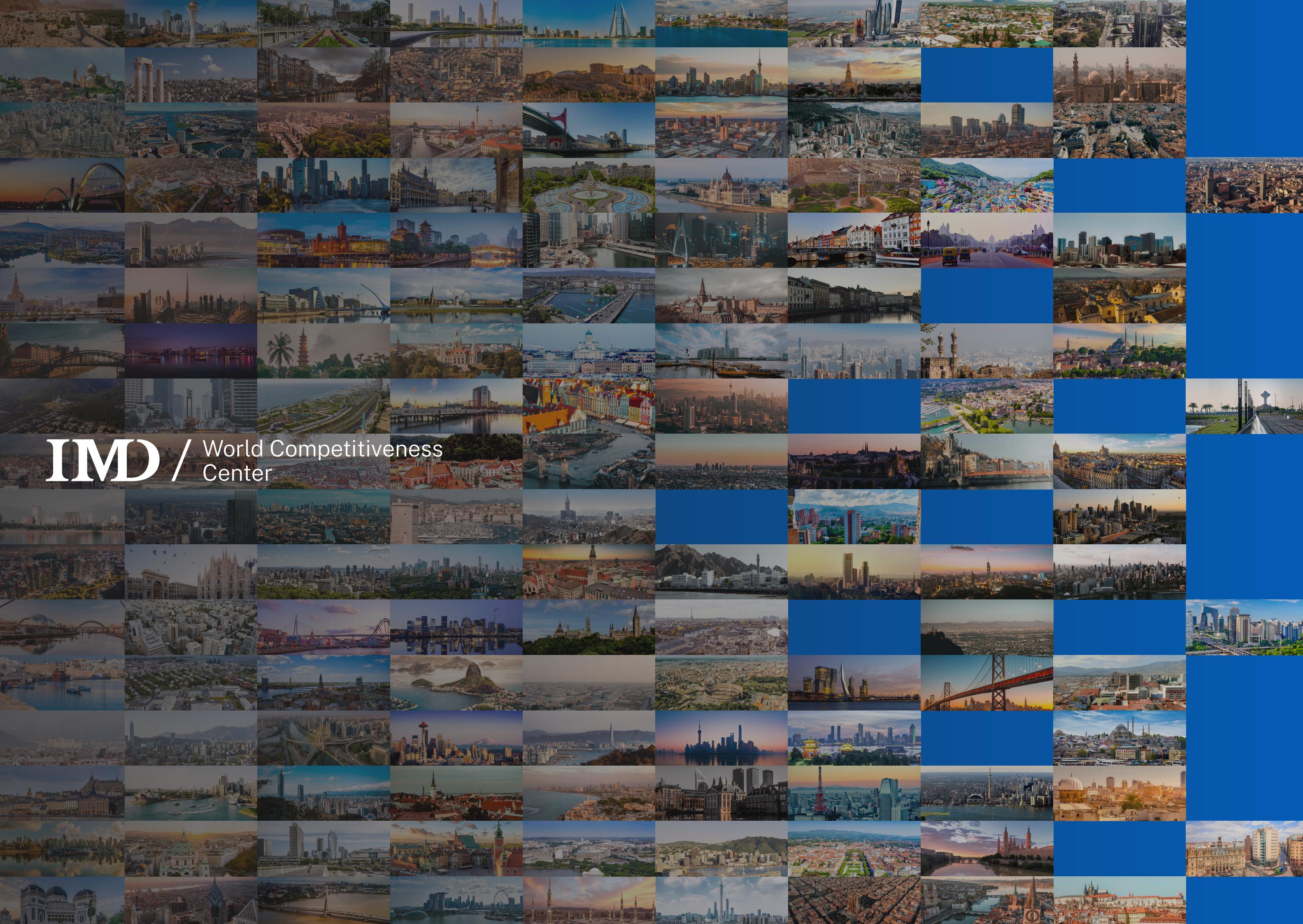
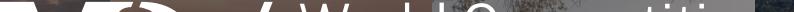


# IMD Smart City Index 2025

The housing affordability challenge:  
A growing concern







# IMD / World Competitiveness Center

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| Melbourne          | 112 | Riyadh           | 135 | Tunis           | 158 |  |     |
| <b>Mexico City</b> | 113 | Rome             | 136 | Vancouver       | 159 |  |     |
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| Nairobi            | 119 | Santiago         | 142 | Zagreb          | 165 |  |     |
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| New York           | 121 | Seattle          | 144 | Zurich          | 167 |  |     |
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# IMD Smart City Index 2025

The housing affordability challenge:  
A growing concern

# The housing affordability challenge: A growing concern

In a deglobalized world where countries seem more out for their own interests than in the recent memorable past, we remain united by the issue of affordable housing.

2025 has barely gotten underway and yet significant trade tensions, policy shifts, and weakened business and consumer confidence appear to have set the tone for the year. The aggressive trade stance adopted by the United States – which notably includes substantial tariff hikes on imports from China, Mexico, and Canada – has, as we know, triggered retaliatory measures, re-escalating trade wars. In 2018, during his first term, President Trump started increasing tariffs on goods from China -first on “only” 8% of Chinese exports but covering over 66% by early 2020.

While the extent, magnitude, and duration of current tariff increases remain uncertain, past lessons from the 2018 US-China trade war suggest that the direct participants will all experience economic losses (Caliendo and Parro, 2023), while the impact on other economies will be more difficult to predict; there may be some winners – especially in Southeast Asia where production can be more easily relocated (Fajgelbaum et al., 2024).

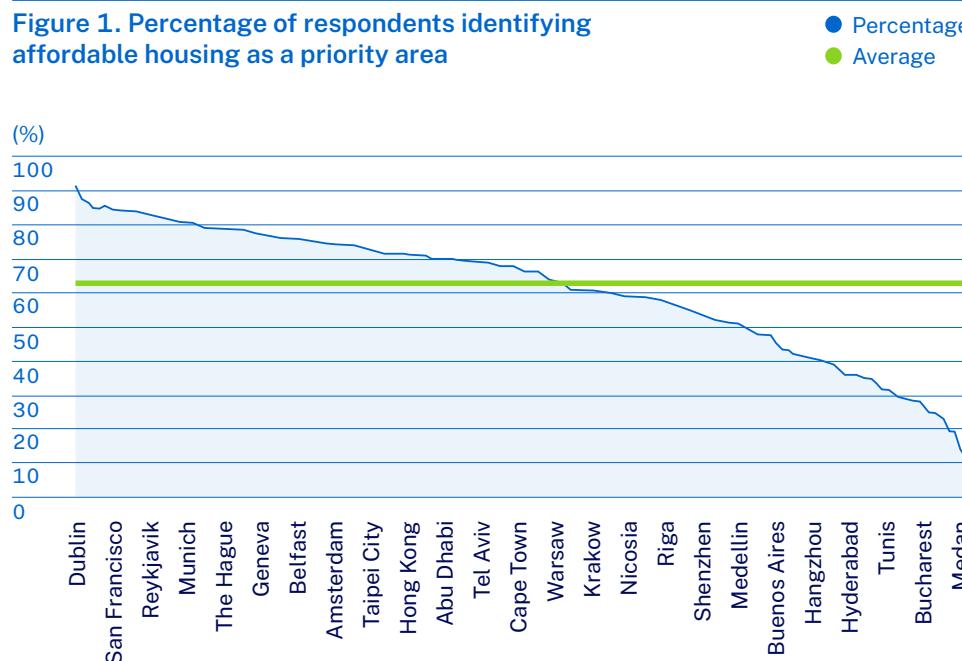
Inflationary pressures remain a concern, particularly in industries heavily reliant on imported materials, such as construction. Higher tariffs on steel (and potentially lumber) are expected to increase development costs, putting further stress on an already-constrained housing supply.

Making housing more affordable is the top priority for most of the respondents of the 2025 IMD Smart City Survey. In 110 out of 146 cities, affordable housing is mentioned as a priority by at least half of the respondents in the city. The issue is particularly felt in Dublin or Vancouver, where about 90% of the IMD Smart City Survey respondents expressed concern over housing affordability. Respondents in the Middle East agree: about 80% of respondents from AlUla or Dubai identify affordable housing as a priority area.

**Housing has become increasingly unaffordable for many households over the past couple of years.**

According to IMF data, it is currently less affordable than during the house price bubble that preceded the 2007-08 global financial crisis (Biljanovska et al., 2023). This harsh statistic is reflected in the responses in the IMD Smart City Survey: in cities as far apart geographically as Lisbon, Vancouver, Dublin, and Reykjavik some nine in 10 respondents report difficulties finding housing that costs less than a third of their income.

Conversely, in Chinese cities such as Guangzhou (a Tier 1 city) and Hangzhou and Chongqing (both new Tier 1 cities), perceptions of affordability are significantly more optimistic: just three in 10 respondents report difficulties finding housing that costs less than a third of their income. However, this finding needs to be viewed in the context of China's ongoing real estate downturn. In 2020, China introduced measures to curb excessive leverage in real estate and de-risk the sector. Stalled projects and liquidity shortages led to defaults by major developers like Evergrande and Country Garden, further deepening the sector's slump. Despite efforts to stabilize the market through public investments and interest rate cuts, business and consumer confidence remains low, far below pre-pandemic levels.



## The housing affordability challenge: A growing concern

Rising interest rates, persistent inflation, and elevated energy costs have priced large segments of the population out of both homeownership and rental markets. A major driver of rising housing costs is the imbalance between supply and demand. Restrictive zoning laws and regulatory barriers have contributed to high housing costs in countries such as the US (Glaeser et al., 2005), the UK (Hilber and Vermuelen, 2016), and other OECD countries (Caldera and Johansson, 2013). This evidence is echoed in our data: over 70% of respondents from an American or a British city list housing as a priority area. Moreover, about eight in ten respondents in San Francisco, Denver, Seattle, Boston, Cardiff, or Glasgow report that finding housing that costs less than a third of their income is problematic. The rapid growth of urban populations and demographic shifts have further intensified demand pressures.

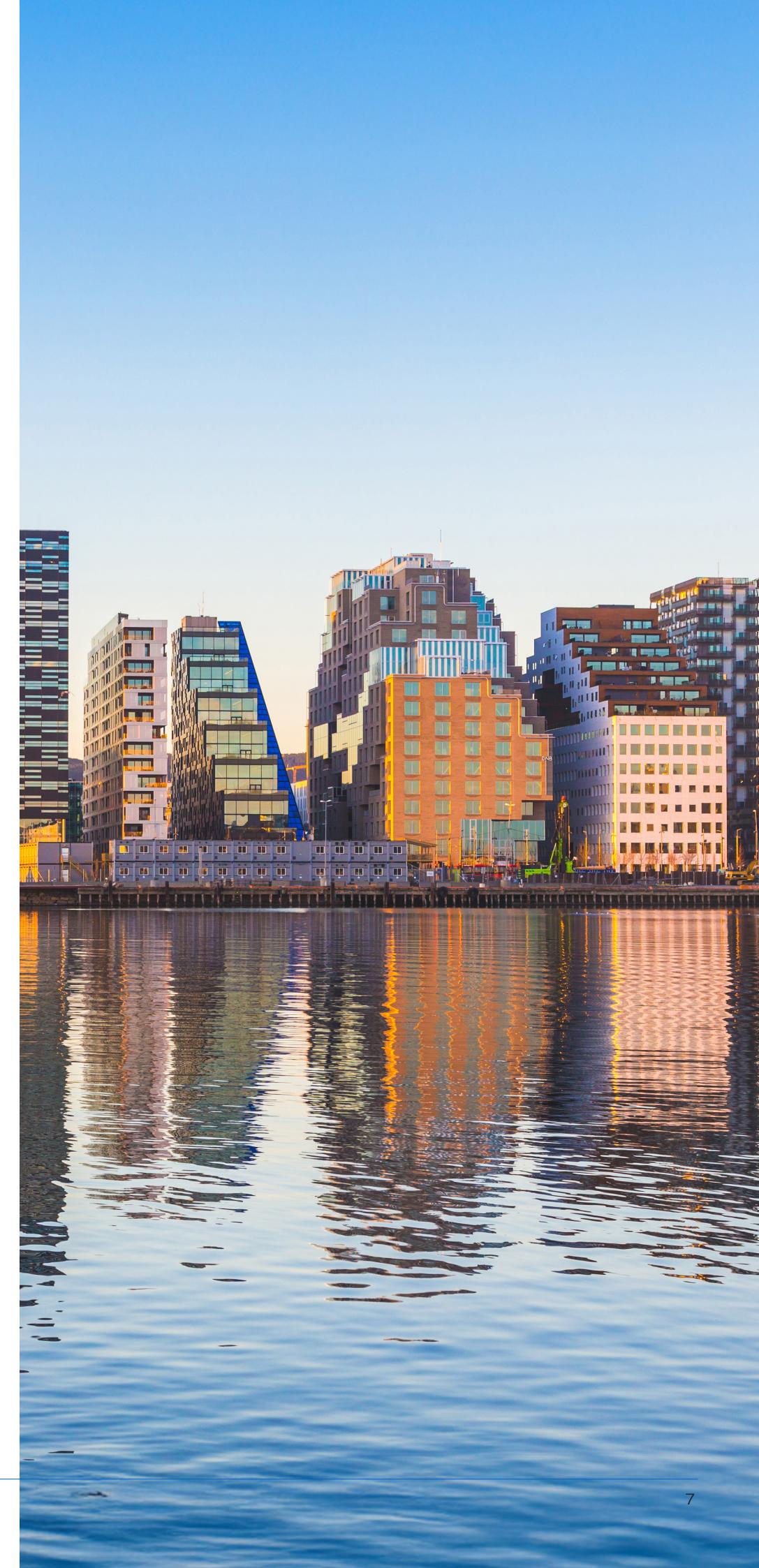
The affordability “crisis” as it has come to be called is no longer limited to low-income households, but it is increasingly affecting the middle classes. Brueckner and Rosenthal (2009) underscore the cyclical nature of gentrification and neighborhood evolution, highlighting how rising costs can lead to displacement and exacerbate wealth inequalities. Respondents in the IMD Smart City Survey who expressed concern about housing affordability also showed apprehension towards the availability of employment and critical services such as healthcare and education. The housing burden is, in addition, constraining labor mobility, leading to a misallocation of workers with potentially severe effects on economic growth (Glaeser and Gyourko, 2018). Cities like New York and San Francisco have adopted stringent regulations for new housing, de facto making housing affordable only to high-productivity workers able to command higher wages (Hsieh and Moretti, 2019).

### The recent surge in immigration has sparked a debate about the role of immigrants on housing costs.

The argument is that when housing supply is constrained (for example, because of stringent regulations), the additional demand for housing by migrants would fuel housing prices. Empirical evidence supports this conjecture: a 1% increase in international immigration translates into a 1% hike in (flat) rental prices (Card, 2007 for the US; Unal et al., 2024 for Germany). The effect is larger when focusing on high-skilled immigrants (Ottaviano and Peri, 2012): US states with a higher share of high (rather than low)-skilled migrants witness larger rent increases.

Seeing these results through the lenses of our sample would imply that in talent-importing cities, such as Zurich, Geneva, and Dubai, the inflow of foreign professionals has contributed to rising rental costs and housing shortages. In Dubai, over 40% of the value of all residential property is held by foreign nationals, thanks to a 20% increase between 2020 and 2022 in foreign-owned residential real estate. Conversely, in talent-exporting cities, such as Mumbai, the outflows of skilled workers ease the pressure on the real estate market. Half of Mumbai’s respondents find affordable housing problematic – a relatively low share compared to other cities. Supply-side constraints and investment-driven speculations may still pose challenges to housing affordability.

The COVID-19 pandemic initially caused a sharp decline in downtown residential prices due to increased teleworking and underutilized commercial spaces, but it was short-lived (Duranton and Handbury, 2023). However, suburban housing prices surged, which led to a lasting “doughnut effect”, where suburbs became preferred over downtown areas by both people and businesses (Ramani and Bloom, 2024). These shifts have further reshaped urban housing demand and affordability dynamics.



## The housing affordability challenge: A growing concern

### Housing affordability is closely tied to transportation infrastructure. Expanding access to affordable housing can be achieved by increasing housing density and improving public transport networks.

Take London and Brussels, two cities where congestion costs commuters over 110 hours per year (TomTom Traffic Index, 2024), and, unsurprisingly, traffic congestion is perceived as problematic by at least three in four respondents in Brussels or London (IMD Smart City Survey). These citizens lament inadequate public transportation - about two in five respondents in Brussels and one in three in London - and deem bike-hiring or car-sharing as rather ineffective tools to reduce congestion -only about half of respondents find these tools useful, and a similar share of respondents agrees that apps that direct drivers to an available parking space have reduced journey times.

City governments play a crucial role in addressing housing challenges through urban planning and transportation policies. The OECD emphasizes the importance of leveraging local policy tools to enhance housing accessibility and affordability. For instance, investments in efficient public transport can expand viable residential areas, connecting lower-cost suburban regions with urban job markets (Ewing and Cervero, 2010). Additionally, streamlining permitting processes and promoting high-density development could help mitigate supply shortages.

### The availability of funding – both public and private – plays a crucial role in housing affordability.

Some governments, particularly in the Middle East, have adopted aggressive strategies to increase supply through massive real estate investments.

As part of UAE Vision 2030, significant efforts were made to diversify the economy and prop up the real estate sector. Large-scale residential investments were facilitated by government-backed initiatives and partnerships with private developers. Dubai's housing boom is driven by favorable taxation and ownership regimes, as well as extensive urban planning

efforts. Some of these elements, such as incentives for foreign investors, are also behind the expansion of the real estate sector in Manama, a new entrant in the Smart City Index ranking.

For cities struggling with affordability, significant dividends could come from leveraging both public and private capital to develop high-density and support transit-oriented housing.

### Climate change adds another layer of complexity to the housing crisis

In the US, homeowners insurance premiums have increased by 13%, in real terms, between 2020 and 2023 (Boomhower et al., 2024). Some insurance companies are no longer offering writing policies in some areas. Climate change is raising insurance premia, as the increased frequency and intensity of natural disasters have led to higher insurance losses.

Rising sea levels, extreme weather events, and natural disasters influence also housing location choices and long-term sustainability. Government interventions, such as constructing sea walls or flood defenses, may unintentionally encourage development in high-risk areas (Hsiao, 2023). Increasing transparency over climate-related risks can shape buyer behavior and help prevent undesirable outcomes. Fairweather et al. (2024) find that when homebuyers have access to flood risk data, they tend to favor safer locations and adjust their willingness to pay accordingly. Policies that enhance the acquisition and diffusion of reliable and accessible data can thus pay large dividends.

In China, research by Zhang et al. (2016) suggests that simply providing buyers with an information card detailing the benefits of green buildings significantly increases their willingness to invest in sustainable housing. This finding underscores the potential of targeted information campaigns to drive environmentally responsible development without excessive costs.

### Addressing the housing crisis requires a multipronged approach that integrates regulatory reforms, economic policy adjustments, and innovative urban planning.

Combining infrastructure investments, incentives, and institutional frameworks will help build a more resilient and inclusive housing market (Ashraf, Glaeser, and Ponzetto, 2016). Implementing such a broad range of interventions can be challenging for advanced economies and even more so for emerging markets given their often-limited implementation capacity. However, confronting the crisis by tackling supply constraints, fostering affordability, and incorporating sustainability into housing policies can create more livable

and more inclusive urban environments, delivering positive economic dividends at the same time.





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# The top 20 cities

|    |            |    |           |
|----|------------|----|-----------|
| 1  | Zurich     | 11 | Helsinki  |
| 2  | Oslo       | 12 | Prague    |
| 3  | Geneva     | 13 | Seoul     |
| 4  | Dubai      | 14 | Beijing   |
| 5  | Abu Dhabi  | 15 | Shanghai  |
| 6  | London     | 16 | Ljubljana |
| 7  | Copenhagen | 17 | Amsterdam |
| 8  | Canberra   | 18 | Stockholm |
| 9  | Singapore  | 19 | Hong Kong |
| 10 | Lausanne   | 20 | Hamburg   |



## Six new cities

-AIULA, Astana (formerly Nur Sultan), Caracas, Kuwait City, Manama, and San Juan - were added to the 2025 Smart City Index (SCI), bringing the total number surveyed from 142 in 2024 to 146 in 2025. Due to a lack of sufficient data, Tianjin and Zhuhai were excluded from the sample considered.



## Once again, the rankings remain stable with minimal shifts among the top 20 cities.

The only changes here relative to last year concern Taipei City, which slid from 16th in 2024 to 23rd in 2025, and Ljubljana which jumped from 32nd to 16th.



## The methodology remains consistent over time.

The ranking assesses how urban technologies and infrastructure perform in five key areas – health and safety, mobility, activities, opportunities, and governance. To ensure accuracy and mitigate the influence of potential outliers, we employ a three-year moving average of residents' perceptions along the different issues considered.



## Zurich holds onto the top spot for another year, continuing the existing trend of strong performances

by Swiss cities across all dimensions the SCI evaluates. Middle Eastern cities such as Dubai and Abu Dhabi rose in the 2025 ranking from 12th and 10th position to fourth and fifth, respectively.



## The SCI is based on the survey responses of residents from a heterogeneous group of cities.

To enable comparability across similar environments, responses are calibrated to the local context by incorporating the city-level Subnational Human Development Index (SHDI) from the Global Data Lab.

# The IMD World Competitiveness Center

For over thirty years, the IMD World Competitiveness Center has pioneered research on how countries and companies compete to lay the foundations for sustainable value creation. The competitiveness of nations is probably one of the most significant developments in modern management and IMD is committed to leading the field.

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# IMD Smart City Index

# 2025

User guide

# How to read a profile

SMART CITY RANKING  
**17**  
Out of 146

 18 in 2024  
Out of 142

SMART CITY RATING  
**A**

 A in 2024

FACTOR RATINGS

**AA**

STRUCTURES

**AA**

TECHNOLOGIES

GROUP

**1**

All ratings range from AAA to D

## Smart City Ranking

**Smart City Ranking:** The Ranking position of the city amongst the 146 cities measured, based upon the Rating and its components.

**Group:** Each city is assigned to one of four groups, based upon its HDI values.

**Smart City Rating and Factor Ratings:** The Ratings for each city are calculated from the city's performance relative to the other cities within the group.

The Methodology section provides the exact procedure for these calculations.

The 2024 Ranking and Rating are also shown for the 142 cities included in the last edition's index.

## BACKGROUND INFORMATION

### City

Population 1,180,000  
(UN World Urbanization Prospects)

HDI 0.964  
(Global Data Lab)



### Country

#### Netherlands

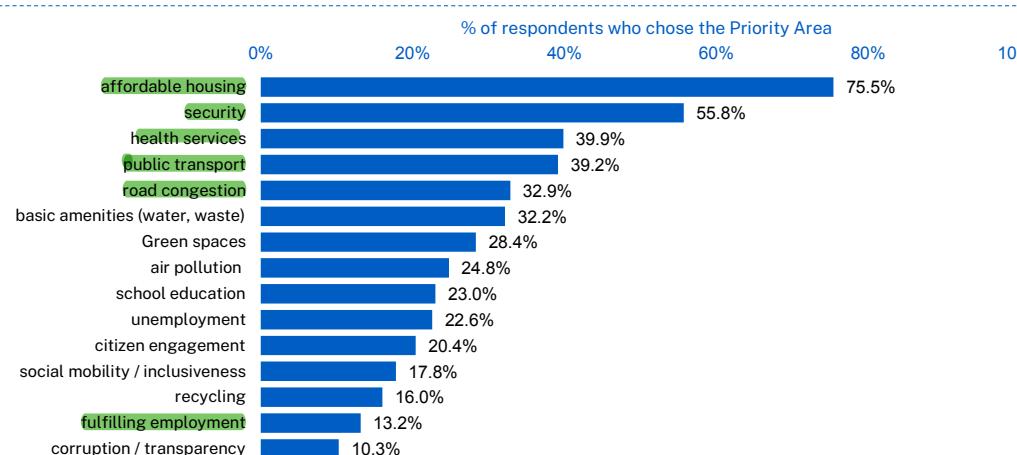
|                             | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.932  | 0.933  | 0.936  | 0.939  | +0.003      |
| Life expectancy at birth    | 82.0   | 81.6   | 81.7   | 82.5   | +0.8        |
| Expected years of schooling | 18.4   | 18.4   | 18.6   | 18.6   | +0.0        |
| Mean years of schooling     | 12.5   | 12.6   | 12.6   | 12.6   | +0.0        |
| GNI per capita (PPP \$)     | 55,628 | 52,500 | 55,355 | 57,278 | +1,923      |

## Priority Areas

Summarizes the areas that the respondents perceive as the priority area for their city. From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. The total bar indicates the percentage of the respondents that included a given area as one of their five choices. The higher the percentage of responses per area, the greater the priority for the city.

### PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. The higher the percentage of responses per area, the greater the priority for the city.



## Background Information

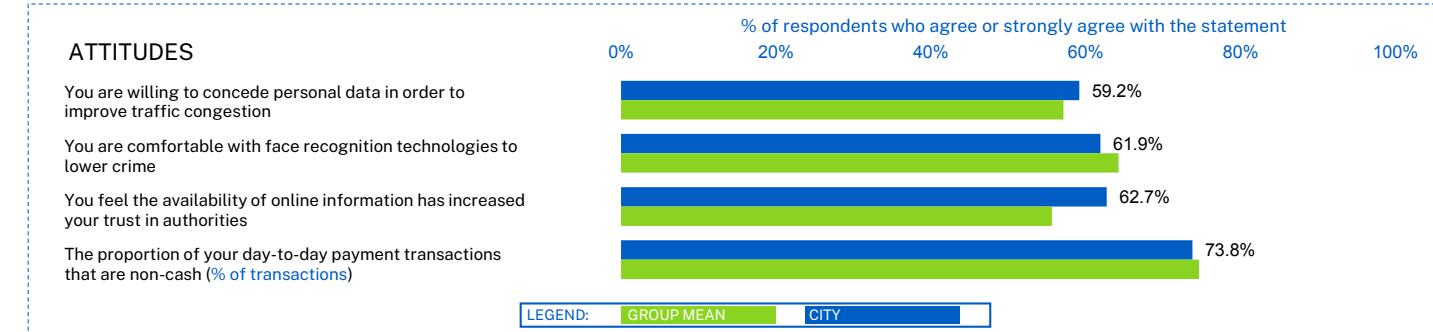
This section presents the Human Development Index (HDI) at the city level taken from the Global Data Lab, and the population of the city as defined through the United Nations World Urbanization Prospects for the majority of cities, or Eurostat for some of European cities.

It also presents the United Nations HDI (country-level - for the parent economy of a given city) and its four components, as well as the city's position on the map. Please note: for Taipei City only, the data is calculated using the same methodology and comparable data.

## How to read a profile

# Attitudes

Shows and compares the responses to three key privacy aspects (willingness to concede personal data, comfort vis-à-vis face recognition, and whether online information has increased trust in authorities) and the percentage of day-to-day transactions that are non-cash. The city is represented by the blue bar, while the group average is shown by the green bar.



# Structures and Technologies

Key survey data collected on Structures (left side) and Technologies (right side), under five key areas: health and safety, mobility, activities, opportunities, and governance.

Each indicator presents the Score for the city and a comparison with its Group (1-4). Showing the Group's Minimum, Mean, and Maximum Scores (green bar) alongside with the city (blue circle) allows a clear comparison of the city's performance in this indicator. The Methodology section provides the exact calculation of the Score.

This table can be read in two ways: down to examine all Structures or Technologies indicators, or across to examine a key area in both Structures and Technologies.



# Methodology

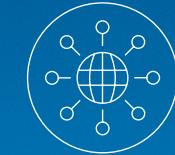
- 
- 1** The IMD Smart City Index 2025 assesses the perceptions of residents on issues related to structures and technology applications available to them in their city.
- 
- 2** This edition of the SCI ranks 146 cities worldwide by capturing the perceptions of 120 residents in each city. The final score for each city is computed by using the perceptions of the last three years of the survey, with the weight of 3 : 2 : 1 for 2025 : 2024 : 2023.
- 
- 3** There are two pillars for which perceptions from residents are solicited: The Structures pillar referring to the existing infrastructure of the cities, and the Technology pillar describing the technological provisions and services available to the inhabitants.
- 
- 4** Each pillar is evaluated over five key areas: health and safety, mobility, activities, opportunities, and governance.
- 

- 
- 5** The cities are distributed into four groups based on the Global Data Lab's Subnational Human Development Index (SHDI) score of the city they are part of.
- 
- Within each SHDI group, cities are assigned a 'rating scale' (AAA to D) based on the perceptions-score of a given city compared to the scores of all other cities within the same group.
- For group 1** (highest SHDI quartile), scale
- AAA-AA-A-BBB-BB**
- For group 2** (second SHDI quartile), scale
- A-BBB-BB-B-CCC**
- For group 3** (third SHDI quartile), scale
- BB-B-CCC-CC-C**
- For group 4** (lowest SHDI quartile), scale
- CCC-CC-C-D**
- 
- 7** **Rankings are then presented in two formats:**
- an overall ranking (1 to 146)
  - a rating for each pillar and overall
-

# Sources



The SCI is derived from survey responses collected from residents of participating cities. To **encourage the comparability of results across diverse global contexts**, these responses are calibrated using the region-level Subnational Human Development Index (SHDI), provided by the Global Data Lab.



In addition, **data on city population is included for context**, although it is not factored into the rankings or ratings. Population figures are sourced from the UN's World Urbanization Prospects, Eurostat, or, when necessary, the respective national census authority.



# IMD Smart City Index

# 2025

Results

# IMD Smart City Index 2025: Results

In 2025 city ranking order and 2024 comparison

| City        | Smart City Rank 2025 | Smart City Rating 2025 | Structure 2025 | Technology 2025 | Smart City Rank 2024 | Change |
|-------------|----------------------|------------------------|----------------|-----------------|----------------------|--------|
| Zurich      | 1                    | AAA                    | AAA            | AAA             | 1                    | —      |
| Oslo        | 2                    | AAA                    | AAA            | AAA             | 2                    | —      |
| Geneva      | 3                    | AAA                    | AAA            | AAA             | 4                    | ▲1     |
| Dubai       | 4                    | A                      | A              | A               | 12                   | ▲8     |
| Abu Dhabi   | 5                    | A                      | A              | A               | 10                   | ▲5     |
| London      | 6                    | AA                     | AAA            | AAA             | 8                    | ▲2     |
| Copenhagen  | 7                    | AAA                    | AAA            | AA              | 6                    | ▼1     |
| Canberra    | 8                    | AAA                    | AAA            | A               | 3                    | ▼5     |
| Singapore   | 9                    | AAA                    | AAA            | AAA             | 5                    | ▼4     |
| Lausanne    | 10                   | AAA                    | AA             | AA              | 7                    | ▼3     |
| Helsinki    | 11                   | AA                     | AA             | AA              | 9                    | ▼2     |
| Prague      | 12                   | AA                     | AA             | AA              | 15                   | ▲3     |
| Seoul       | 13                   | BBB                    | AA             | AAA             | 17                   | ▲4     |
| Beijing     | 14                   | BB                     | BB             | BB              | 13                   | ▼1     |
| Shanghai    | 15                   | BB                     | BB             | BB              | 19                   | ▲4     |
| Ljubljana   | 16                   | AA                     | AA             | AA              | 32                   | ▲16    |
| Amsterdam   | 17                   | A                      | AA             | AA              | 18                   | ▲1     |
| Stockholm   | 18                   | AA                     | AA             | A               | 11                   | ▼7     |
| Hong Kong   | 19                   | BBB                    | A              | AAA             | 20                   | ▲1     |
| Hamburg     | 20                   | AA                     | A              | BBB             | 14                   | ▼6     |
| Reykjavik   | 21                   | AA                     | A              | A               | 26                   | ▲5     |
| Tallinn     | 22                   | A                      | A              | A               | 24                   | ▲2     |
| Taipei City | 23                   | A                      | A              | A               | 16                   | ▼7     |
| Munich      | 24                   | A                      | A              | A               | 21                   | ▼3     |
| Auckland    | 25                   | A                      | A              | AA              | 31                   | ▲6     |

| City       | Smart City Rank 2025 | Smart City Rating 2025 | Structure 2025 | Technology 2025 | Smart City Rank 2024 | Change |
|------------|----------------------|------------------------|----------------|-----------------|----------------------|--------|
| Vienna     | 26                   | A                      | A              | A               | 23                   | ▼3     |
| Riyadh     | 27                   | BB                     | BB             | BB              | 25                   | ▼2     |
| Warsaw     | 28                   | BBB                    | A              | A               | 38                   | ▲10    |
| Bilbao     | 29                   | A                      | A              | BBB             | 29                   | —      |
| Wellington | 30                   | A                      | A              | BB              | 28                   | ▼2     |
| Luxembourg | 31                   | A                      | A              | BBB             | 27                   | ▼4     |
| Sydney     | 32                   | A                      | A              | A               | 22                   | ▼10    |
| Doha       | 33                   | BB                     | BB             | BB              | 48                   | ▲15    |
| Vilnius    | 34                   | BBB                    | A              | A               | 47                   | ▲13    |
| Boston     | 35                   | A                      | BBB            | BBB             | 36                   | ▲1     |
| Manama     | 36                   | BB                     | BB             | BB              |                      | NEW    |
| Berlin     | 37                   | A                      | BBB            | BBB             | 37                   | —      |
| Madrid     | 38                   | BB                     | BBB            | A               | 35                   | ▼3     |
| Mecca      | 39                   | BB                     | BB             | BB              | 52                   | ▲13    |
| Gothenburg | 40                   | BBB                    | BBB            | BB              | 39                   | ▼1     |
| Rotterdam  | 41                   | BB                     | BBB            | BBB             | 41                   | —      |
| Ottawa     | 42                   | A                      | BBB            | B               | 46                   | ▲4     |
| The Hague  | 43                   | BBB                    | BBB            | BBB             | 42                   | ▼1     |
| Melbourne  | 44                   | BBB                    | BBB            | BB              | 33                   | ▼11    |
| Dusseldorf | 45                   | BBB                    | BBB            | BB              | 44                   | ▼1     |
| Riga       | 46                   | BBB                    | BBB            | BBB             | 59                   | ▲13    |
| Jeddah     | 47                   | B                      | BB             | BB              | 55                   | ▲8     |
| Brussels   | 48                   | BB                     | BBB            | A               | 40                   | ▼8     |
| New York   | 49                   | BB                     | BBB            | BBB             | 34                   | ▼15    |
| Shenzhen   | 50                   | CCC                    | CCC            | CCC             | 60                   | ▲10    |

# IMD Smart City Index 2025: Results

In 2025 city ranking order and 2024 comparison

| City            | Smart City Rank 2025 | Smart City Rating 2025 | Structure 2025 | Technology 2025 | Smart City Rank 2024 | Change |
|-----------------|----------------------|------------------------|----------------|-----------------|----------------------|--------|
| Brisbane        | 51                   | BBB                    | BBB            | BB              | 30                   | ▼21    |
| Zaragoza        | 52                   | BBB                    | BBB            | BBB             | 57                   | ▲5     |
| Vancouver       | 53                   | BBB                    | BB             | BB              | 43                   | ▼10    |
| Hangzhou        | 54                   | CCC                    | CCC            | CCC             | 64                   | ▲10    |
| Guangzhou       | 55                   | CCC                    | CCC            | CCC             | 65                   | ▲10    |
| Seattle         | 56                   | BBB                    | BB             | BB              | 63                   | ▲7     |
| Bratislava      | 57                   | BB                     | BB             | BBB             | 56                   | ▼1     |
| Nanjing         | 58                   | B                      | B              | B               | 62                   | ▲4     |
| Hanover         | 59                   | A                      | BBB            | B               | 53                   | ▼6     |
| Busan           | 60                   | B                      | BB             | A               | 45                   | ▼15    |
| Al-Khobar       | 61                   | B                      | B              | B               | 99                   | ▲38    |
| Washington D.C. | 62                   | BB                     | BB             | BB              | 50                   | ▼12    |
| Toronto         | 63                   | BBB                    | BB             | BB              | 51                   | ▼12    |
| Manchester      | 64                   | BB                     | BB             | BBB             | 71                   | ▲7     |
| Kuala Lumpur    | 65                   | B                      | B              | B               | 73                   | ▲8     |
| Dublin          | 66                   | BB                     | BB             | BBB             | 69                   | ▲3     |
| Medina          | 67                   | CCC                    | B              | B               | 74                   | ▲7     |
| Denver          | 68                   | BB                     | BB             | BB              | 66                   | ▼2     |
| Chongqing       | 69                   | CCC                    | CCC            | CCC             | 82                   | ▲13    |
| Krakow          | 70                   | B                      | B              | B               | 76                   | ▲6     |
| Paris           | 71                   | BB                     | BB             | A               | 49                   | ▼22    |
| Leeds           | 72                   | BB                     | BB             | B               | 72                   | —      |
| Lyon            | 73                   | B                      | BB             | BB              | 61                   | ▼12    |
| Kiel            | 74                   | BBB                    | BB             | CCC             | 79                   | ▲5     |
| Newcastle       | 75                   | BB                     | B              | CCC             | 77                   | ▲2     |

| City          | Smart City Rank 2025 | Smart City Rating 2025 | Structure 2025 | Technology 2025 | Smart City Rank 2024 | Change |
|---------------|----------------------|------------------------|----------------|-----------------|----------------------|--------|
| Chengdu       | 76                   | CCC                    | CCC            | CCC             | 93                   | ▲17    |
| Bordeaux      | 77                   | B                      | B              | CCC             | 70                   | ▼7     |
| Bucharest     | 78                   | CCC                    | BB             | BBB             | 100                  | ▲22    |
| Chicago       | 79                   | B                      | BB             | BB              | 67                   | ▼12    |
| Birmingham    | 80                   | B                      | B              | B               | 83                   | ▲3     |
| Montreal      | 81                   | BB                     | B              | CCC             | 80                   | ▼1     |
| San Francisco | 82                   | BB                     | B              | B               | 75                   | ▼7     |
| Bologna       | 83                   | BB                     | B              | B               | 78                   | ▼5     |
| Budapest      | 84                   | CCC                    | B              | BBB             | 89                   | ▲5     |
| Zagreb        | 85                   | B                      | B              | B               | 102                  | ▲17    |
| Bangkok       | 86                   | CC                     | CCC            | B               | 84                   | ▼2     |
| Muscat        | 87                   | CCC                    | CCC            | CCC             | 88                   | ▲1     |
| Hanoi         | 88                   | CCC                    | CCC            | CCC             | 97                   | ▲9     |
| Cardiff       | 89                   | B                      | CCC            | CC              | 92                   | ▲3     |
| Kuwait City   | 90                   | CCC                    | CCC            | B               |                      | NEW    |
| Los Angeles   | 91                   | B                      | B              | BB              | 68                   | ▼23    |
| Barcelona     | 92                   | CCC                    | B              | BB              | 81                   | ▼11    |
| Lille         | 93                   | CCC                    | CCC            | CCC             | 85                   | ▼8     |
| Belfast       | 94                   | CCC                    | CCC            | CC              | 101                  | ▲7     |
| Glasgow       | 95                   | B                      | CCC            | CCC             | 87                   | ▼8     |
| Tel Aviv      | 96                   | B                      | CCC            | B               | 94                   | ▼2     |
| Milan         | 97                   | CCC                    | CCC            | BB              | 91                   | ▼6     |
| Ankara        | 98                   | CCC                    | CCC            | CCC             | 96                   | ▼2     |
| Osaka         | 99                   | BB                     | CCC            | CCC             | 95                   | ▼4     |
| Philadelphia  | 100                  | CCC                    | CCC            | CCC             | 90                   | ▼10    |

# IMD Smart City Index 2025: Results

In 2025 city ranking order and 2024 comparison

| City             | Smart City Rank 2025 | Smart City Rating 2025 | Structure 2025 | Technology 2025 | Smart City Rank 2024 | Change |
|------------------|----------------------|------------------------|----------------|-----------------|----------------------|--------|
| Ho Chi Minh City | 101                  | CCC                    | CCC            | CC              | 105                  | ▲4     |
| Astana           | 102                  | CC                     | CC             | CCC             |                      | NEW    |
| Jakarta          | 103                  | CC                     | CCC            | CCC             | 103                  | —      |
| Delhi            | 104                  | CC                     | CC             | CCC             | 106                  | ▲2     |
| Phoenix          | 105                  | CCC                    | CC             | C               | 98                   | ▼7     |
| Mumbai           | 106                  | CC                     | CC             | CC              | 107                  | ▲1     |
| Marseille        | 107                  | CCC                    | CCC            | CCC             | 104                  | ▼3     |
| Tokyo            | 108                  | BB                     | BB             | BB              | 86                   | ▼22    |
| Hyderabad        | 109                  | CCC                    | CC             | CC              | 111                  | ▲2     |
| Bengaluru        | 110                  | CC                     | CC             | CC              | 109                  | ▼1     |
| Istanbul         | 111                  | C                      | CC             | CCC             | 110                  | ▼1     |
| AlUla            | 112                  | CC                     | CC             | CC              |                      | NEW    |
| Medan            | 113                  | CC                     | CC             | CC              | 112                  | ▼1     |
| Makassar         | 114                  | CC                     | CC             | CC              | 115                  | ▲1     |
| Lisbon           | 115                  | CC                     | CC             | CC              | 108                  | ▼7     |
| Islamabad        | 116                  | CC                     | CC             | CC              | 116                  | —      |
| Cairo            | 117                  | C                      | CC             | CC              | 114                  | ▼3     |
| Medellin         | 118                  | CC                     | CC             | CC              | 119                  | ▲1     |
| Mexico City      | 119                  | C                      | CC             | CC              | 122                  | ▲3     |
| Santiago         | 120                  | C                      | CC             | CC              | 117                  | ▼3     |
| Sofia            | 121                  | CC                     | C              | CC              | 113                  | ▼8     |
| Nicosia          | 122                  | CC                     | C              | C               | 118                  | ▼4     |
| Rabat            | 123                  | CC                     | C              | C               | 126                  | ▲3     |

| City           | Smart City Rank 2025 | Smart City Rating 2025 | Structure 2025 | Technology 2025 | Smart City Rank 2024 | Change |
|----------------|----------------------|------------------------|----------------|-----------------|----------------------|--------|
| Cape Town      | 124                  | C                      | C              | C               | 129                  | ▲5     |
| Manila         | 125                  | C                      | C              | C               | 121                  | ▼4     |
| San José       | 126                  | CC                     | C              | C               | 125                  | ▼1     |
| Amman          | 127                  | C                      | C              | C               | 128                  | ▲1     |
| Algiers        | 128                  | C                      | C              | C               | 124                  | ▼4     |
| Athens         | 129                  | CCC                    | CCC            | CCC             | 120                  | ▼9     |
| Brasilia       | 130                  | C                      | C              | C               | 130                  | —      |
| Buenos Aires   | 131                  | C                      | C              | C               | 123                  | ▼8     |
| San Juan       | 132                  | C                      | C              | C               |                      | NEW    |
| Abuja          | 133                  | C                      | C              | D               | 135                  | ▲2     |
| Bogota         | 134                  | C                      | C              | C               | 127                  | ▼7     |
| Lagos          | 135                  | C                      | C              | D               | 136                  | ▲1     |
| Nairobi        | 136                  | D                      | D              | C               | 131                  | ▼5     |
| Sao Paulo      | 137                  | D                      | D              | C               | 132                  | ▼5     |
| Lima           | 138                  | C                      | C              | C               | 134                  | ▼4     |
| Rome           | 139                  | CCC                    | CCC            | CCC             | 133                  | ▼6     |
| Caracas        | 140                  | D                      | D              | D               |                      | NEW    |
| Accra          | 141                  | D                      | D              | D               | 138                  | ▼3     |
| Tunis          | 142                  | D                      | D              | D               | 137                  | ▼5     |
| Beirut         | 143                  | D                      | D              | D               | 140                  | ▼3     |
| Guatemala City | 144                  | D                      | D              | D               | 142                  | ▼2     |
| Sana'a         | 145                  | D                      | D              | D               | 141                  | ▼4     |
| Rio de Janeiro | 146                  | D                      | D              | D               | 139                  | ▼7     |

# IMD Smart City Index

# 2025

City profiles

# Abu Dhabi

SMART  
CITY  
RANKING

**5**

Out of 146



10 in 2024  
Out of 142

SMART  
CITY RATING

**A**

BB in 2024

FACTOR  
RATINGS

**A**

STRUCTURES

**A**

TECHNOLOGIES

GROUP

**2**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 1,590,000  
(UN World Urbanization Prospects)

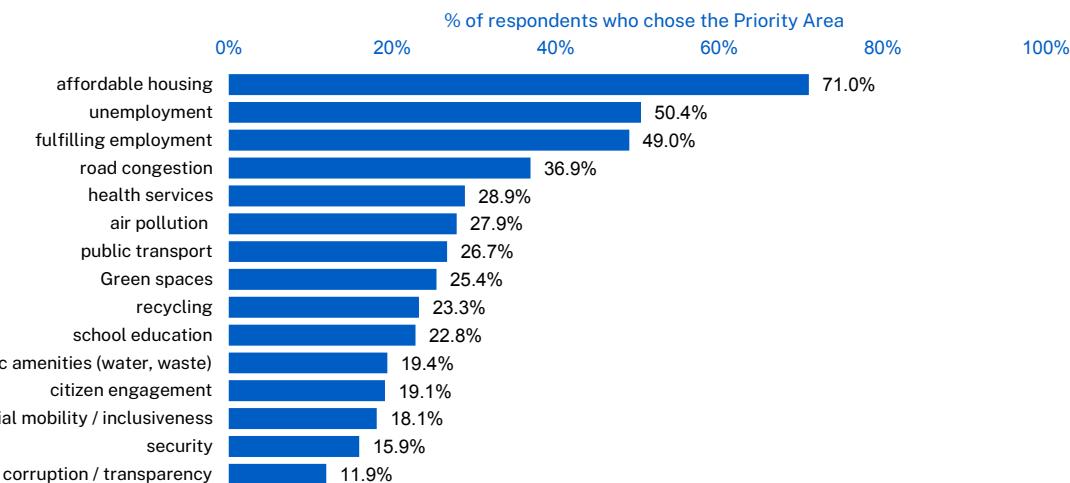
HDI 0.937  
(Global Data Lab)



