HIGH DEGREE OF CERTAINTY



LOW DEGREE OF CERTAINTY

Ranking the World's Smartest Cities

This is the second year we've researched and generated a smart cities list, and our goal is to showcase examples of exemplary, innovative leadership around the world.

What makes a city "smart?"

In 2016, 78 cities applied for the US Department of Transportation's "Smart City" challenge, which would award the winner \$40 million in federal grant money to upgrade their urban transit systems. DoT selected Columbus, Ohio, as the winner for its proposal to deploy self-driving electric shuttles, launch smart cards to provide free car-sharing services, and develop a connected traffic light system to reduce traffic jams throughout the city. The City of Melbourne (Australia) has launched a Smart City Office, which includes open data projects, a 24-hour pedestrian counting system and city-wide free public WiFi.

Public-private partnerships, affordable technology, long-term urban and budget planning, and equal access to all citizens are just a few things that make cities smart. Here's a more complete list of the criteria we used to rate the world's smartest cities:

- Abundant 4G (and soon 5G) connectivity
- → The availability of public wifi hotspots
- → The use of smart grids for traffic and electricity
- → City-sponsored incentives for smart buildings
- → Accessible, digitized government data that is open to all
- The availability of anonymized citizen data that is digitized, structured and accessible
- Dedicated high-ranking positions in government dedicated to technology and science
- → The number and influence of community leaders who are experts in tech
- The number of cybersecurity offices, departments and staff dedicated to proactive monitoring and continuous learning

- → Tech-forward public transit systems that are optimized for all citizens
- The availability of ride sharing services (including various forms of transportation)
- → The number of public-private tech and science partnerships that benefit all income levels
- → Dedicated environmental protections for the present and future of the city
- → City initiatives to reduce waste
- → The availability of affordable clean energy options
- → Dedication to long-term urban planning

Smart Cities 2019 Ranking



- 01. Copenhagen, Denmark
- 02. Gothenburg, Sweden
- 03. Oslo, Norway
- 04. Bergen, Norway
- 05. Odense, Denmark
- 06. Stockholm, Sweden
- 07. Turku, Finland
- 08. Aalborg, Denmark
- 09. Jyväskylä, Finland

- O. Strasbourg, France
- 11 Melbourne, Australia
- 12. Singapore
- 13. Vantaa, Finland
- 14. Amsterdam, Netherlands
- 15. Zurich, Switzerland
- 16. Utrecht, Netherlands
- 17. Berlin, Germany
- 18. Dubai, UAE

- 19. Seoul, South Korea
- 20. San Francisco, USA
- 21. Wuxi, China
- 22. Boston, USA
- 23. London, United Kingdom
- 24. Tokyo, Japan
- 25. Montreal, Canada
- 26. Tallinn, Estonia
- 27. Tel Aviv, Israel

- 28. Yinchuan, China
- 29. Hangzhou, China
- 30. Perugia, Italy
- 31. New York City, USA
- 32. Vancouver, Canada
- 33. Helsinki, Finland
- 14. Hamburg, Germany
- 35. Luxembourg
- 36. Portland, USA

- 7. Nice, France
- 88. Reykjavik, Iceland
- 39. Barcelona, Spain
- 40. Osaka, Japan
- 41. Abu Dhabi, UAE
- 42. Doha, Qatar
- 43. Hong Kong, China
- 44. Rio de Janeiro, Brazil
- 45. Shanghai, China

- Chicago, USA
- Munich, Germany
- 8. Toronto, Canada
- 9. Bordeaux, France
- Bhubaneswar, India

Methodology

Sources for this study include data collected from:

Municipal authority publications, including city, regional and national data; city and national census data; the World Health Organization; municipal energy departments; Numbeo; municipal strategic vision documents and press releases; United Nations reports; European Commission reports; Pew Research Center data; TomTom Traffic index; International Energy Statistics reports; the European Digital City Index; the Online Speed Test Global Index; municipal websites.

Smart Cities ranking methodology:

We researched and analyzed 100 cities for the 2019 study. Cities without easily accessible data were not considered. We developed a model using 16 key performance indicators (on the previous page).

Assumptions in our model:

- Data were not adjusted according to regional or local cultural differences.
- Where city specific data for certain indicators were not available, regional or national data were used instead

Using our model to calculate the ranking:

We weighted each of the 16 indicators equally to calculate raw scores. Those scores were ranked from top-performing to lowest-performing, based on available data.

