergency Military Mobilization Experience	7.67
<input type="checkbox"/> Surveillance Capabilities (Scale, Scope and Technological Sophistication)	13.50
<input type="checkbox"/> Previous National Emergency Experience	11.50

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POINTS

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

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POINTS

COVID-19 Government Efficiency of Risk Management

Weight 2.2 Category Score 86.66

❑ Level of Security and Defense Advancement	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

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POINTS

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

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POINTS

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

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POINTS

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

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POINTS

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

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POINTS

748
CUMULATIVE
SCORE

Singapore: #4 Region by COVID-19 Safety Ranking

Tier 1 Countries & Regions June 3, 2020

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

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POINTS

COVID-19 Government Efficiency of Risk Management

Weight 2.2 Category Score 80.14

❑ Level of Security and Defense Advancement	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

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POINTS

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

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POINTS

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

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POINTS

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

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POINTS

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

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POINTS

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

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POINTS

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

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POINTS

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

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POINTS

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

108
POINTS

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

85
POINTS

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

91
POINTS

738
CUMULATIVE
SCORE

Austria: #6 Region by COVID-19 Safety Ranking

Tier 1 Countries & Regions June 3, 2020

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

122
POINTS

COVID-19 Government Efficiency of Risk Management

Weight 2.2 Category Score 85.52

❑ Level of Security and Defense Advancement	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

188
POINTS

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

122
POINTS

726
CUMULATIVE
SCORE

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

89
POINTS

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

96
POINTS

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

110
POINTS

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

120
POINTS

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	12.86
❑ Efficiency of Government Structure	12.94
❑ Economic Sustainability	10.97
❑ Legislative Efficiency	16.00
❑ Political Stability	8.25

172
POINTS

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

132
POINTS

717
CUMULATIVE
SCORE

COVID-19 Healthcare Readiness

Weight 1.3 Category Score 61.53

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

80
POINTS

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

74
POINTS

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

139
POINTS

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 Advancement	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

716
CUMULATIVE
SCORE

New Zealand: #9 Region by COVID-19 Safety Ranking

Tier 1 Countries & Regions June 3, 2020

COVID-19 Quarantine Efficiency

Weight 2.2 Category Score 69.72

❑ Scale of Quarantine	17.76
❑ Quarantine Timeline	11.33
❑ Criminal Penalties for Violating Quarantine	5.97
❑ Economic Support for Quarantined Citizens	7.49
❑ Economic and Supply Chain Freezing	15.50
❑ Travel Restrictions	11.67

153
POINTS

COVID-19 Government Efficiency of Risk Management

Weight 2.2 Category Score 70.75

❑ Level of Security and Defense Advancement	8.50
❑ Rapid Emergency Mobilization	10.19
❑ Efficiency of Government Structure	14.44
❑ Economic Sustainability	10.00
❑ Legislative Efficiency	12.00
❑ Political Stability	15.62

156
POINTS

COVID-19 Monitoring and Detection

Weight 1.5 Category Score 85.43

❑ Monitoring Systems and Disaster Management	18.00
❑ Scope of Diagnostic Methods	15.00
❑ Testing Efficiency	13.35
❑ AI for Diagnostics and Prognostics	15.00
❑ Government Surveillance Technology for Monitoring	12.75
❑ Reliability and Transparency of Data	11.33

128
POINTS

715
CUMULATIVE
SCORE

COVID-19 Healthcare Readiness

Weight 1.3 Category Score 57.86

❑ COVID-19 Equipment Availability	9.99
❑ Mobilization of New Healthcare Resources	14.58
❑ Quantity and Quality of Medical Staff	12.48
❑ Level of Healthcare Progressiveness	10.37
❑ Level of Technological Advancement	1.52
❑ Epidemiology System Level of Development	8.91

75
POINTS

COVID-19 Regional Resiliency

Weight 1.3 Category Score 72.56

❑ Infection Spread Risk	9.88
❑ Culture Specifics and Societal Discipline	15.96
❑ Level of Modern Sanitization Methods	15.00
❑ Demography	6.89
❑ Chronic Diseases	7.82
❑ Political Risks	17.00