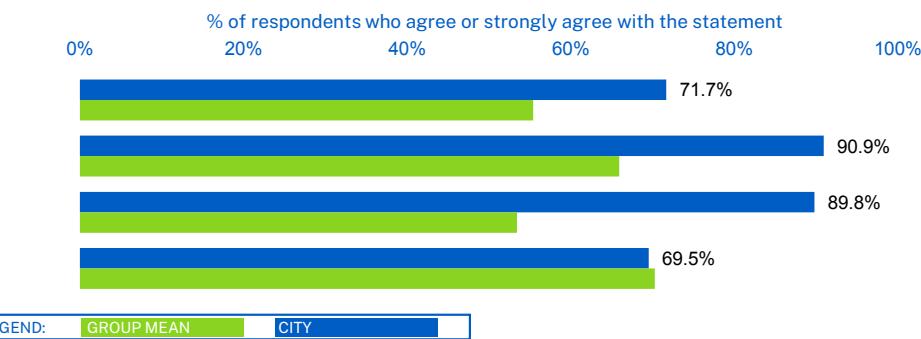
### Country

| United Arab Emirates        | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.860  | 0.866  | 0.898  | 0.917  | +0.019      |
| Life expectancy at birth    | 79.7   | 78.9   | 78.7   | 79.2   | +0.5        |
| Expected years of schooling | 16.8   | 17.2   | 17.2   | 17.2   | +0.0        |
| Mean years of schooling     | 12.7   | 12.7   | 12.8   | 12.8   | +0.0        |
| GNI per capita (PPP \$)     | 72,131 | 67,353 | 69,550 | 74,104 | +4,553      |

## PRIORITY AREAS



## ATTITUDES



LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

### Score

0 20 40 60 80 100

#### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem

85.1  
83.7  
64.1  
49.0  
84.7  
46.1

#### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory

50.5  
82.6

#### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory

83.8  
83.6

#### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome

61.8  
76.5  
72.1  
68.8  
81.1

#### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects

82.9  
61.8  
66.6  
69.9

## TECHNOLOGIES

### Score

0 20 40 60 80 100

#### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access

75.7  
73.8  
74.6  
88.4  
59.9  
84.3

#### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones

69.6  
67.0  
65.7  
79.1  
82.3

#### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend

87.7

#### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs

76.1  
78.8  
77.9  
88.1

#### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times

73.9  
71.5  
78.2  
84.2

# Abuja

SMART  
CITY  
RANKING  
**133**

Out of 146



135 in 2024  
Out of 142

SMART  
CITY RATING

**C**

D in 2024

FACTOR  
RATINGS

**C**

STRUCTURES

**D**

TECHNOLOGIES

GROUP

**4**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 4,030,000  
(UN World Urbanization Prospects)

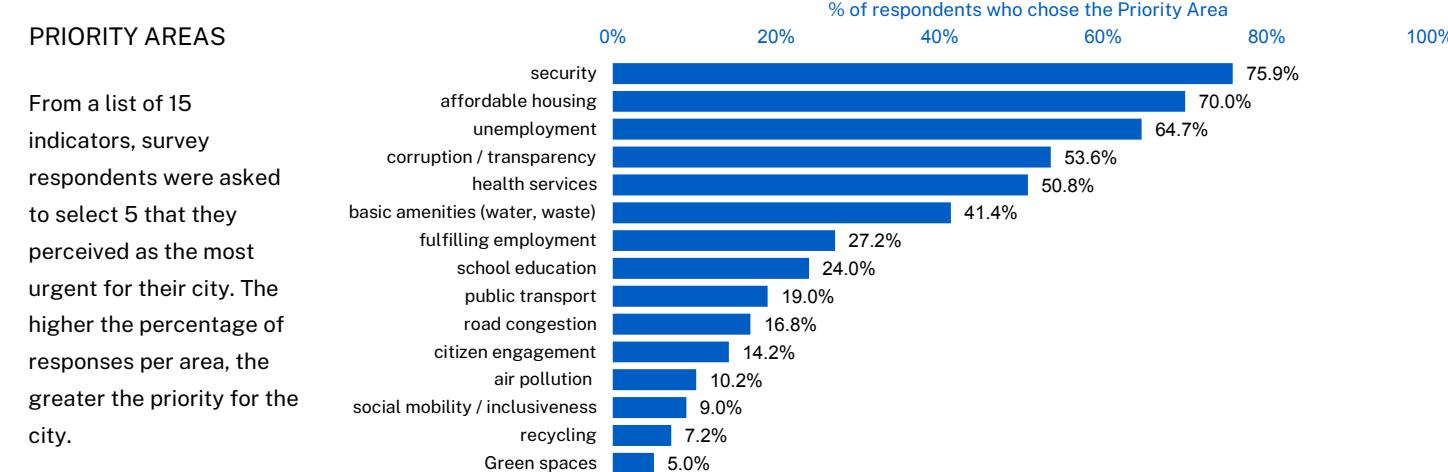
HDI 0.678  
(Global Data Lab)



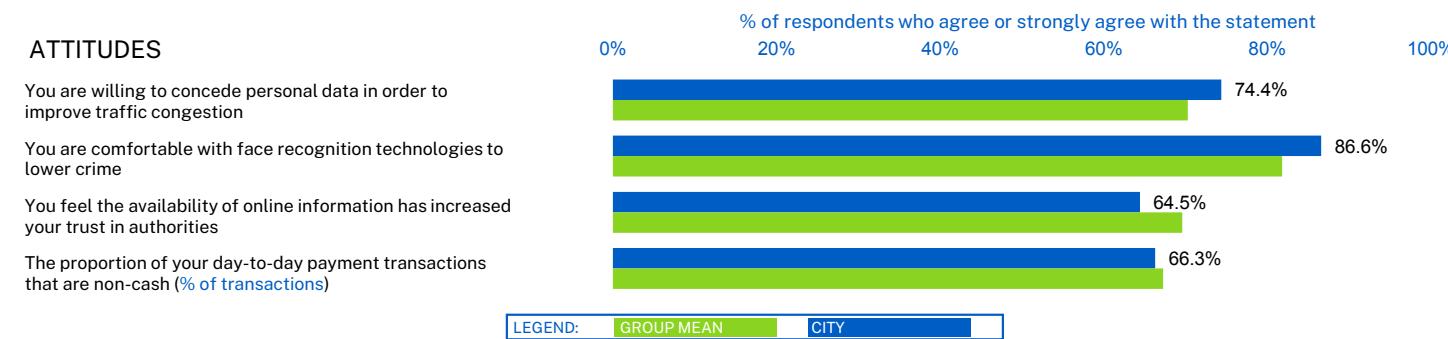
### Country

| Nigeria                     | 2019  | 2020  | 2021  | 2022  | 1 yr change |
|-----------------------------|-------|-------|-------|-------|-------------|
| HDI                         | 0.520 | 0.526 | 0.528 | 0.530 | +0.002      |
| Life expectancy at birth    | 52.9  | 52.9  | 52.7  | 53.6  | +1.0        |
| Expected years of schooling | 10.1  | 10.3  | 10.5  | 10.5  | +0.0        |
| Mean years of schooling     | 7.2   | 7.4   | 7.6   | 7.6   | +0.0        |
| GNI per capita (PPP \$)     | 4,914 | 4,685 | 4,716 | 4,755 | +39         |

## PRIORITY AREAS



## ATTITUDES

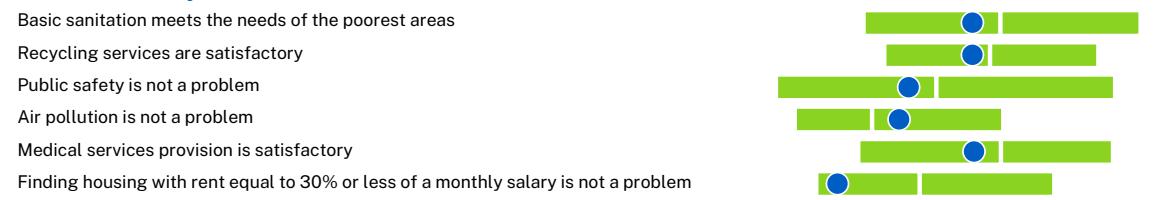


LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



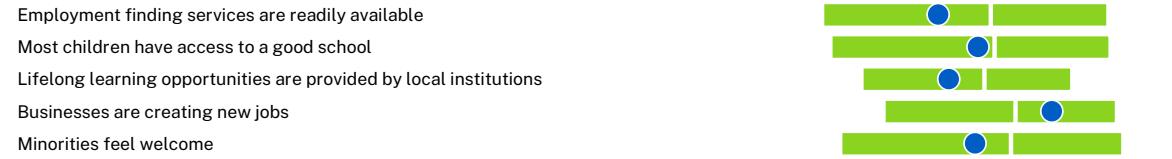
### Mobility



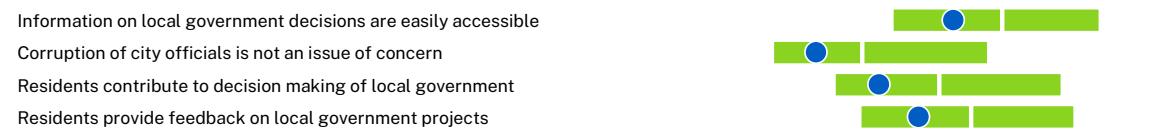
### Activities



### Opportunities (Work & School)



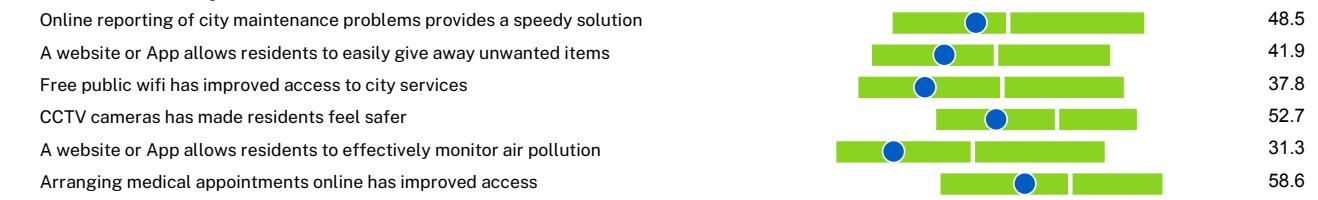
### Governance



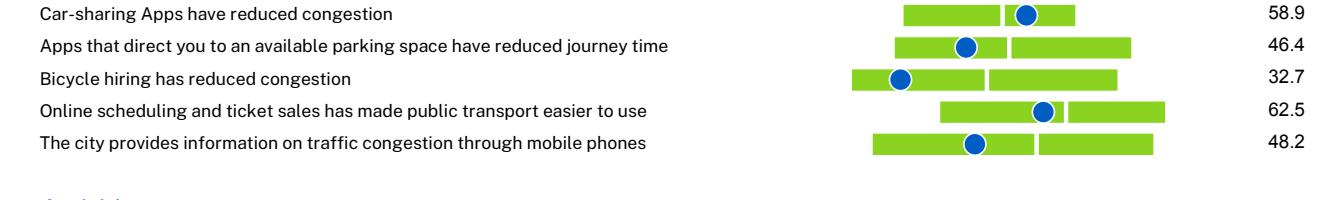
## TECHNOLOGIES

Score

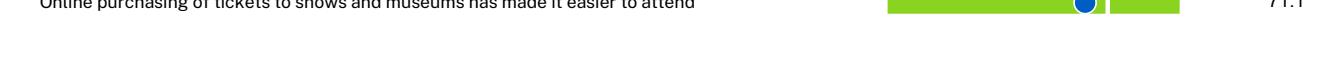
### Health & Safety



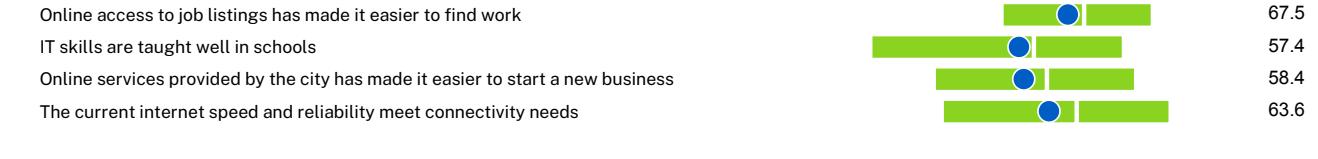
### Mobility



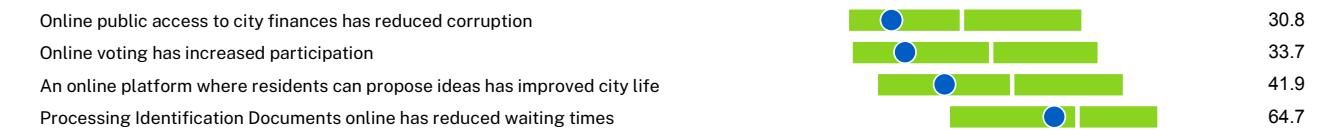
### Activities



### Opportunities (Work & School)



### Governance



All ratings range  
from AAA to D

SMART  
CITY  
RANKING  
**141**

Out of 146

138 in 2024  
Out of 142

SMART  
CITY RATING

**D**

D in 2024

FACTOR  
RATINGS

**D**

STRUCTURES

**D**

TECHNOLOGIES

**4**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 2,720,000  
(UN World Urbanization Prospects)

HDI 0.670  
(Global Data Lab)

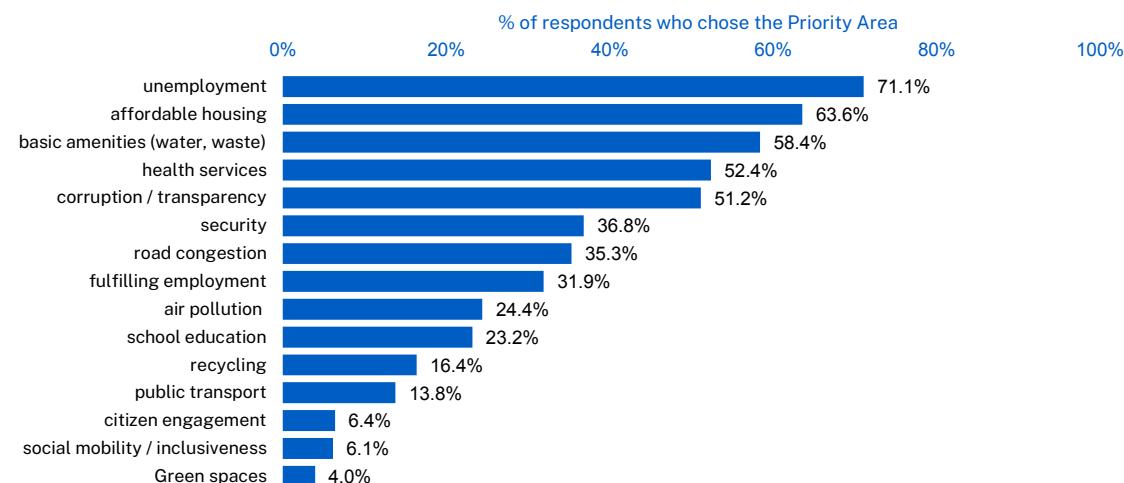


138 in 2024  
Out of 142

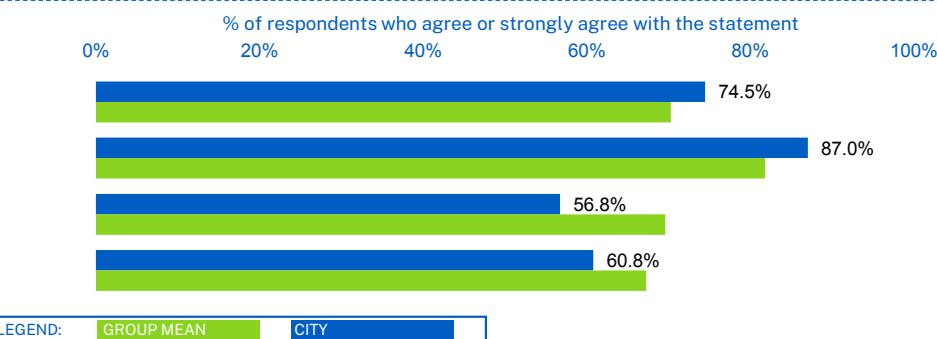
### Country

| Ghana                       | 2019  | 2020  | 2021  | 2022  | 1 yr change |
|-----------------------------|-------|-------|-------|-------|-------------|
| HDI                         | 0.586 | 0.586 | 0.585 | 0.589 | +0.004      |
| Life expectancy at birth    | 64.7  | 64.1  | 63.8  | 63.9  | +0.1        |
| Expected years of schooling | 11.3  | 11.4  | 11.6  | 11.6  | +0.0        |
| Mean years of schooling     | 6.3   | 6.4   | 6.4   | 6.4   | +0.0        |
| GNI per capita (PPP \$)     | 5,121 | 5,305 | 5,279 | 5,380 | +102        |

## PRIORITY AREAS



## ATTITUDES



LEGEND: GROUP MEAN CITY

D in 2024

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem



### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access

Score

0 20 40 60 80 100

## TECHNOLOGIES



### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory



### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones

Score

0 20 40 60 80 100

### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory



### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend

Score

0 20 40 60 80 100

### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome



### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs

Score

0 20 40 60 80 100

### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects



### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times

Score

0 20 40 60 80 100

# Al-Khobar

SMART  
CITY  
RANKING  
**61**

Out of 146



99 in 2024  
Out of 142

SMART  
CITY RATING



CCC in 2024

FACTOR  
RATINGS



STRUCTURES



TECHNOLOGIES

GROUP



All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 410,000

(Census)

HDI 0.862

(Global Data Lab)



### Country

Saudi Arabia

2019

2020

2021

2022

1 yr change

HDI 0.842

Life expectancy at birth 77.3

Expected years of schooling 15.0

Mean years of schooling 10.9

GNI per capita (PPP \$) 47,529

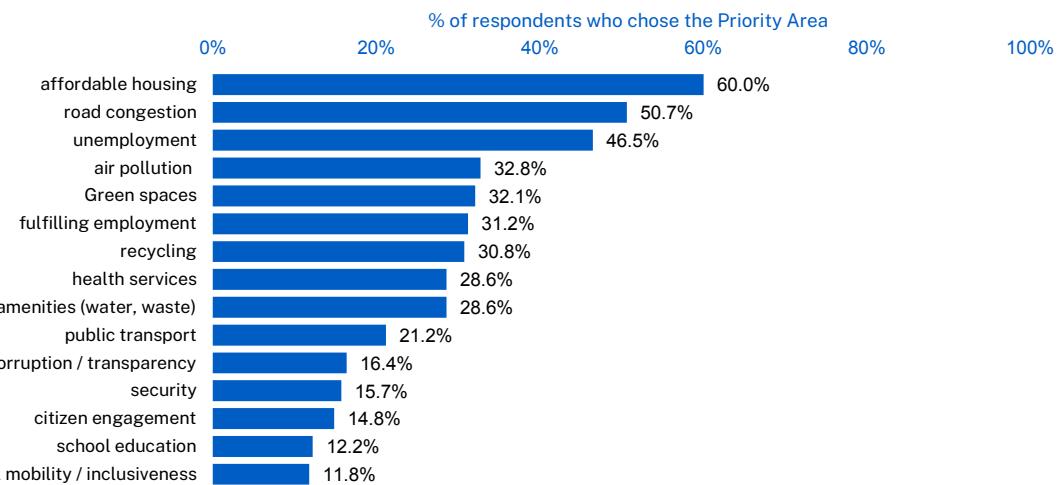
45,563

47,441

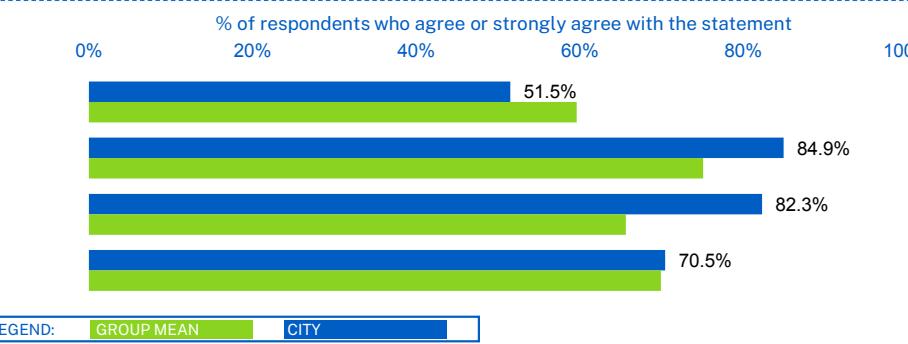
50,620

+3,179

## PRIORITY AREAS



## ATTITUDES



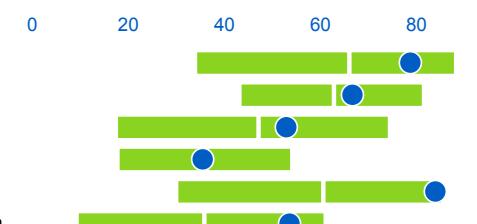
LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety

Basic sanitation meets the needs of the poorest areas



### Health & Safety

Online reporting of city maintenance problems provides a speedy solution



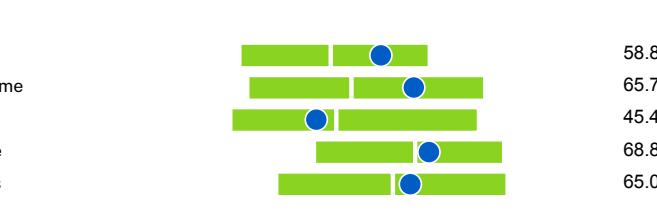
### Mobility

Traffic congestion is not a problem



### Mobility

Car-sharing Apps have reduced congestion



### Activities

Green spaces are satisfactory



### Activities

Online purchasing of tickets to shows and museums has made it easier to attend



### Opportunities (Work & School)

Employment finding services are readily available



### Opportunities (Work & School)

Online access to job listings has made it easier to find work



Most children have access to a good school

Lifelong learning opportunities are provided by local institutions

Businesses are creating new jobs

Minorities feel welcome



IT skills are taught well in schools

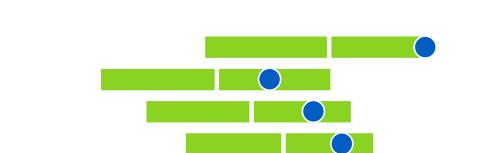
Online services provided by the city has made it easier to start a new business

The current internet speed and reliability meet connectivity needs



### Governance

Information on local government decisions are easily accessible



### Governance

Online public access to city finances has reduced corruption



Corruption of city officials is not an issue of concern

Residents contribute to decision making of local government

Residents provide feedback on local government projects

# Algiers

SMART  
CITY  
RANKING  
**128**

Out of 146



124 in 2024  
Out of 142

SMART  
CITY RATING

**C**

C in 2024

FACTOR  
RATINGS

**C**

STRUCTURES

TECHNOLOGIES

**C**

GROUP

**4**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 2,950,000  
(UN World Urbanization Prospects)

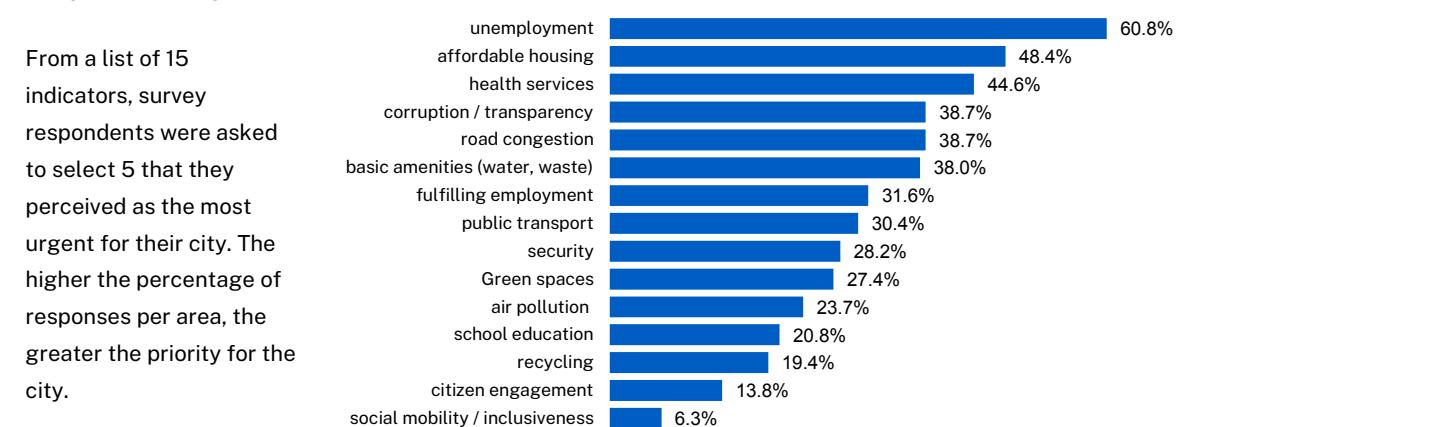
HDI 0.766  
(Global Data Lab)



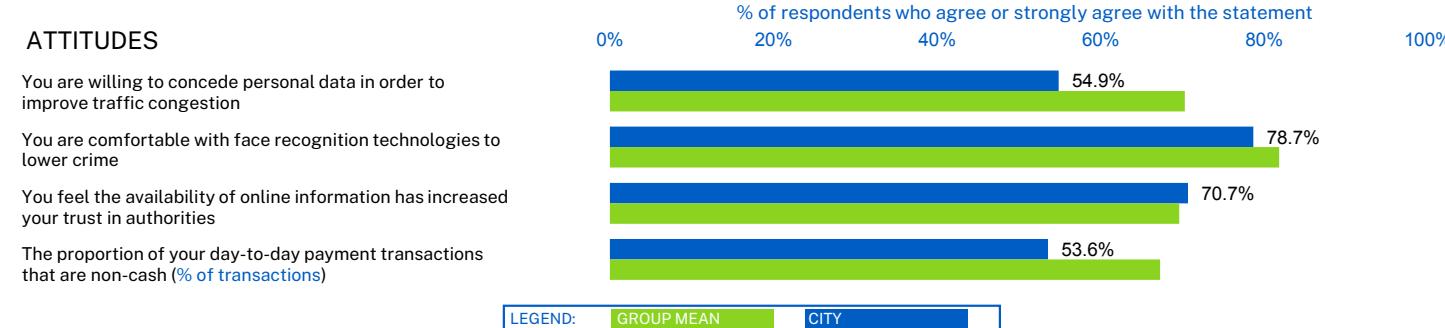
### Country

| Algeria                     | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.736  | 0.738  | 0.738  | 0.740  | +0.002      |
| Life expectancy at birth    | 76.5   | 74.5   | 76.4   | 77.1   | +0.8        |
| Expected years of schooling | 15.2   | 15.3   | 15.4   | 15.5   | +0.1        |
| Mean years of schooling     | 7.0    | 7.0    | 7.0    | 7.0    | +0.0        |
| GNI per capita (PPP \$)     | 11,354 | 10,635 | 10,823 | 10,978 | +155        |

## PRIORITY AREAS



## ATTITUDES



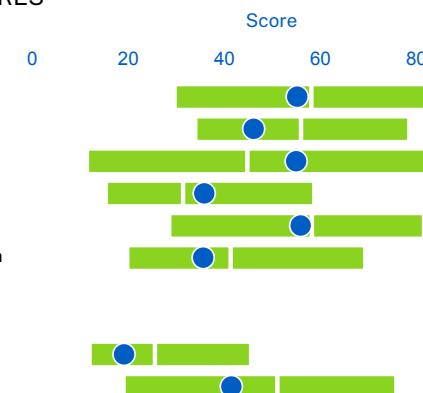
LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem



### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory

### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access



### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory

### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones



### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome

### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend



### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects

### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs



All ratings range  
from AAA to D

SMART  
CITY  
RANKING  
**112**

Out of 146

not in 2024

SMART  
CITY RATING

**CC**

not in 2024

FACTOR  
RATINGS

**CC**

STRUCTURES

**CC**

TECHNOLOGIES

**GROUP**

**3**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 60,000

(Census)

HDI 0.871

(Global Data Lab)



### Country

Saudi Arabia

| 2019 | 2020 | 2021 | 2022 | 1 yr change |
|------|------|------|------|-------------|
|------|------|------|------|-------------|

HDI 0.842 0.846 0.849 0.856 +0.007

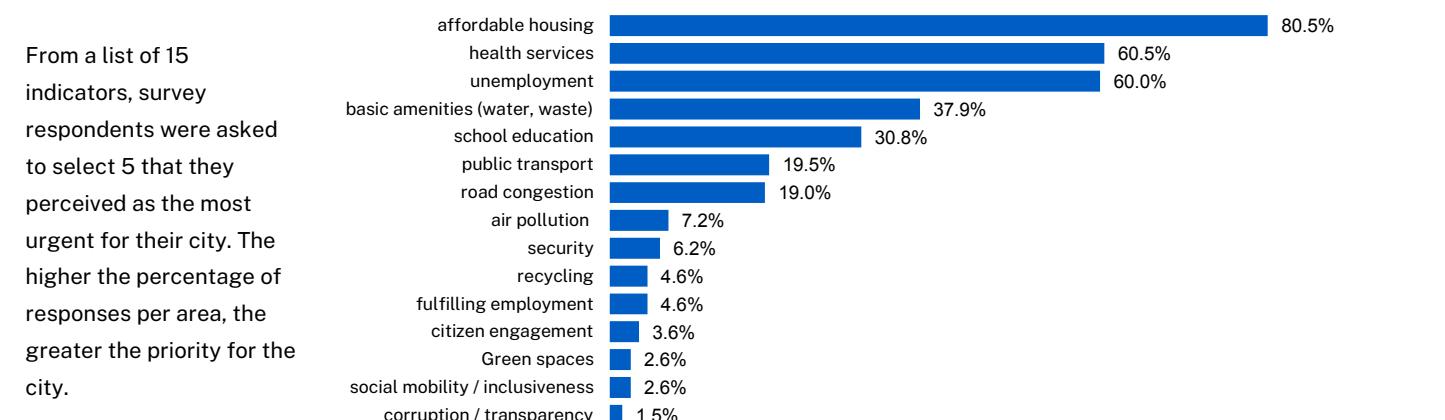
Life expectancy at birth 77.3 76.2 76.9 77.9 +1.0

Expected years of schooling 15.0 15.2 15.2 15.2 +0.0

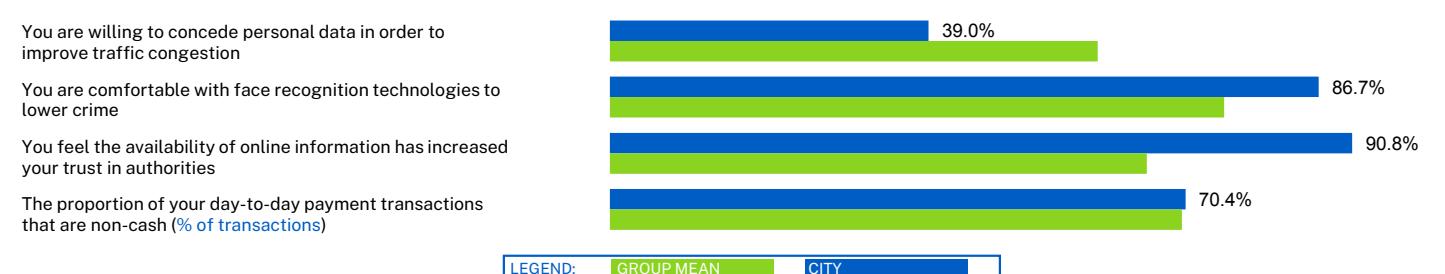
Mean years of schooling 10.9 11.3 11.3 11.3 +0.0

GNI per capita (PPP \$) 47,529 45,563 47,441 50,620 +3,179

## PRIORITY AREAS



## ATTITUDES



LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety

Basic sanitation meets the needs of the poorest areas

Score 0 20 40 60 80 100

### Health & Safety

Online reporting of city maintenance problems provides a speedy solution

60.7

Recycling services are satisfactory

54.9

Public safety is not a problem

45.5

Air pollution is not a problem

40.8

Medical services provision is satisfactory

47.3

Finding housing with rent equal to 30% or less of a monthly salary is not a problem

22.0

### Mobility

Traffic congestion is not a problem

48.0

Public transport is satisfactory

51.7

### Activities

Green spaces are satisfactory

45.6

Cultural activities (shows, bars, and museums) are satisfactory

64.7

### Opportunities (Work & School)

Employment finding services are readily available

29.1

Most children have access to a good school

64.9

Lifelong learning opportunities are provided by local institutions

59.1

Businesses are creating new jobs

38.0

Minorities feel welcome

73.5

### Governance

Information on local government decisions are easily accessible

59.3

Corruption of city officials is not an issue of concern

33.7

Residents contribute to decision making of local government

38.3

Residents provide feedback on local government projects

39.1

## TECHNOLOGIES

Score 0 20 40 60 80 100

### Health & Safety

Online reporting of city maintenance problems provides a speedy solution

45.9

A website or App allows residents to easily give away unwanted items

41.5

Free public wifi has improved access to city services

14.9

CCTV cameras has made residents feel safer

65.0

A website or App allows residents to effectively monitor air pollution

37.7

Arranging medical appointments online has improved access

72.3

### Mobility

Car-sharing Apps have reduced congestion

52.6

Apps that direct you to an available parking space have reduced journey time

61.3

Bicycle hiring has reduced congestion

45.6

Online scheduling and ticket sales has made public transport easier to use

64.4

The city provides information on traffic congestion through mobile phones

37.4

### Activities

Online purchasing of tickets to shows and museums has made it easier to attend

72.9

### Opportunities (Work & School)

Online access to job listings has made it easier to find work

48.1

IT skills are taught well in schools

49.1

Online services provided by the city has made it easier to start a new business

53.3

The current internet speed and reliability meet connectivity needs

43.5

### Governance

Online public access to city finances has reduced corruption

45.9

Online voting has increased participation

51.6

An online platform where residents can propose ideas has improved city life

42.6

Processing Identification Documents online has reduced waiting times

71.9

All ratings range from AAA to D

# Amman

SMART  
CITY  
RANKING

**127**

Out of 146



128 in 2024  
Out of 142

SMART  
CITY RATING

**C**

D in 2024

FACTOR  
RATINGS

**C**

STRUCTURES

**C**

TECHNOLOGIES

GROUP

**4**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 4,010,000  
(UN Data)

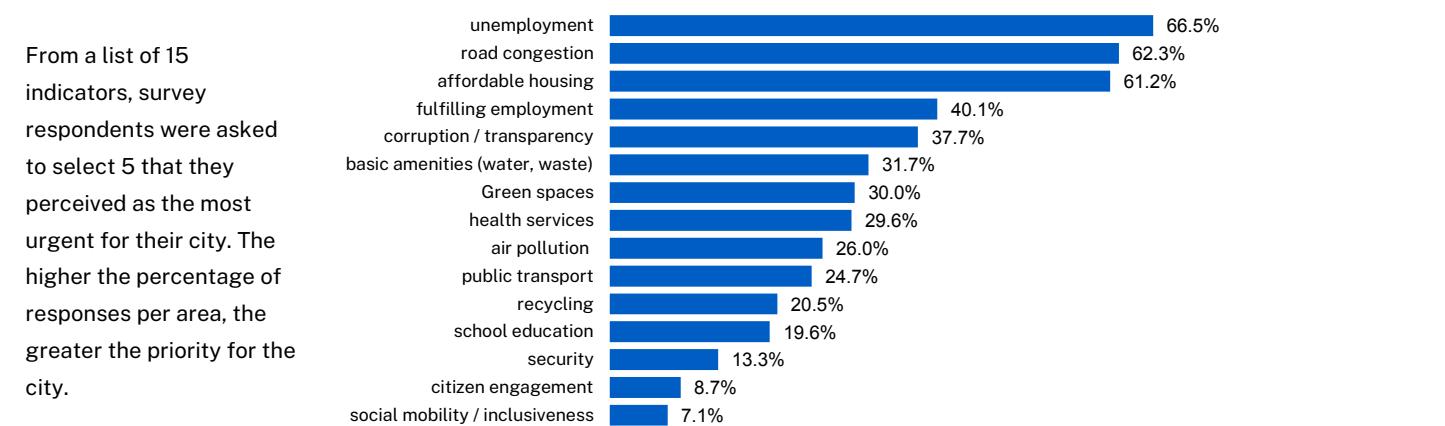


HDI 0.753  
(Global Data Lab)

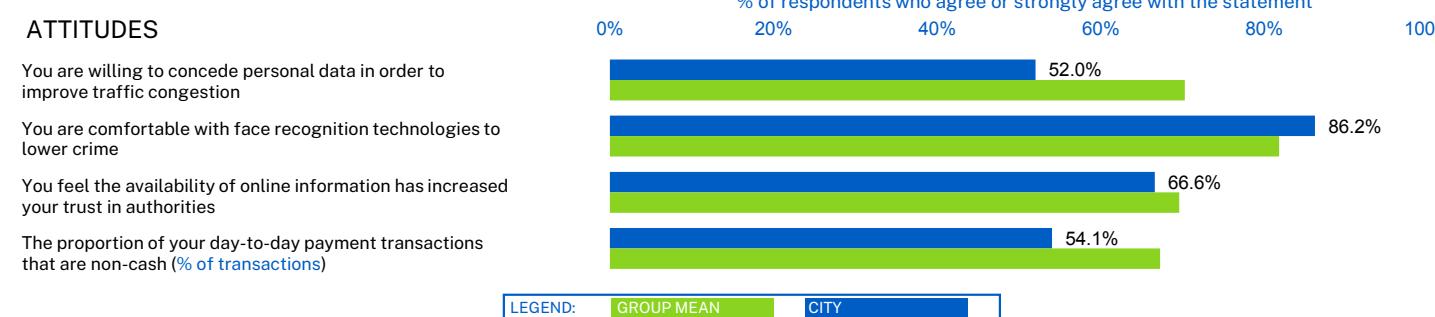
### Country

| Jordan                      | 2019  | 2020  | 2021  | 2022  | 1 yr change |
|-----------------------------|-------|-------|-------|-------|-------------|
| HDI                         | 0.738 | 0.740 | 0.744 | 0.742 | -0.002      |
| Life expectancy at birth    | 76.0  | 75.2  | 74.3  | 74.2  | -0.0        |
| Expected years of schooling | 12.5  | 12.6  | 12.6  | 12.6  | +0.0        |
| Mean years of schooling     | 10.4  | 10.4  | 10.4  | 10.4  | +0.0        |
| GNI per capita (PPP \$)     | 9,557 | 9,183 | 9,180 | 9,295 | +115        |

## PRIORITY AREAS



## ATTITUDES

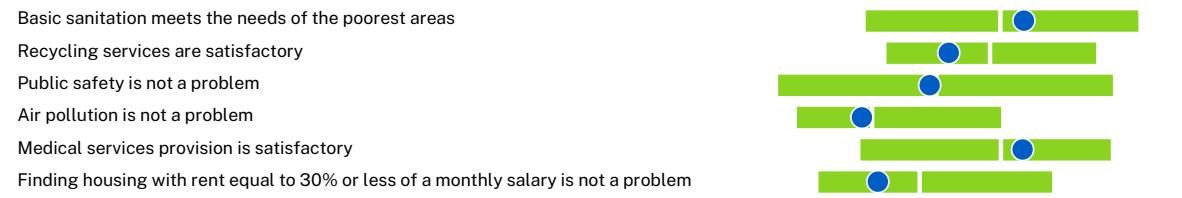


LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



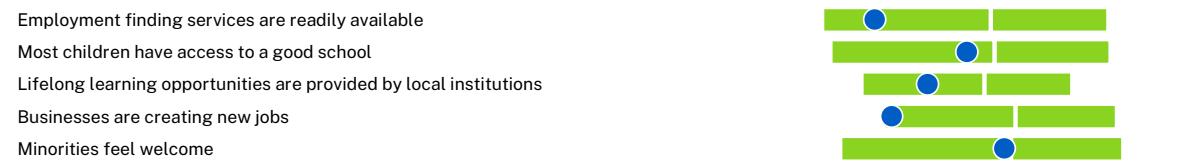
### Mobility



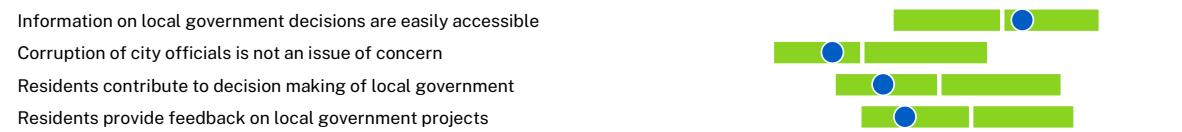
### Activities



### Opportunities (Work & School)



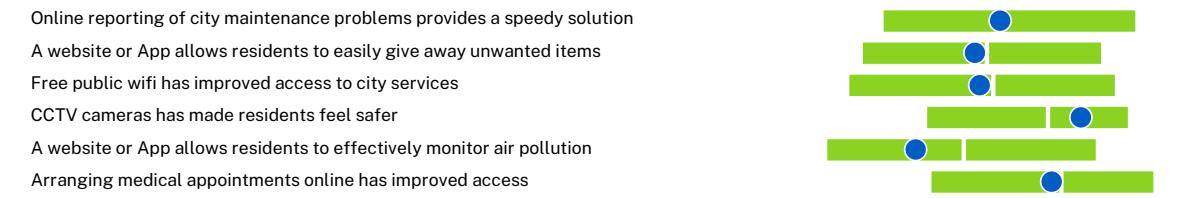
### Governance



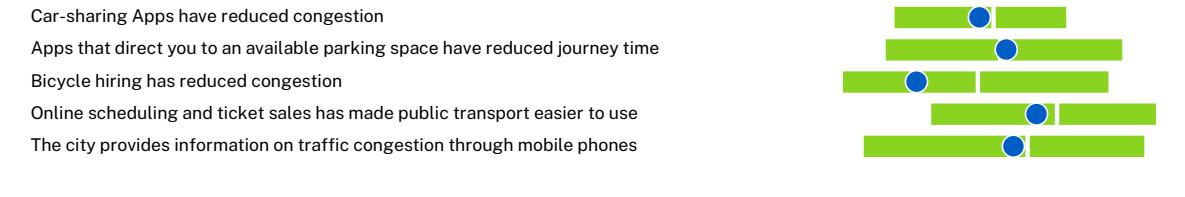
## TECHNOLOGIES

Score

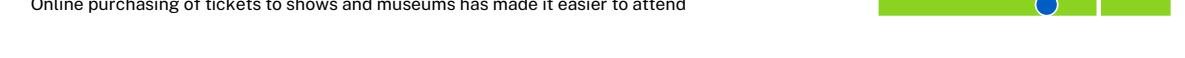
### Health & Safety



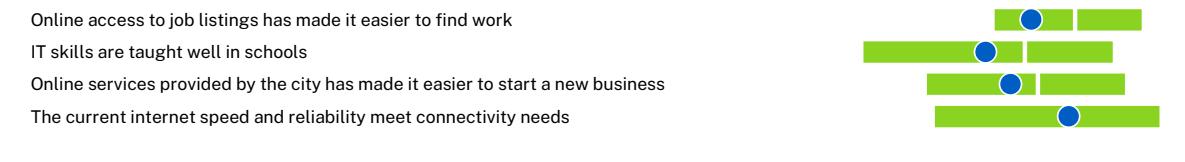
### Mobility



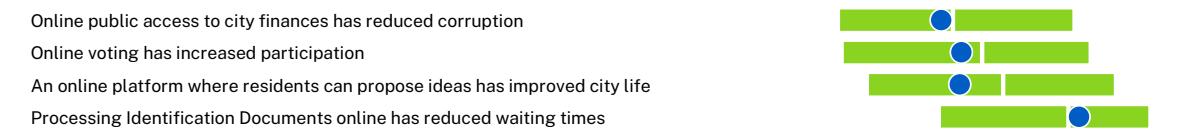
### Activities



### Opportunities (Work & School)



### Governance



# Amsterdam

SMART  
CITY  
RANKING

**17**

Out of 146



18 in 2024  
Out of 142

SMART  
CITY RATING

**A**

A in 2024

FACTOR  
RATINGS

**AA**

STRUCTURES

**AA**

TECHNOLOGIES

**1**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 1,180,000  
(UN World Urbanization Prospects)

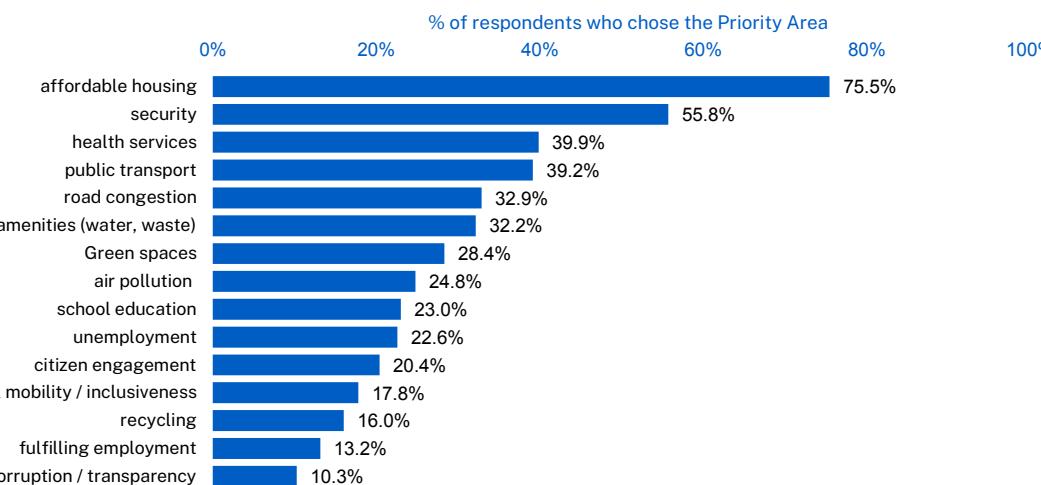
HDI 0.964  
(Global Data Lab)



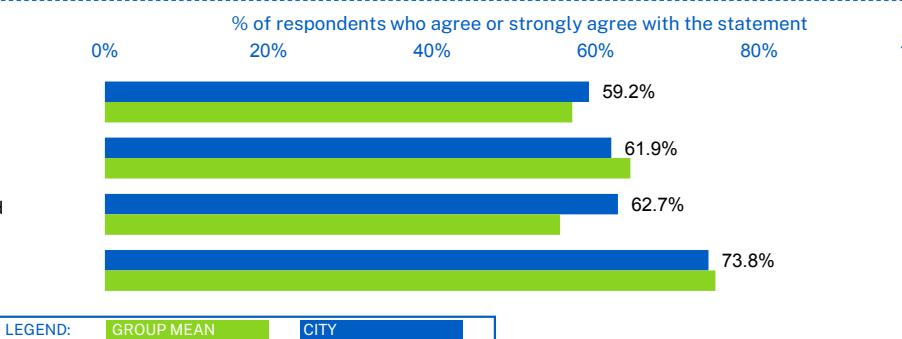
### Country

| Netherlands                 | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.932  | 0.933  | 0.936  | 0.939  | +0.003      |
| Life expectancy at birth    | 82.0   | 81.6   | 81.7   | 82.5   | +0.8        |
| Expected years of schooling | 18.4   | 18.4   | 18.6   | 18.6   | +0.0        |
| Mean years of schooling     | 12.5   | 12.6   | 12.6   | 12.6   | +0.0        |
| GNI per capita (PPP \$)     | 55,628 | 52,500 | 55,355 | 57,278 | +1,923      |

