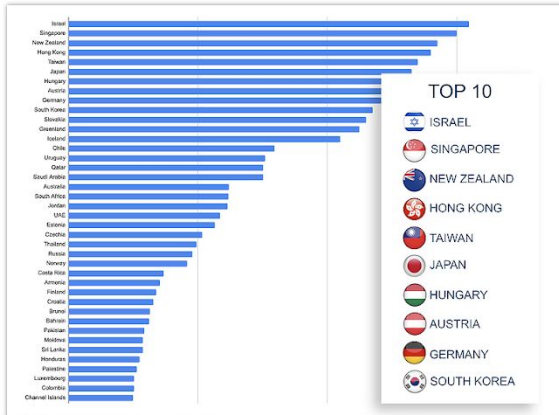


COVID-19 Ranking Framework Methodology

*COVID-19 Country Safety, Risk and
Treatment Efficiency Ranking*

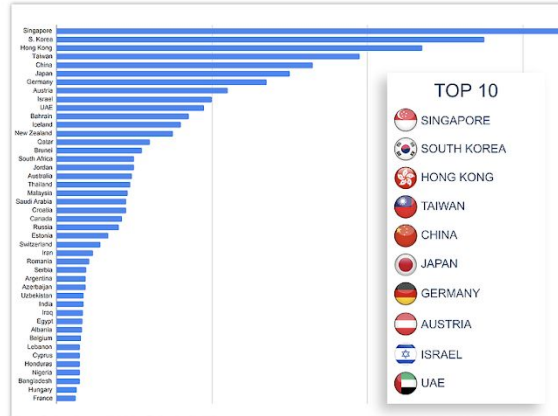
COVID-19 Country Safety, Treatment Efficiency and Risk Ranking: Analytical Framework and Methodology

COVID-19 Health Safety Countries Ranking



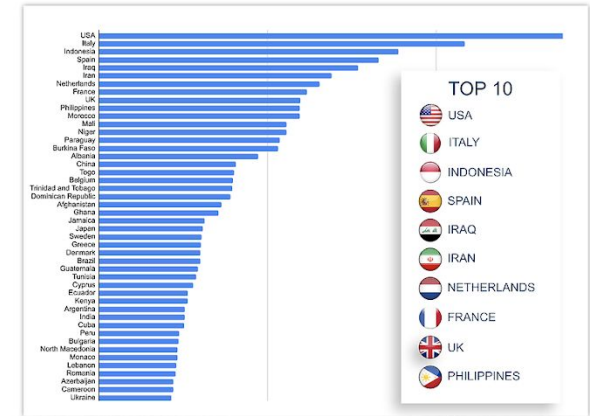
View Ranking

COVID-19 Treatment Efficiency Countries Ranking



View Ranking

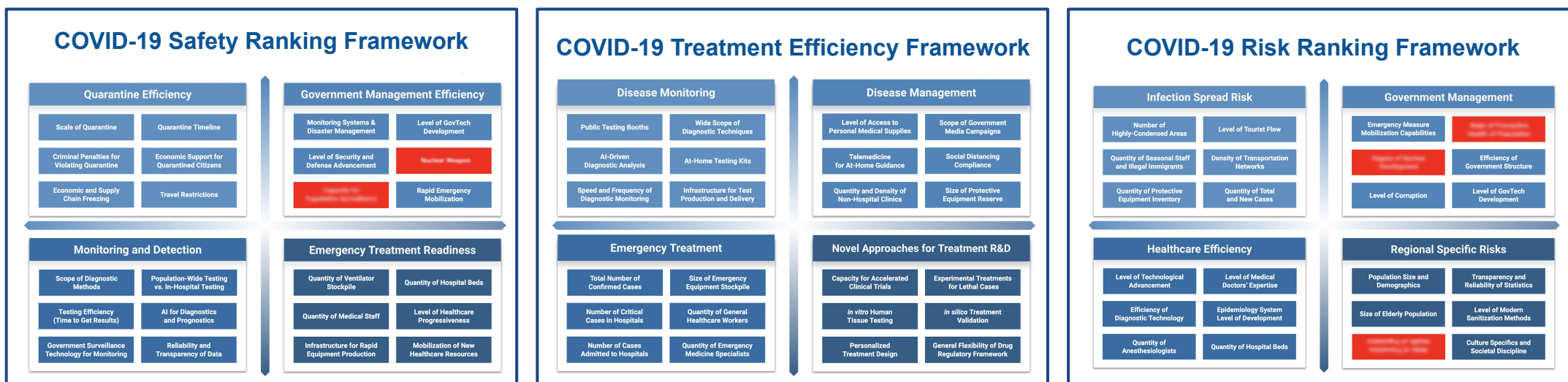
Country Risk Level During COVID-19 Pandemic



View Ranking

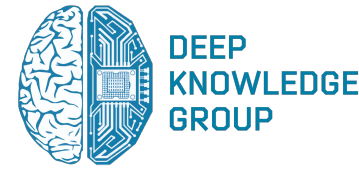
- Deep Knowledge Group's COVID-19 Safety, Treatment Efficiency and Risk Ranking Analytical Frameworks utilize raw data from a number of publicly-available sources including [World Health Organization](#), [Johns Hopkins University](#), [CDC](#), [Worldometers](#) and others, as well as consultations with specific experts, and feeds this data into its proprietary Big Data Analytical Frameworks in order to derive a cumulative rank of countries in terms of safety, therapy efficiency and risk.
- The current global COVID-19 pandemic is a complex system involving more than typical disease tracking and management techniques, affected not just by biology but by the behaviour of individual humans, and the larger-scale actions of companies, institutions and governments. It is heavily influenced by the current healthcare, medical, economic, governance and geopolitical actions, behaviours and situations of entire nations.
- It has always been Deep Knowledge Group's long-term mission to pursue its strategic agenda in a dual non-profit and for-profit manner, aiming to achieve positive impact in the support of progressive technologies for the benefit of humanity. It is for this reason that the decision was made to conduct the majority of the group's COVID-19 analytics in an open-source manner, free of charge, to provide the public in general and authorized organizations in particular with fact-based and unbiased information. However, the group also remains open to disclosing its proprietary metrics and analytical techniques to relevant organizations, and to conducting country-specific and topic-specific analytics and forecasting for responsible governmental bodies and departments.