94
POINTS

COVID-19 Emergency Preparedness

Weight 1.5 Category Score 72.08

❑ Societal Emergency Resilience	20.25
❑ Emergency Military Mobilization Experience	15.33
❑ Surveillance Capabilities (Scale, Scope and Technological Sophistication)	13.50
❑ Previous National Emergency Experience	23.00

108
POINTS

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

Tier 1 Countries & Regions June 3, 2020

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

118
POINTS

COVID-19 Government Efficiency of Risk Management

Weight 2.2 Category Score 79.88

❑ Level of Security and Defense Advancement	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

176
POINTS

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

133
POINTS

712
CUMULATIVE
SCORE



84
POINTS

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

89
POINTS

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

111
POINTS

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

120
POINTS

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

143
POINTS

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

143
POINTS

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

70
POINTS

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

102
POINTS

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

121
POINTS

700
CUMULATIVE
SCORE

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

130
POINTS

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

172
POINTS

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

133
POINTS

699
CUMULATIVE
SCORE

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

75
POINTS

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

90
POINTS

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

100
POINTS

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

136
POINTS

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

166
POINTS

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

133
POINTS

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

69
POINTS

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

77
POINTS

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

117
POINTS

698
CUMULATIVE
SCORE

Norway: #14 Region by COVID-19 Safety Ranking

Tier 1 Countries & Regions June 3, 2020

COVID-19 Quarantine Efficiency

Weight 2.2 Category Score 58.07

❑ Scale of Quarantine	14.34
❑ Quarantine Timeline	5.67
❑ Criminal Penalties for Violating Quarantine	6.36
❑ Economic Support for Quarantined Citizens	7.14
❑ Economic and Supply Chain Freezing	15.50
❑ Travel Restrictions	9.06

128
POINTS

COVID-19 Government Efficiency of Risk Management

Weight 2.2 Category Score 82.20

❑ Level of Security and Defense Advancement	17.00
❑ Rapid Emergency Mobilization	4.38
❑ Efficiency of Government Structure	14.80
❑ Economic Sustainability	14.37
❑ Legislative Efficiency	16.00
❑ Political Stability	15.65


181
POINTS

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	13.49
❑ AI for Diagnostics and Prognostics	15.00
❑ Government Surveillance Technology for Monitoring	8.50
❑ Reliability and Transparency of Data	11.33

122
POINTS


685
CUMULATIVE
SCORE

COVID-19 Healthcare Readiness

Weight 1.3 Category Score 61.26

❑ COVID-19 Equipment Availability	10.33
❑ Mobilization of New Healthcare Resources	14.58
❑ Quantity and Quality of Medical Staff	15.53
❑ Level of Healthcare Progressiveness	9.70
❑ Level of Technological Advancement	0.45
❑ Epidemiology System Level of Development	10.66

80
POINTS

COVID-19 Regional Resiliency

Weight 1.3 Category Score 73.47

❑ Infection Spread Risk	9.74
❑ Culture Specifics and Societal Discipline	16.67
❑ Level of Modern Sanitization Methods	13.79
❑ Demography	6.31
❑ Chronic Diseases	9.96
❑ Political Risks	17.00

96
POINTS

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

79
POINTS

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

137
POINTS

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

153
POINTS

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

129
POINTS


671
CUMULATIVE
SCORE

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

80
POINTS

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

92
POINTS

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

79
POINTS

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

119
POINTS

COVID-19 Government Efficiency of Risk Management

Weight 2.2 Category Score 78.97

❑ Level of Security and Defense Advancement	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

174
POINTS

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

126
POINTS

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

68
POINTS

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

69
POINTS

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

111
POINTS

666
CUMULATIVE
SCORE

Saudi Arabia: #17 Region by COVID-19 Safety Ranking

Tier 1 Countries & Regions June 3, 2020

COVID-19 Quarantine Efficiency

Weight 2.2 Category Score 56.66

❑ 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

125
POINTS

COVID-19 Government Efficiency of Risk Management

Weight 2.2 Category Score 64.84

❑ Level of Security and Defense Advancement	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