## PRIORITY AREAS



## ATTITUDES

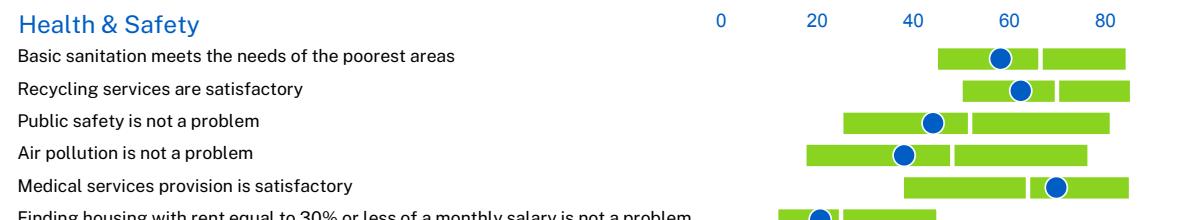


LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

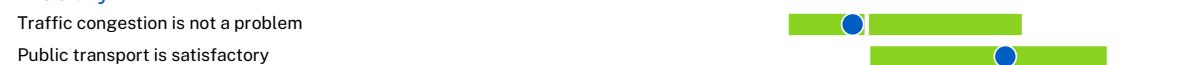
## STRUCTURES

### Score



### Mobility

### Score



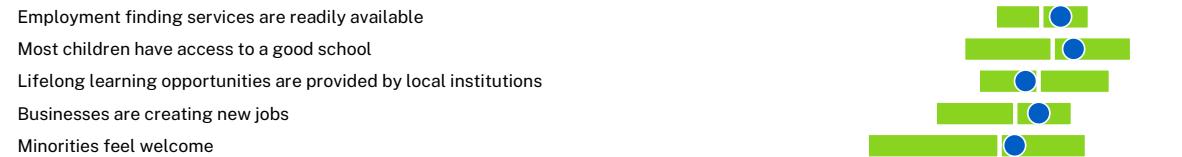
### Activities

### Score



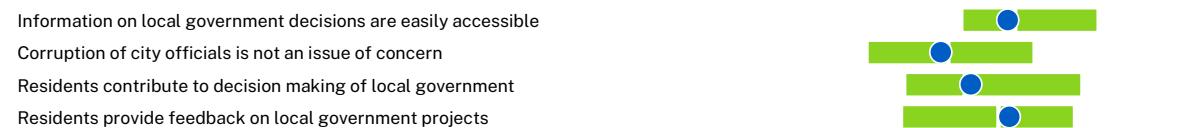
### Opportunities (Work & School)

### Score



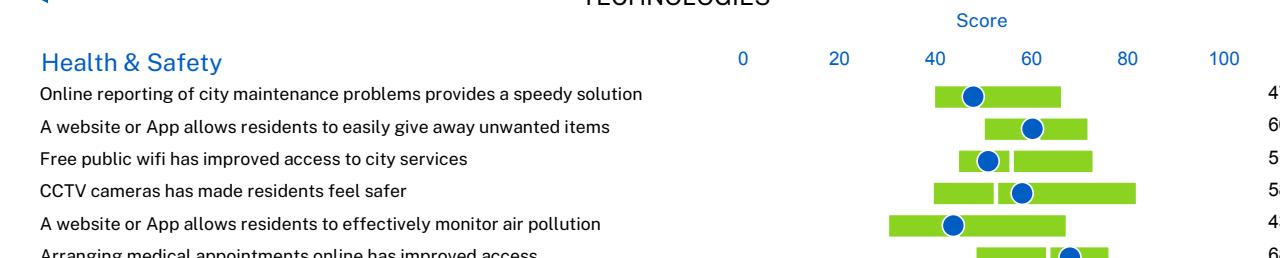
### Governance

### Score



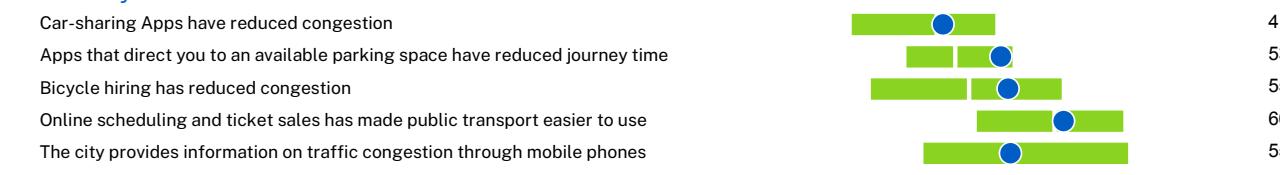
## TECHNOLOGIES

### Score



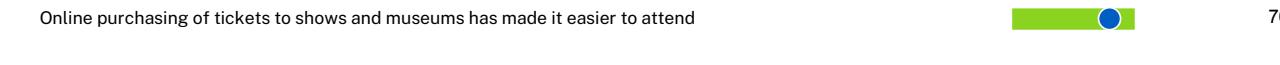
### Mobility

### Score



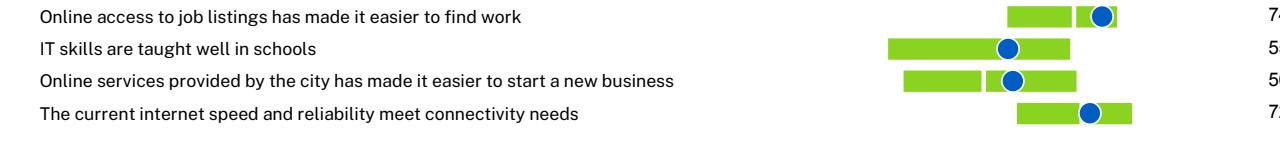
### Activities

### Score



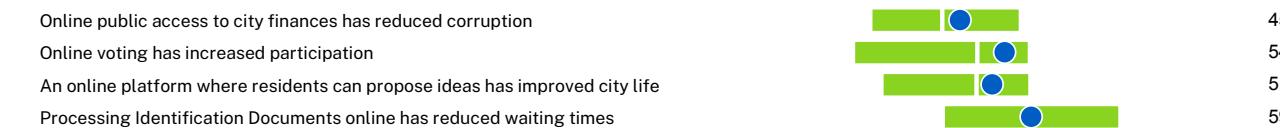
### Opportunities (Work & School)

### Score



### Governance

### Score



# Ankara

SMART  
CITY  
RANKING  
**98**

Out of 146

96 in 2024  
Out of 142

SMART  
CITY RATING

**CCC**

CCC in 2024

FACTOR  
RATINGS

**CCC**

STRUCTURES

**CCC**

TECHNOLOGIES

GROUP

**3**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 5,480,000  
(UN World Urbanization Prospects)

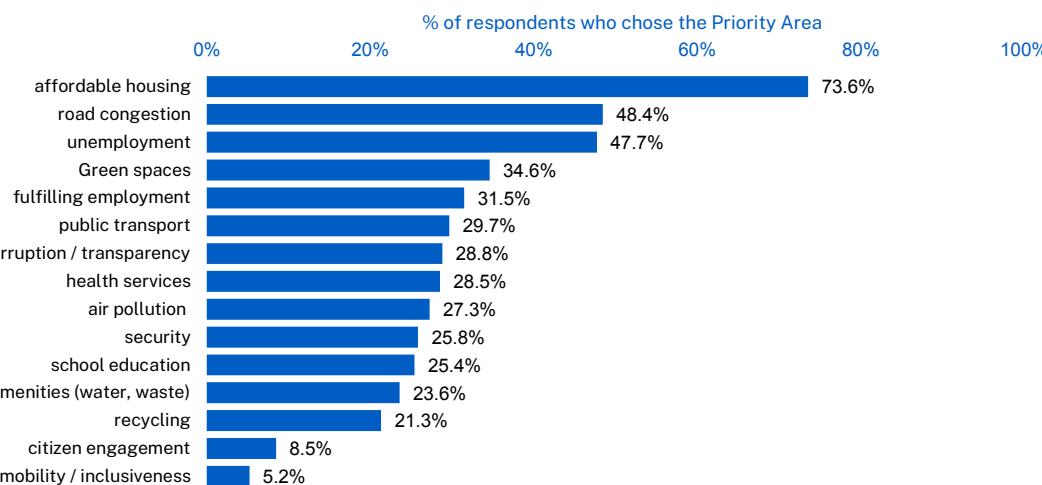
HDI 0.871  
(Global Data Lab)



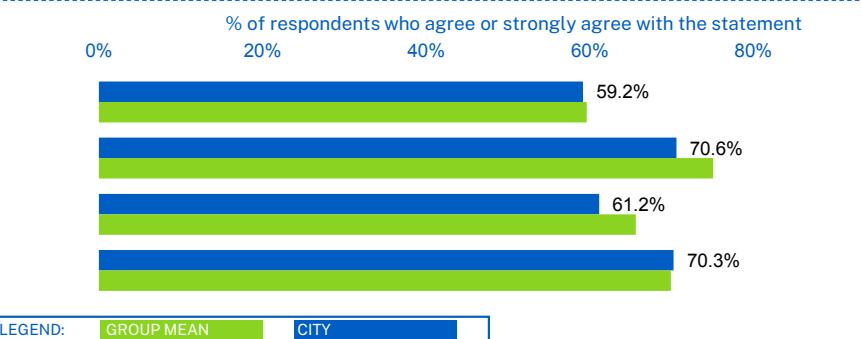
### Country

| Türkiye                     | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.821  | 0.826  | 0.833  | 0.838  | +0.005      |
| Life expectancy at birth    | 77.8   | 75.9   | 76.0   | 78.5   | +2.4        |
| Expected years of schooling | 19.2   | 19.3   | 19.7   | 19.7   | +0.0        |
| Mean years of schooling     | 8.6    | 8.8    | 8.8    | 8.8    | +0.0        |
| GNI per capita (PPP \$)     | 27,950 | 28,381 | 31,310 | 32,834 | +1,524      |

## PRIORITY AREAS



## ATTITUDES

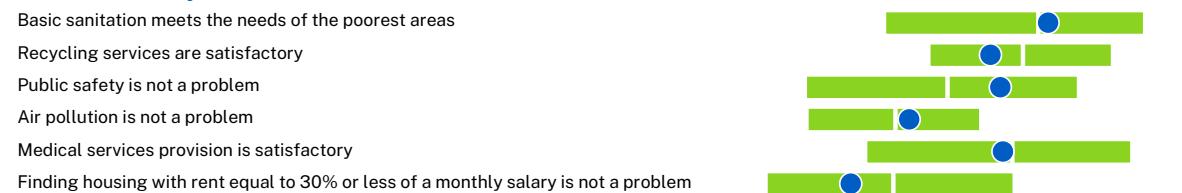


LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



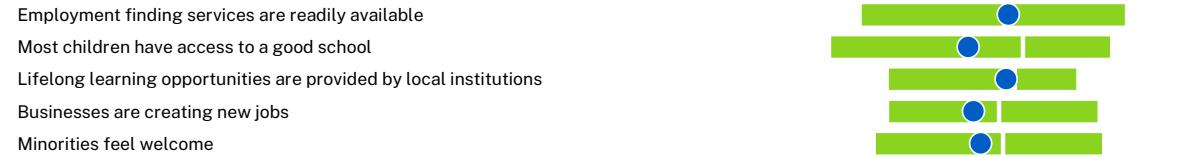
### Mobility



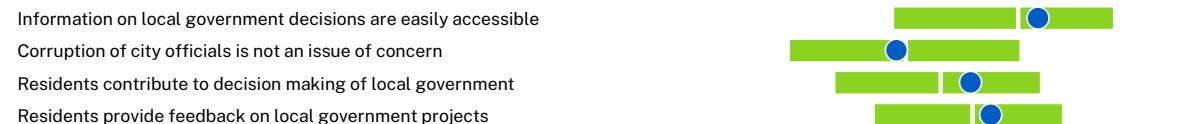
### Activities



### Opportunities (Work & School)



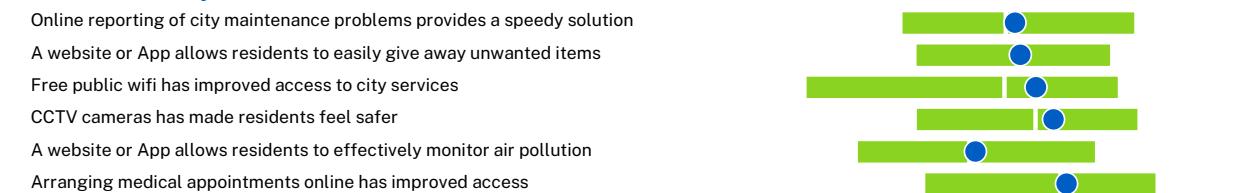
### Governance



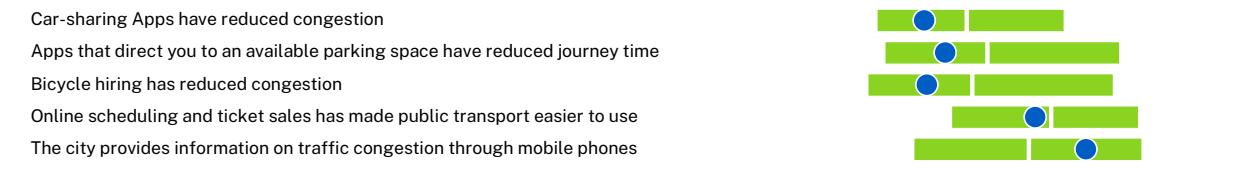
## TECHNOLOGIES

Score

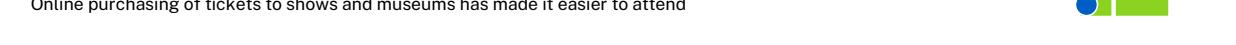
### Health & Safety



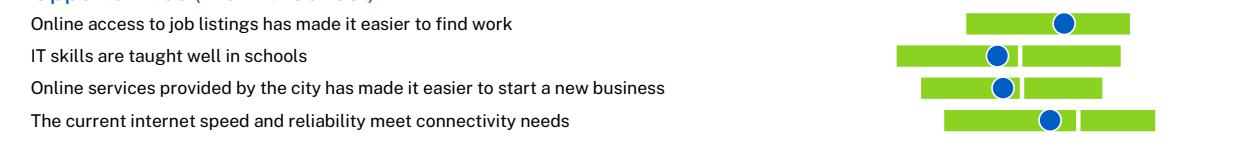
### Mobility



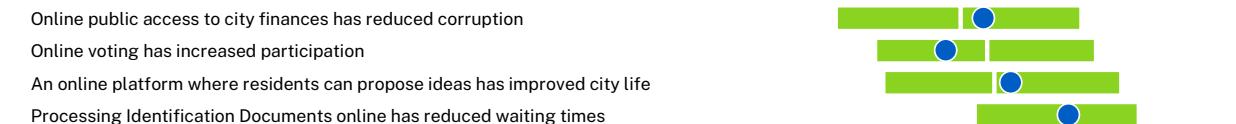
### Activities



### Opportunities (Work & School)



### Governance



# Astana

SMART  
CITY  
RANKING  
**102**  
Out of 146

not in 2024

SMART  
CITY RATING

**CC**  
not in 2024

FACTOR  
RATINGS

**CC**  
STRUCTURES

**CCC**  
TECHNOLOGIES

GROUP  
**3**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 1,320,000  
(UN World Urbanization Prospects)

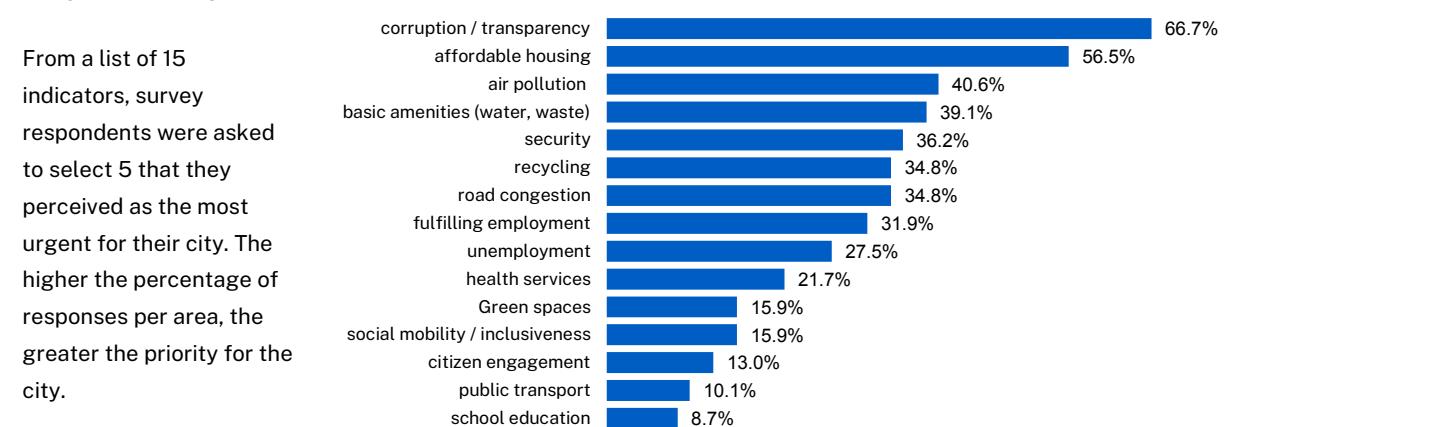
HDI 0.816  
(Global Data Lab)



### Country

| Kazakhstan                  | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.799  | 0.797  | 0.802  | 0.804  | +0.002      |
| Life expectancy at birth    | 71.6   | 70.0   | 69.4   | 69.5   | +0.1        |
| Expected years of schooling | 14.6   | 14.8   | 14.8   | 14.8   | +0.0        |
| Mean years of schooling     | 12.3   | 12.4   | 12.4   | 12.4   | +0.0        |
| GNI per capita (PPP \$)     | 22,787 | 23,304 | 22,602 | 22,587 | -15         |

## PRIORITY AREAS



## ATTITUDES

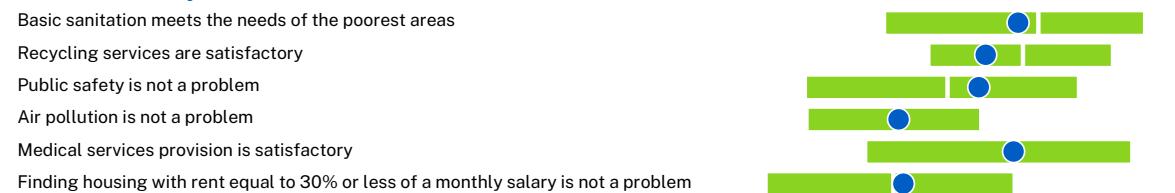


LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

### Health & Safety



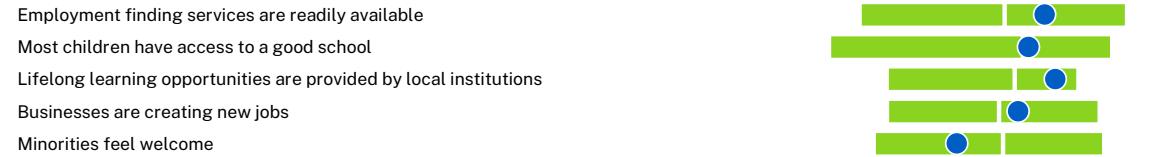
### Mobility



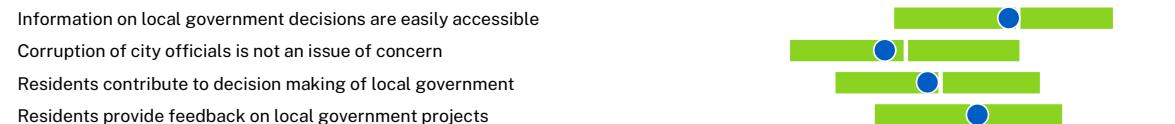
### Activities



### Opportunities (Work & School)

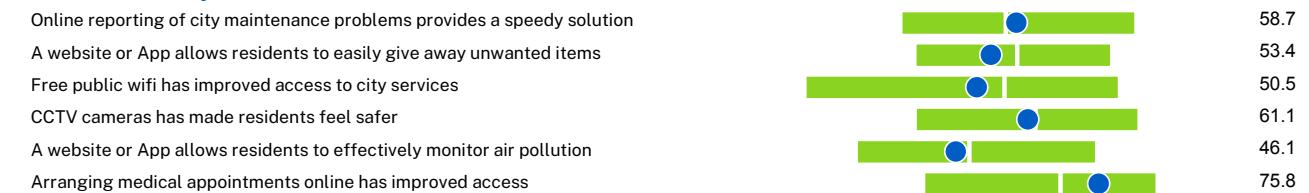


### Governance

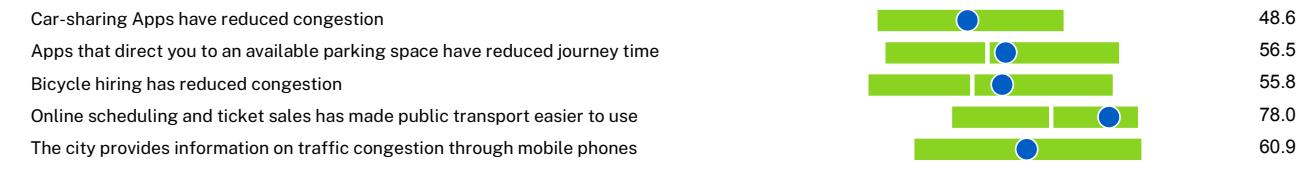


## TECHNOLOGIES

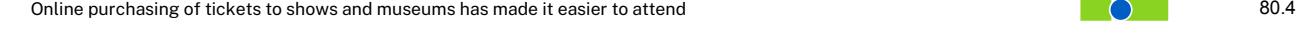
### Health & Safety



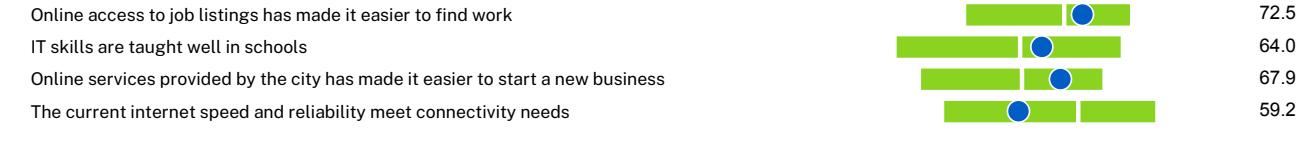
### Mobility



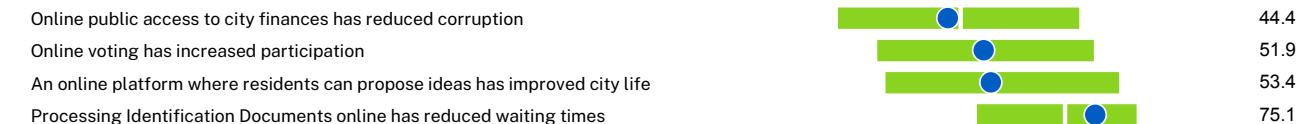
### Activities



### Opportunities (Work & School)



### Governance



# Athens

SMART  
CITY  
RANKING  
**129**

Out of 146



120 in 2024  
Out of 142

SMART  
CITY RATING

**CCC**

C in 2024

FACTOR  
RATINGS

**CCC**

STRUCTURES

**CCC**

TECHNOLOGIES

GROUP

**2**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 3,150,000  
(UN World Urbanization Prospects)

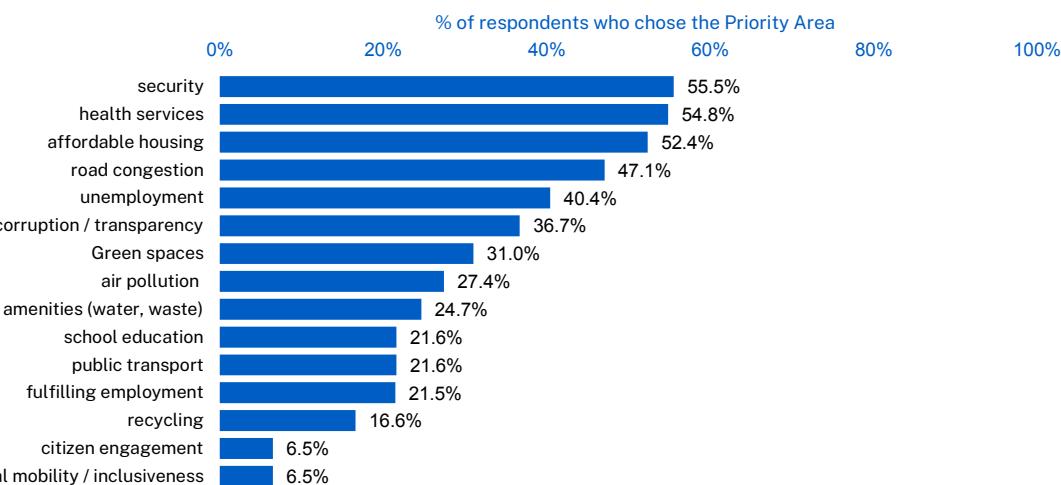
HDI 0.918  
(Global Data Lab)



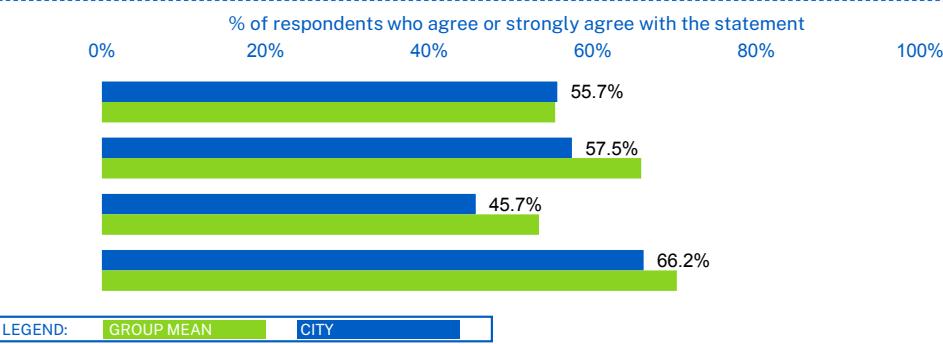
### Country

| Greece                      | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.881  | 0.877  | 0.880  | 0.886  | +0.006      |
| Life expectancy at birth    | 81.2   | 80.9   | 80.1   | 80.6   | +0.5        |
| Expected years of schooling | 19.7   | 19.7   | 20.0   | 20.0   | +0.0        |
| Mean years of schooling     | 11.1   | 11.4   | 11.4   | 11.4   | +0.0        |
| GNI per capita (PPP \$)     | 29,457 | 26,973 | 29,421 | 31,382 | +1,960      |

## PRIORITY AREAS



## ATTITUDES

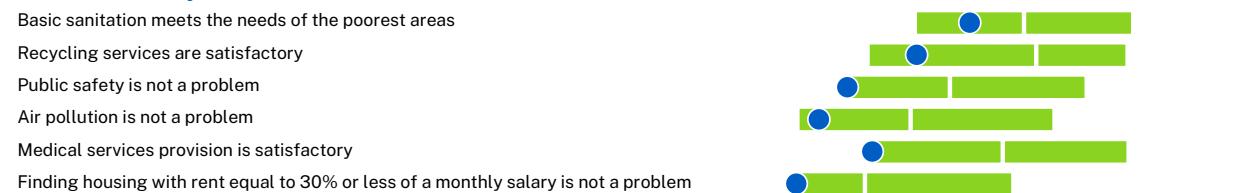


LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



### Mobility



### Activities



### Opportunities (Work & School)

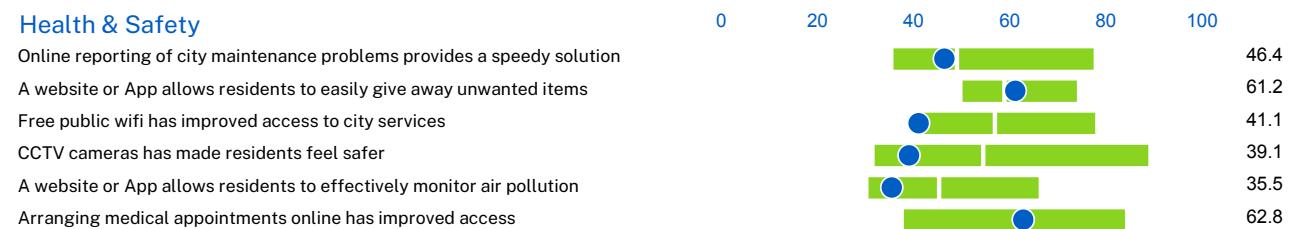


### Governance

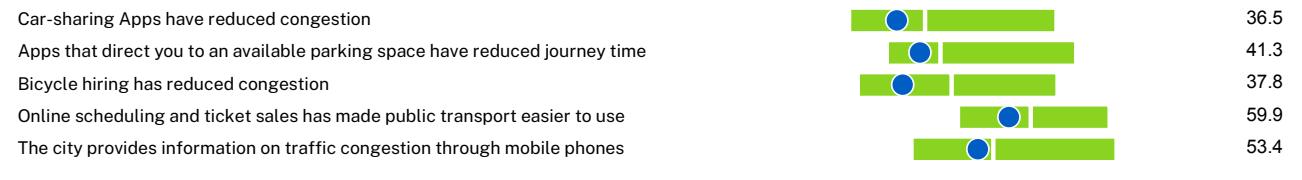


## TECHNOLOGIES

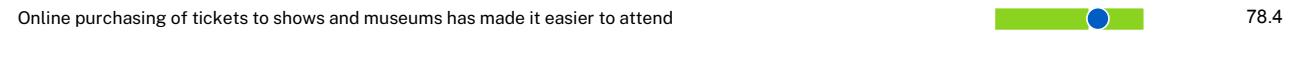
Score



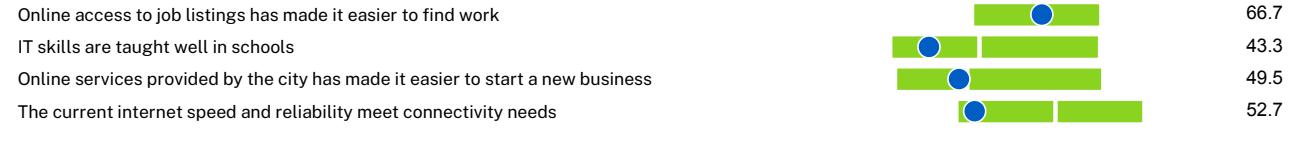
### Mobility



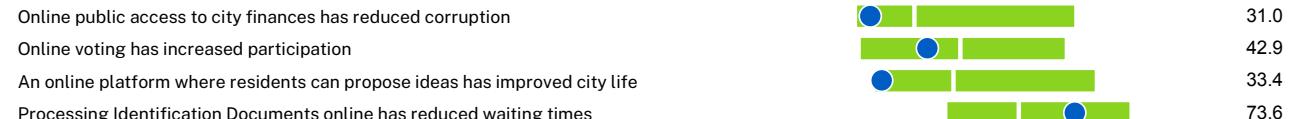
### Activities



### Opportunities (Work & School)



### Governance



# Auckland

SMART  
CITY  
RANKING  
**25**

Out of 146



31 in 2024  
Out of 142

SMART  
CITY RATING



BBB in 2024

FACTOR  
RATINGS



STRUCTURES

**AA**

TECHNOLOGIES

GROUP  
**1**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 1,690,000  
(UN World Urbanization Prospects)

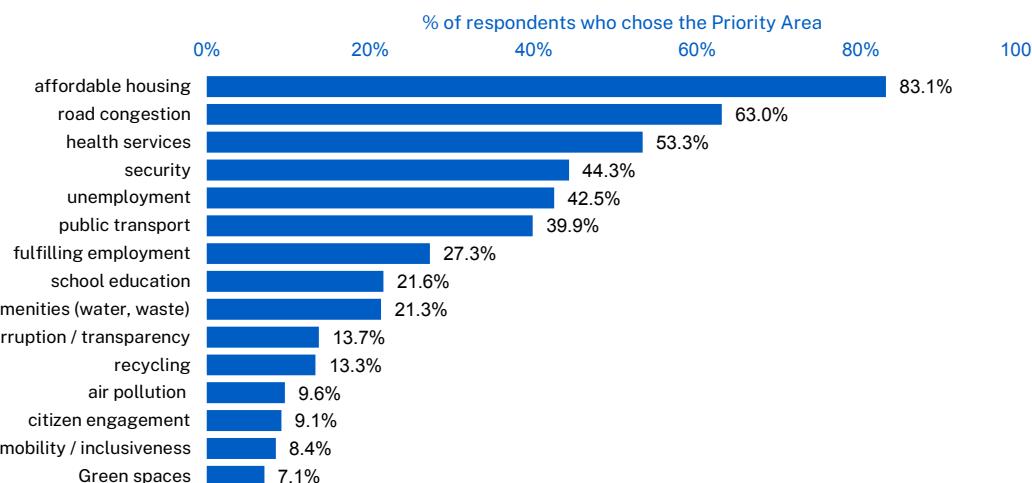
HDI 0.968  
(Global Data Lab)



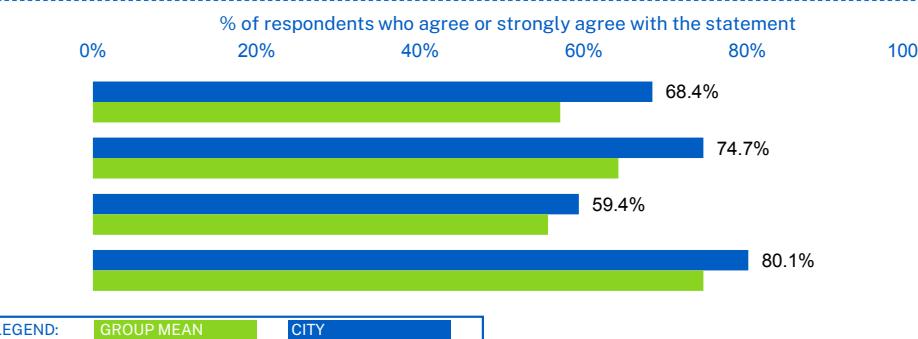
### Country

| New Zealand                 | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.933  | 0.935  | 0.935  | 0.936  | +0.001      |
| Life expectancy at birth    | 82.6   | 82.7   | 82.5   | 83.0   | +0.6        |
| Expected years of schooling | 19.5   | 19.2   | 19.7   | 19.7   | +0.0        |
| Mean years of schooling     | 13.0   | 12.9   | 12.9   | 12.9   | +0.0        |
| GNI per capita (PPP \$)     | 42,210 | 41,225 | 42,850 | 43,665 | +816        |

## PRIORITY AREAS



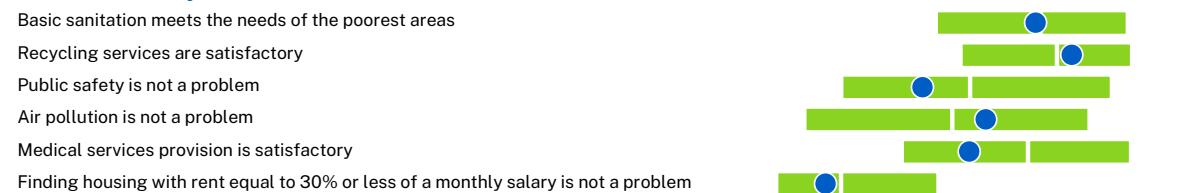
## ATTITUDES



## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



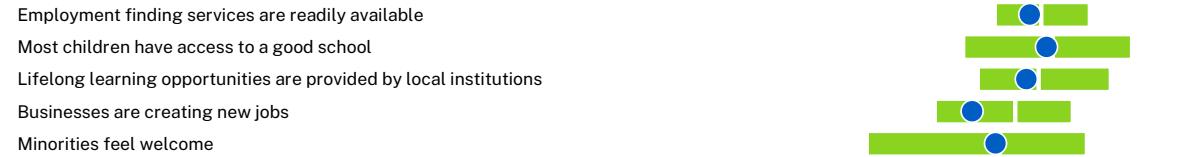
### Mobility



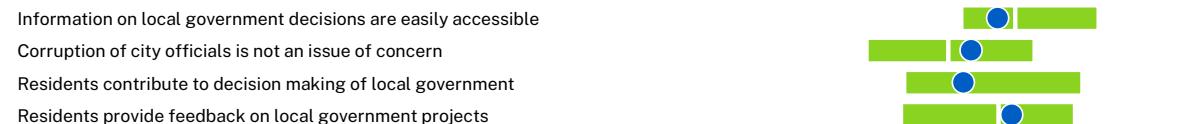
### Activities



### Opportunities (Work & School)



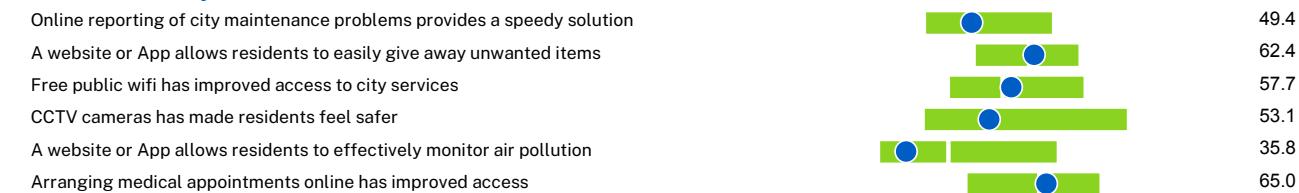
### Governance



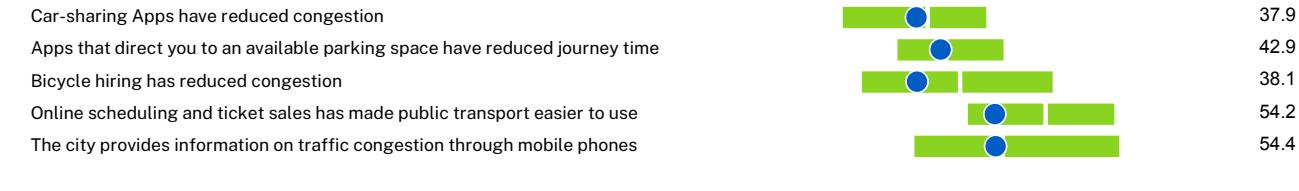
## TECHNOLOGIES

Score

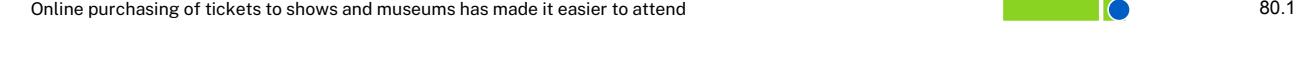
### Health & Safety



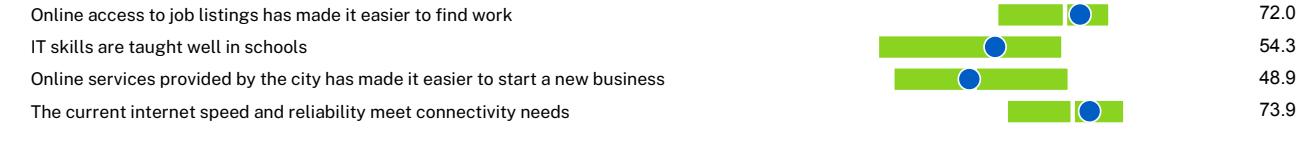
### Mobility



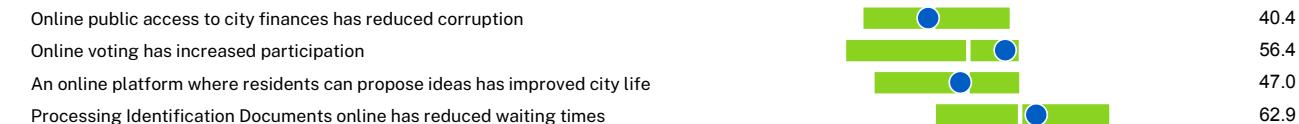
### Activities



### Opportunities (Work & School)



### Governance



# Bangkok

SMART  
CITY  
RANKING  
**86**

Out of 146



84 in 2024  
Out of 142

SMART  
CITY RATING

**CC**

CCC in 2024

FACTOR  
RATINGS

**CCC**

STRUCTURES

**B**

TECHNOLOGIES

**3**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 11,230,000  
(UN World Urbanization Prospects)

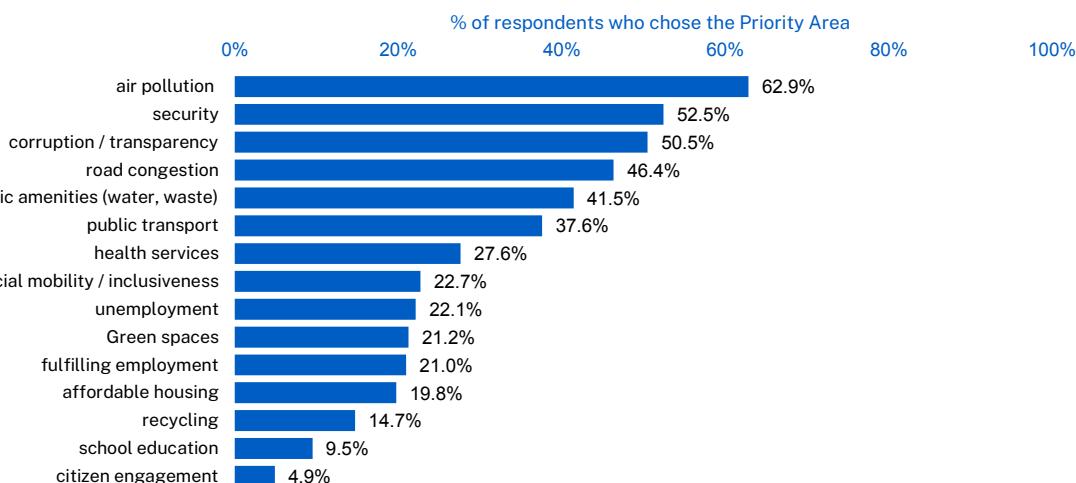
HDI 0.836  
(Global Data Lab)



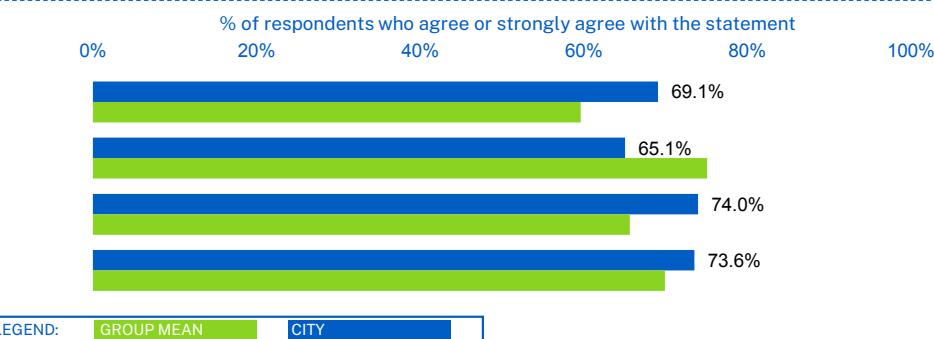
### Country

| Thailand                    | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.789  | 0.793  | 0.795  | 0.796  | +0.001      |
| Life expectancy at birth    | 79.0   | 79.3   | 78.7   | 79.7   | +1.0        |
| Expected years of schooling | 15.8   | 15.6   | 15.6   | 15.6   | +0.0        |
| Mean years of schooling     | 8.7    | 8.8    | 8.8    | 8.8    | +0.0        |
| GNI per capita (PPP \$)     | 17,335 | 16,444 | 16,481 | 16,887 | +405        |

