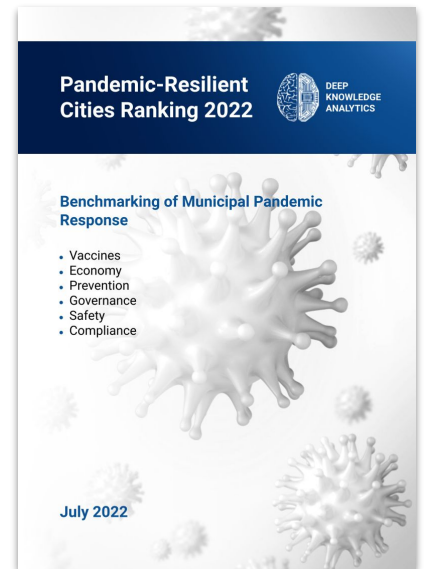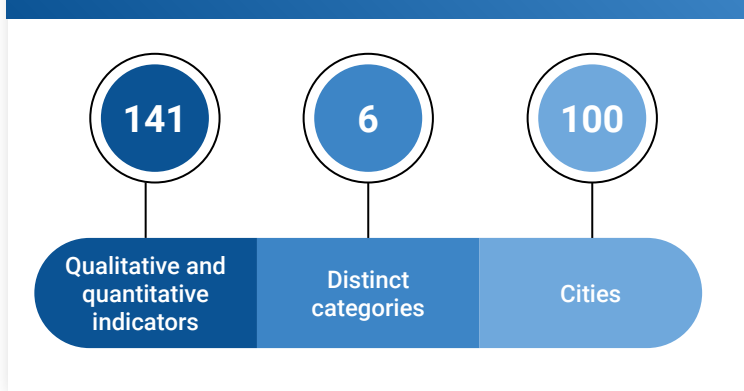The primary focus of the report is to analyze the regional response to pandemics at the city level. This publication is the second iteration of an ongoing and annually updated series of the city-level COVID 19 pandemic response analysis.

In addition to the municipal response to pandemics, the Ranking examines several contextual factors to ensure the economy is stabilized during emergencies, competently manages internal health system resources, and identifies risks, and prevents them. It provides insights into leadership and the economy, society, and health, as well as assists municipalities and states in determining gaps in their preparedness measures to achieve inclusion, resilience, and sustainability in cities through the independent analysis.

Key determinants for an effective containment policy were identified through statistical analysis. Based on the obtained data and additional research, report contains recommendations for policy-makers. The Ranking includes **research for 100 cities**, representing countries and cities with the largest economies and sufficient international recognition.

Pandemic-Resilient Cities Ranking 2022
DEEP KNOWLEDGE ANALYTICS

Benchmarking of Municipal Pandemic Response

- Vaccines
- Economy
- Prevention
- Governance
- Safety
- Compliance

July 2022

Data at glance

141 — Qualitative and quantitative indicators

6 — Distinct categories

100 — Cities

Top 50 cities with the highest scores
selected and analyzed for their best practices and the challenges they have had to face.

The new, 'Cultural Compliance' category added
to provide insights on distinct trajectories of policies implemented around the globe.

14,000 data points employed
Key takeaways and policy recommendations developed for each category of parameters

Pandemic-Resilient Cities Ranking evaluates target cities across 6 parameters, such as Economic Resilience, Government Efficiency, Healthcare Management, Quarantine Efficiency, Vaccination Rate and Cultural Compliance.

1

Economic Resilience
Capacity to resist global economic crisis and to recover rapidly to the previous level of growth or better

Recover

- Coronavirus Domestic Economic Impact
- Economic Impact Of Tourism Decrease
- Economy Rescue Package
- Economy Vitality
- Market Attractiveness
- Wealth Indicator

Government Efficiency
Rapid and sufficient response to the COVID-19 spread by the government

Act

- E-Readiness
- Emergency Response Mechanism
- Public Involvement
- Satisfaction With Government Performance
- Surveillance Practices

Healthcare Management
The resilience of the health system during the pandemic.

Manage

- E-Health Score
- Health System Resources
- Healthcare Covid Response
- Population Vulnerability
- Public Health

Quarantine Efficiency
The effectiveness of the measures taken by the authority in order to cope with COVID-19 spread.

Control

- COVID-19 Detection
- City Preparedness
- Containment Policy
- Post-Covid Strategy
- Prevention Of COVID-19 Spread