143
POINTS

COVID-19 Monitoring and Detection

Weight 1.5 Category Score 80.50

❑ 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

121
POINTS

COVID-19 Healthcare Readiness

Weight 1.3 Category Score 39.91

❑ 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

52
POINTS

COVID-19 Regional Resiliency

Weight 1.3 Category Score 81.39

❑ 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

106
POINTS

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

111
POINTS

657
CUMULATIVE
SCORE

Hungary: #18 Region by COVID-19 Safety Ranking

Tier 1 Countries & Regions June 3, 2020

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

125
POINTS

COVID-19 Government Efficiency of Risk Management

Weight 2.2 Category Score 66.31

❑ Level of Security and Defense Advancement	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

146
POINTS

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

122
POINTS

656
CUMULATIVE
SCORE

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

66
POINTS

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

77
POINTS

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

120
POINTS

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

128
POINTS

COVID-19 Government Efficiency of Risk Management

Weight 2.2 Category Score 71.98

❑ Level of Security and Defense Advancement	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

158
POINTS

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

127
POINTS

651
CUMULATIVE
SCORE

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

86
POINTS

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	13.53
❑ Demography	5.17
❑ Chronic Diseases	10.31
❑ Political Risks	13.60

79
POINTS

COVID-19 Emergency Preparedness

Weight 1.5 Category Score 49.08

❑ Societal Emergency Resilience	20.25
❑ Emergency Military Mobilization Experience	4.83
❑ Surveillance Capabilities (Scale, Scope and Technological Sophistication)	13.50
❑ Previous National Emergency Experience	11.50

74
POINTS

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	15.33
❑ Quarantine Timeline	5.67
❑ Criminal Penalties for Violating Quarantine	6.82
❑ Economic Support for Quarantined Citizens	4.50
❑ Economic and Supply Chain Freezing	15.50
❑ Travel Restrictions	10.50

128
POINTS

COVID-19 Government Efficiency of Risk Management

Weight 2.2 Category Score 67.71

❑ Level of Security and Defense Advancement	17.00
❑ Rapid Emergency Mobilization	10.67
❑ Efficiency of Government Structure	11.71
❑ Economic Sustainability	7.87
❑ Legislative Efficiency	12.00
❑ Political Stability	8.46

149
POINTS

COVID-19 Monitoring and Detection

Weight 1.5 Category Score 82.35

❑ Monitoring Systems and Disaster Management	18.00
❑ Scope of Diagnostic Methods	15.00
❑ Testing Efficiency	14.52
❑ AI for Diagnostics and Prognostics	15.00
❑ Government Surveillance Technology for Monitoring	8.50
❑ Reliability and Transparency of Data	11.33

124
POINTS

637
CUMULATIVE
SCORE

COVID-19 Healthcare Readiness

Weight 1.3 Category Score 48.79

❑ COVID-19 Equipment Availability	9.00
❑ Mobilization of New Healthcare Resources	14.58
❑ Quantity and Quality of Medical Staff	8.31
❑ Level of Healthcare Progressiveness	7.10
❑ Level of Technological Advancement	1.70
❑ Epidemiology System Level of Development	8.10

63
POINTS

COVID-19 Regional Resiliency

Weight 1.3 Category Score 55.56

❑ Infection Spread Risk	9.35
❑ Culture Specifics and Societal Discipline	9.14
❑ Level of Modern Sanitization Methods	0.96
❑ Demography	12.06
❑ Chronic Diseases	7.06
❑ Political Risks	17.00

72
POINTS

COVID-19 Emergency Preparedness

Weight 1.5 Category Score 67.33

❑ Societal Emergency Resilience	27.00
❑ Emergency Military Mobilization Experience	15.33
❑ Surveillance Capabilities (Scale, Scope and Technological Sophistication)	13.50
❑ Previous National Emergency Experience	11.50

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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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