## PRIORITY AREAS



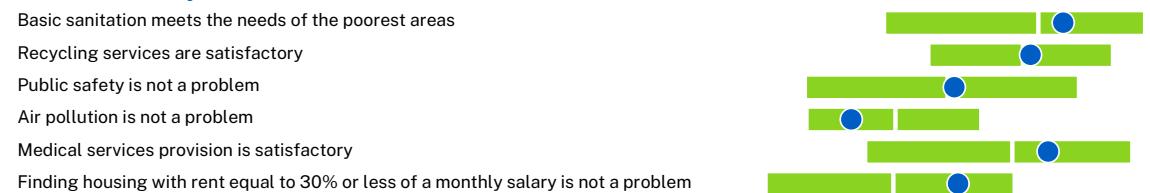
## ATTITUDES



## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



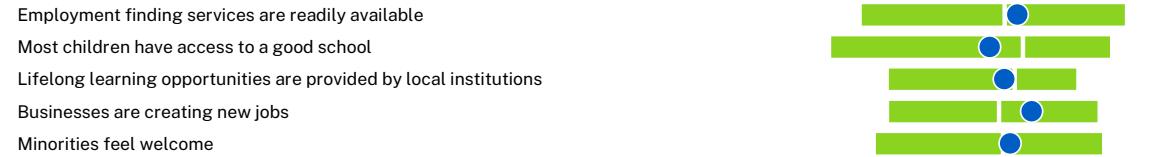
### Mobility



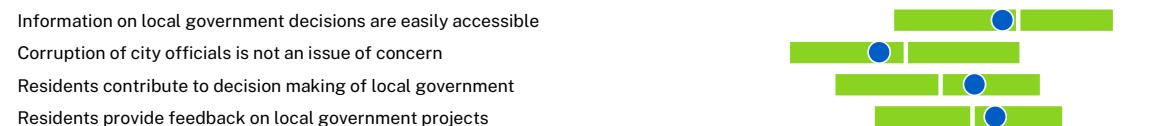
### Activities



### Opportunities (Work & School)



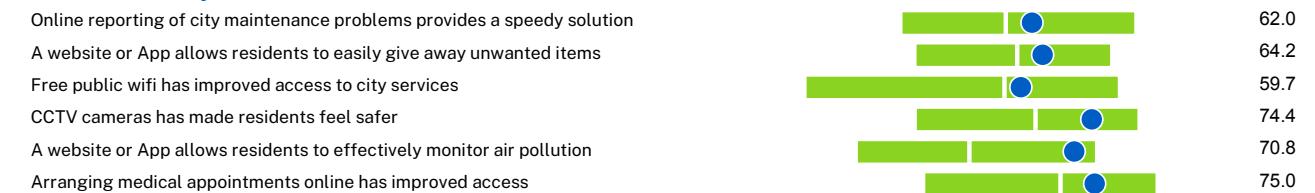
### Governance



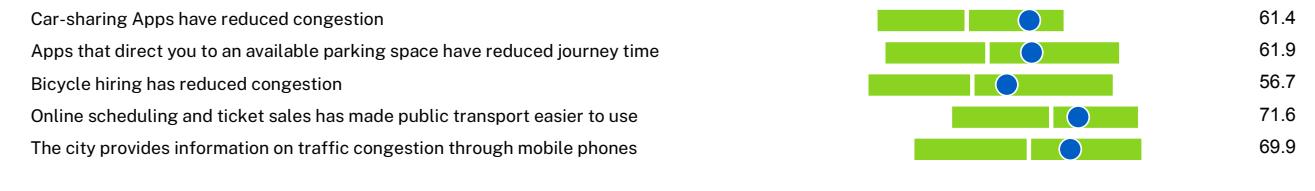
## TECHNOLOGIES

Score

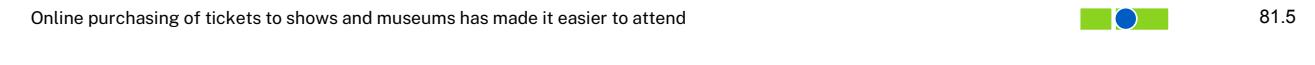
### Health & Safety



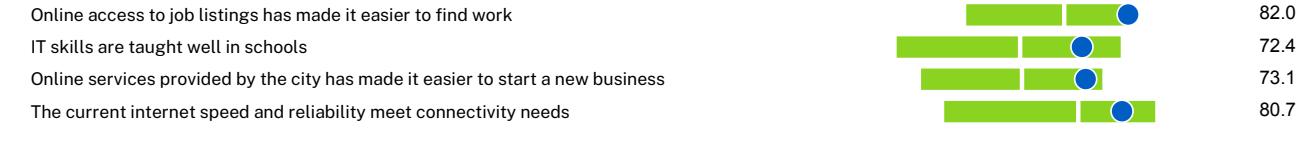
### Mobility



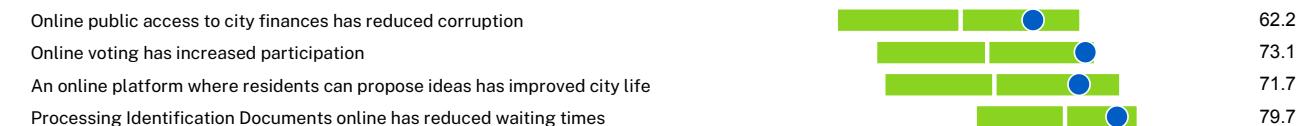
### Activities



### Opportunities (Work & School)



### Governance



All ratings range  
from AAA to D

# Barcelona

SMART  
CITY  
RANKING  
**92**

Out of 146



81 in 2024  
Out of 142

SMART  
CITY RATING

**CCC**

BB in 2024

FACTOR  
RATINGS

**B**

STRUCTURES

**BB**

TECHNOLOGIES

GROUP

**2**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 5,710,000  
(UN World Urbanization Prospects)

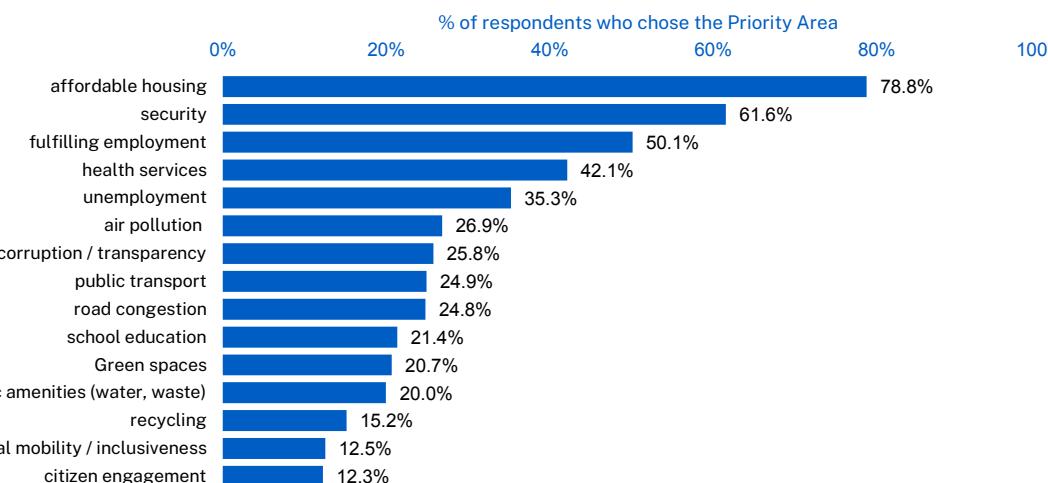
HDI 0.922  
(Global Data Lab)



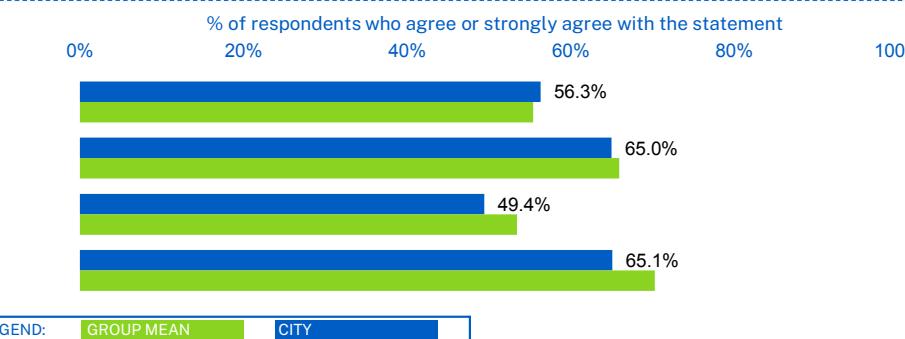
### Country

| Spain                       | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.889  | 0.894  | 0.896  | 0.899  | +0.003      |
| Life expectancy at birth    | 83.5   | 82.3   | 83.0   | 83.9   | +0.9        |
| Expected years of schooling | 17.5   | 17.5   | 17.8   | 17.8   | +0.0        |
| Mean years of schooling     | 10.4   | 10.6   | 10.6   | 10.6   | +0.0        |
| GNI per capita (PPP \$)     | 40,854 | 36,076 | 38,133 | 40,043 | +1,911      |

## PRIORITY AREAS



## ATTITUDES



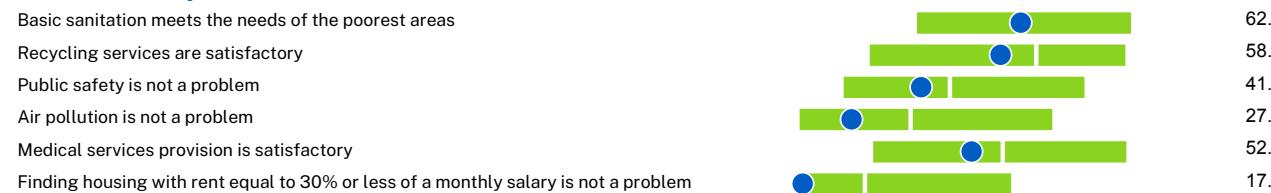
LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

Score

### Health & Safety



### Mobility



### Activities



### Opportunities (Work & School)



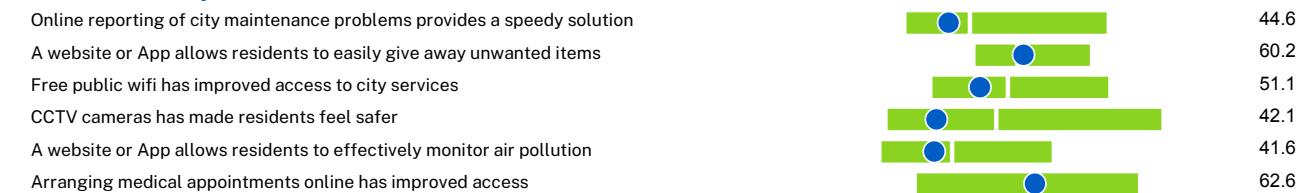
### Governance



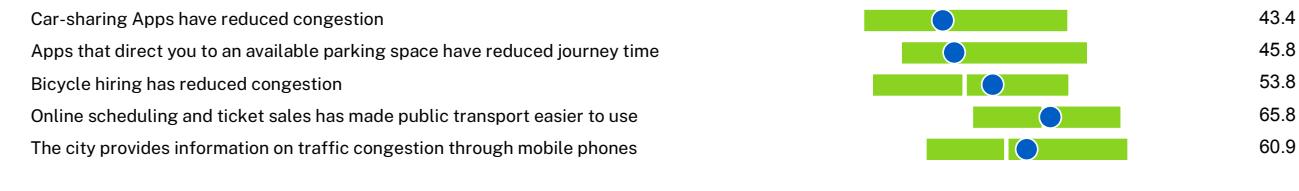
## TECHNOLOGIES

Score

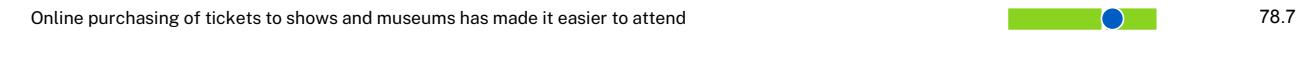
### Health & Safety



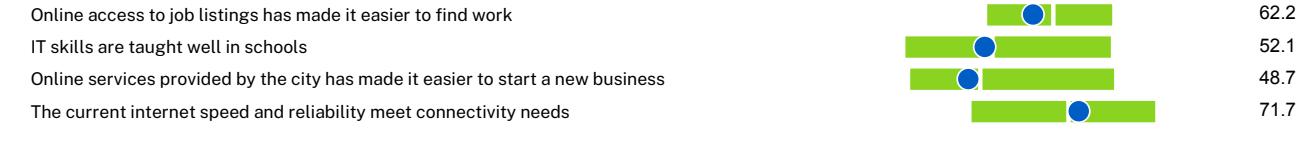
### Mobility



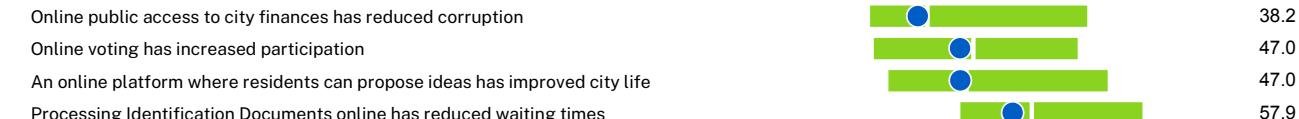
### Activities



### Opportunities (Work & School)



### Governance



# Beijing

SMART  
CITY  
RANKING

**14**

Out of 146



13 in 2024  
Out of 142

SMART  
CITY RATING

**BB**

BB in 2024

FACTOR  
RATINGS

**BB**

STRUCTURES

**BB**

TECHNOLOGIES

**3**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 22,190,000  
(UN World Urbanization Prospects)

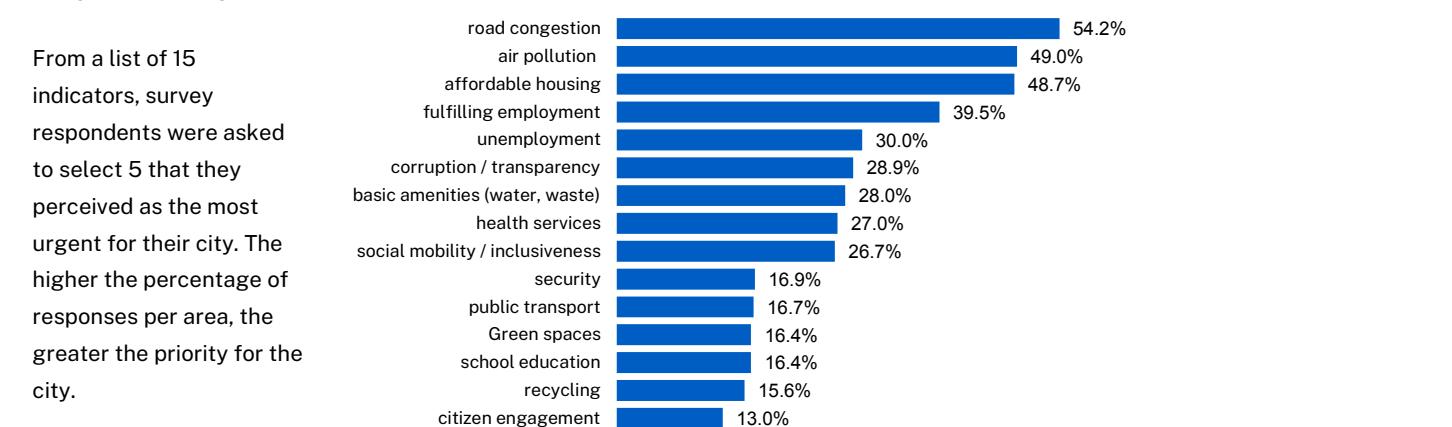
HDI 0.905  
(Global Data Lab)



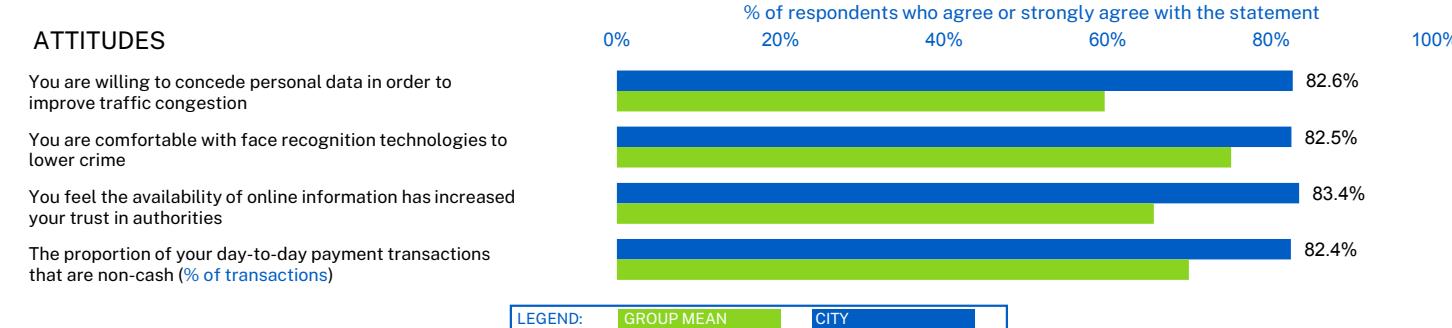
### Country

| China                       | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.741  | 0.749  | 0.757  | 0.766  | +0.009      |
| Life expectancy at birth    | 78.0   | 78.1   | 78.2   | 78.6   | +0.4        |
| Expected years of schooling | 15.0   | 15.2   | 15.2   | 15.2   | +0.0        |
| Mean years of schooling     | 8.0    | 8.1    | 8.1    | 8.1    | +0.0        |
| GNI per capita (PPP \$)     | 15,934 | 16,168 | 17,499 | 18,025 | +526        |

## PRIORITY AREAS



## ATTITUDES

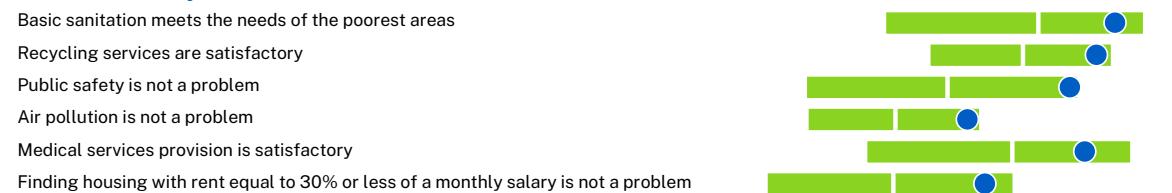


LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

### Health & Safety



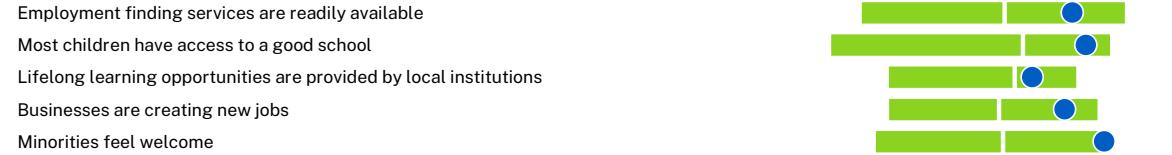
### Mobility



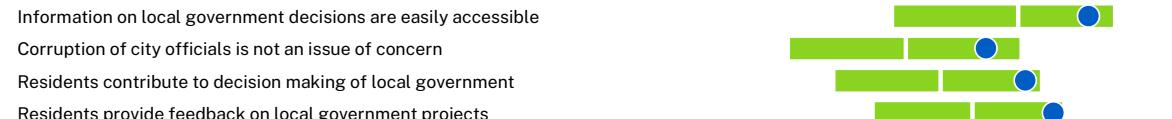
### Activities



### Opportunities (Work & School)

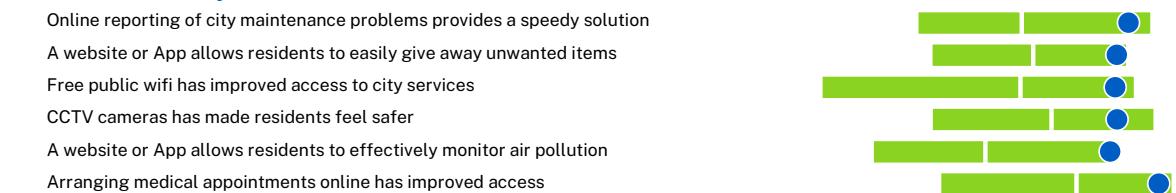


### Governance

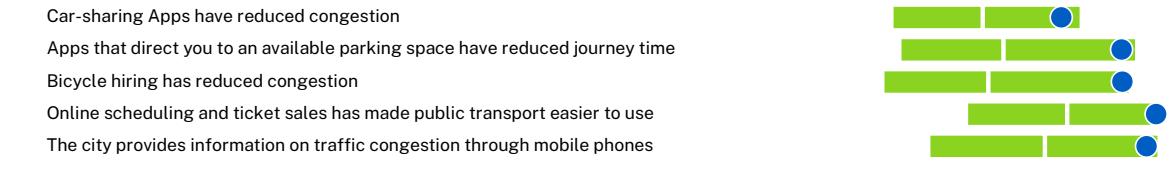


## TECHNOLOGIES

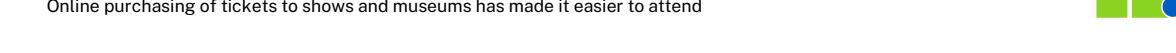
### Health & Safety



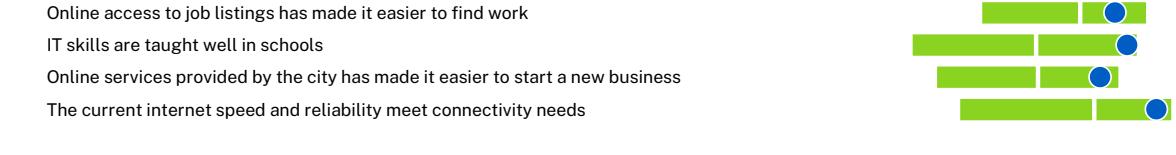
### Mobility



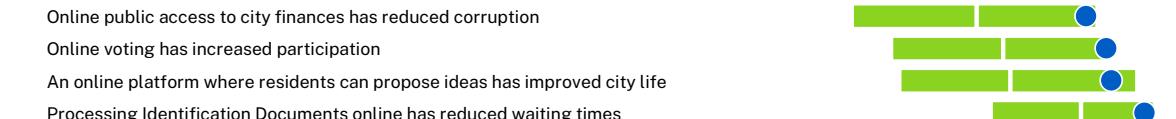
### Activities



### Opportunities (Work & School)



### Governance



# Beirut

SMART  
CITY  
RANKING  
**143**

Out of 146

140 in 2024  
Out of 142

SMART  
CITY RATING

**D**

D in 2024

FACTOR  
RATINGS

**D**

STRUCTURES

**D**

TECHNOLOGIES

**4**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 2,400,000  
(UN World Urbanization Prospects)

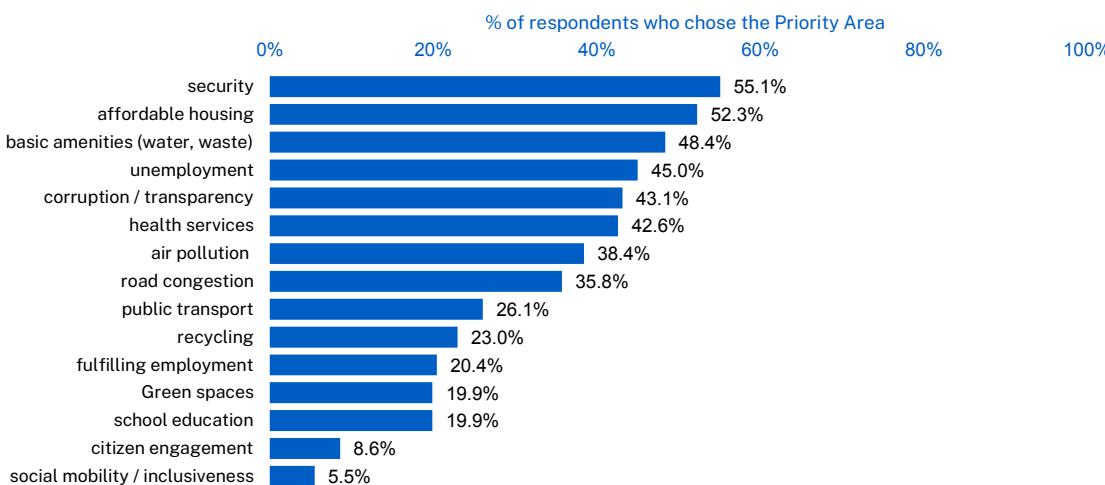
HDI 0.693  
(Global Data Lab)



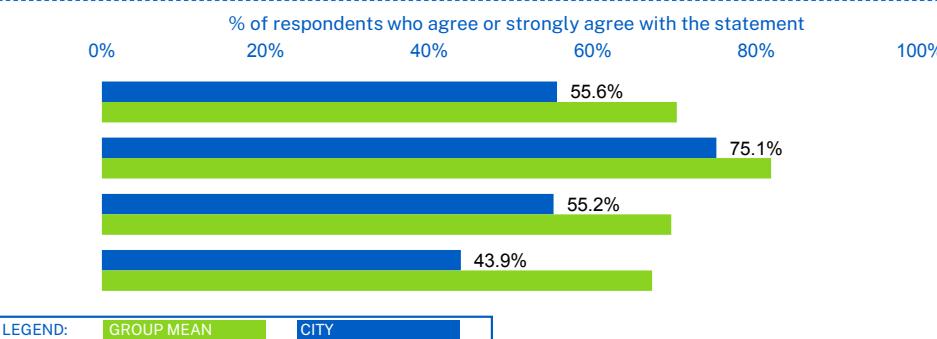
### Country

| Lebanon                     | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.756  | 0.760  | 0.765  | 0.764  | -0.001      |
| Life expectancy at birth    | 79.2   | 77.8   | 75.0   | 74.4   | -0.6        |
| Expected years of schooling | 12.1   | 12.1   | 12.1   | 12.1   | +0.0        |
| Mean years of schooling     | 8.6    | 8.6    | 8.6    | 8.6    | +0.0        |
| GNI per capita (PPP \$)     | 16,724 | 13,311 | 12,146 | 12,313 | +167        |

## PRIORITY AREAS



## ATTITUDES

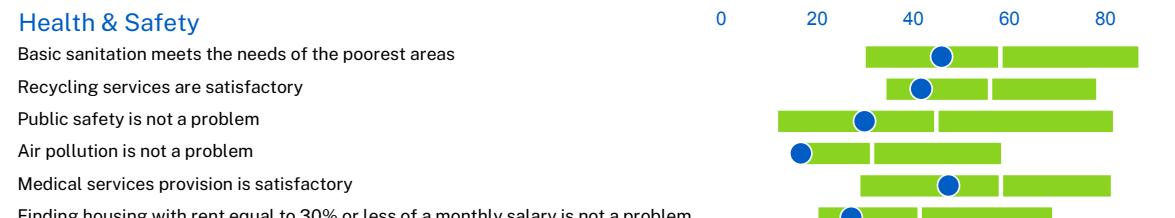


LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

### Score



### Mobility

### Score



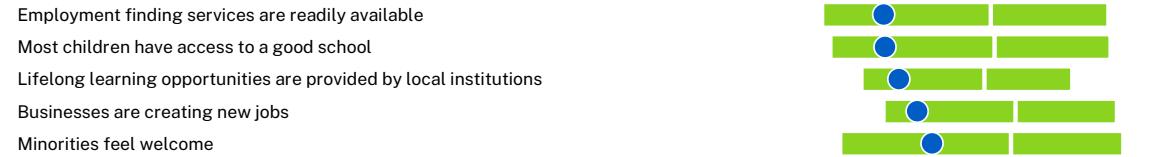
### Activities

### Score



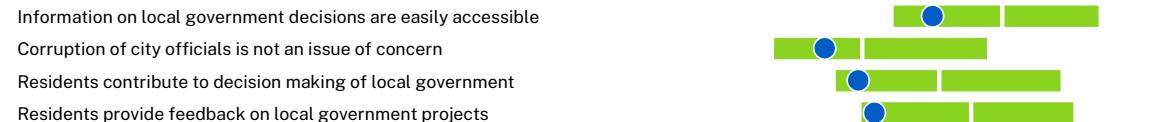
### Opportunities (Work & School)

### Score



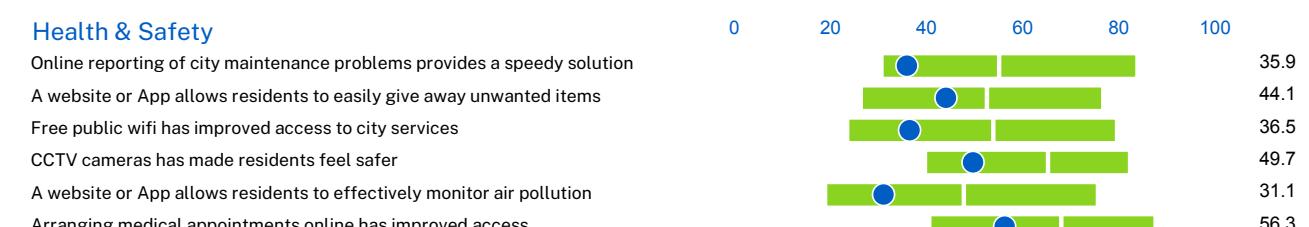
### Governance

### Score



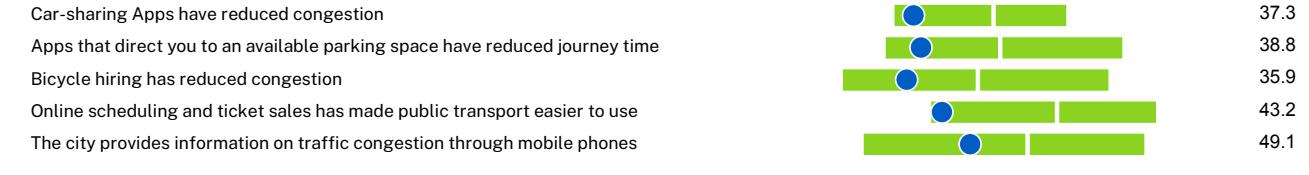
## TECHNOLOGIES

### Score



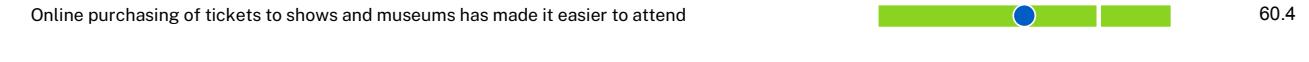
### Mobility

### Score



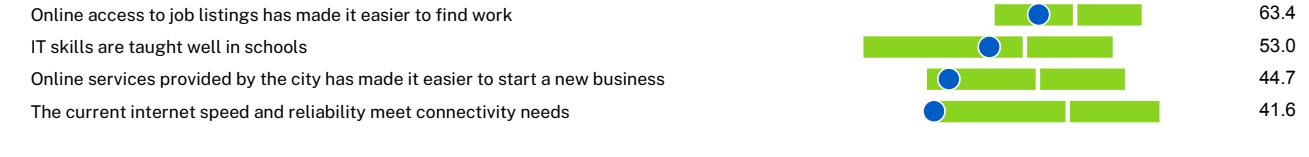
### Activities

### Score



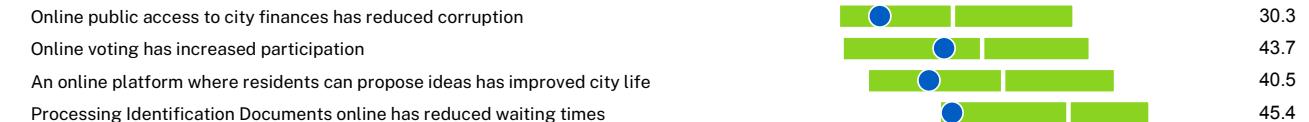
### Opportunities (Work & School)

### Score



### Governance

### Score



# Belfast

SMART  
CITY  
RANKING  
**94**

Out of 146



101 in 2024  
Out of 142

SMART  
CITY RATING

**CCC**

CC in 2024

FACTOR  
RATINGS

**CCC**

STRUCTURES

**CC**

TECHNOLOGIES

GROUP

**3**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 270,000  
(UN World Urbanization Prospects)

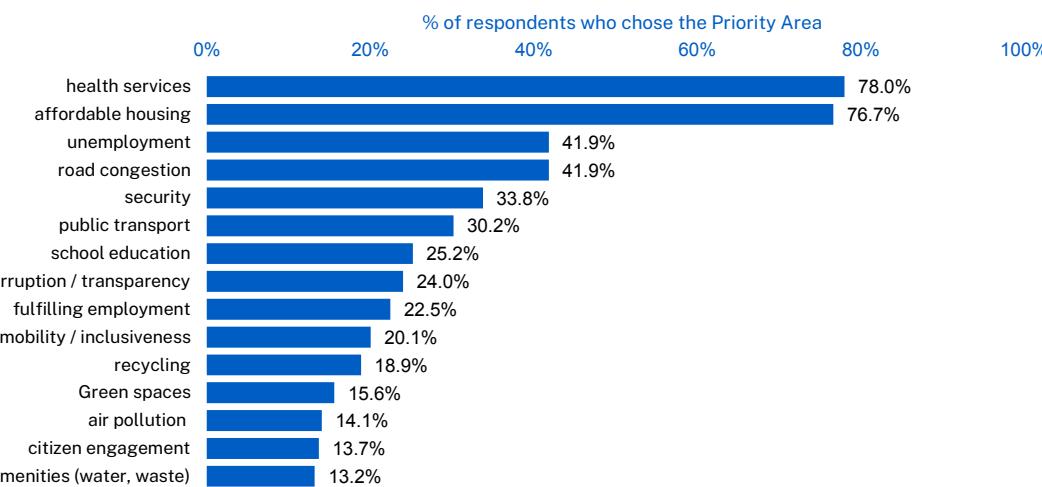
HDI 0.907  
(Global Data Lab)



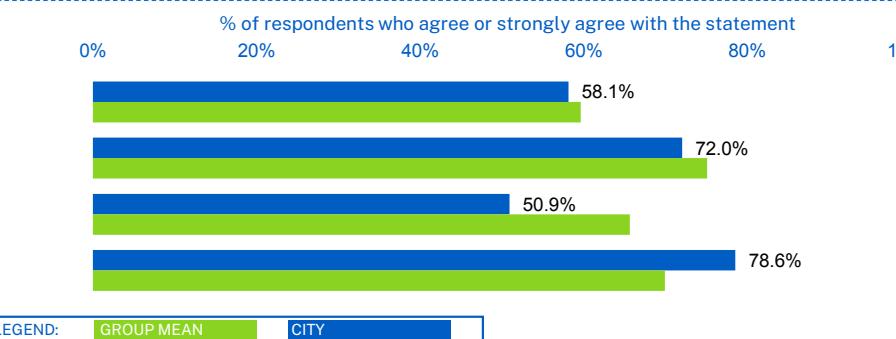
### Country

| United Kingdom              | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.923  | 0.926  | 0.929  | 0.928  | -0.001      |
| Life expectancy at birth    | 81.7   | 80.4   | 80.7   | 82.2   | +1.4        |
| Expected years of schooling | 17.2   | 17.2   | 17.6   | 17.6   | +0.0        |
| Mean years of schooling     | 13.3   | 13.4   | 13.4   | 13.4   | +0.0        |
| GNI per capita (PPP \$)     | 47,066 | 40,799 | 44,750 | 46,624 | +1,874      |

## PRIORITY AREAS



## ATTITUDES

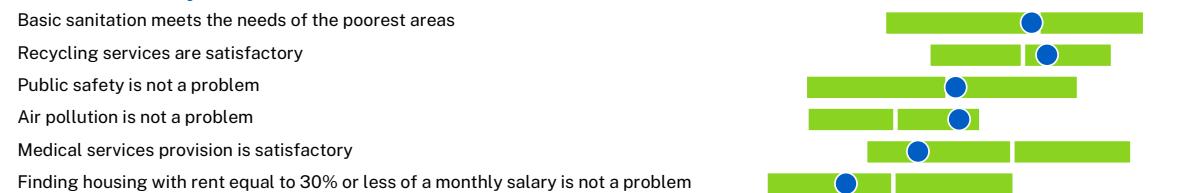


LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



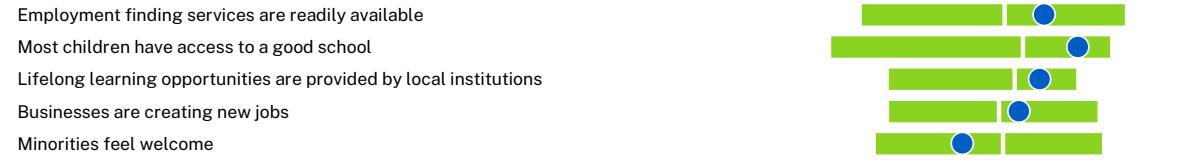
### Mobility



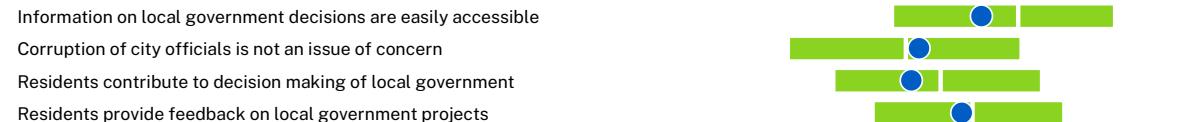
### Activities



### Opportunities (Work & School)

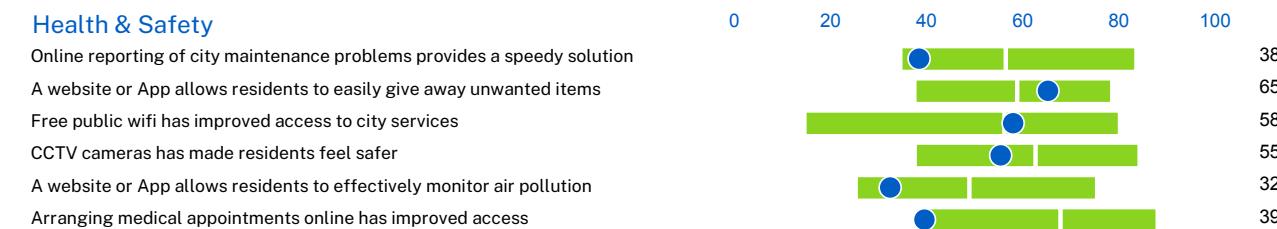


### Governance

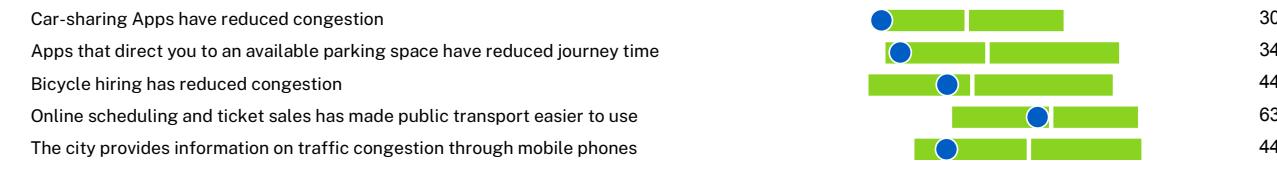


## TECHNOLOGIES

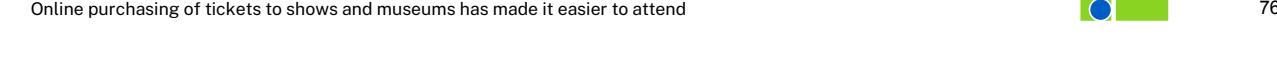
Score



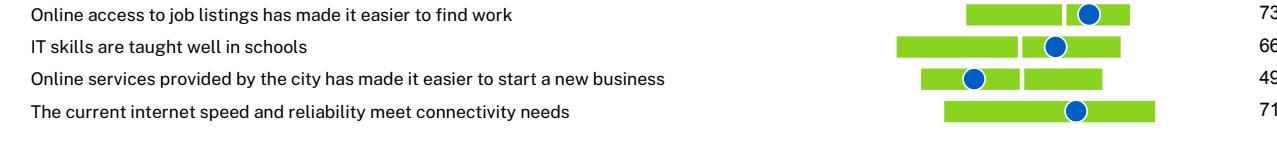
### Mobility



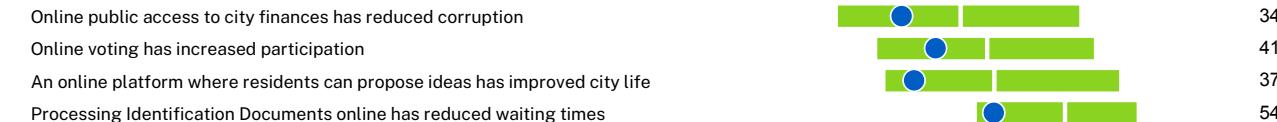
### Activities



### Opportunities (Work & School)



### Governance



# Bengaluru

SMART  
CITY  
RANKING  
**110**  
Out of 146

109 in 2024  
Out of 142

SMART  
CITY RATING

**CC**

CCC in 2024

FACTOR  
RATINGS

**CC**

STRUCTURES

**CC**

TECHNOLOGIES

**GROUP**

**4**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 14,010,000  
(UN World Urbanization Prospects)

HDI 0.673  
(Global Data Lab)

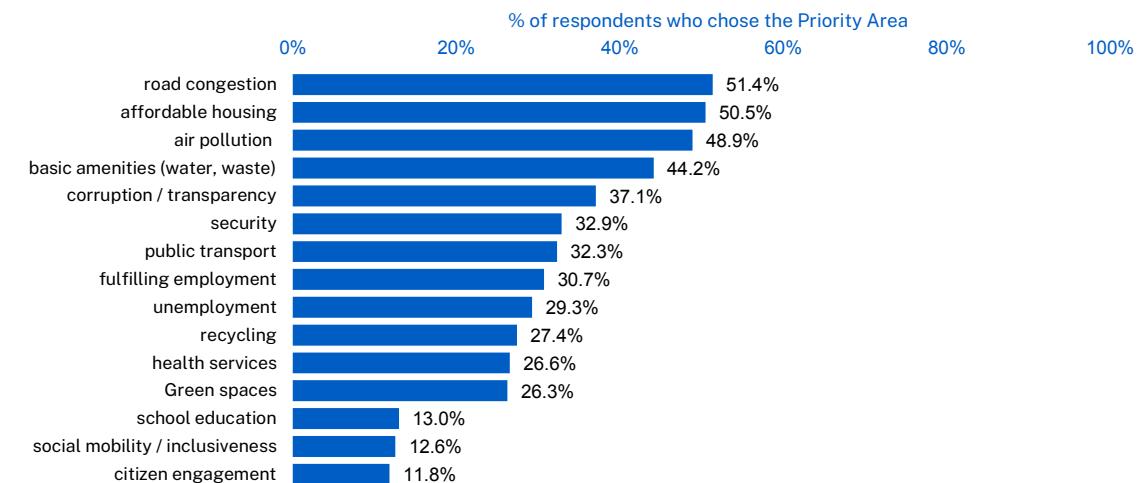


### Country

| India                       | 2019  | 2020  | 2021  | 2022  | 1 yr change |
|-----------------------------|-------|-------|-------|-------|-------------|
| HDI                         | 0.619 | 0.630 | 0.636 | 0.636 | +0.000      |
| Life expectancy at birth    | 70.9  | 70.2  | 67.2  | 67.7  | +0.5        |
| Expected years of schooling | 11.4  | 11.7  | 12.0  | 12.6  | +0.6        |
| Mean years of schooling     | 6.3   | 6.5   | 6.5   | 6.6   | +0.0        |
| GNI per capita (PPP \$)     | 6,554 | 6,090 | 6,542 | 6,951 | +408        |

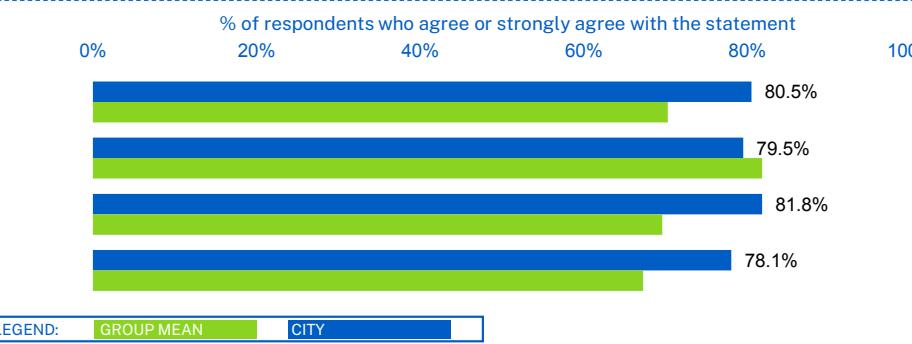
## PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. The higher the percentage of responses per area, the greater the priority for the city.