COVID-19 Safety, Risk and Treatment Efficiency Frameworks



- Deep Knowledge Group's COVID-19 related ranking frameworks utilize 72 metrics in total (grouped into 12 quadrants under each specific ranking framework) in order to provide valuable insights for citizens and governments, and to rank various countries in terms of their safety and risk, not just as it pertains to COVID-19, but also in terms of negative potential societal, economic and geopolitical outcomes of the pandemic.
- The "COVID-19 Safety Ranking Framework" ranks countries according to general safety and long term stability, and gives an idea of which countries' citizens have the lowest likelihoods of being infected. The lowest chance of COVID-19 mortality, and the highest likelihoods of recovery and positive health outcomes.
- The "COVID-19 Risk Ranking Framework" ranks countries according to their broader levels of risk, not just in suffering negative health outcomes during the coronavirus pandemic (high rates of infection spread, high mortality rates, etc.), but also in terms of possible negative societal, economic and geopolitical outcomes that could result as well.
- The "COVID-19 Treatment Efficiency Ranking Framework" ranks countries according to the sophistication and real and predicted effectiveness of their efforts to monitor COVID-19, reduce infection spread, and treat both critical and non-critical patients, as well as their capacities to rapidly develop, test, validate and deploy experimental vaccines and treatments for coronavirus.
- 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.

COVID-19 Safety Ranking Framework



Quarantine Efficiency

Scale of Quarantine	Quarantine Timeline
Criminal Penalties for Violating Quarantine	Economic Support for Quarantined Citizens
Economic and Supply Chain Freezing	Travel Restrictions

Government Management Efficiency

Monitoring Systems & Disaster Management	Level of GovTech Development
Level of Security and Defense Advancement	Nuclear Weapons
Emergency Response Readiness	Rapid Emergency Mobilization

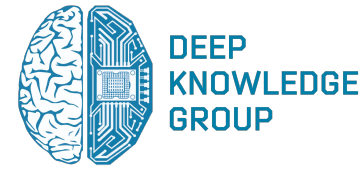
Monitoring and Detection

Scope of Diagnostic Methods	Population-Wide Testing vs. In-Hospital Testing
Testing Efficiency (Time to Get Results)	AI for Diagnostics and Prognostics
Government Surveillance Technology for Monitoring	Reliability and Transparency of Data

Emergency Treatment Readiness

Quantity of Ventilator Stockpile	Quantity of Hospital Beds
Quantity of Medical Staff	Level of Healthcare Progressiveness
Infrastructure for Rapid Equipment Production	Mobilization of New Healthcare Resources

COVID-19 Risk Ranking Framework



Infection Spread Risk

Number of
Highly-Condensed Areas

Level of Tourist Flow

Quantity of Seasonal Staff
and Illegal Immigrants

Density of Transportation
Networks

Quantity of Protective
Equipment Inventory

Quantity of Total
and New Cases

Government Management

Emergency Measure
Mobilization Capabilities

Efficiency of
Government Structure

Level of Corruption

Level of GovTech
Development

Healthcare Efficiency

Level of Technological
Advancement

Level of Medical
Doctors' Expertise

Efficiency of
Diagnostic Technology

Epidemiology System
Level of Development

Quantity of
Anesthesiologists

Quantity of Hospital Beds

Regional Specific Risks

Population Size and
Demographics

Transparency and
Reliability of Statistics

Size of Elderly Population

Level of Modern
Sanitization Methods

Culture Specifics and
Societal Discipline

COVID-19 Treatment Efficiency

Disease Monitoring

Public Testing Booths

Wide Scope of
Diagnostic Techniques

AI-Driven
Diagnostic Analysis

At-Home Testing Kits

Speed and Frequency of
Diagnostic Monitoring

Infrastructure for Test
Production and Delivery

Disease Management

Level of Access to
Personal Medical Supplies

Scope of Government
Media Campaigns

Telemedicine
for At-Home Guidance

Social Distancing
Compliance

Quantity and Density of
Non-Hospital Clinics

Size of Protective
Equipment Reserve

Emergency Treatment

Total Number of
Confirmed Cases

Size of Emergency
Equipment Stockpile

Number of Critical
Cases in Hospitals

Quantity of General
Healthcare Workers

Number of Cases
Admitted to Hospitals

Quantity of Emergency
Medicine Specialists

Novel Approaches for Treatment R&D

Capacity for Accelerated
Clinical Trials

Experimental Treatments
for Lethal Cases

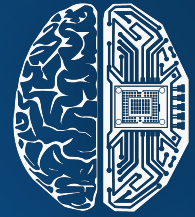
in vitro Human
Tissue Testing

in silico Treatment
Validation

Personalized
Treatment Design

General Flexibility of Drug
Regulatory Framework

DISCLAIMER



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

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

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

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Knowledge is Power
Deep Knowledge is Transcendent Power

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