Vaccination Rate
The distribution rate of safe and effective vaccines against COVID-19 among the population.
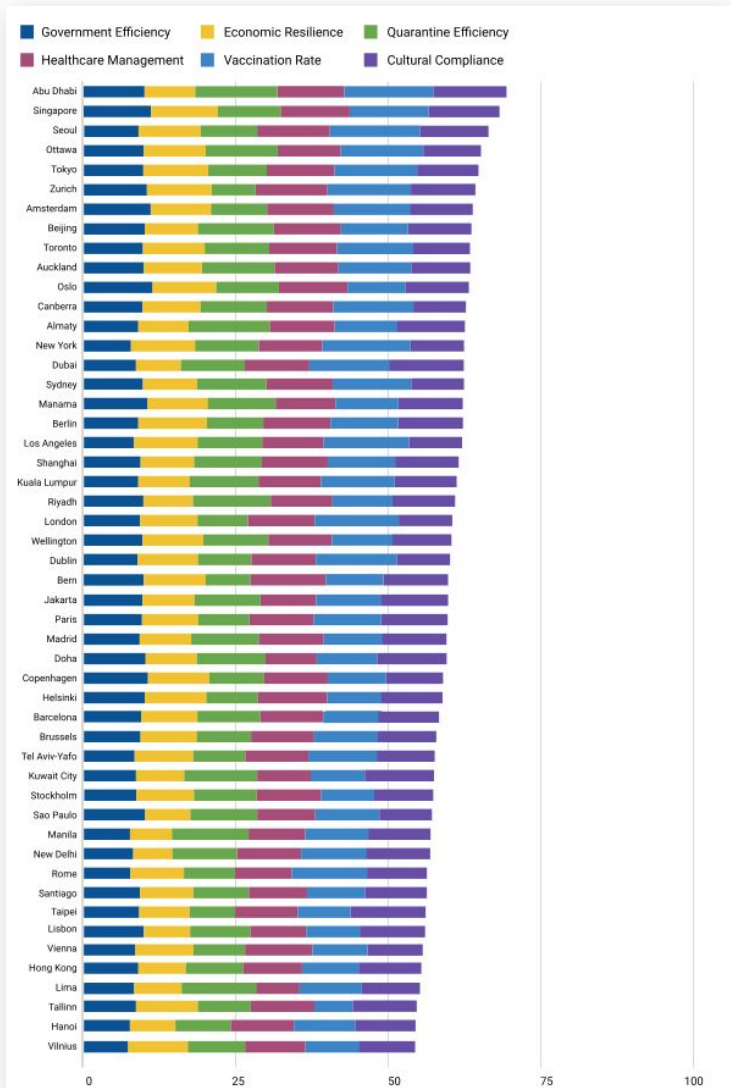
Treat

- Affordability Of COVID-19 Vaccines
- Deployment Of COVID-19 Vaccines
- Vaccine Allocation
- Vaccine Development And Production

Cultural Compliance
Classification of cultural factors that shape the degree of health-protective behavior and compliance of citizens during pandemic.

Obey

- Relationships to authority and social inequality
- Interdependence in society
- Risk and uncertainty
- Personal Freedom and Social Progress
- Prosperity and Life Opportunities

Legend:
- Government Efficiency
- Healthcare Management
- Economic Resilience
- Vaccination Rate
- Quarantine Efficiency
- Cultural Compliance

Cities (top to bottom): Abu Dhabi, Singapore, Seoul, Ottawa, Tokyo, Zurich, Amsterdam, Beijing, Toronto, Auckland, Oslo, Canberra, Almaty, New York, Dubai, Sydney, Manama, Berlin, Los Angeles, Shanghai, Kuala Lumpur, Riyadh, London, Wellington, Dublin, Bern, Jakarta, Paris, Madrid, Doha, Copenhagen, Helsinki, Barcelona, Brussels, Tel Aviv-Yafo, Kuwait City, Stockholm, Sao Paulo, Manila, New Delhi, Rome, Santiago, Taipei, Lisbon, Vienna, Hong Kong, Lima, Tallinn, Hanoi, Vilnius

COVID-19 MUNICIPAL PANDEMIC RESPONSE: COMPREHENSIVE RANKING 2022*

*The figure displays Top 50 Cities of the Ranking, where the final score for each city is the sum of six equally weighted categories and ranges from 0 to 100.

Top 10 Cities by the Overall Score

City	Overall score
Abu Dhabi	69.02
Singapore	67.95
Seoul	66.11
Ottawa	64.94
Tokyo	64.58
Zurich	64.09
Amsterdam	63.74
Beijing	63.46
Toronto	63.07
Auckland	63.05

Key Findings and Projections

» Harsher stringency policies decrease the rate of spread of COVID-19. Policies should be applied according to the cultural context of a country.

» Contextual factors such as quality of leadership and trust in government have impacted the extent of success of policy making across the globe.

» Policymakers also need to tackle the post-crisis 'fatigue' of societies, as COVID-19 made global inequality much worse. Suitable recovery policies need to be implemented to increase resilience, especially when it comes to vulnerable groups.

» As more countries roll back strict measures and aim to declare the pandemic's end soon, the focus is on the longer-term testing and surveillance approaches integrated into strengthened national health systems.

» The governments must not only compensate for disrupted healthcare services during the current pandemic but also invest in strategies for better health system resilience for future emergencies.

About Deep Knowledge Analytics

DEEP KNOWLEDGE ANALYTICS

Deep Knowledge Analytics is a DeepTech focused agency producing advanced analytics on DeepTech and frontier-technology industries using sophisticated multi-dimensional frameworks and algorithmic methods that combine hundreds of specially-designed and specifically-weighted metrics and parameters to deliver sophisticated market intelligence, pragmatic forecasting and tangible industry benchmarking.