## ATTITUDES

- You are willing to concede personal data in order to improve traffic congestion
- You are comfortable with face recognition technologies to lower crime
- You feel the availability of online information has increased your trust in authorities
- The proportion of your day-to-day payment transactions that are non-cash (% of transactions)



LEGEND: GROUP MEAN CITY

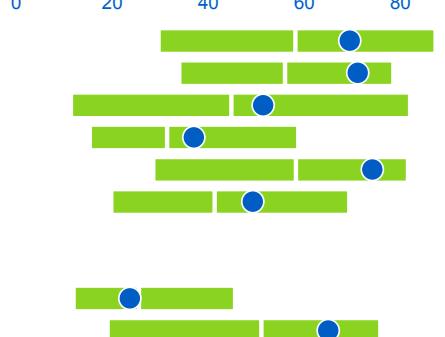
## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem

Score

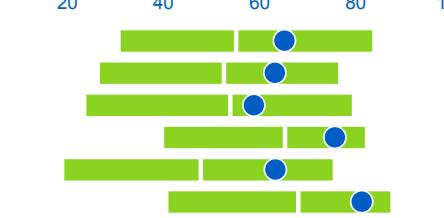


### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access

Score

Score



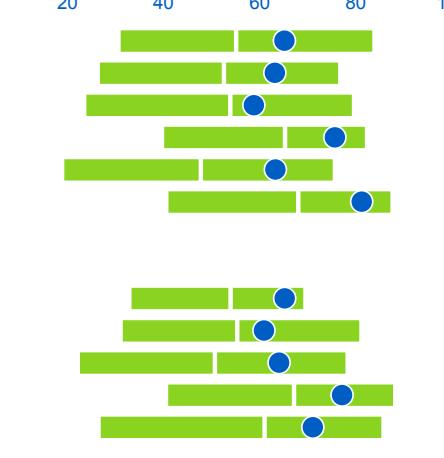
### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory

### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones

Score



### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory

### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend

Score

Score



### Opportunities (Work & School)

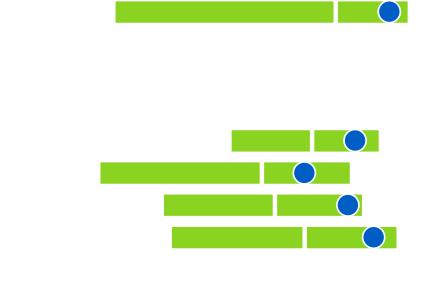
- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome

### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs

Score

Score



### Governance

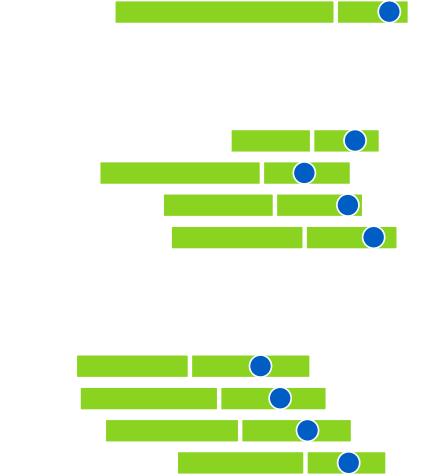
- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects

### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times

Score

Score



# Berlin

SMART  
CITY  
RANKING  
**37**

Out of 146

37 in 2024  
Out of 142

SMART  
CITY RATING

**A**

BBB in 2024

FACTOR  
RATINGS

**BBB**

STRUCTURES

**BBB**

TECHNOLOGIES

GROUP

**1**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 3,580,000  
(UN World Urbanization Prospects)

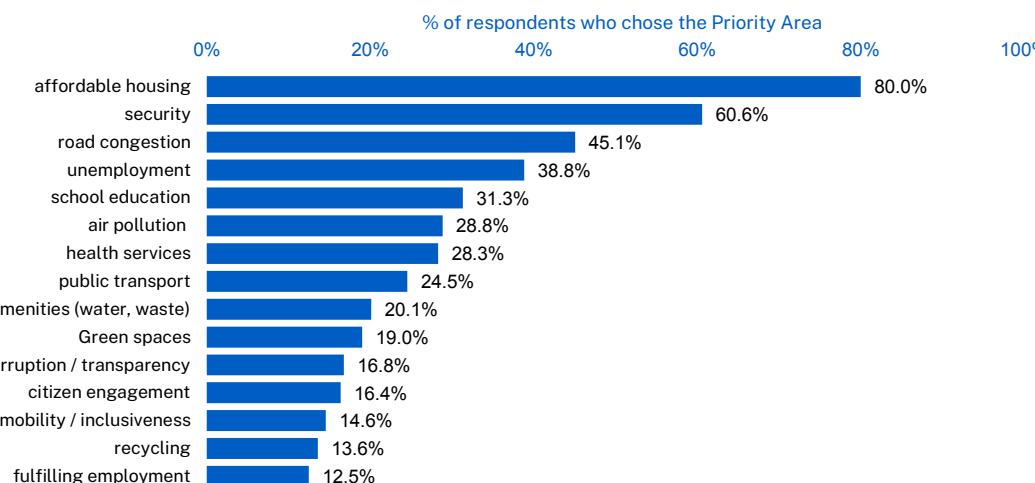
HDI 0.967  
(Global Data Lab)



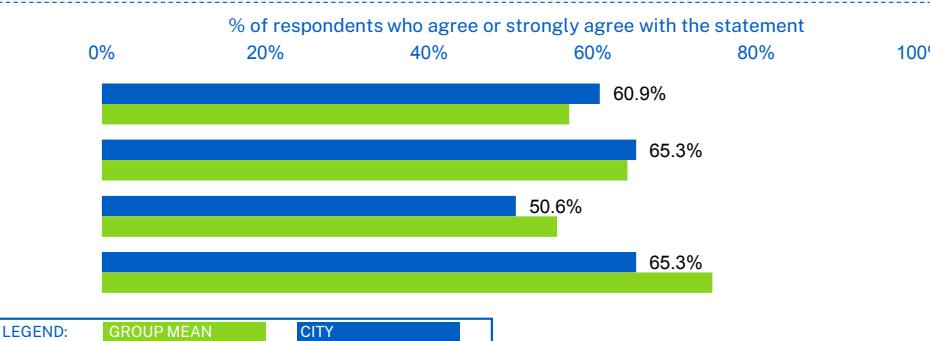
### Country

| Germany                     | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.941  | 0.941  | 0.944  | 0.946  | +0.002      |
| Life expectancy at birth    | 81.6   | 81.1   | 80.6   | 81.0   | +0.4        |
| Expected years of schooling | 17.2   | 17.2   | 17.3   | 17.3   | +0.0        |
| Mean years of schooling     | 14.2   | 14.3   | 14.3   | 14.3   | +0.0        |
| GNI per capita (PPP \$)     | 55,685 | 53,375 | 55,057 | 55,340 | +284        |

## PRIORITY AREAS



## ATTITUDES



LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

Score

Score

## TECHNOLOGIES

Score

### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem

### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access

### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory

### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones

### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory

### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend

### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome

### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs

### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects

### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times

# Bilbao

SMART  
CITY  
RANKING  
**29**

Out of 146

29 in 2024  
Out of 142

SMART  
CITY RATING

**A**

BBB in 2024

FACTOR  
RATINGS

**A**

STRUCTURES

**BBB**

TECHNOLOGIES

GROUP

**2**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 350,000  
(UN World Urbanization Prospects)

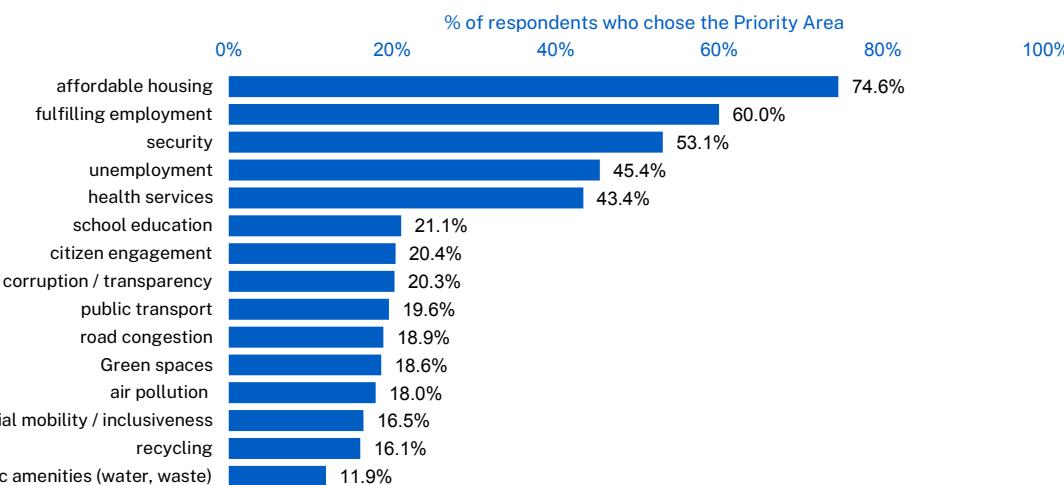
HDI 0.939  
(Global Data Lab)



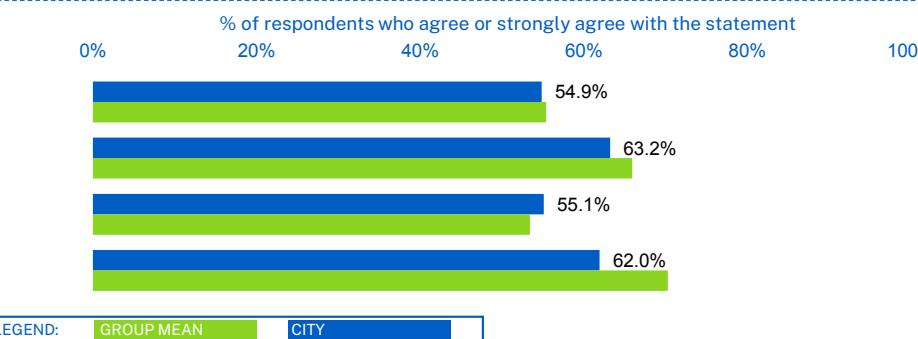
### Country

| Spain                       | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.889  | 0.894  | 0.896  | 0.899  | +0.003      |
| Life expectancy at birth    | 83.5   | 82.3   | 83.0   | 83.9   | +0.9        |
| Expected years of schooling | 17.5   | 17.5   | 17.8   | 17.8   | +0.0        |
| Mean years of schooling     | 10.4   | 10.6   | 10.6   | 10.6   | +0.0        |
| GNI per capita (PPP \$)     | 40,854 | 36,076 | 38,133 | 40,043 | +1,911      |

## PRIORITY AREAS



## ATTITUDES

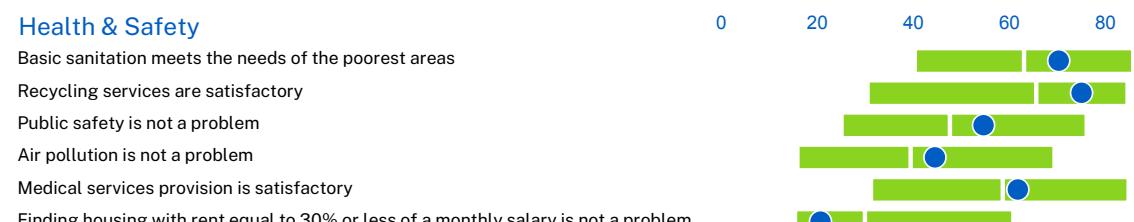


LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

Score



## Mobility

Score



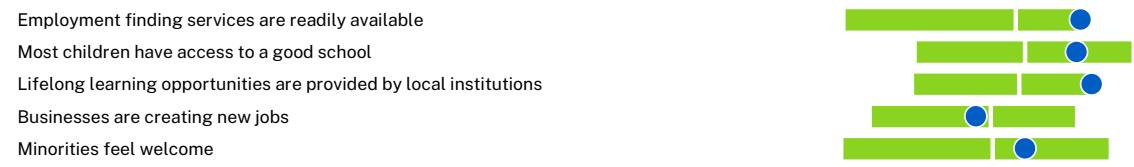
## Activities

Score



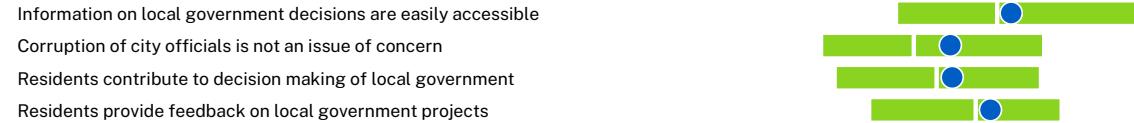
## Opportunities (Work & School)

Score



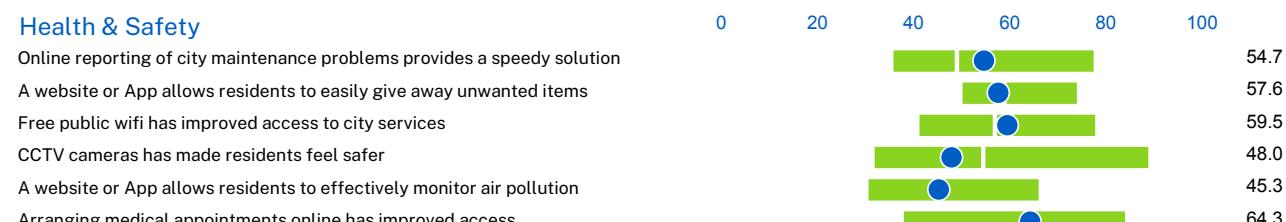
## Governance

Score



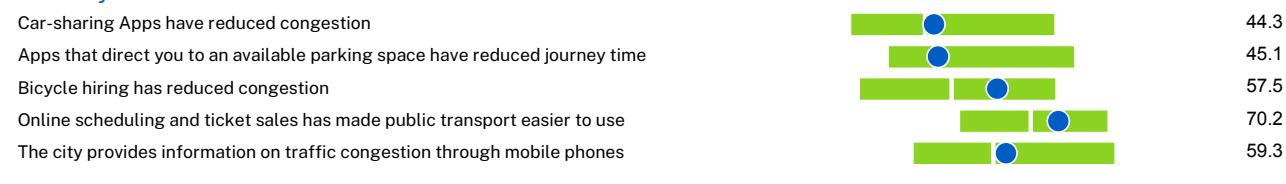
## TECHNOLOGIES

Score



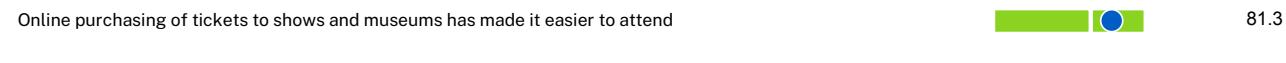
## Mobility

Score



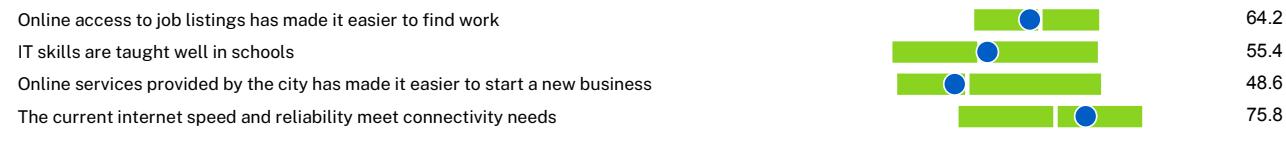
## Activities

Score



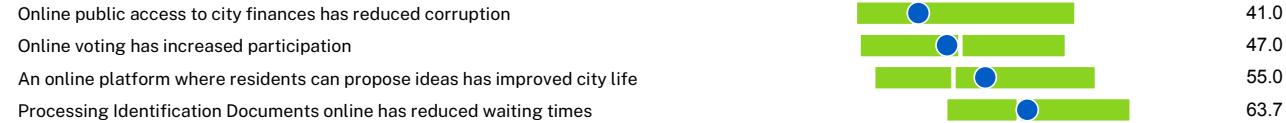
## Opportunities (Work & School)

Score



## Governance

Score



# Birmingham

SMART  
CITY  
RANKING  
**80**

Out of 146



83 in 2024  
Out of 142

SMART  
CITY RATING



BB in 2024

FACTOR  
RATINGS



STRUCTURES



TECHNOLOGIES



All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 2,680,000  
(UN World Urbanization Prospects)

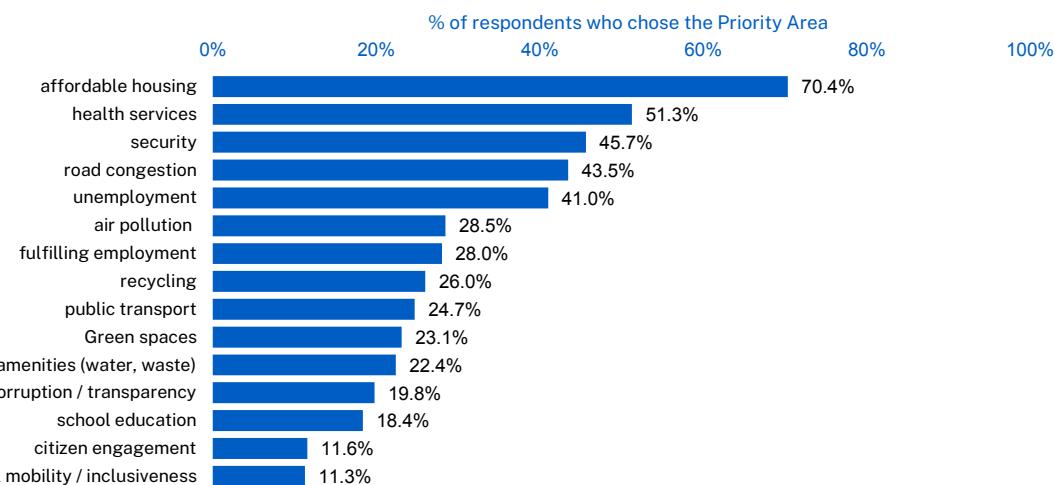
HDI 0.925  
(Global Data Lab)



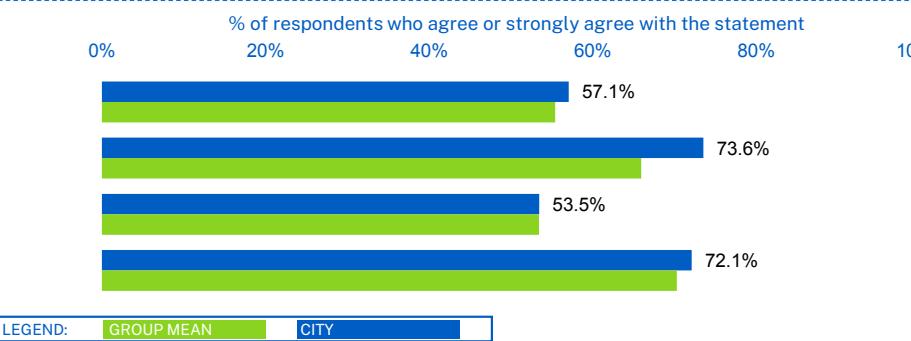
### Country

| United Kingdom              | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.923  | 0.926  | 0.929  | 0.928  | -0.001      |
| Life expectancy at birth    | 81.7   | 80.4   | 80.7   | 82.2   | +1.4        |
| Expected years of schooling | 17.2   | 17.2   | 17.6   | 17.6   | +0.0        |
| Mean years of schooling     | 13.3   | 13.4   | 13.4   | 13.4   | +0.0        |
| GNI per capita (PPP \$)     | 47,066 | 40,799 | 44,750 | 46,624 | +1,874      |

## PRIORITY AREAS



## ATTITUDES

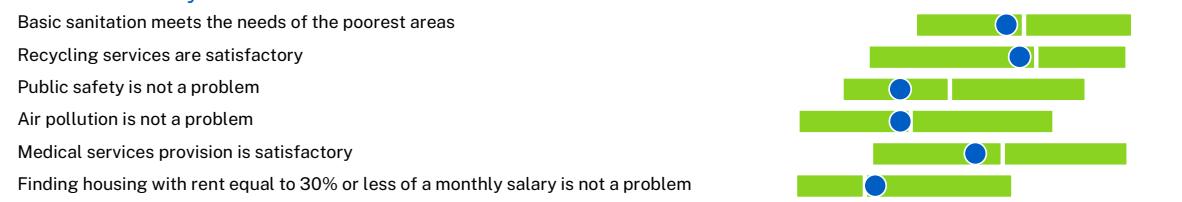


LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



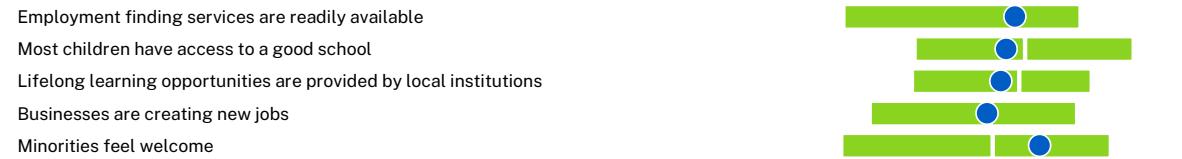
### Mobility



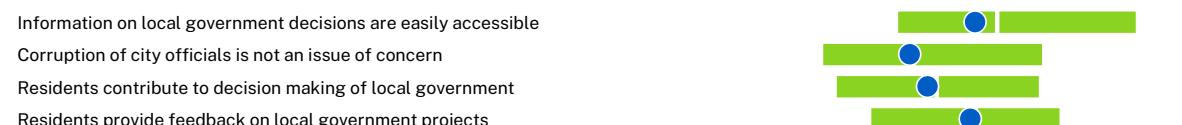
### Activities



### Opportunities (Work & School)

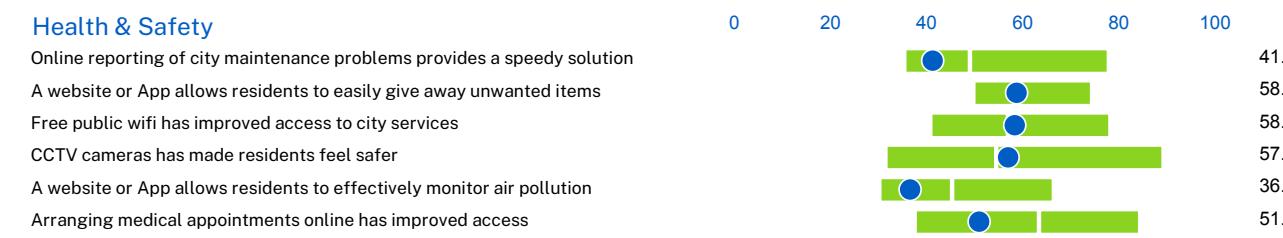


### Governance

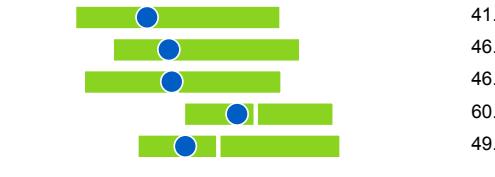


## TECHNOLOGIES

Score



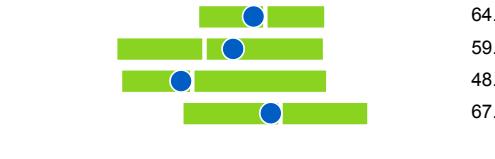
### Mobility



### Activities



### Opportunities (Work & School)



### Governance



# Bogota

SMART  
CITY  
RANKING  
**134**

Out of 146

127 in 2024  
Out of 142

SMART  
CITY RATING

**C**

D in 2024

FACTOR  
RATINGS

**C**

STRUCTURES

**C**

TECHNOLOGIES

GROUP

**4**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 11,660,000  
(UN World Urbanization Prospects)

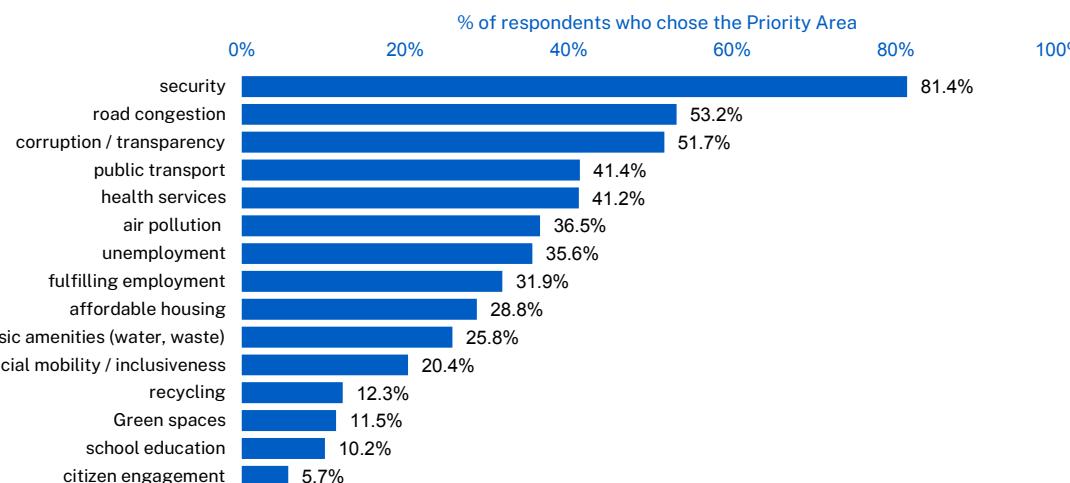
HDI 0.804  
(Global Data Lab)



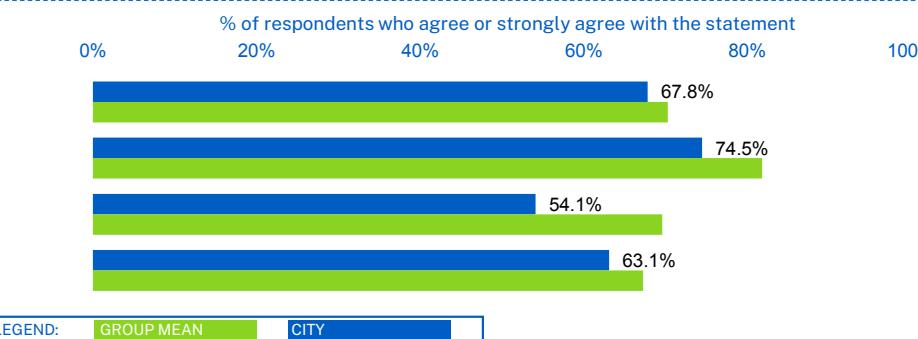
### Country

| Colombia                    | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.758  | 0.763  | 0.765  | 0.766  | +0.001      |
| Life expectancy at birth    | 76.8   | 74.8   | 72.8   | 73.7   | +0.8        |
| Expected years of schooling | 14.5   | 14.4   | 14.4   | 14.4   | +0.0        |
| Mean years of schooling     | 8.6    | 8.9    | 8.9    | 8.9    | +0.0        |
| GNI per capita (PPP \$)     | 14,294 | 13,220 | 14,403 | 15,014 | +611        |

## PRIORITY AREAS



## ATTITUDES

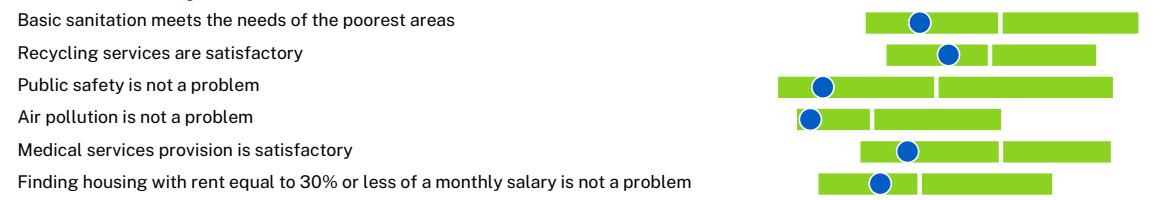


LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



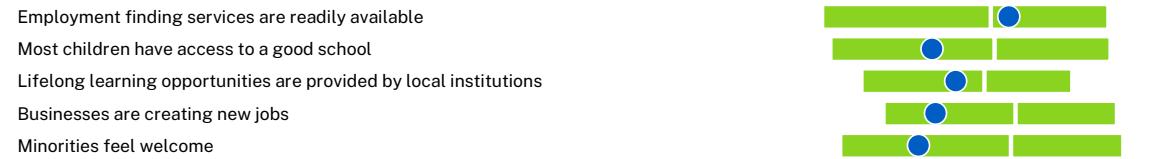
### Mobility



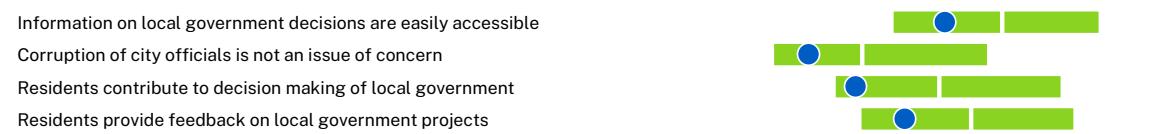
### Activities



### Opportunities (Work & School)

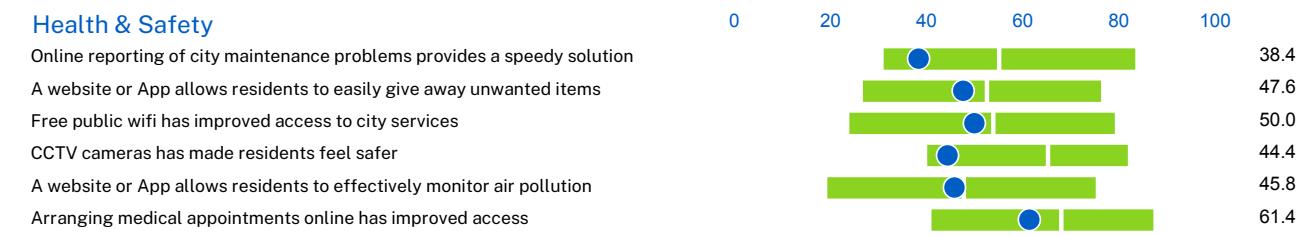


### Governance

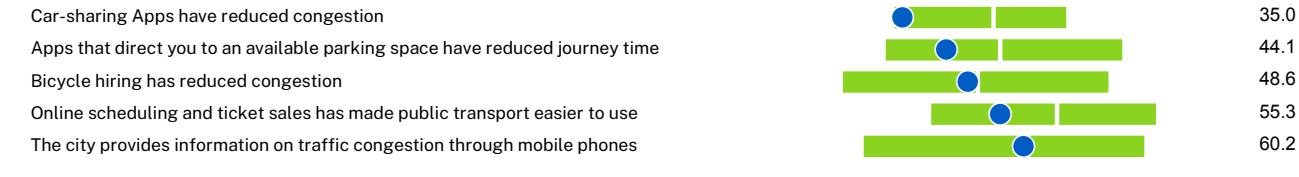


## TECHNOLOGIES

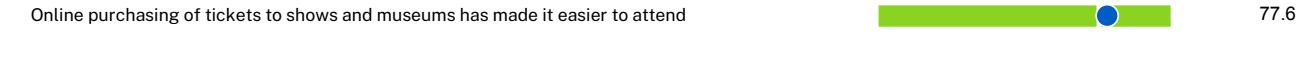
Score



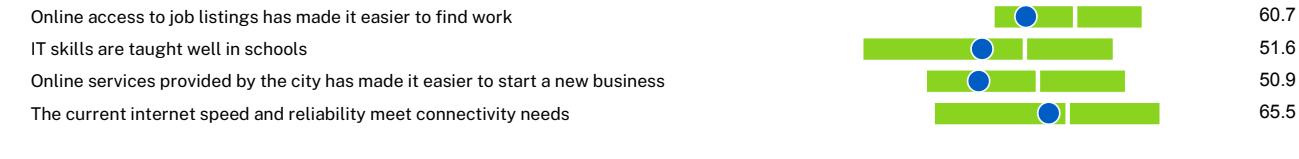
### Mobility



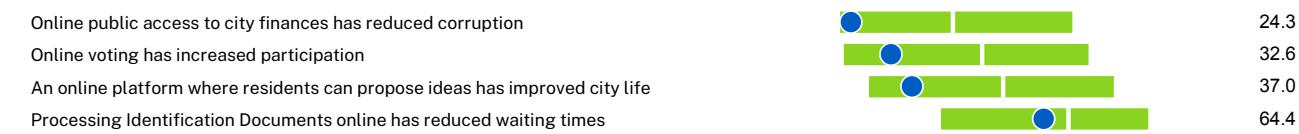
### Activities



### Opportunities (Work & School)



### Governance



# Bologna

SMART  
CITY  
RANKING  
**83**

Out of 146



78 in 2024  
Out of 142

SMART  
CITY RATING

**BB**

BB in 2024

FACTOR  
RATINGS

**B**  
STRUCTURES

**B**  
TECHNOLOGIES

GROUP  
**2**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 820,000  
(UN World Urbanization Prospects)

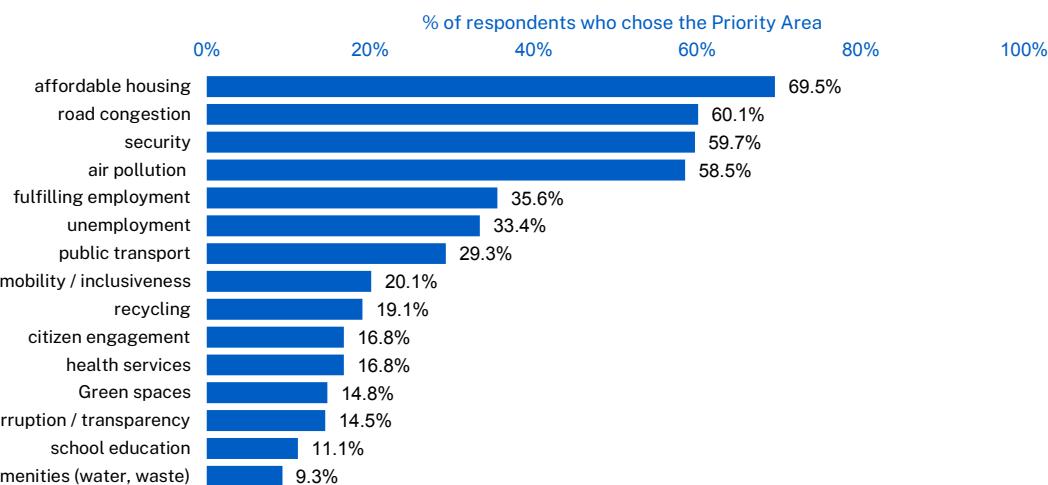
HDI 0.935  
(Global Data Lab)



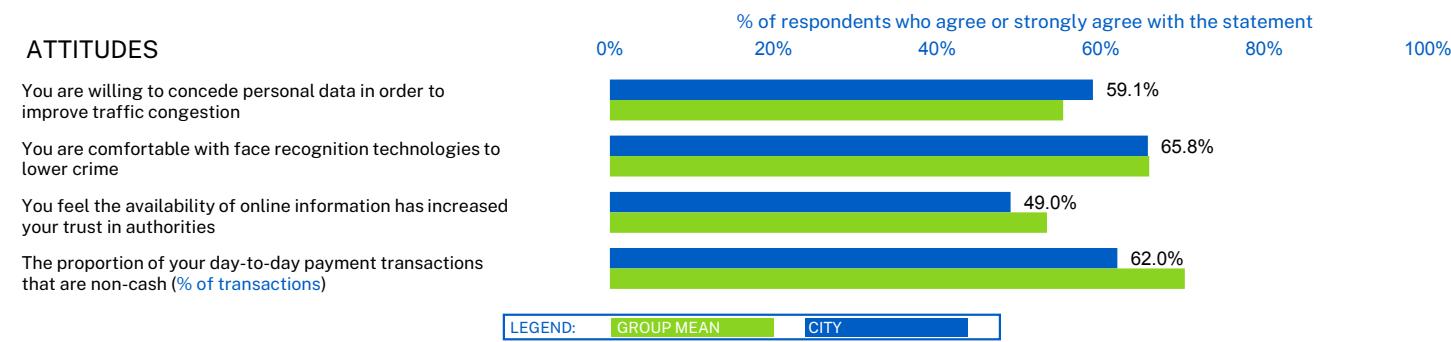
### Country

| Italy                       | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.881  | 0.886  | 0.889  | 0.894  | +0.005      |
| Life expectancy at birth    | 83.6   | 82.4   | 82.9   | 84.1   | +1.2        |
| Expected years of schooling | 16.4   | 16.5   | 16.7   | 16.7   | +0.0        |
| Mean years of schooling     | 10.7   | 10.7   | 10.7   | 10.7   | +0.0        |
| GNI per capita (PPP \$)     | 43,102 | 39,587 | 42,856 | 44,284 | +1,428      |

## PRIORITY AREAS



## ATTITUDES



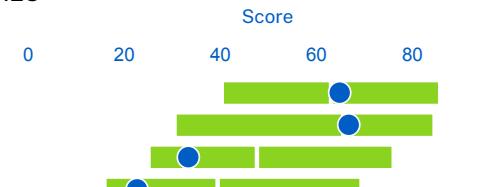
LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem



### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access



### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory



### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory



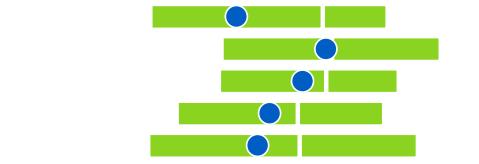
### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend



### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome



### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs



### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects



### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times



# Bordeaux

SMART  
CITY  
RANKING

**77**

Out of 146

70 in 2024  
Out of 142

SMART  
CITY RATING

**B**

CCC in 2024

FACTOR  
RATINGS

**B**

STRUCTURES

**CCC**

TECHNOLOGIES

GROUP

**3**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 1,010,000  
(UN World Urbanization Prospects)

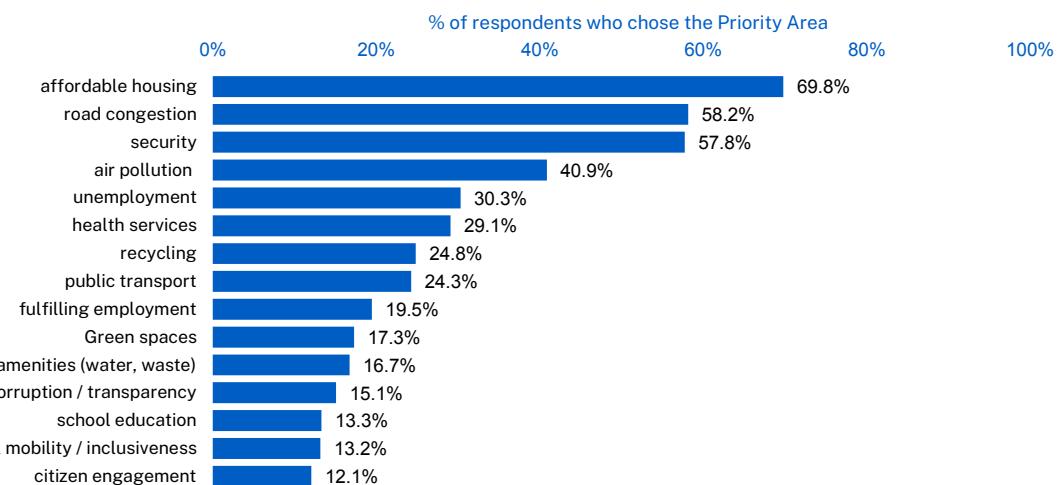
HDI 0.907  
(Global Data Lab)



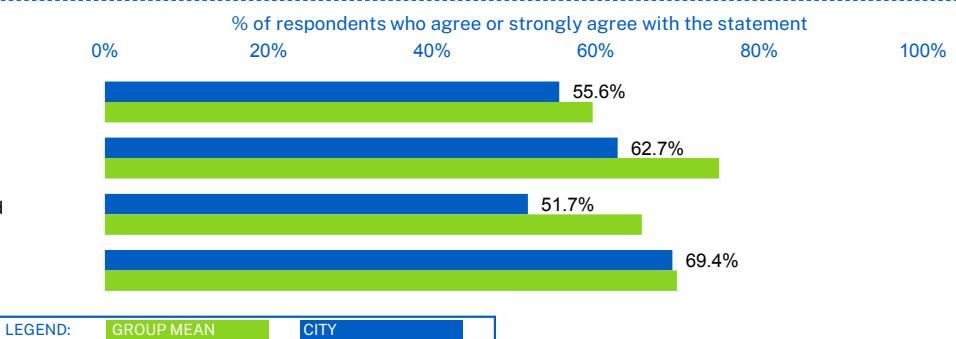
### Country

| France                      | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.893  | 0.896  | 0.899  | 0.903  | +0.004      |
| Life expectancy at birth    | 82.7   | 82.2   | 82.5   | 83.2   | +0.7        |
| Expected years of schooling | 15.9   | 15.9   | 16.0   | 16.0   | +0.0        |
| Mean years of schooling     | 11.6   | 11.7   | 11.7   | 11.7   | +0.0        |
| GNI per capita (PPP \$)     | 46,907 | 42,891 | 46,322 | 47,379 | +1,057      |

## PRIORITY AREAS



## ATTITUDES

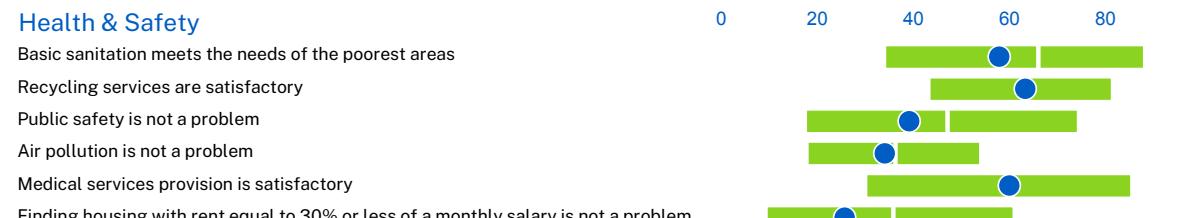


LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

### Score



### Mobility

### Score



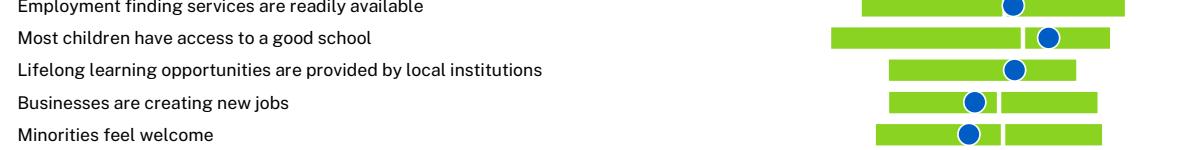
### Activities

### Score



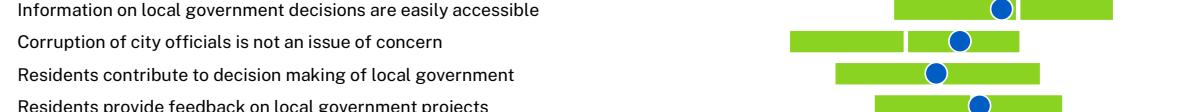
### Opportunities (Work & School)

### Score



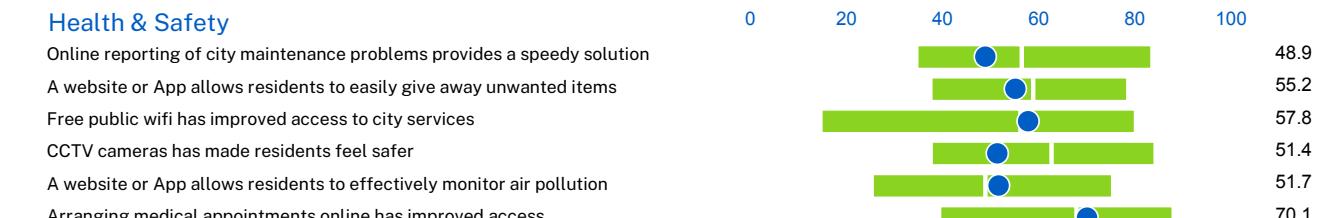
### Governance

### Score



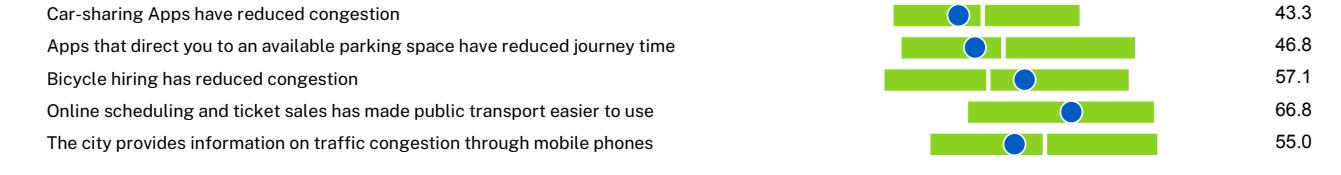
## TECHNOLOGIES

### Score



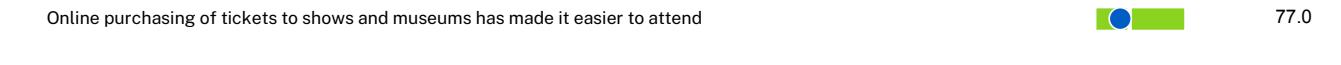
### Mobility

### Score



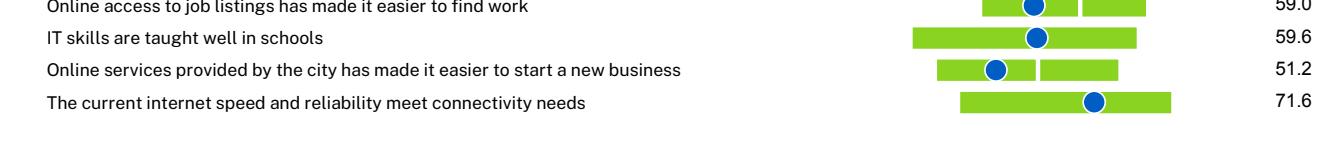
### Activities

### Score



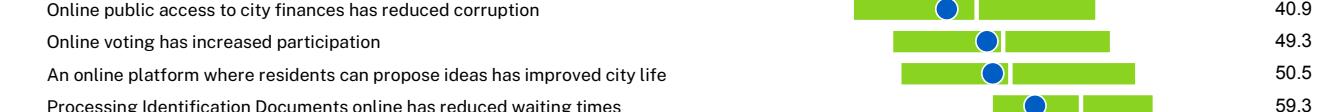
### Opportunities (Work & School)

### Score



### Governance

### Score



# Boston

SMART  
CITY  
RANKING  
**35**

Out of 146



36 in 2024  
Out of 142

SMART  
CITY RATING



BBB in 2024

FACTOR  
RATINGS

**BBB**

STRUCTURES

**BBB**

TECHNOLOGIES

GROUP  
**1**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

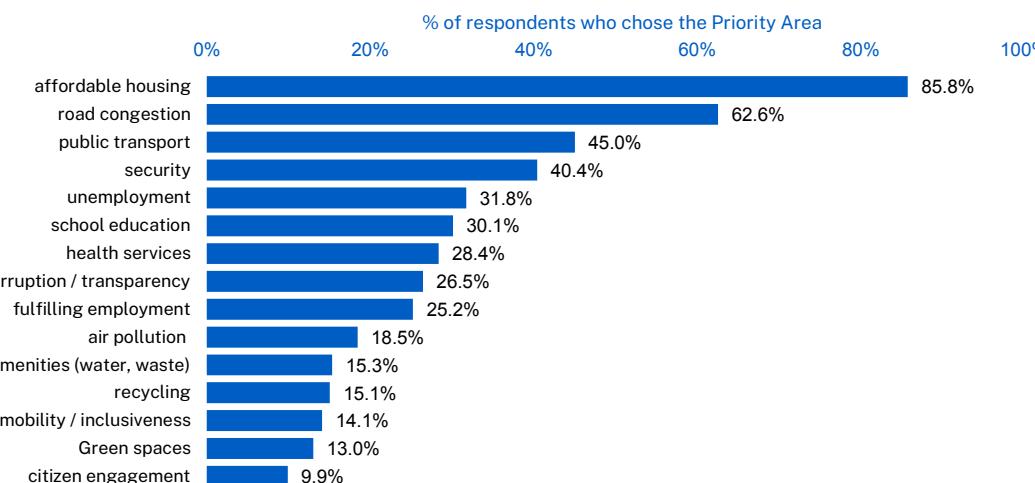
Population 670,000  
(UN World Urbanization Prospects)



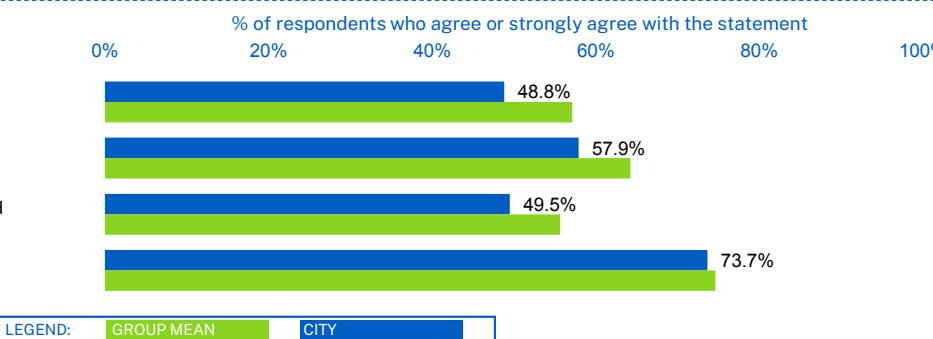
### Country

| United States               | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.924  | 0.926  | 0.928  | 0.930  | +0.002      |
| Life expectancy at birth    | 79.1   | 77.4   | 77.2   | 78.2   | +1.0        |
| Expected years of schooling | 16.6   | 16.6   | 16.4   | 16.4   | +0.0        |
| Mean years of schooling     | 13.6   | 13.7   | 13.6   | 13.6   | +0.0        |
| GNI per capita (PPP \$)     | 63,654 | 61,077 | 64,484 | 65,565 | +1,081      |

## PRIORITY AREAS



## ATTITUDES



LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

### Score

| Health & Safety   | Score |
|---|-------|
| Basic sanitation meets the needs of the poorest areas                               | 60.0  |
| Recycling services are satisfactory   | 68.7  |
| Public safety is not a problem  | 45.6  |
| Air pollution is not a problem  | 46.1  |
| Medical services provision is satisfactory  | 74.2  |
| Finding housing with rent equal to 30% or less of a monthly salary is not a problem | 24.2  |

### Mobility

| Mobility                            | Score |
|-------------------------------------|-------|
| Traffic congestion is not a problem | 16.1  |
| Public transport is satisfactory    | 42.9  |

### Activities

| Activities  | Score |
|---|-------|
| Green spaces are satisfactory                                   | 69.8  |
| Cultural activities (shows, bars, and museums) are satisfactory | 82.9  |

### Opportunities (Work & School)

| Opportunities (Work & School)                                      | Score |
|--|-------|
| Employment finding services are readily available                  | 66.8  |
| Most children have access to a good school                         | 60.8  |
| Lifelong learning opportunities are provided by local institutions | 67.7  |
| Businesses are creating new jobs                                   | 64.9  |
| Minorities feel welcome  | 61.5  |

### Governance

| Governance  | Score |
|---|-------|
| Information on local government decisions are easily accessible | 67.6  |
| Corruption of city officials is not an issue of concern         | 42.6  |
| Residents contribute to decision making of local government     | 53.3  |
| Residents provide feedback on local government projects         | 64.5  |

## TECHNOLOGIES

### Score

| Health & Safety  | Score |
|--|-------|
| Online reporting of city maintenance problems provides a speedy solution | 43.2  |
| A website or App allows residents to easily give away unwanted items     | 56.8  |
| Free public wifi has improved access to city services                    | 52.3  |
| CCTV cameras has made residents feel safer                               | 47.7  |
| A website or App allows residents to effectively monitor air pollution   | 34.9  |
| Arranging medical appointments online has improved access                | 66.0  |

### Mobility

| Mobility   | Score |
|--|-------|
| Car-sharing Apps have reduced congestion                                     | 44.3  |
| Apps that direct you to an available parking space have reduced journey time | 46.0  |
| Bicycle hiring has reduced congestion  | 43.5  |
| Online scheduling and ticket sales has made public transport easier to use   | 57.8  |
| The city provides information on traffic congestion through mobile phones    | 57.3  |

### Activities

| Activities   | Score |
|--|-------|
| Online purchasing of tickets to shows and museums has made it easier to attend | 76.8  |

### Opportunities (Work & School)

| Opportunities (Work & School)   | Score |
|---|-------|
| Online access to job listings has made it easier to find work                   | 68.2  |
| IT skills are taught well in schools  | 49.8  |
| Online services provided by the city has made it easier to start a new business | 49.5  |
| The current internet speed and reliability meet connectivity needs              | 67.5  |

### Governance

| Governance  | Score |
|---|-------|
| Online public access to city finances has reduced corruption                | 40.3  |
| Online voting has increased participation                                   | 53.0  |
| An online platform where residents can propose ideas has improved city life | 43.8  |
| Processing Identification Documents online has reduced waiting times        | 54.9  |

All ratings range from AAA to D

# Brasilia

SMART  
CITY  
RANKING  
**130**  
Out of 146

130 in 2024  
Out of 142

SMART  
CITY RATING

**C**

C in 2024

FACTOR  
RATINGS

**C**

STRUCTURES

TECHNOLOGIES

**3**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 4,940,000  
(UN World Urbanization Prospects)

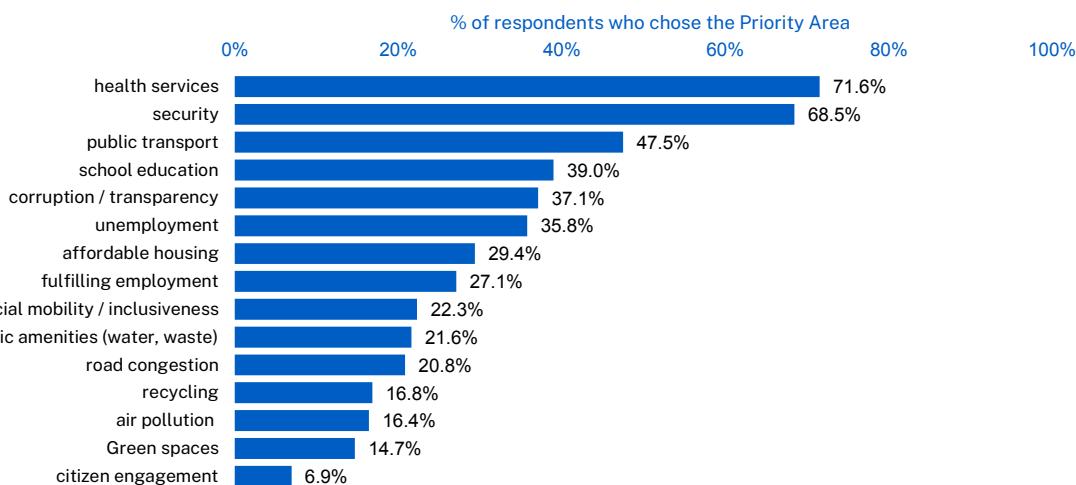
HDI 0.822  
(Global Data Lab)



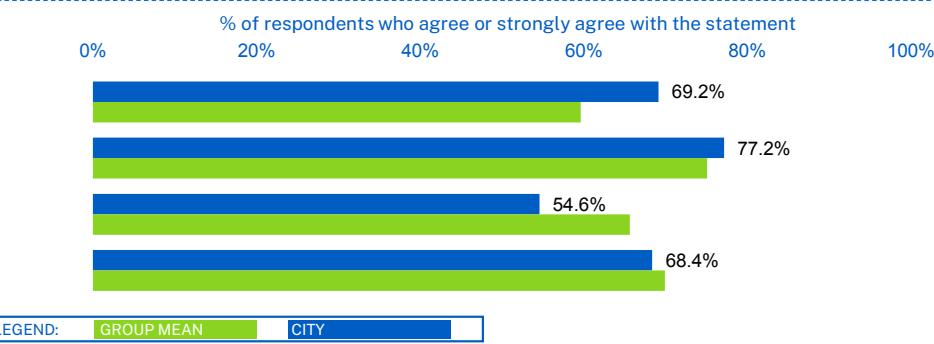
### Country

| Brazil                      | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.752  | 0.753  | 0.758  | 0.762  | +0.004      |
| Life expectancy at birth    | 75.3   | 74.0   | 72.8   | 73.4   | +0.7        |
| Expected years of schooling | 15.4   | 15.4   | 15.6   | 15.6   | +0.0        |
| Mean years of schooling     | 8.1    | 8.3    | 8.3    | 8.3    | +0.0        |
| GNI per capita (PPP \$)     | 14,291 | 13,815 | 14,342 | 14,616 | +274        |

## PRIORITY AREAS



## ATTITUDES

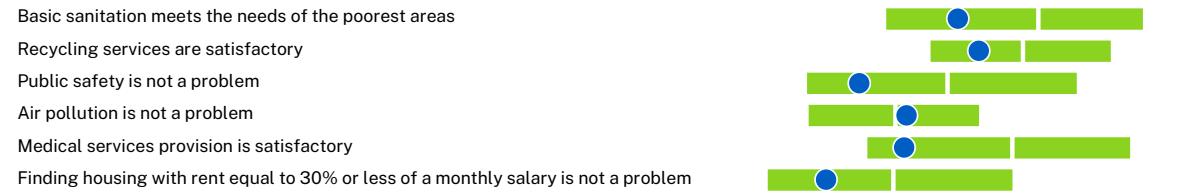


LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

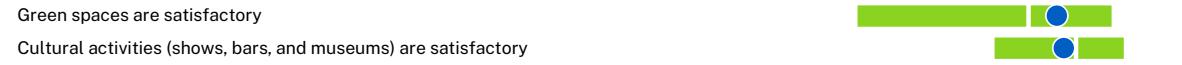
### Health & Safety



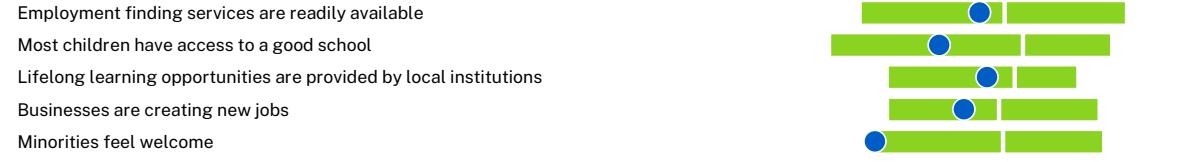
### Mobility



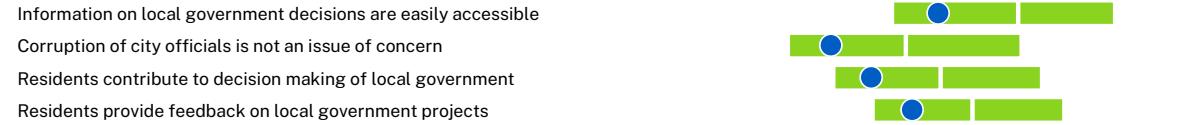
### Activities



### Opportunities (Work & School)



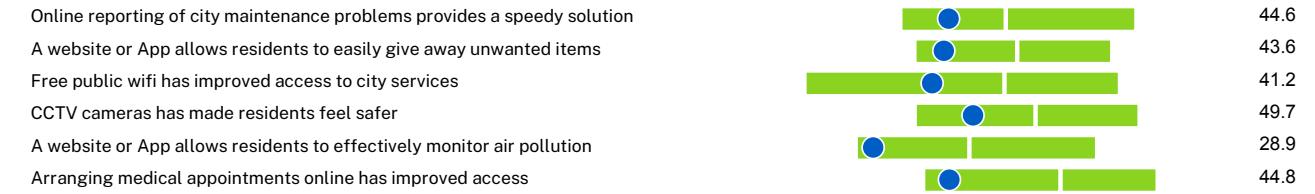
### Governance



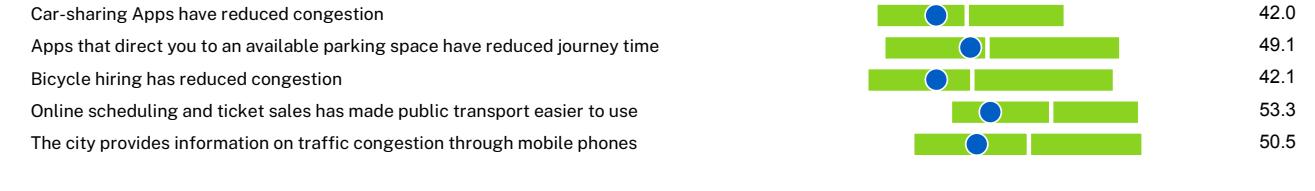
## TECHNOLOGIES

Score

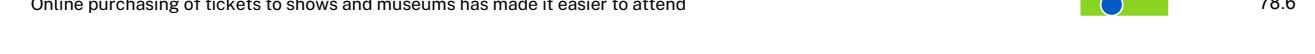
### Health & Safety



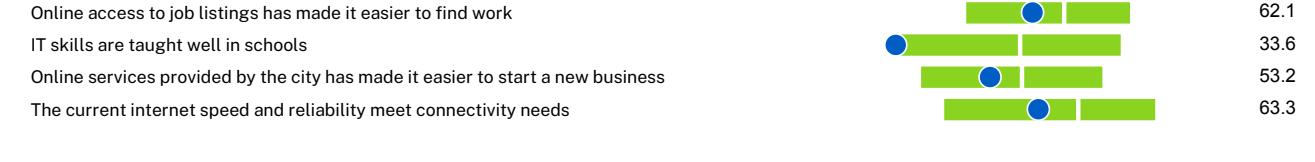
### Mobility



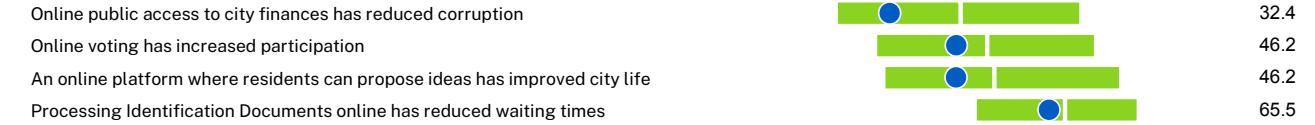
### Activities



### Opportunities (Work & School)



### Governance



# Bratislava

SMART  
CITY  
RANKING  
**57**

Out of 146



56 in 2024  
Out of 142

SMART  
CITY RATING

**BB**

BBB in 2024

FACTOR  
RATINGS

**BB**

STRUCTURES

**BBB**

TECHNOLOGIES

GROUP  
**1**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 420,000  
(UN World Urbanization Prospects)

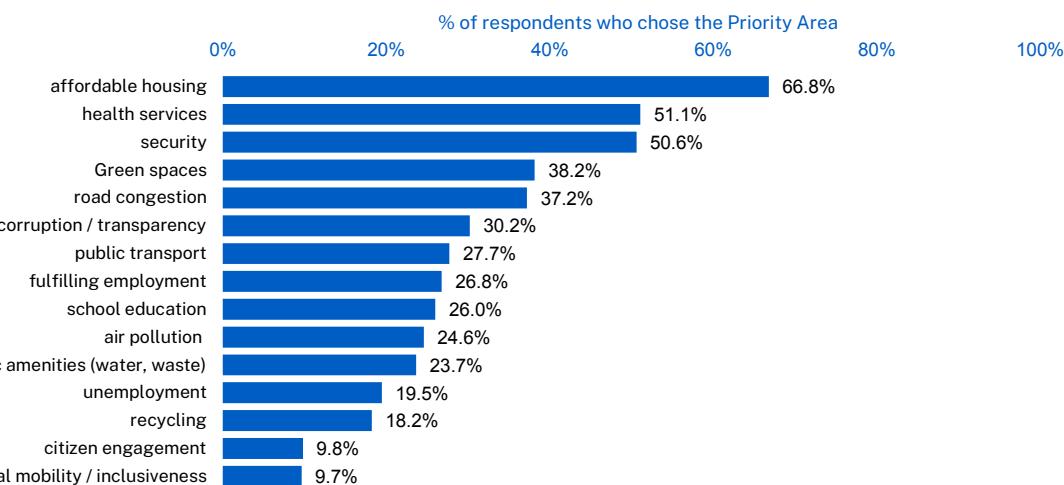
HDI 0.945  
(Global Data Lab)



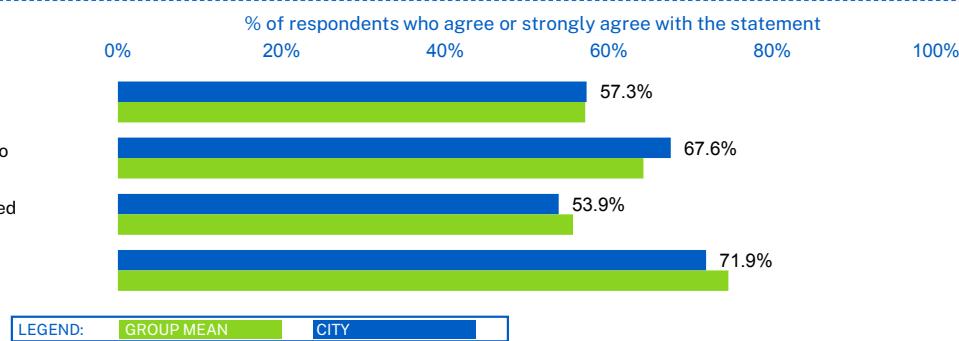
### Country

| Slovakia                    | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.852  | 0.855  | 0.857  | 0.860  | +0.003      |
| Life expectancy at birth    | 77.7   | 77.0   | 74.9   | 75.3   | +0.4        |
| Expected years of schooling | 14.5   | 14.6   | 14.7   | 14.7   | +0.0        |
| Mean years of schooling     | 12.9   | 13.0   | 13.0   | 13.0   | +0.0        |
| GNI per capita (PPP \$)     | 31,292 | 30,589 | 31,553 | 32,171 | +618        |

## PRIORITY AREAS



## ATTITUDES

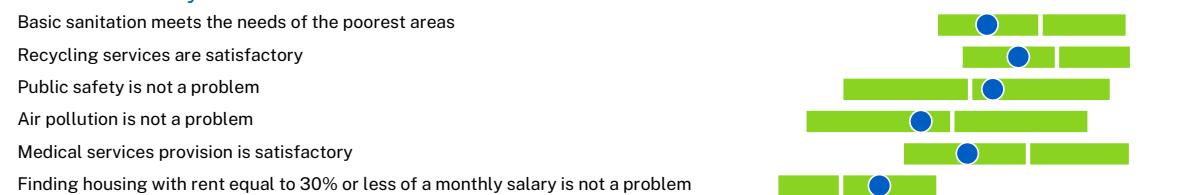


LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

### Health & Safety



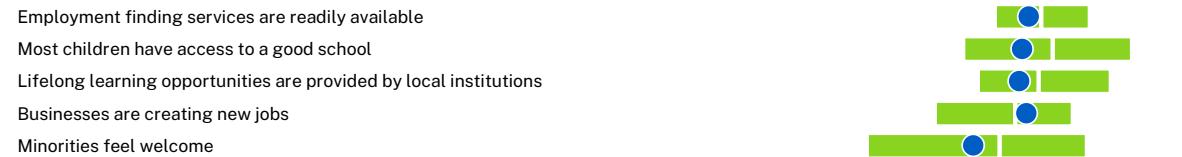
### Mobility



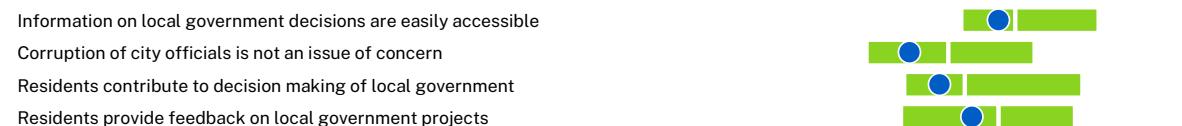
### Activities



### Opportunities (Work & School)

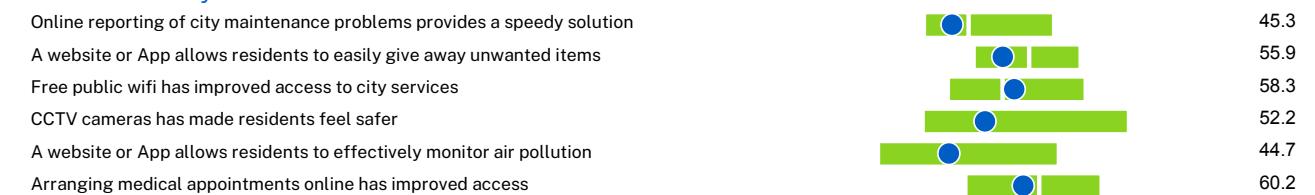


### Governance

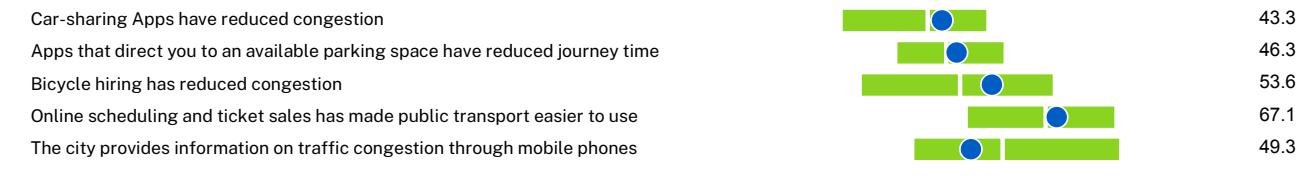


## TECHNOLOGIES

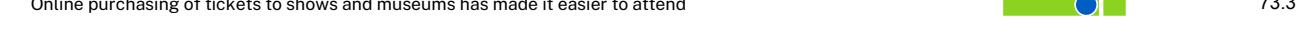
### Health & Safety



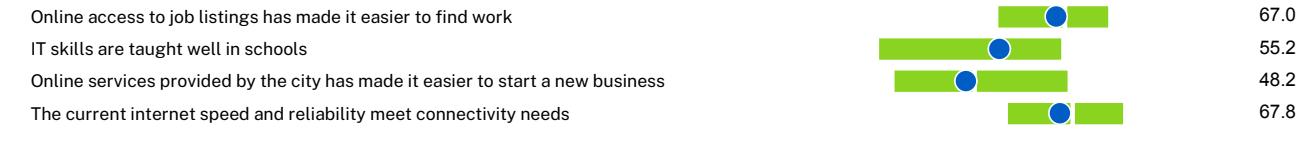
### Mobility



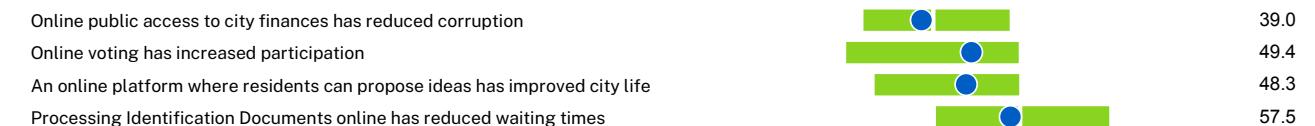
### Activities



### Opportunities (Work & School)



### Governance



# Brisbane

SMART  
CITY  
RANKING

**51**

Out of 146



30 in 2024  
Out of 142

SMART  
CITY RATING

**BBB**

A in 2024

FACTOR  
RATINGS

**BBB**

STRUCTURES

**BB**

TECHNOLOGIES

**2**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 2,540,000  
(UN World Urbanization Prospects)

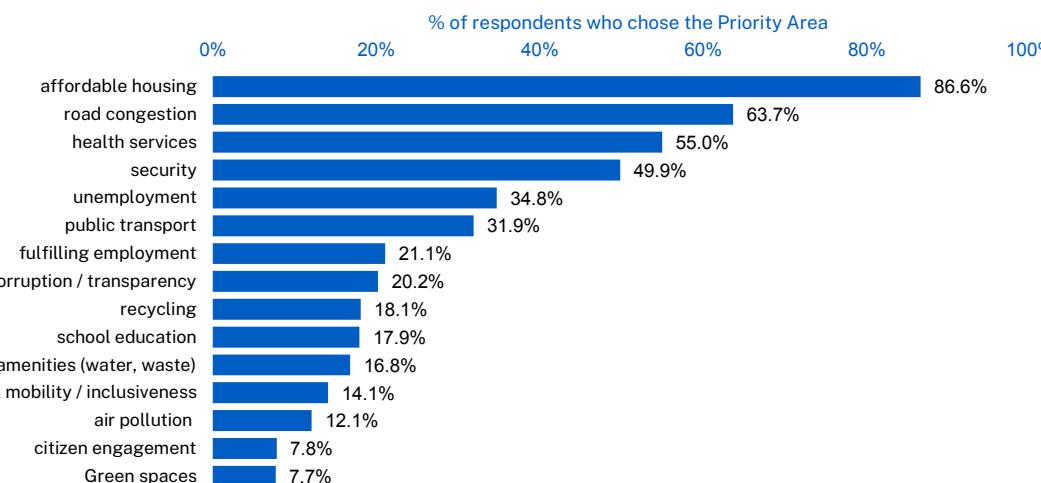
HDI 0.935  
(Global Data Lab)



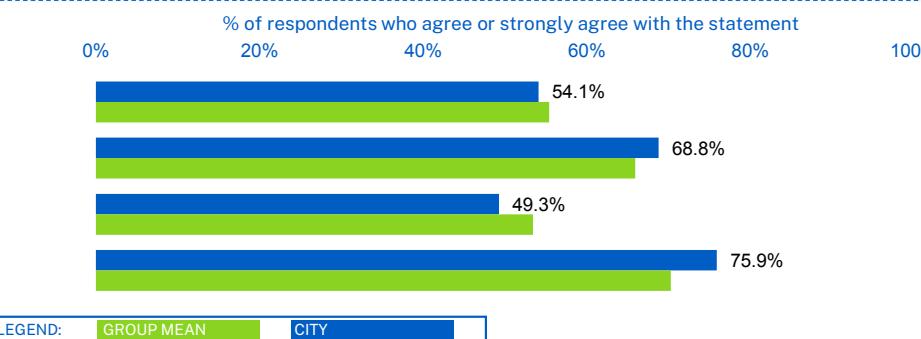
### Country

| Australia                   | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.933  | 0.936  | 0.937  | 0.941  | +0.004      |
| Life expectancy at birth    | 83.1   | 84.3   | 84.5   | 83.6   | -0.9        |
| Expected years of schooling | 21.4   | 20.9   | 21.1   | 21.1   | +0.0        |
| Mean years of schooling     | 12.7   | 12.7   | 12.7   | 12.7   | +0.0        |
| GNI per capita (PPP \$)     | 47,054 | 48,075 | 48,076 | 49,257 | +1,181      |

## PRIORITY AREAS



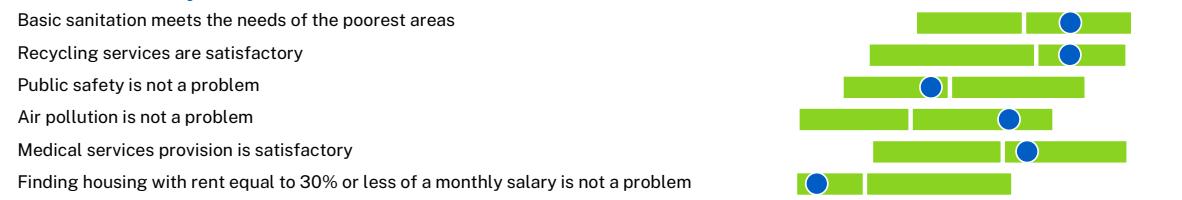
## ATTITUDES



## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



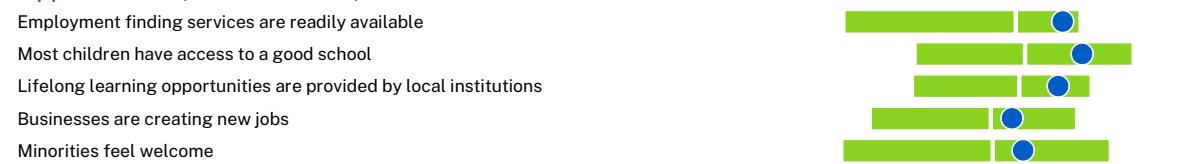
### Mobility



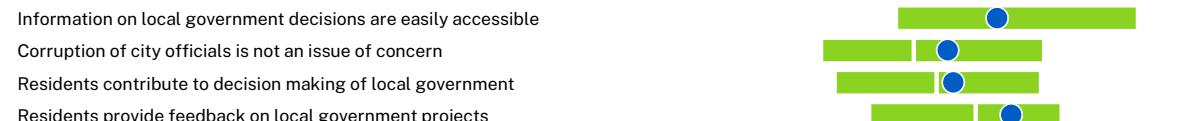
### Activities



### Opportunities (Work & School)

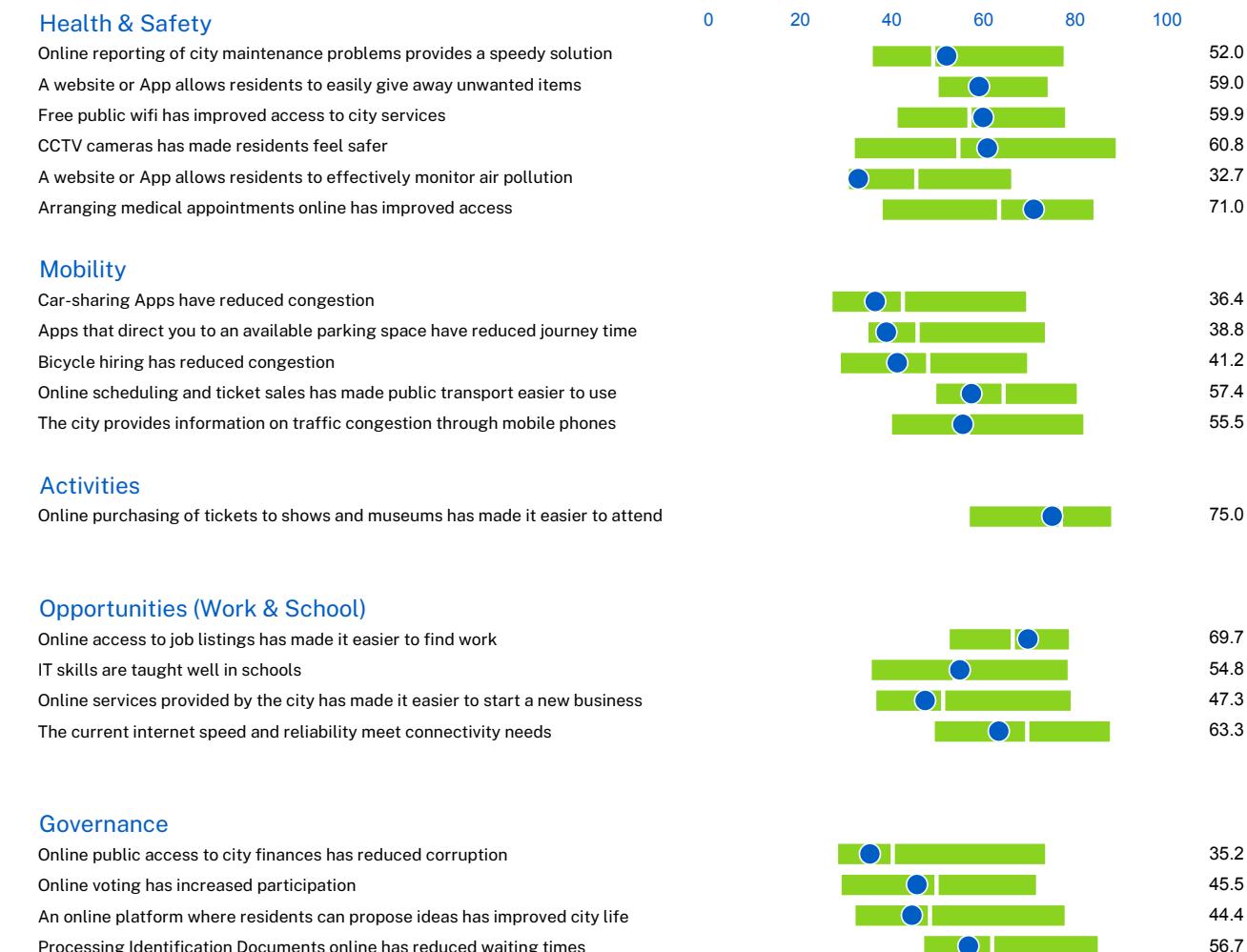


### Governance



## TECHNOLOGIES

Score



# Brussels

SMART  
CITY  
RANKING

**48**

Out of 146



40 in 2024  
Out of 142

SMART  
CITY RATING

**BB**

BBB in 2024

FACTOR  
RATINGS

**BBB**

STRUCTURES

**A**

TECHNOLOGIES

**1**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 2,130,000  
(UN World Urbanization Prospects)

HDI 0.960  
(Global Data Lab)



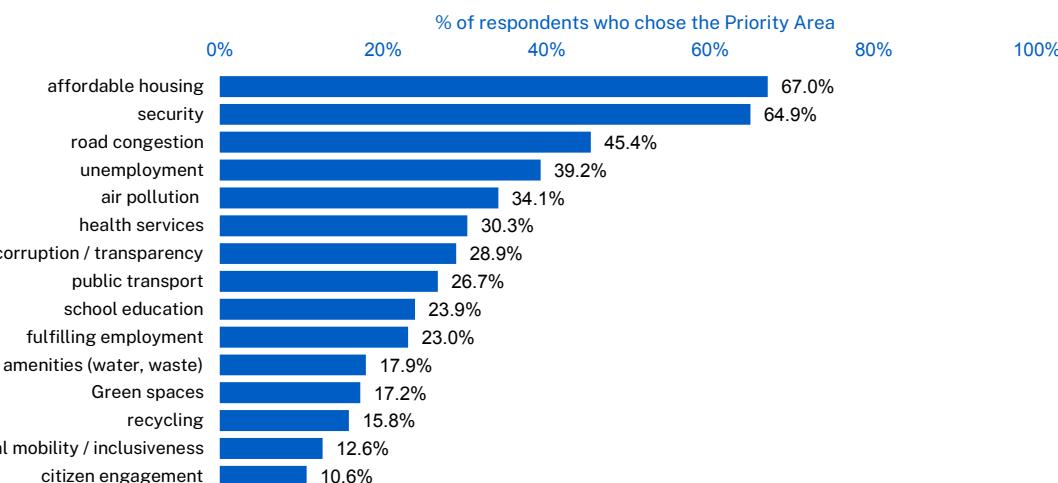
40 in 2024

Out of 142

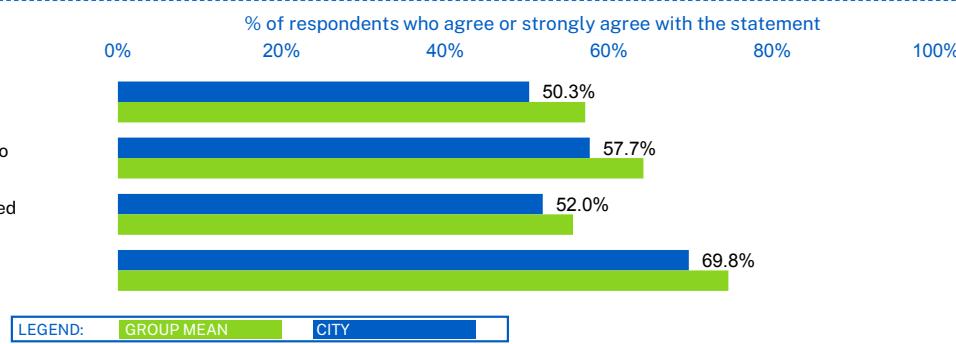
### Country

| Belgium                     | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.924  | 0.927  | 0.931  | 0.933  | +0.002      |
| Life expectancy at birth    | 81.8   | 80.8   | 81.9   | 82.3   | +0.4        |
| Expected years of schooling | 19.6   | 19.3   | 18.9   | 18.9   | +0.0        |
| Mean years of schooling     | 12.4   | 12.5   | 12.5   | 12.5   | +0.0        |
| GNI per capita (PPP \$)     | 52,490 | 49,491 | 52,299 | 53,644 | +1,345      |

## PRIORITY AREAS



## ATTITUDES



LEGEND: GROUP MEAN CITY

STRUCTURES

### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem

### STRUCTURES

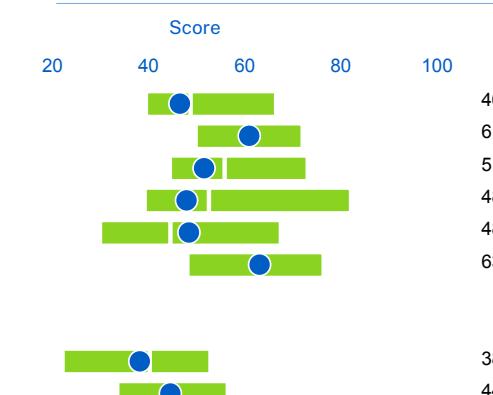


LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access

### TECHNOLOGIES



### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory

### STRUCTURES



### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones



### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory

### STRUCTURES



### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend



### Opportunities (Work & School)

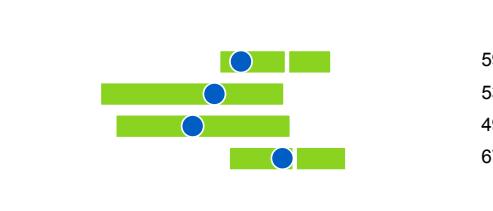
- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome

### STRUCTURES



### Opportunities (Work & School)

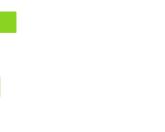
- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs



### Governance

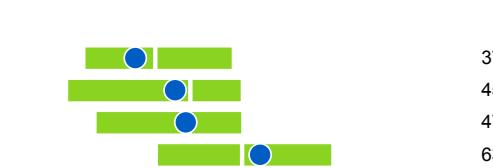
- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects

### STRUCTURES



### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times



# Bucharest

SMART  
CITY  
RANKING

**78**

Out of 146



100 in 2024  
Out of 142

SMART  
CITY RATING

**CCC**

B in 2024

FACTOR  
RATINGS

**BB**

STRUCTURES

**BBB**

TECHNOLOGIES

**2**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 1,770,000  
(UN World Urbanization Prospects)

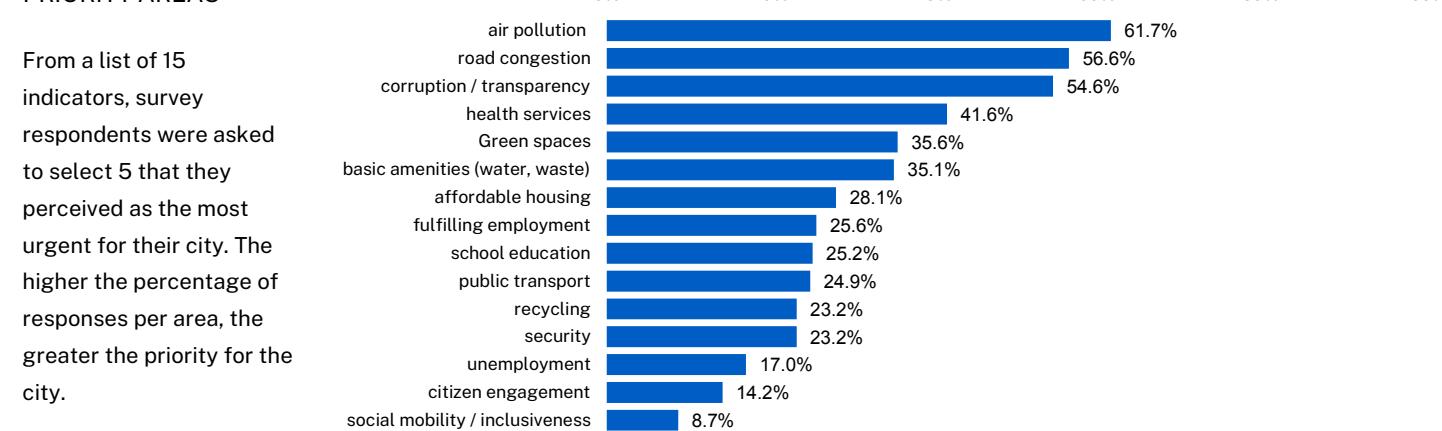
HDI 0.926  
(Global Data Lab)



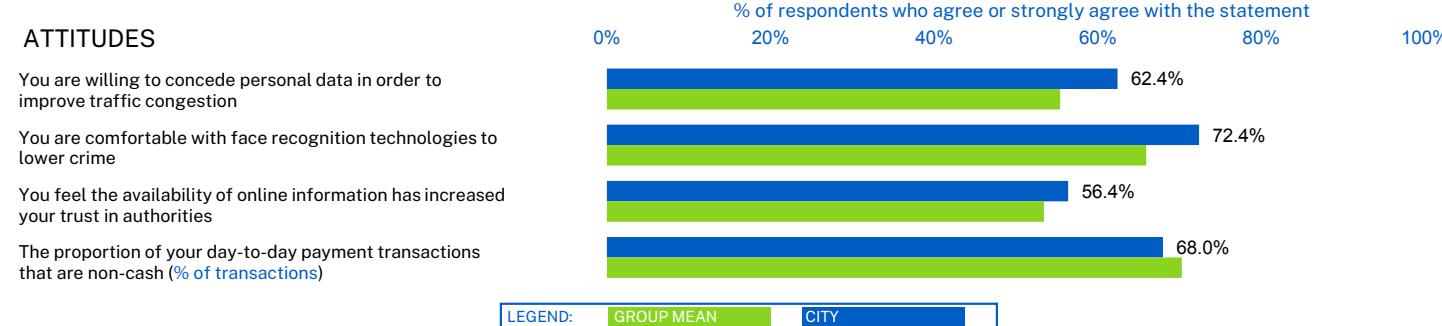
### Country

| Romania                     | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.813  | 0.815  | 0.823  | 0.829  | +0.006      |
| Life expectancy at birth    | 76.5   | 75.3   | 74.2   | 74.1   | -0.1        |
| Expected years of schooling | 14.4   | 14.5   | 14.5   | 14.5   | +0.0        |
| Mean years of schooling     | 11.3   | 11.4   | 11.4   | 11.4   | +0.0        |
| GNI per capita (PPP \$)     | 29,569 | 28,603 | 30,312 | 31,641 | +1,329      |

## PRIORITY AREAS



## ATTITUDES



LEGEND: GROUP MEAN CITY

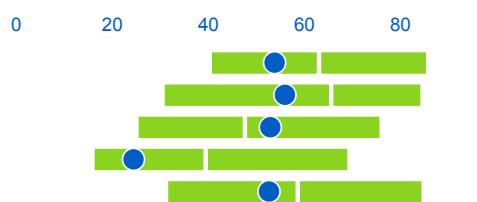
LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem

Score



### Mobility

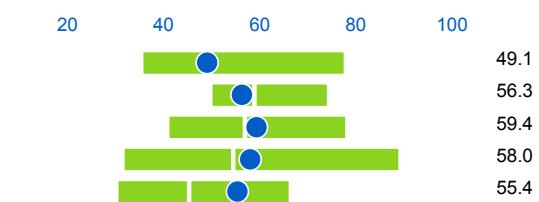
- Traffic congestion is not a problem
- Public transport is satisfactory

## TECHNOLOGIES

### Health & Safety

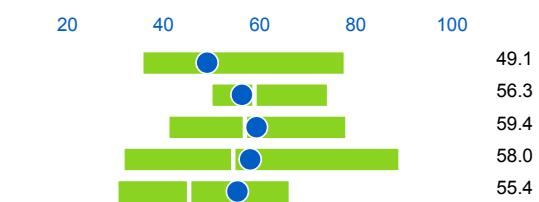
- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access

Score



### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones



### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory

### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend

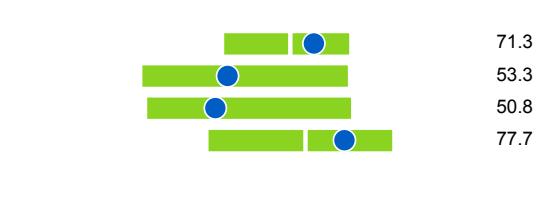


### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome

### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs



### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects

### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times





# Buenos Aires

SMART  
CITY  
RANKING  
**131**

Out of 146



123 in 2024  
Out of 142

SMART  
CITY RATING



C in 2024

FACTOR  
RATINGS



STRUCTURES



TECHNOLOGIES



All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 15,620,000  
(UN World Urbanization Prospects)

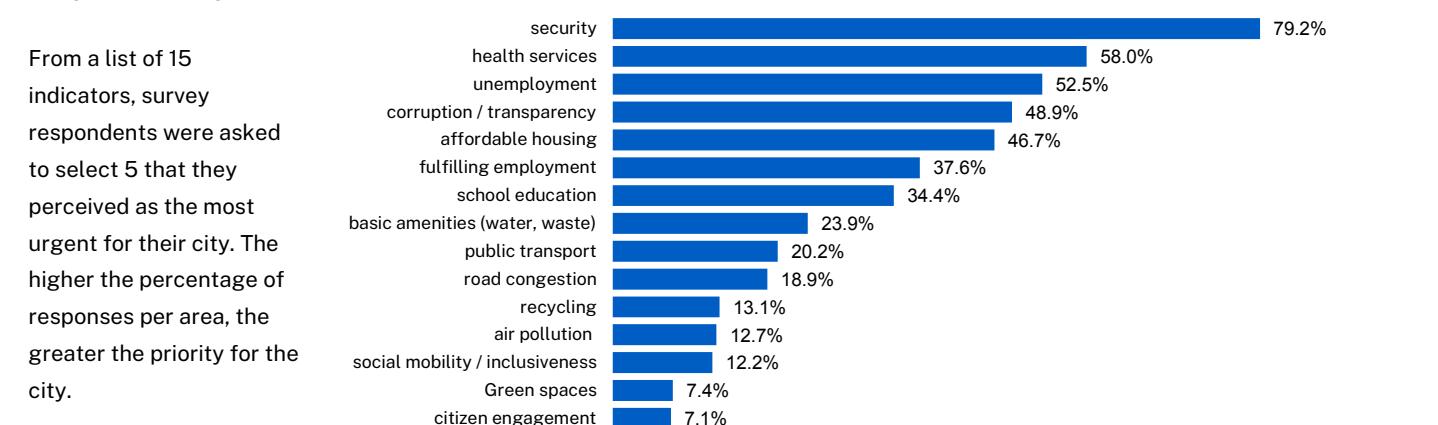
HDI 0.851  
(Global Data Lab)



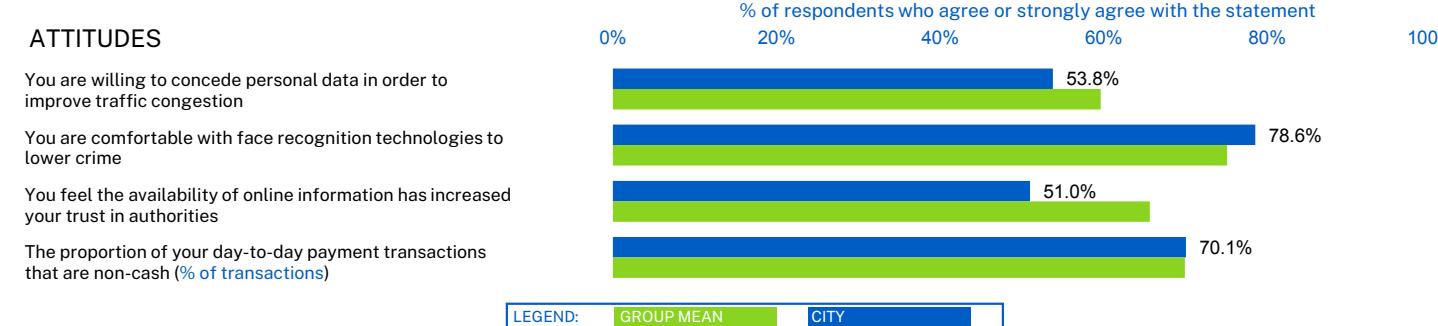
### Country

| Argentina                   | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.850  | 0.848  | 0.853  | 0.852  | -0.001      |
| Life expectancy at birth    | 77.3   | 75.9   | 75.4   | 76.1   | +0.7        |
| Expected years of schooling | 18.1   | 18.4   | 19.0   | 19.0   | +0.0        |
| Mean years of schooling     | 11.1   | 11.1   | 11.1   | 11.1   | +0.0        |
| GNI per capita (PPP \$)     | 21,205 | 19,183 | 21,093 | 22,048 | +954        |

## PRIORITY AREAS



## ATTITUDES



LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES



Score

## TECHNOLOGIES



Score

### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem

### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory

### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory

### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome

### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects

### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access

### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones

### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend

### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs

### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times

# Busan

SMART  
CITY  
RANKING  
**60**

Out of 146



45 in 2024  
Out of 142

SMART  
CITY RATING

**B**

BB in 2024

FACTOR  
RATINGS

**BB**

STRUCTURES

**A**

TECHNOLOGIES

GROUP

**2**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 3,480,000  
(UN World Urbanization Prospects)

HDI 0.926  
(Global Data Lab)

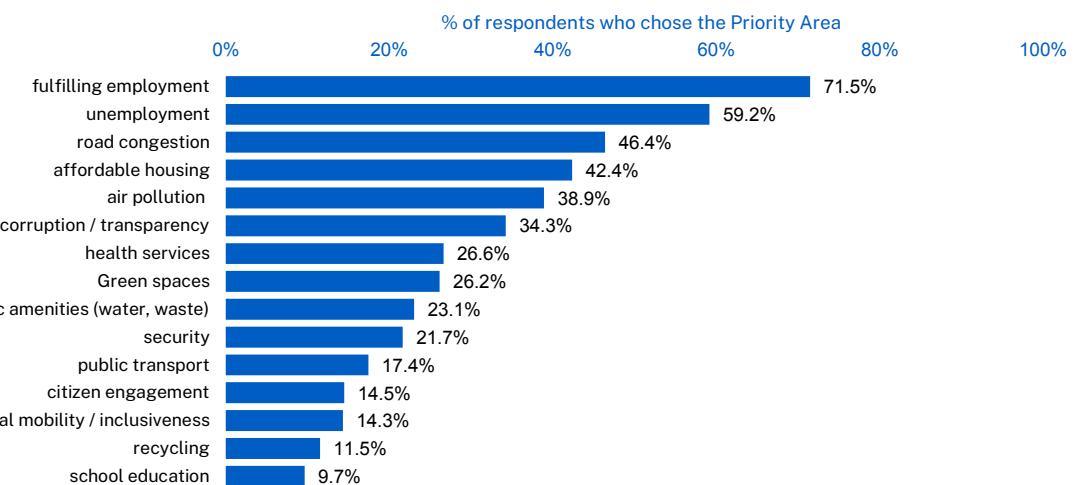


### Country

| Korea (Republic of)         | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.908  | 0.912  | 0.915  | 0.918  | +0.003      |
| Life expectancy at birth    | 83.7   | 83.6   | 83.7   | 84.0   | +0.3        |
| Expected years of schooling | 16.4   | 16.4   | 16.5   | 16.5   | +0.0        |
| Mean years of schooling     | 12.5   | 12.6   | 12.6   | 12.6   | +0.0        |
| GNI per capita (PPP \$)     | 43,117 | 42,757 | 44,710 | 46,026 | +1,317      |

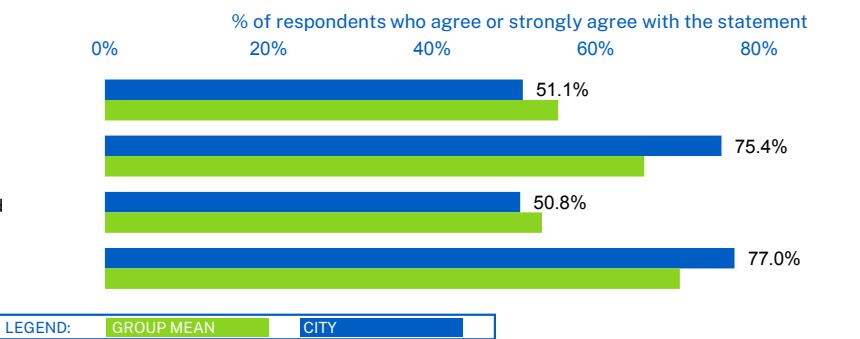
## PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. The higher the percentage of responses per area, the greater the priority for the city.



## ATTITUDES

- You are willing to concede personal data in order to improve traffic congestion
- You are comfortable with face recognition technologies to lower crime
- You feel the availability of online information has increased your trust in authorities
- The proportion of your day-to-day payment transactions that are non-cash (% of transactions)



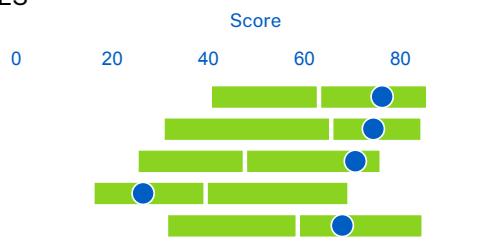
LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety

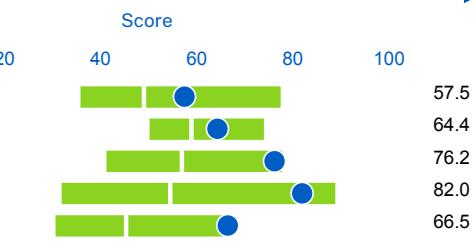
- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem



### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access

## TECHNOLOGIES



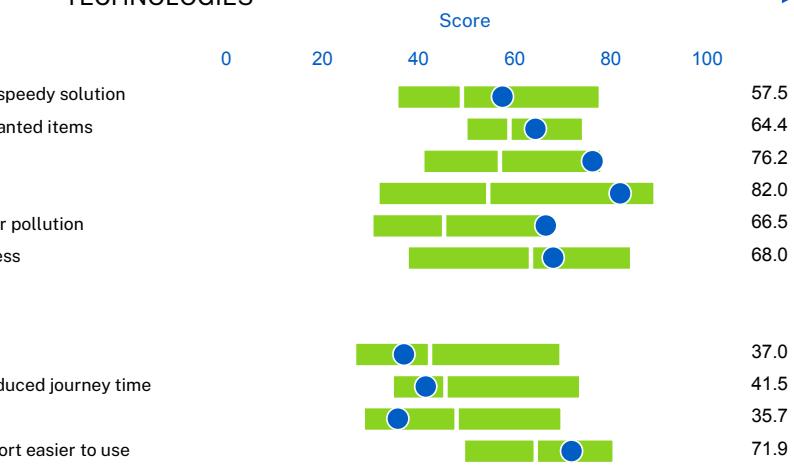
### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory



### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones



### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory



### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend



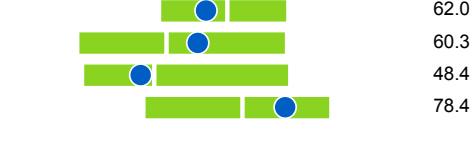
### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome



### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs



### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects



### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times



# Cairo

SMART  
CITY  
RANKING  
**117**

Out of 146

114 in 2024  
Out of 142

SMART  
CITY RATING

**C**

C in 2024

FACTOR  
RATINGS

**CC**

STRUCTURES

**CC**

TECHNOLOGIES

GROUP

**4**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 22,620,000  
(UN World Urbanization Prospects)

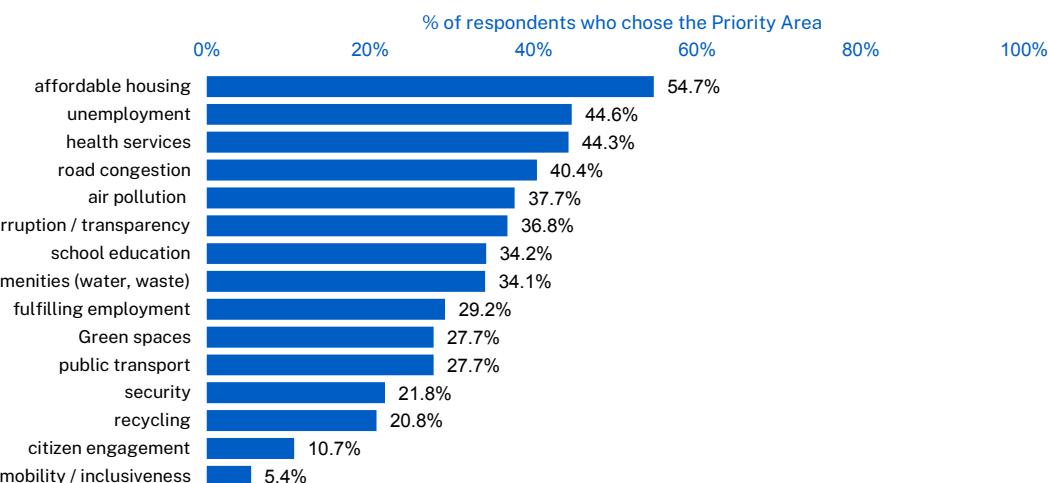
HDI 0.777  
(Global Data Lab)



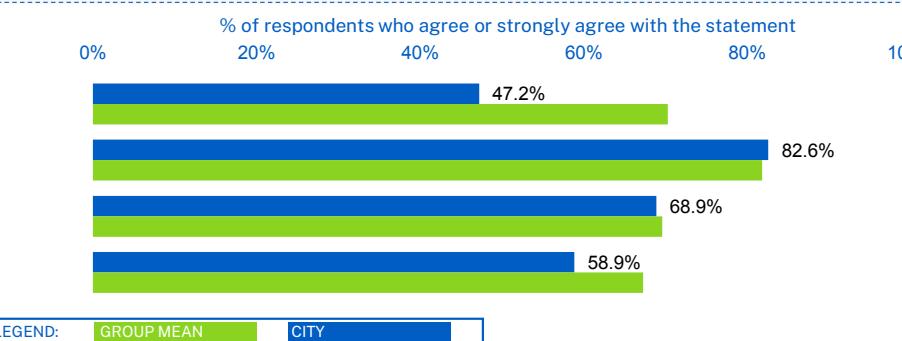
### Country

| Egypt                       | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.695  | 0.702  | 0.709  | 0.717  | +0.008      |
| Life expectancy at birth    | 71.4   | 71.0   | 70.2   | 70.2   | -0.1        |
| Expected years of schooling | 12.7   | 12.9   | 12.9   | 12.9   | +0.0        |
| Mean years of schooling     | 9.6    | 9.8    | 9.8    | 9.8    | +0.0        |
| GNI per capita (PPP \$)     | 11,376 | 11,637 | 11,827 | 12,361 | +534        |

## PRIORITY AREAS



## ATTITUDES

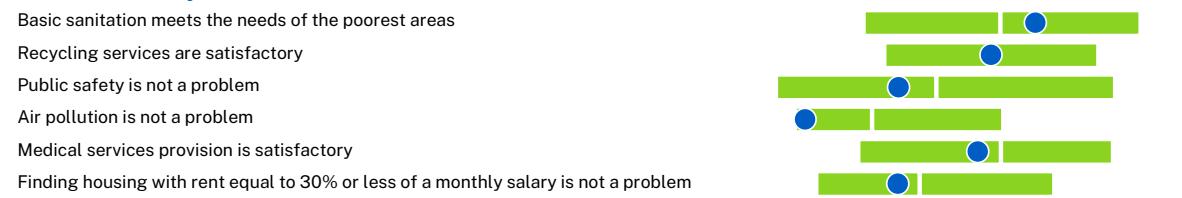


LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



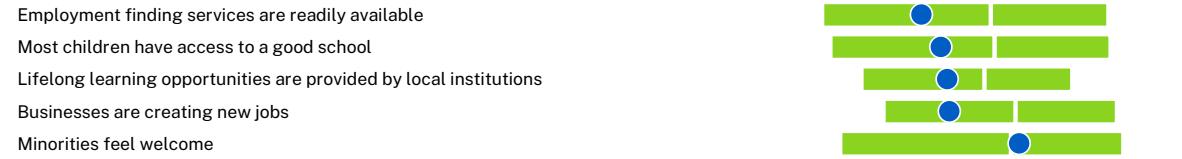
### Mobility



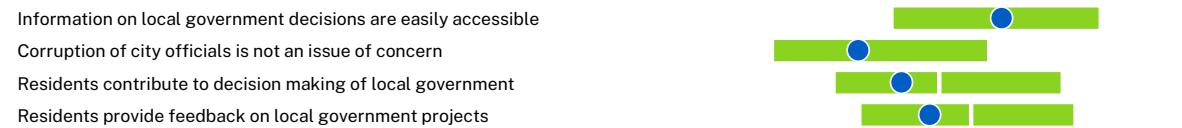
### Activities



### Opportunities (Work & School)



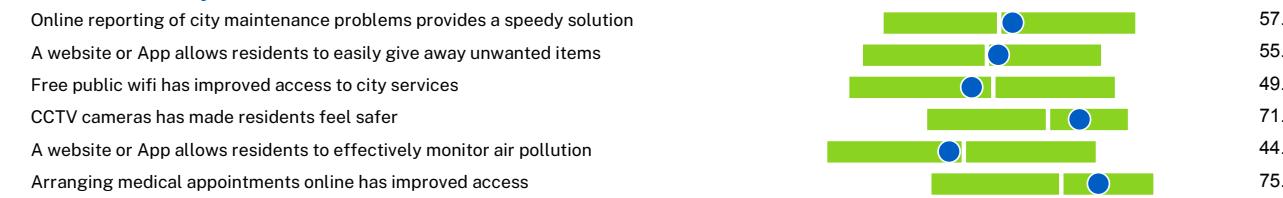
### Governance



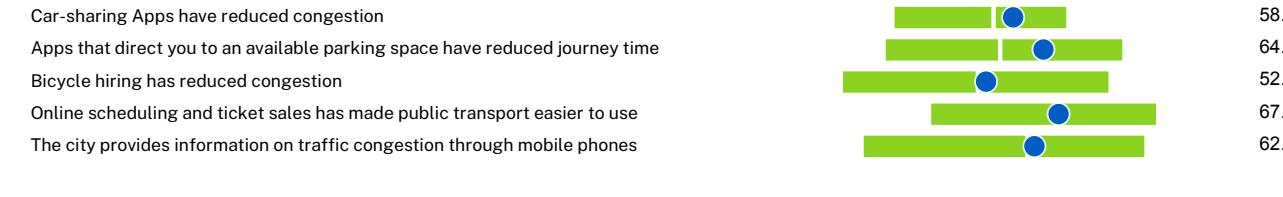
## TECHNOLOGIES

Score

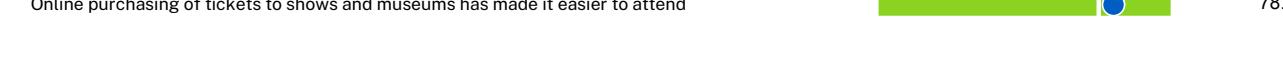
### Health & Safety



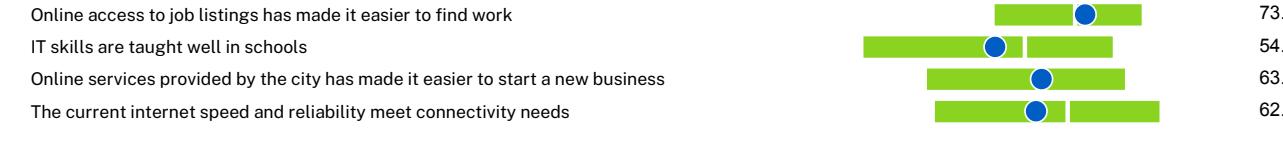
### Mobility



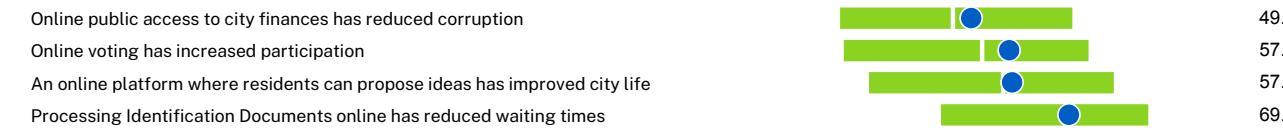
### Activities



### Opportunities (Work & School)



### Governance



# Canberra

SMART  
CITY  
RANKING

**8**

Out of 146



3 in 2024  
Out of 142

SMART  
CITY RATING

**AAA**

AA in 2024

FACTOR  
RATINGS

**AAA**

STRUCTURES

**A**

TECHNOLOGIES

**1**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 370,000  
(UN World Urbanization Prospects)

HDI 0.976  
(Global Data Lab)



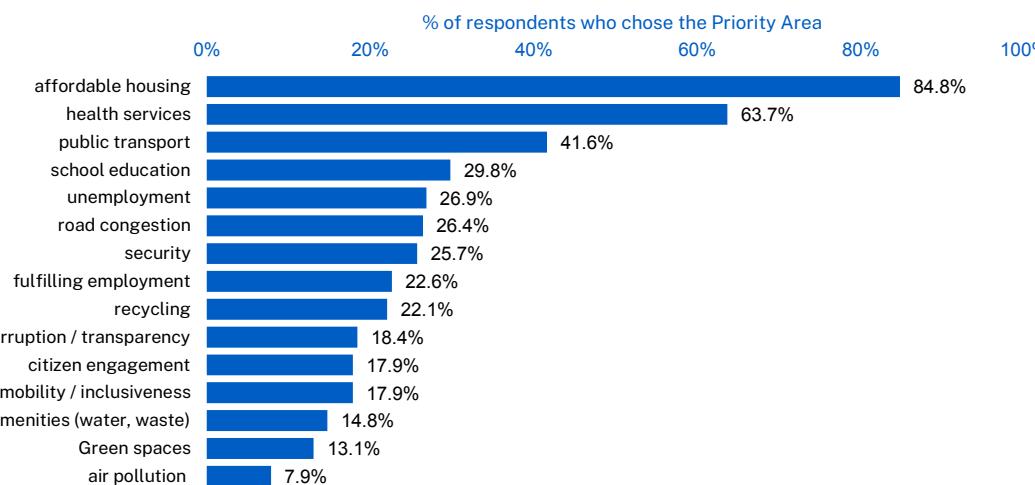
3 in 2024

Out of 142

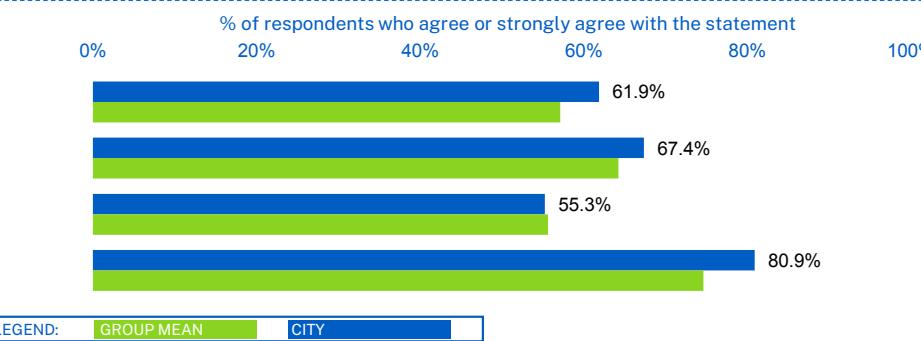
### Country

| Australia                   | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.933  | 0.936  | 0.937  | 0.941  | +0.004      |
| Life expectancy at birth    | 83.1   | 84.3   | 84.5   | 83.6   | -0.9        |
| Expected years of schooling | 21.4   | 20.9   | 21.1   | 21.1   | +0.0        |
| Mean years of schooling     | 12.7   | 12.7   | 12.7   | 12.7   | +0.0        |
| GNI per capita (PPP \$)     | 47,054 | 48,075 | 48,076 | 49,257 | +1,181      |

## PRIORITY AREAS



## ATTITUDES

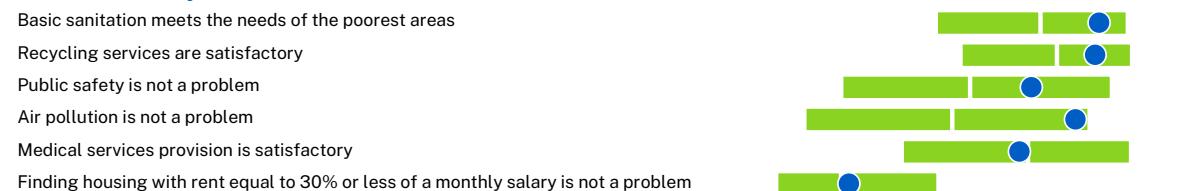


LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



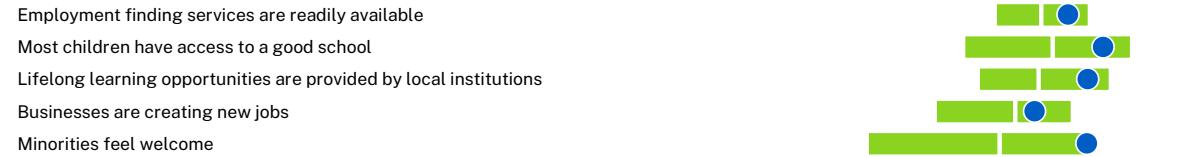
### Mobility



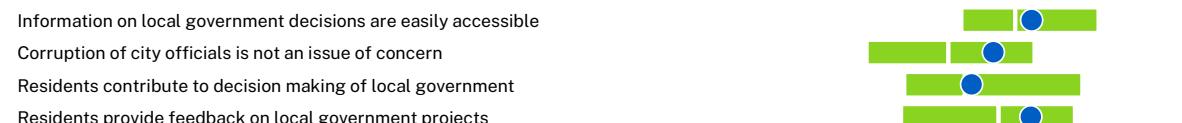
### Activities



### Opportunities (Work & School)



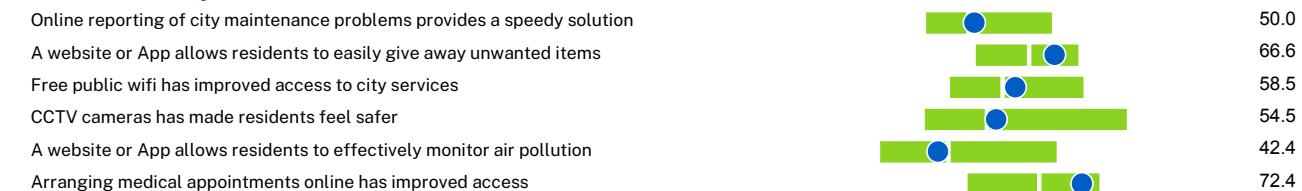
### Governance



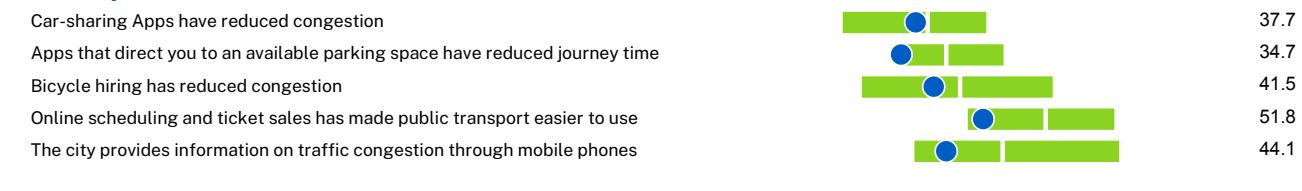
## TECHNOLOGIES

Score

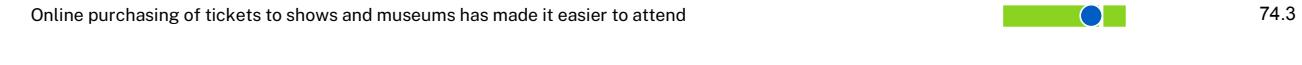
### Health & Safety



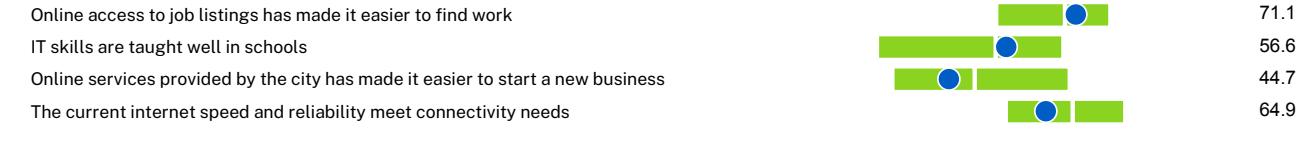
### Mobility



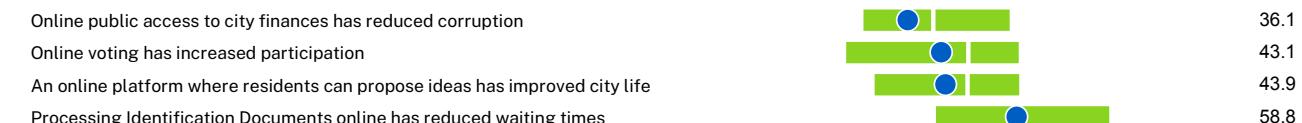
### Activities



### Opportunities (Work & School)



### Governance



# Cape Town

SMART  
CITY  
RANKING

**124**

Out of 146



129 in 2024  
Out of 142

SMART  
CITY RATING

**C**

D in 2024

FACTOR  
RATINGS

**C**

STRUCTURES

**C**

TECHNOLOGIES

**4**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 4,980,000  
(UN World Urbanization Prospects)

HDI 0.755  
(Global Data Lab)



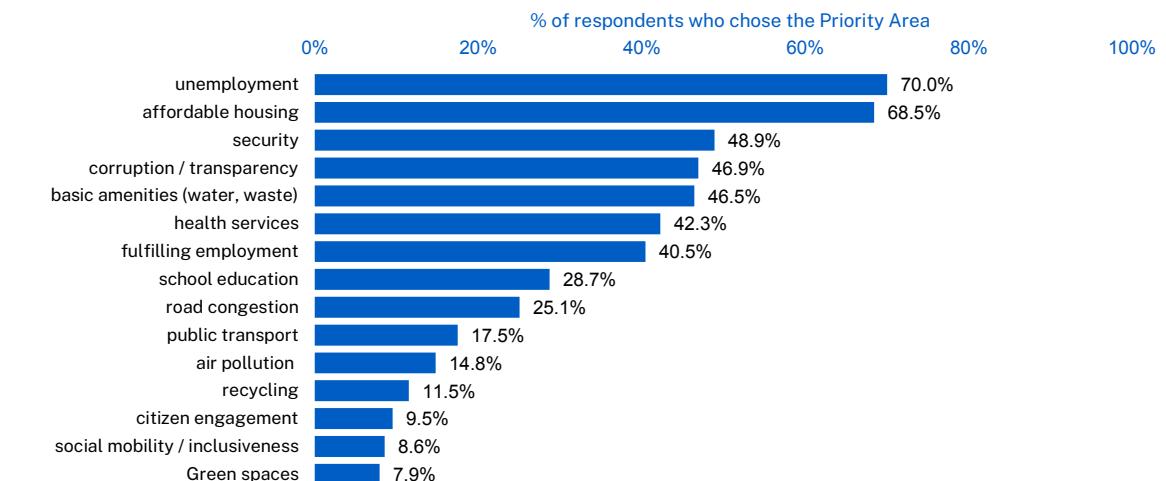
Map tiles by Stamen Design CC BY 3.0 Map Data © OpenStreetMap

### Country

| South Africa                | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.721  | 0.711  | 0.725  | 0.731  | +0.006      |
| Life expectancy at birth    | 66.2   | 65.3   | 62.3   | 61.5   | -0.9        |
| Expected years of schooling | 14.2   | 14.0   | 14.3   | 14.3   | +0.0        |
| Mean years of schooling     | 11.4   | 10.6   | 11.6   | 11.6   | +0.0        |
| GNI per capita (PPP \$)     | 13,506 | 12,598 | 13,048 | 13,186 | +138        |

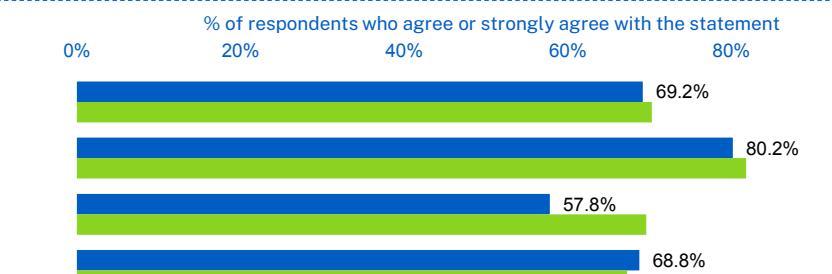
## PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. The higher the percentage of responses per area, the greater the priority for the city.



## ATTITUDES

You are willing to concede personal data in order to improve traffic congestion

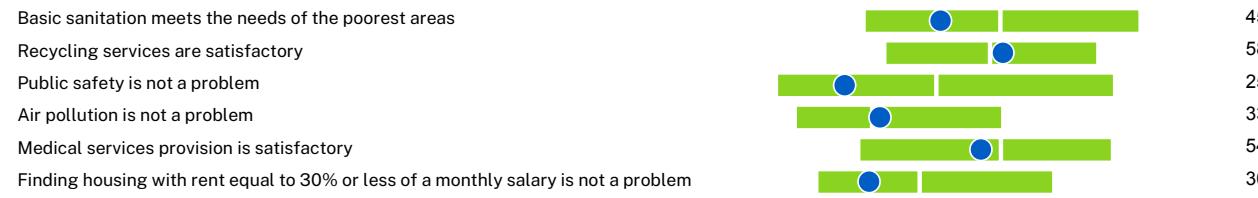


LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



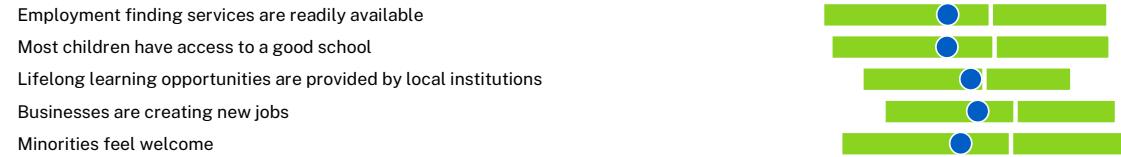
### Mobility



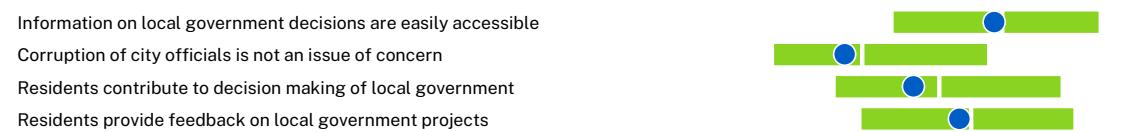
### Activities



### Opportunities (Work & School)



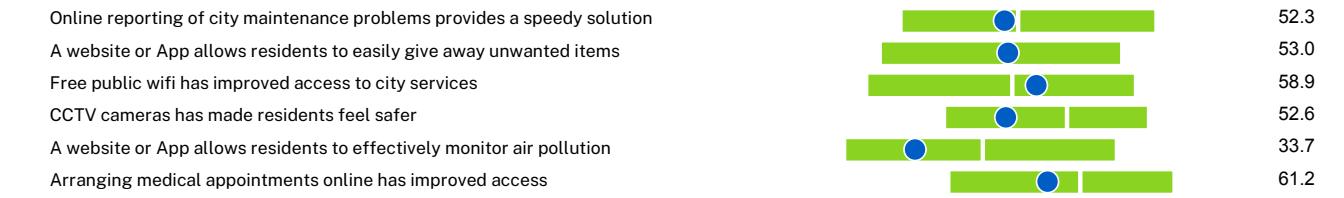
### Governance



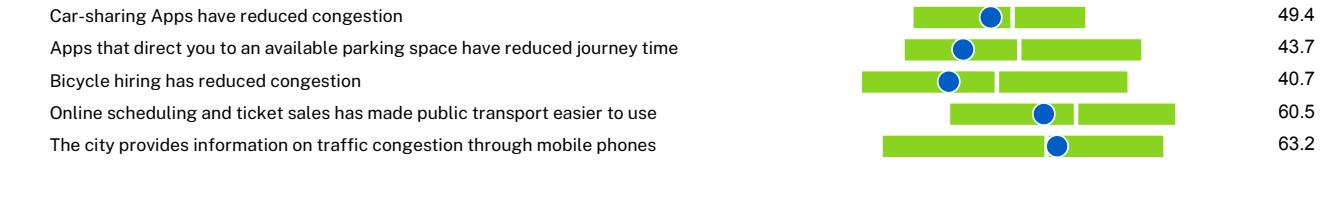
## TECHNOLOGIES

Score

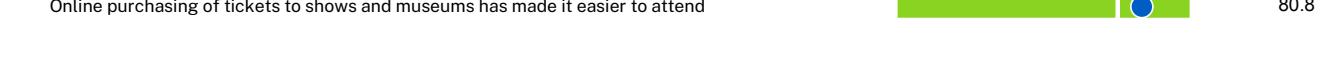
### Health & Safety



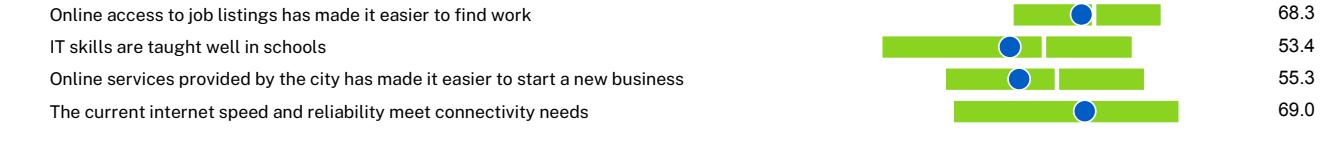
### Mobility



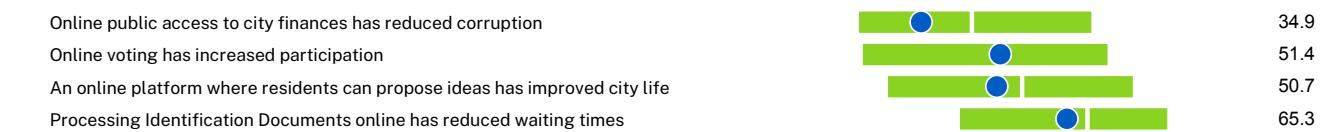
### Activities



### Opportunities (Work & School)



### Governance



# Caracas

SMART  
CITY  
RANKING  
**140**  
Out of 146

not in 2024

SMART  
CITY RATING

**D**

not in 2024

FACTOR  
RATINGS

**D**

STRUCTURES

**D**

TECHNOLOGIES

**4**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 2,990,000  
(UN World Urbanization Prospects)

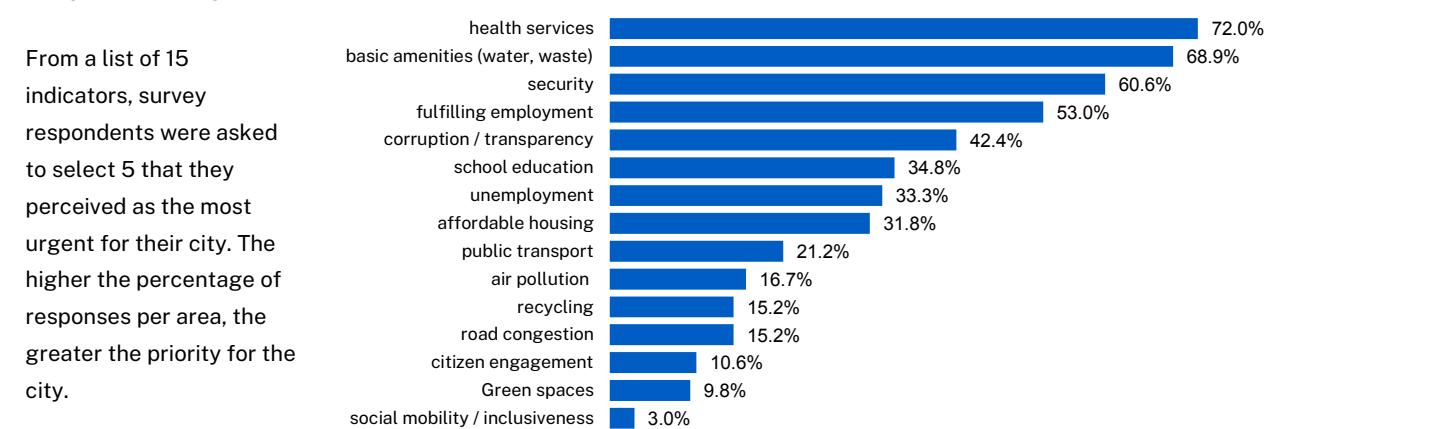
HDI 0.743  
(Global Data Lab)



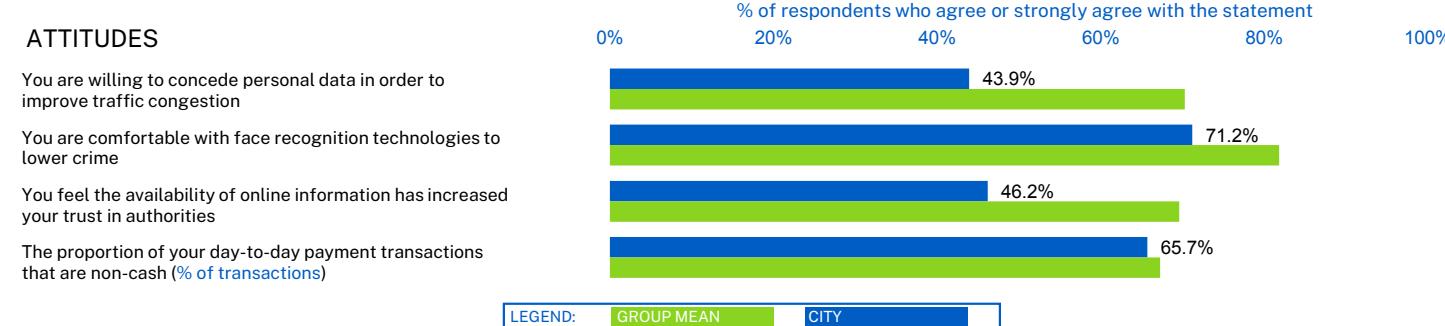
### Country

| Venezuela (Bolivarian Republic of) | 2019  | 2020  | 2021  | 2022  | 1 yr change |
|------------------------------------|-------|-------|-------|-------|-------------|
| HDI                                | 0.766 | 0.759 | 0.750 | 0.738 | -0.012      |
| Life expectancy at birth           | 72.2  | 71.1  | 70.6  | 71.1  | +0.6        |
| Expected years of schooling        | 13.6  | 13.5  | 13.5  | 13.5  | +0.0        |
| Mean years of schooling            | 9.9   | 9.6   | 9.6   | 9.6   | +0.0        |
| GNI per capita (PPP \$)            | 7,837 | 5,460 | 5,587 | 6,184 | +597        |

## PRIORITY AREAS



## ATTITUDES



LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

Score

0 20 40 60 80 100

### Health & Safety

|   |      |
|---|------|
| Basic sanitation meets the needs of the poorest areas                               | 29.9 |
| Recycling services are satisfactory   | 34.2 |
| Public safety is not a problem  | 35.0 |
| Air pollution is not a problem  | 38.9 |
| Medical services provision is satisfactory  | 33.2 |
| Finding housing with rent equal to 30% or less of a monthly salary is not a problem | 20.1 |

### Mobility

|                                     |      |
|-------------------------------------|------|
| Traffic congestion is not a problem | 36.6 |
| Public transport is satisfactory    | 41.5 |

### Activities

|   |      |
|---|------|
| Green spaces are satisfactory                                   | 73.9 |
| Cultural activities (shows, bars, and museums) are satisfactory | 74.6 |

### Opportunities (Work & School)

|  |      |
|--|------|
| Employment finding services are readily available                  | 49.7 |
| Most children have access to a good school                         | 35.0 |
| Lifelong learning opportunities are provided by local institutions | 49.4 |
| Businesses are creating new jobs                                   | 40.9 |
| Minorities feel welcome  | 39.5 |

### Governance

|   |      |
|---|------|
| Information on local government decisions are easily accessible | 35.7 |
| Corruption of city officials is not an issue of concern         | 26.9 |
| Residents contribute to decision making of local government     | 26.4 |
| Residents provide feedback on local government projects         | 36.4 |

## TECHNOLOGIES

Score

0 20 40 60 80 100

### Health & Safety

|  |      |
|--|------|
| Online reporting of city maintenance problems provides a speedy solution | 37.1 |
| A website or App allows residents to easily give away unwanted items     | 34.3 |
| Free public wifi has improved access to city services                    | 41.9 |
| CCTV cameras has made residents feel safer                               | 40.2 |
| A website or App allows residents to effectively monitor air pollution   | 23.2 |
| Arranging medical appointments online has improved access                | 49.5 |

### Mobility

|  |      |
|--|------|
| Car-sharing Apps have reduced congestion                                     | 35.6 |
| Apps that direct you to an available parking space have reduced journey time | 40.2 |
| Bicycle hiring has reduced congestion  | 22.5 |
| Online scheduling and ticket sales has made public transport easier to use   | 40.8 |
| The city provides information on traffic congestion through mobile phones    | 49.0 |

### Activities

|  |      |
|--|------|
| Online purchasing of tickets to shows and museums has made it easier to attend | 71.5 |
|--|------|

### Opportunities (Work & School)

|   |      |
|---|------|
| Online access to job listings has made it easier to find work                   | 58.6 |
| IT skills are taught well in schools  | 37.8 |
| Online services provided by the city has made it easier to start a new business | 51.0 |
| The current internet speed and reliability meet connectivity needs              | 56.9 |

### Governance

|   |      |
|---|------|
| Online public access to city finances has reduced corruption                | 21.8 |
| Online voting has increased participation                                   | 25.4 |
| An online platform where residents can propose ideas has improved city life | 39.5 |
| Processing Identification Documents online has reduced waiting times        | 56.7 |

All ratings range from AAA to D

SMART  
CITY  
RANKING  
**89**

Out of 146



92 in 2024  
Out of 142

SMART  
CITY RATING



CC in 2024

FACTOR  
RATINGS  
**CCC**

STRUCTURES

**CC**

TECHNOLOGIES

**3**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 450,000  
(UN World Urbanization Prospects)

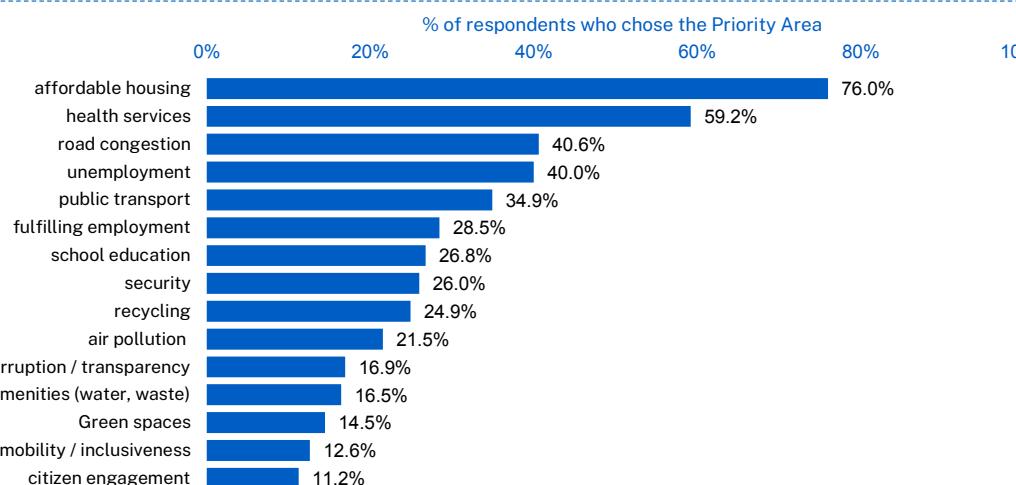
HDI 0.910  
(Global Data Lab)



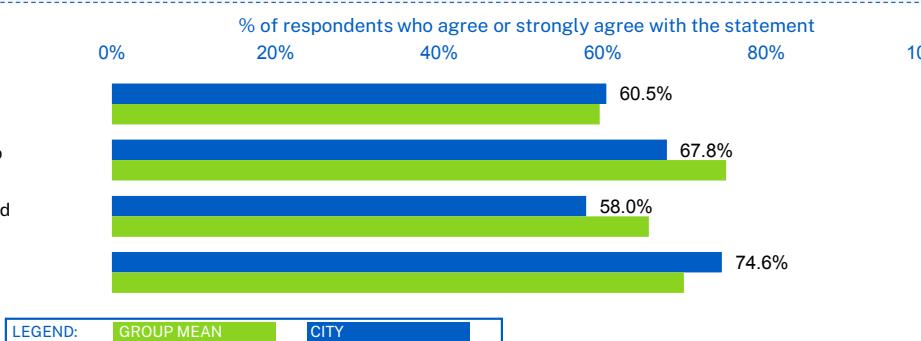
### Country

| United Kingdom              | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.923  | 0.926  | 0.929  | 0.928  | -0.001      |
| Life expectancy at birth    | 81.7   | 80.4   | 80.7   | 82.2   | +1.4        |
| Expected years of schooling | 17.2   | 17.2   | 17.6   | 17.6   | +0.0        |
| Mean years of schooling     | 13.3   | 13.4   | 13.4   | 13.4   | +0.0        |
| GNI per capita (PPP \$)     | 47,066 | 40,799 | 44,750 | 46,624 | +1,874      |

## PRIORITY AREAS



## ATTITUDES

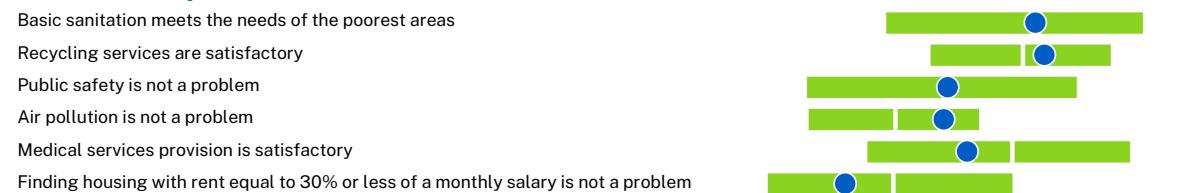


LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



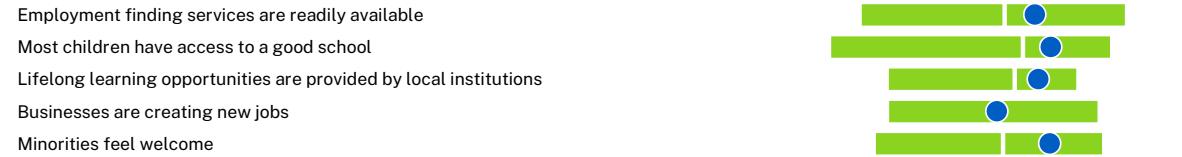
### Mobility



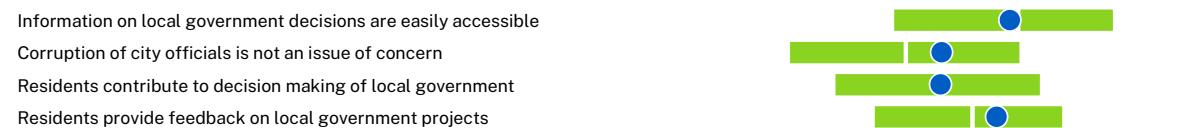
### Activities



### Opportunities (Work & School)

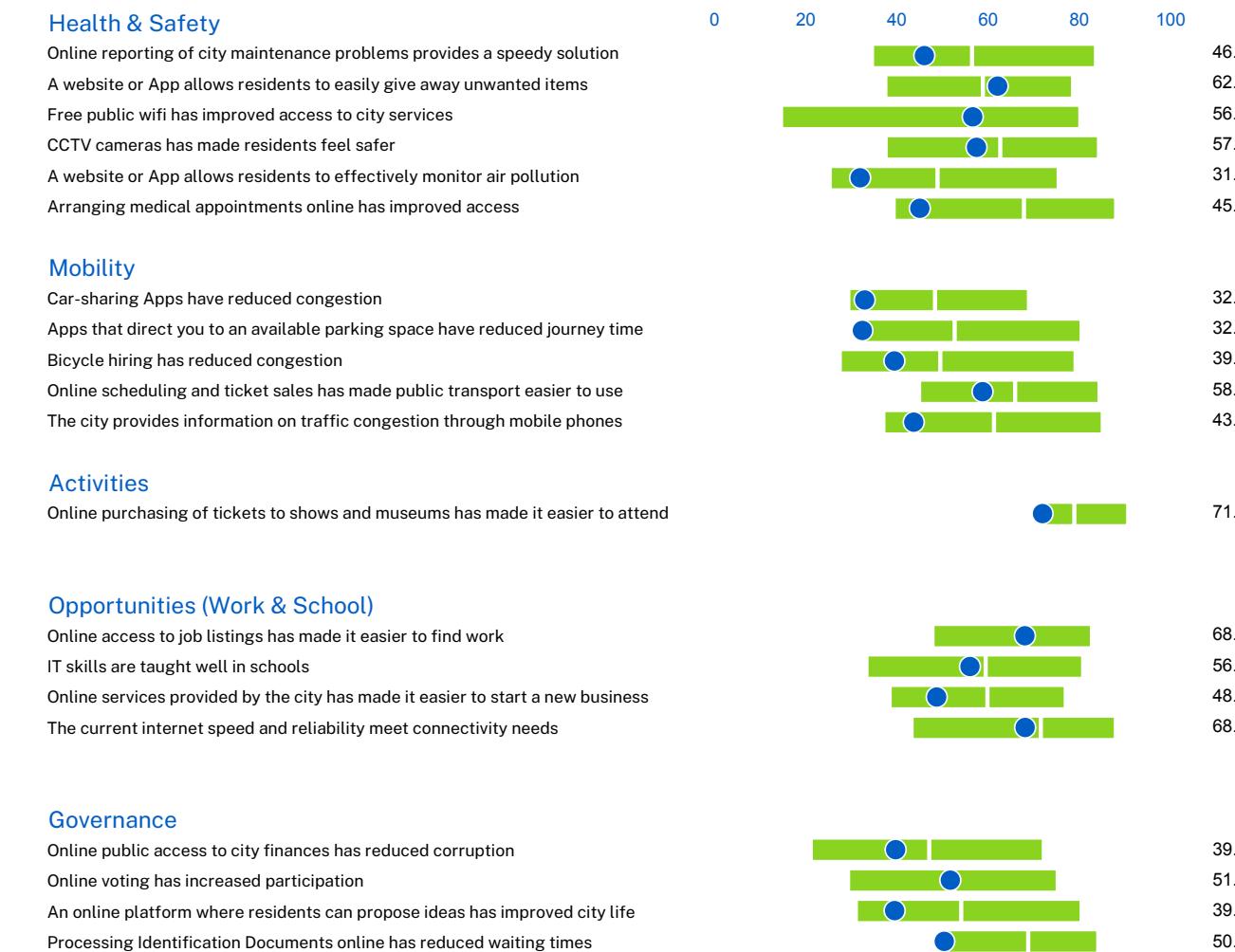


### Governance



## TECHNOLOGIES

Score



# Chengdu

SMART  
CITY  
RANKING  
**76**

Out of 146



93 in 2024  
Out of 142

SMART  
CITY RATING

**CCC**

CCC in 2024

FACTOR  
RATINGS

**CCC**

STRUCTURES

**CCC**

TECHNOLOGIES

**4**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 9,830,000  
(UN World Urbanization Prospects)

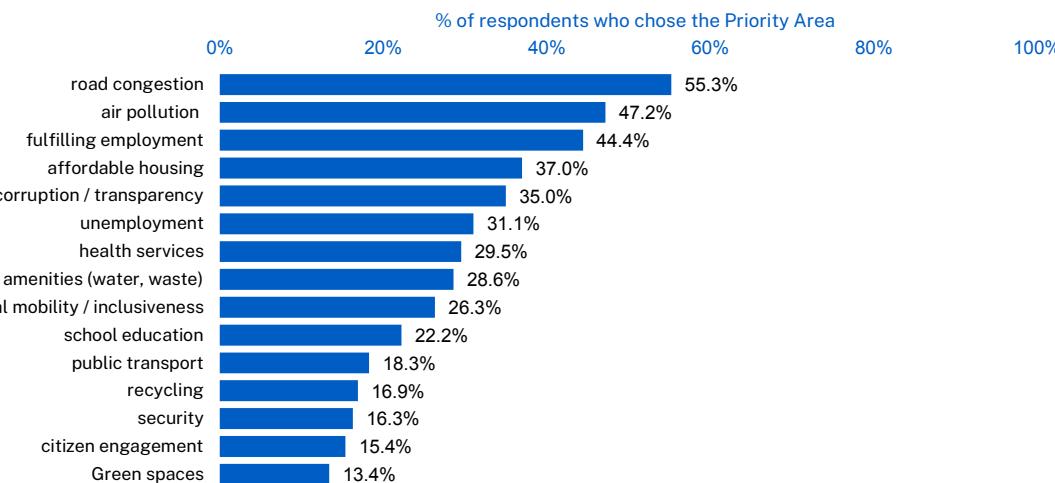
HDI 0.762  
(Global Data Lab)



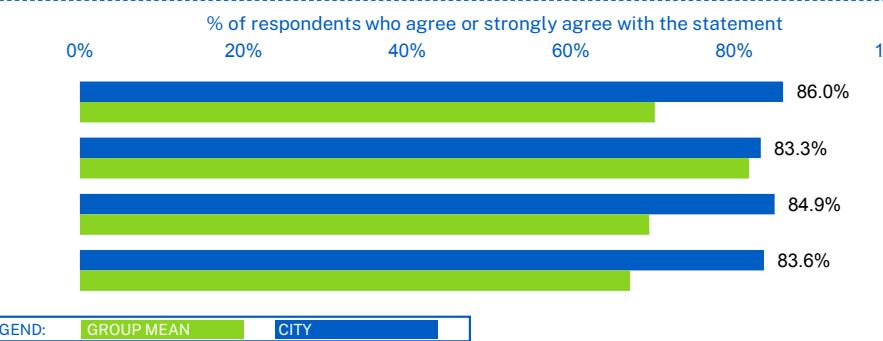
### Country

| China                       | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.741  | 0.749  | 0.757  | 0.766  | +0.009      |
| Life expectancy at birth    | 78.0   | 78.1   | 78.2   | 78.6   | +0.4        |
| Expected years of schooling | 15.0   | 15.2   | 15.2   | 15.2   | +0.0        |
| Mean years of schooling     | 8.0    | 8.1    | 8.1    | 8.1    | +0.0        |
| GNI per capita (PPP \$)     | 15,934 | 16,168 | 17,499 | 18,025 | +526        |

## PRIORITY AREAS



## ATTITUDES



## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem



### Mobility

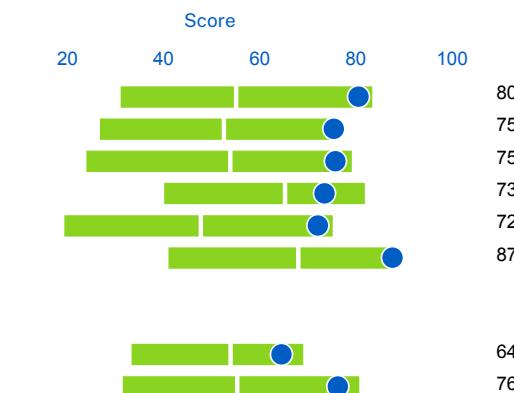
- Traffic congestion is not a problem
- Public transport is satisfactory

## TECHNOLOGIES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access



### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory

### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones

### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend

### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome

### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs

### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects

### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times



# Chongqing

SMART  
CITY  
RANKING  
**69**

Out of 146



82 in 2024  
Out of 142

SMART  
CITY RATING

**CCC**

CCC in 2024

FACTOR  
RATINGS

**CCC**

STRUCTURES

**CCC**

TECHNOLOGIES

**4**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

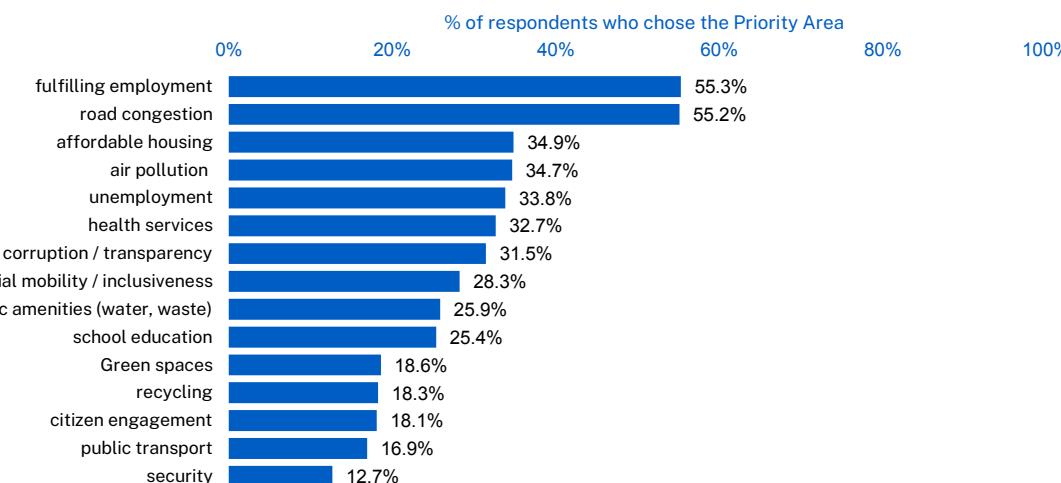
Population 17,770,000  
(UN World Urbanization Prospects)



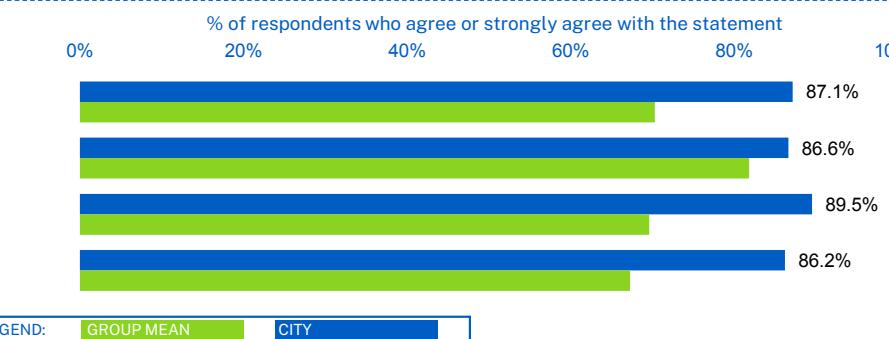
### Country

| China                       | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.741  | 0.749  | 0.757  | 0.766  | +0.009      |
| Life expectancy at birth    | 78.0   | 78.1   | 78.2   | 78.6   | +0.4        |
| Expected years of schooling | 15.0   | 15.2   | 15.2   | 15.2   | +0.0        |
| Mean years of schooling     | 8.0    | 8.1    | 8.1    | 8.1    | +0.0        |
| GNI per capita (PPP \$)     | 15,934 | 16,168 | 17,499 | 18,025 | +526        |

## PRIORITY AREAS



## ATTITUDES



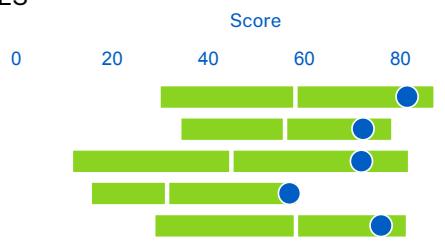
LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety

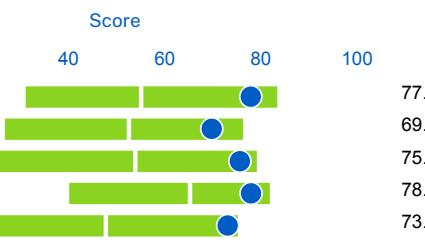
- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem



### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access

## TECHNOLOGIES



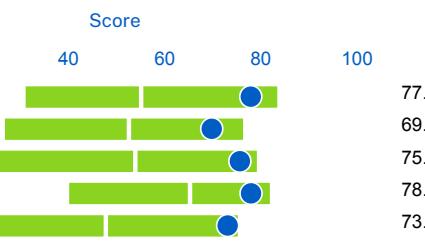
### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory



### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones



### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory



### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend



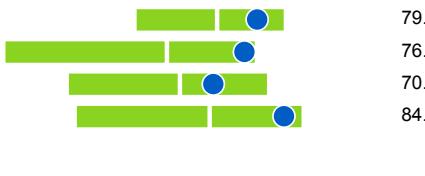
### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome



### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs



### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects



### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times



# Copenhagen

SMART  
CITY  
RANKING

**7**

Out of 146



6 in 2024  
Out of 142

SMART  
CITY RATING

**AAA**

AA in 2024

FACTOR  
RATINGS

**AAA**

STRUCTURES

**AA**

TECHNOLOGIES

**1**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 1,390,000  
(UN World Urbanization Prospects)

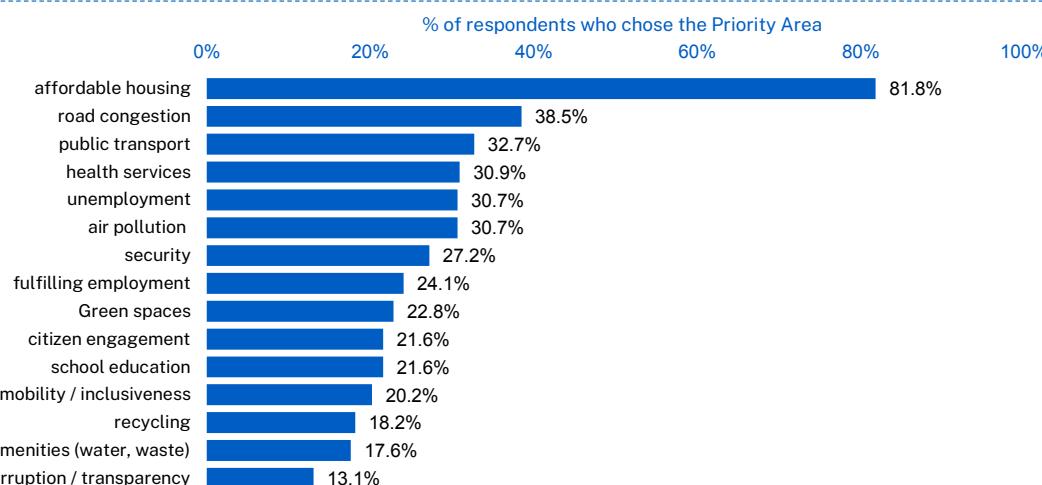
HDI 0.970  
(Global Data Lab)



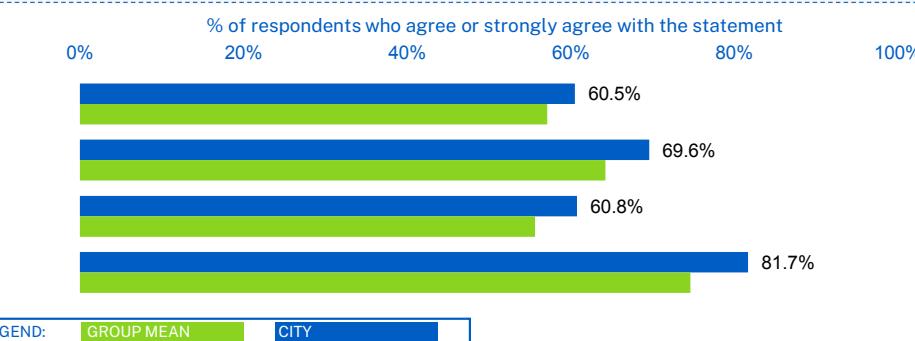
### Country

| Denmark                     | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.936  | 0.943  | 0.944  | 0.942  | -0.002      |
| Life expectancy at birth    | 81.4   | 81.5   | 81.4   | 81.9   | +0.5        |
| Expected years of schooling | 18.6   | 18.6   | 18.8   | 18.8   | +0.0        |
| Mean years of schooling     | 12.9   | 13.0   | 13.0   | 13.0   | +0.0        |
| GNI per capita (PPP \$)     | 58,454 | 57,324 | 59,993 | 62,019 | +2,026      |

## PRIORITY AREAS



## ATTITUDES



LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

Score

| Health & Safety   | Score |
|---|-------|
| Basic sanitation meets the needs of the poorest areas                               | 78.9  |
| Recycling services are satisfactory   | 82.2  |
| Public safety is not a problem  | 74.3  |
| Air pollution is not a problem  | 54.0  |
| Medical services provision is satisfactory  | 73.1  |
| Finding housing with rent equal to 30% or less of a monthly salary is not a problem | 24.0  |

## Mobility

| Mobility                            | Score |
|-------------------------------------|-------|
| Traffic congestion is not a problem | 36.0  |
| Public transport is satisfactory    | 68.5  |

## Activities

| Activities  | Score |
|---|-------|
| Green spaces are satisfactory                                   | 76.0  |
| Cultural activities (shows, bars, and museums) are satisfactory | 86.1  |

## Opportunities (Work & School)

| Opportunities (Work & School)                                      | Score |
|--|-------|
| Employment finding services are readily available                  | 76.8  |
| Most children have access to a good school                         | 80.5  |
| Lifelong learning opportunities are provided by local institutions | 77.0  |
| Businesses are creating new jobs                                   | 72.1  |
| Minorities feel welcome  | 60.9  |

## Governance

| Governance  | Score |
|---|-------|
| Information on local government decisions are easily accessible | 70.0  |
| Corruption of city officials is not an issue of concern         | 65.3  |
| Residents contribute to decision making of local government     | 58.0  |
| Residents provide feedback on local government projects         | 68.3  |

## TECHNOLOGIES

Score

| Health & Safety  | Score |
|--|-------|
| Online reporting of city maintenance problems provides a speedy solution | 51.9  |
| A website or App allows residents to easily give away unwanted items     | 66.7  |
| Free public wifi has improved access to city services                    | 50.9  |
| CCTV cameras has made residents feel safer                               | 50.3  |
| A website or App allows residents to effectively monitor air pollution   | 46.5  |
| Arranging medical appointments online has improved access                | 70.9  |

## Mobility

| Mobility   | Score |
|--|-------|
| Car-sharing Apps have reduced congestion                                     | 40.7  |
| Apps that direct you to an available parking space have reduced journey time | 43.2  |
| Bicycle hiring has reduced congestion  | 51.2  |
| Online scheduling and ticket sales has made public transport easier to use   | 67.7  |
| The city provides information on traffic congestion through mobile phones    | 47.3  |

## Activities

| Activities   | Score |
|--|-------|
| Online purchasing of tickets to shows and museums has made it easier to attend | 80.1  |

## Opportunities (Work & School)

| Opportunities (Work & School)   | Score |
|---|-------|
| Online access to job listings has made it easier to find work                   | 72.0  |
| IT skills are taught well in schools  | 62.2  |
| Online services provided by the city has made it easier to start a new business | 50.2  |
| The current internet speed and reliability meet connectivity needs              | 70.5  |

## Governance

| Governance  | Score |
|---|-------|
| Online public access to city finances has reduced corruption                | 48.1  |
| Online voting has increased participation                                   | 48.9  |
| An online platform where residents can propose ideas has improved city life | 51.1  |
| Processing Identification Documents online has reduced waiting times        | 57.5  |

# Delhi

SMART  
CITY  
RANKING  
**104**

Out of 146



106 in 2024  
Out of 142

SMART  
CITY RATING

**CC**

CC in 2024

FACTOR  
RATINGS

**CC**

STRUCTURES

**CCC**

TECHNOLOGIES

GROUP



All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 33,810,000  
(UN World Urbanization Prospects)

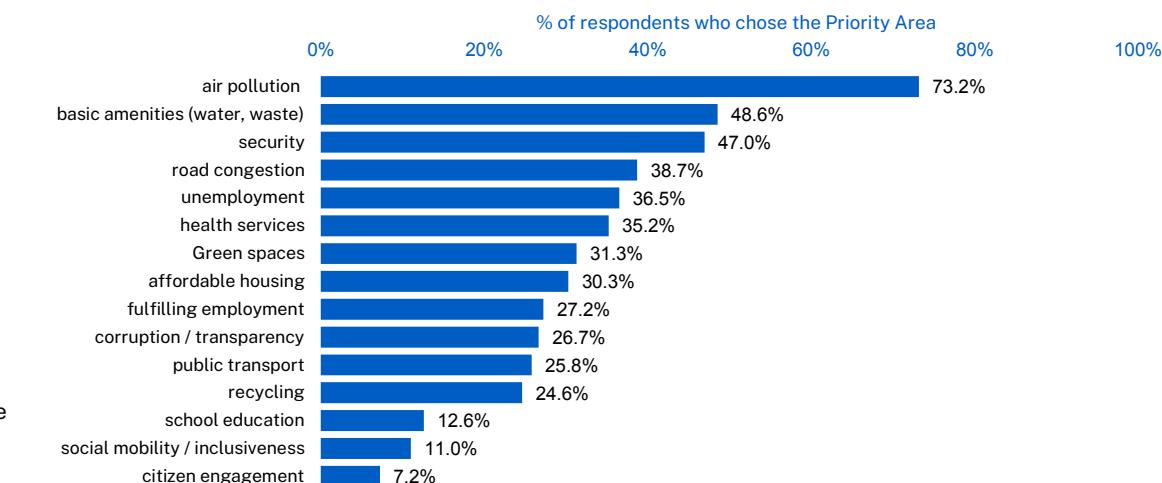
HDI 0.734  
(Global Data Lab)



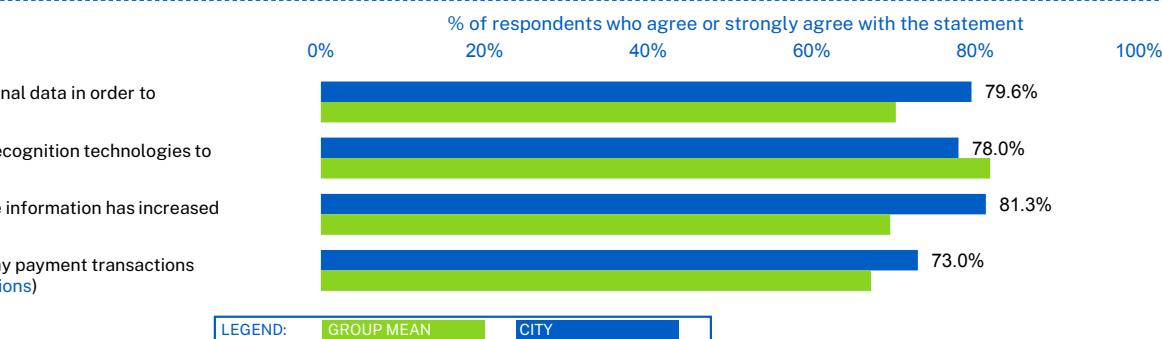
### Country

| India                       | 2019  | 2020  | 2021  | 2022  | 1 yr change |
|-----------------------------|-------|-------|-------|-------|-------------|
| HDI                         | 0.619 | 0.630 | 0.636 | 0.636 | +0.000      |
| Life expectancy at birth    | 70.9  | 70.2  | 67.2  | 67.7  | +0.5        |
| Expected years of schooling | 11.4  | 11.7  | 12.0  | 12.6  | +0.6        |
| Mean years of schooling     | 6.3   | 6.5   | 6.5   | 6.6   | +0.0        |
| GNI per capita (PPP \$)     | 6,554 | 6,090 | 6,542 | 6,951 | +408        |

## PRIORITY AREAS



## ATTITUDES



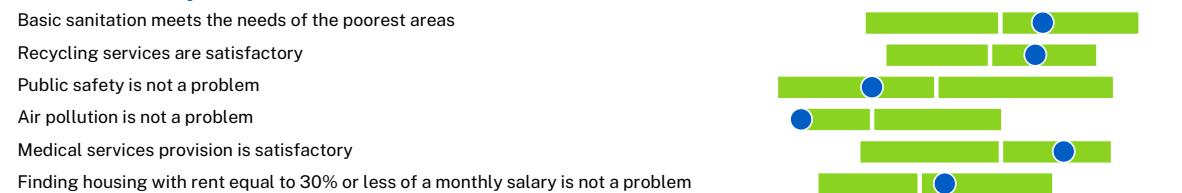
LEGEND: GROUP MEAN CITY

## STRUCTURES

### STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

#### Health & Safety



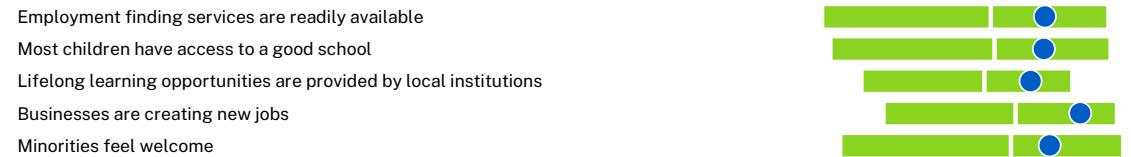
#### Mobility



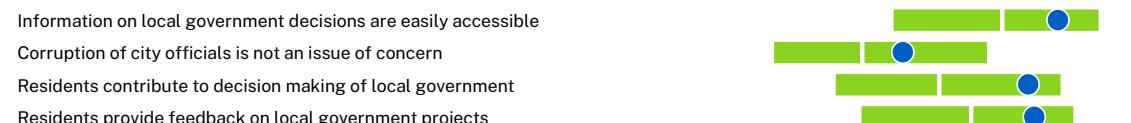
#### Activities



#### Opportunities (Work & School)

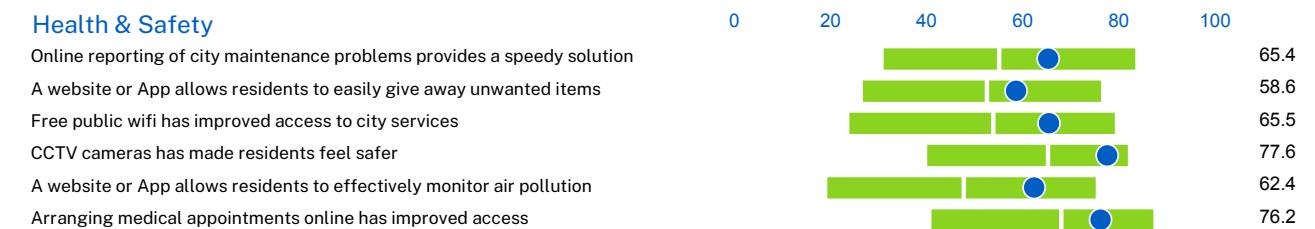


#### Governance

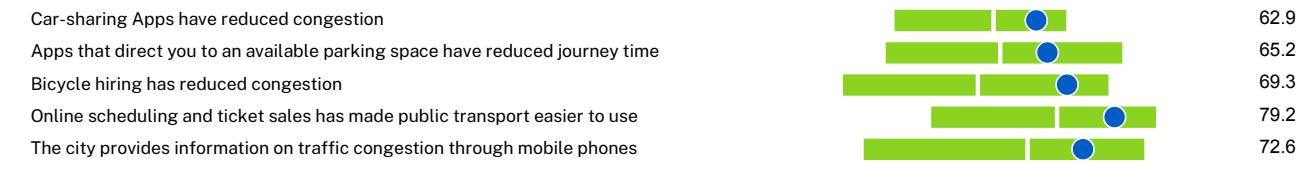


## TECHNOLOGIES

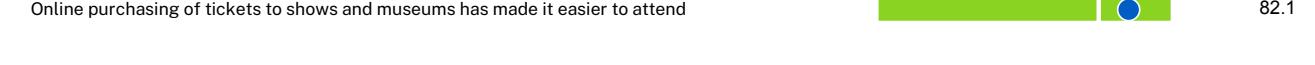
Score



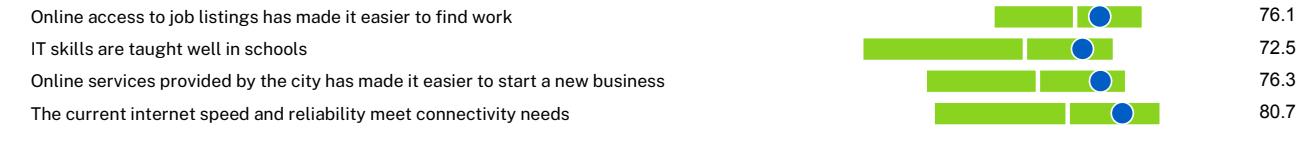
#### Mobility



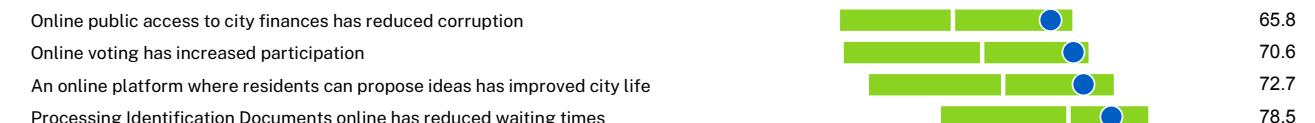
#### Activities



#### Opportunities (Work & School)



#### Governance



# Denver

SMART  
CITY  
RANKING  
**68**

Out of 146



66 in 2024  
Out of 142

SMART  
CITY RATING

**BB**

BBB in 2024

FACTOR  
RATINGS

**BB**

STRUCTURES

**BB**

TECHNOLOGIES

**1**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 680,000  
(UN World Urbanization Prospects)

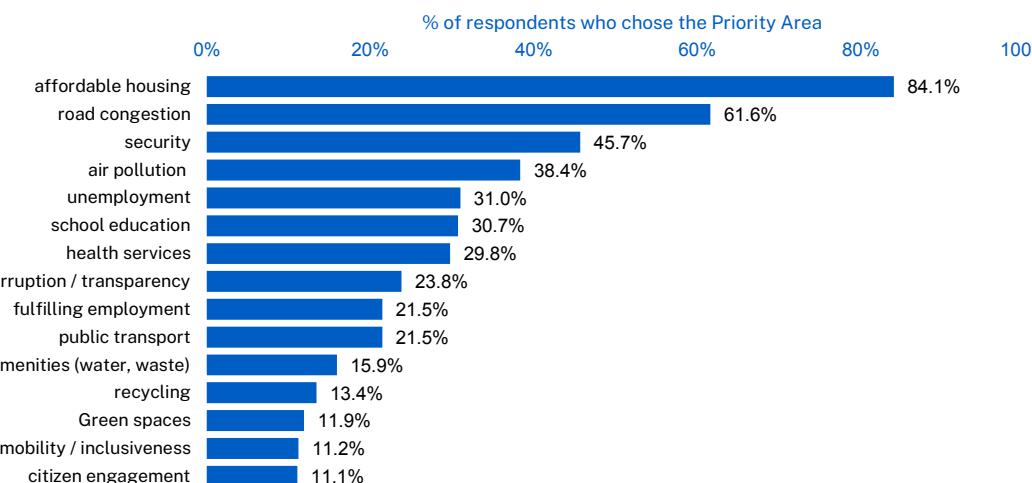
HDI 0.952  
(Global Data Lab)



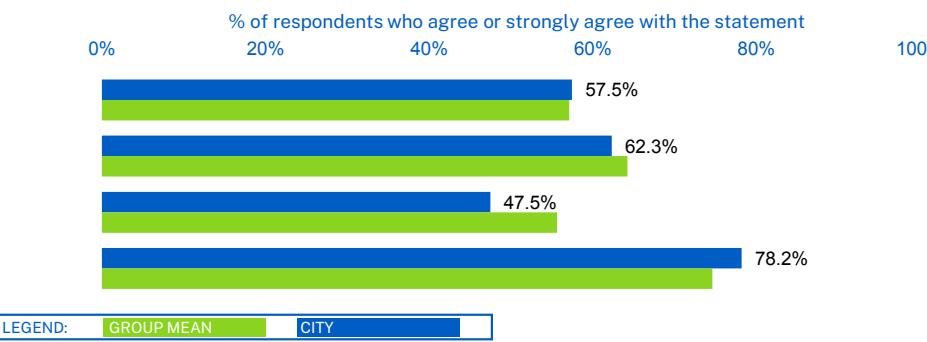
### Country

| United States               | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.924  | 0.926  | 0.928  | 0.930  | +0.002      |
| Life expectancy at birth    | 79.1   | 77.4   | 77.2   | 78.2   | +1.0        |
| Expected years of schooling | 16.6   | 16.6   | 16.4   | 16.4   | +0.0        |
| Mean years of schooling     | 13.6   | 13.7   | 13.6   | 13.6   | +0.0        |
| GNI per capita (PPP \$)     | 63,654 | 61,077 | 64,484 | 65,565 | +1,081      |

## PRIORITY AREAS



## ATTITUDES

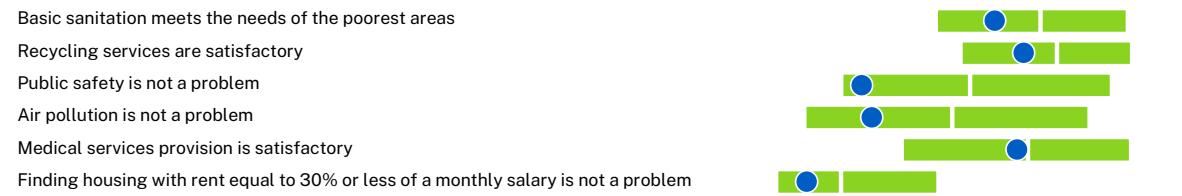


LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



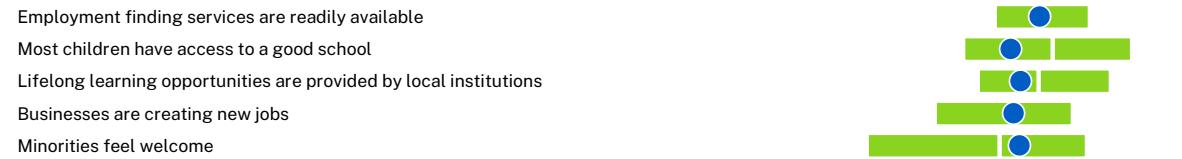
### Mobility



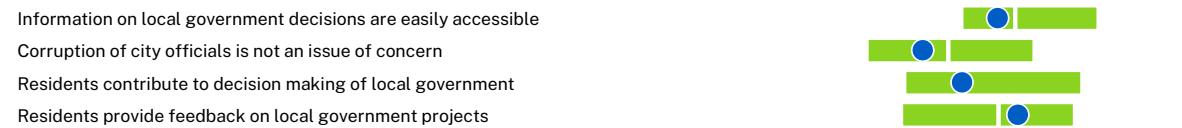
### Activities



### Opportunities (Work & School)



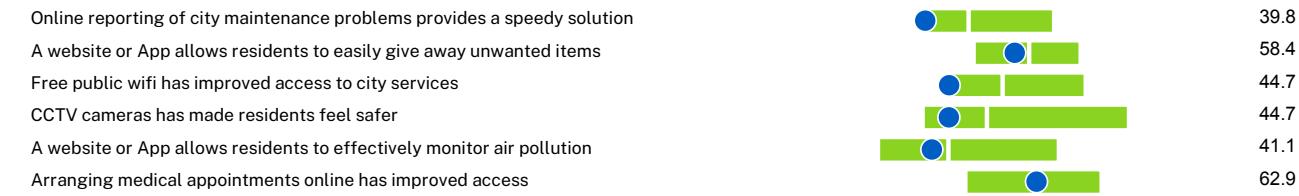
### Governance



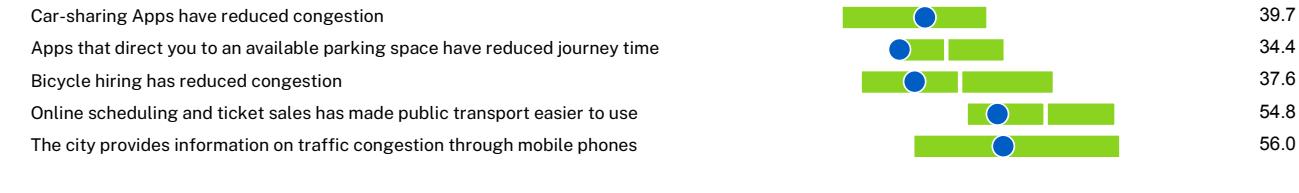
## TECHNOLOGIES

Score

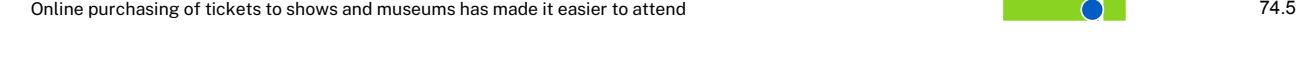
### Health & Safety



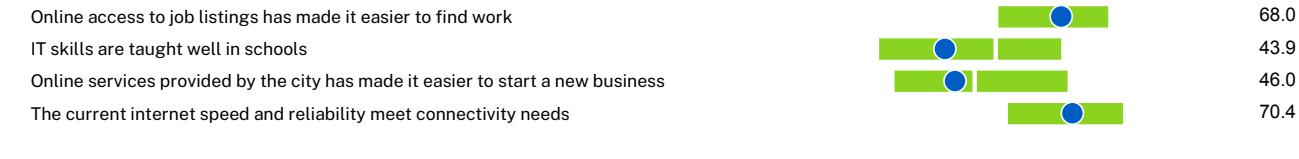
### Mobility



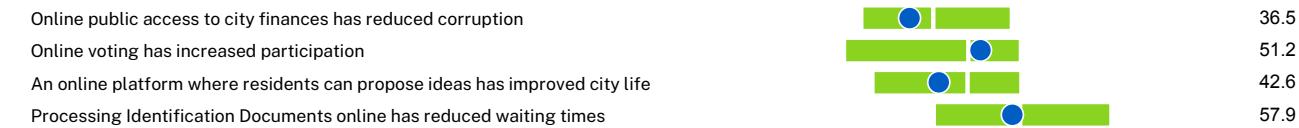
### Activities



### Opportunities (Work & School)



### Governance



# Doha

SMART  
CITY  
RANKING  
**33**

Out of 146



48 in 2024  
Out of 142

SMART  
CITY RATING

**BB**

B in 2024

FACTOR  
RATINGS

**BB**

STRUCTURES

**BB**

TECHNOLOGIES

**3**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 1,950,000  
(UN World Urbanization Prospects)

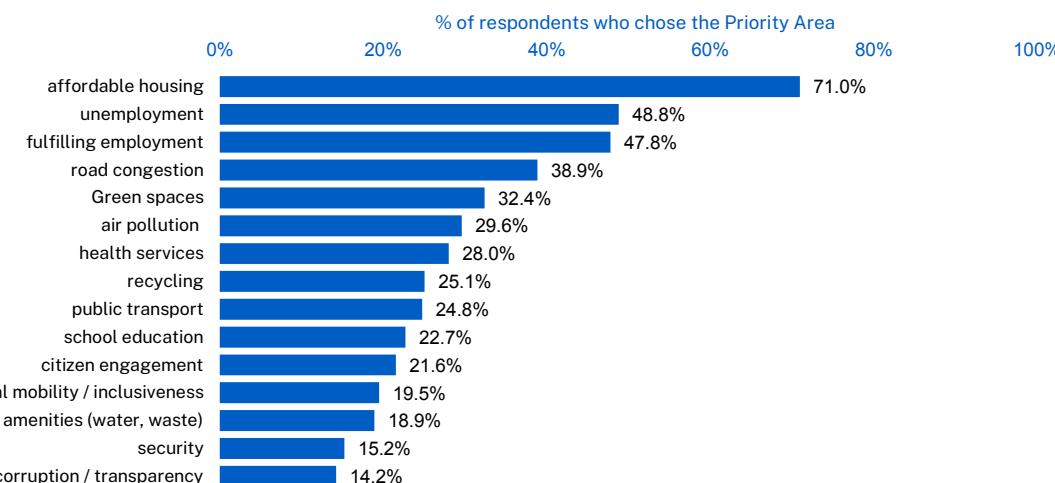
HDI 0.875  
(Global Data Lab)



### Country

| Qatar                       | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.852  | 0.853  | 0.862  | 0.866  | +0.004      |
| Life expectancy at birth    | 81.0   | 79.1   | 79.3   | 81.6   | +2.3        |
| Expected years of schooling | 13.2   | 13.3   | 13.3   | 13.3   | +0.0        |
| Mean years of schooling     | 10.0   | 10.1   | 10.1   | 10.1   | +0.0        |
| GNI per capita (PPP \$)     | 88,647 | 87,385 | 91,760 | 95,944 | +4,184      |

## PRIORITY AREAS



## ATTITUDES



## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety

|   | Score |  |
|---|-------|--|
| Basic sanitation meets the needs of the poorest areas                               | 85.2  |  |
| Recycling services are satisfactory   | 81.6  |  |
| Public safety is not a problem  | 69.7  |  |
| Air pollution is not a problem  | 48.8  |  |
| Medical services provision is satisfactory  | 85.6  |  |
| Finding housing with rent equal to 30% or less of a monthly salary is not a problem | 48.5  |  |

### Mobility

|                                     | Score |  |
|-------------------------------------|-------|--|
| Traffic congestion is not a problem | 53.0  |  |
| Public transport is satisfactory    | 83.6  |  |

### Activities

|   | Score |  |
|---|-------|--|
| Green spaces are satisfactory                                   | 80.0  |  |
| Cultural activities (shows, bars, and museums) are satisfactory | 83.3  |  |

### Opportunities (Work & School)

|  | Score |  |
|--|-------|--|
| Employment finding services are readily available                  | 57.6  |  |
| Most children have access to a good school                         | 78.4  |  |
| Lifelong learning opportunities are provided by local institutions | 71.2  |  |
| Businesses are creating new jobs                                   | 65.2  |  |
| Minorities feel welcome  | 73.5  |  |

### Governance

|   | Score |  |
|---|-------|--|
| Information on local government decisions are easily accessible | 77.9  |  |
| Corruption of city officials is not an issue of concern         | 62.6  |  |
| Residents contribute to decision making of local government     | 52.5  |  |
| Residents provide feedback on local government projects         | 60.1  |  |

## TECHNOLOGIES

Score

### Health & Safety

|  | Score |  |
|--|-------|--|
| Online reporting of city maintenance problems provides a speedy solution | 75.3  |  |
| A website or App allows residents to easily give away unwanted items     | 72.5  |  |
| Free public wifi has improved access to city services                    | 70.7  |  |
| CCTV cameras has made residents feel safer                               | 84.4  |  |
| A website or App allows residents to effectively monitor air pollution   | 58.1  |  |
| Arranging medical appointments online has improved access                | 80.0  |  |

### Mobility

|  | Score |  |
|--|-------|--|
| Car-sharing Apps have reduced congestion                                     | 68.9  |  |
| Apps that direct you to an available parking space have reduced journey time | 66.6  |  |
| Bicycle hiring has reduced congestion  | 60.2  |  |
| Online scheduling and ticket sales has made public transport easier to use   | 79.7  |  |
| The city provides information on traffic congestion through mobile phones    | 71.1  |  |

### Activities

|  | Score |  |
|--|-------|--|
| Online purchasing of tickets to shows and museums has made it easier to attend | 86.7  |  |

### Opportunities (Work & School)

|   | Score |  |
|---|-------|--|
| Online access to job listings has made it easier to find work                   | 74.1  |  |
| IT skills are taught well in schools  | 75.2  |  |
| Online services provided by the city has made it easier to start a new business | 72.5  |  |
| The current internet speed and reliability meet connectivity needs              | 86.2  |  |

### Governance

|   | Score |  |
|---|-------|--|
| Online public access to city finances has reduced corruption                | 67.6  |  |
| Online voting has increased participation                                   | 65.0  |  |
| An online platform where residents can propose ideas has improved city life | 64.7  |  |
| Processing Identification Documents online has reduced waiting times        | 82.7  |  |

# Dubai

SMART  
CITY  
RANKING

**4**

Out of 146



12 in 2024  
Out of 142

SMART  
CITY RATING

**A**

BB in 2024

FACTOR  
RATINGS

**A**

STRUCTURES

**A**

TECHNOLOGIES

GROUP

**2**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 3,050,000  
(UN World Urbanization Prospects)

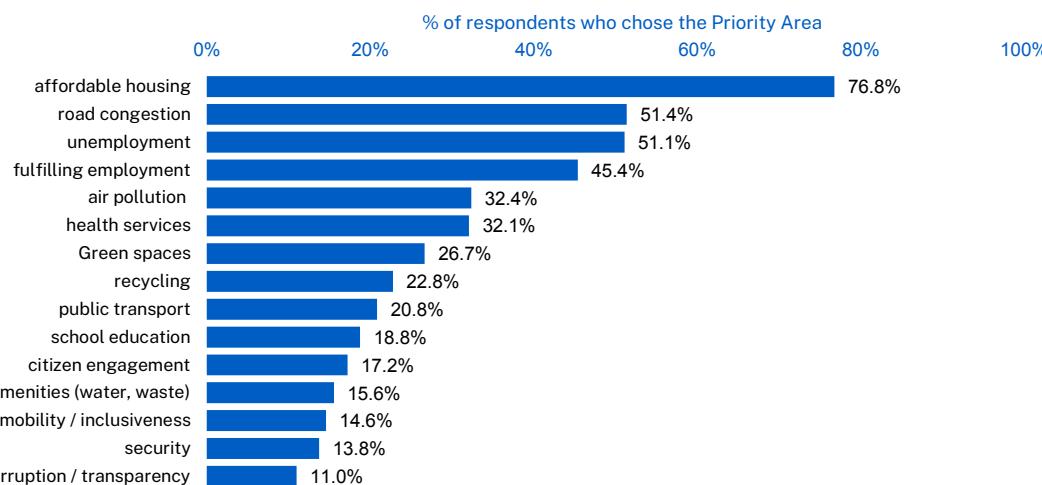
HDI 0.937  
(Global Data Lab)



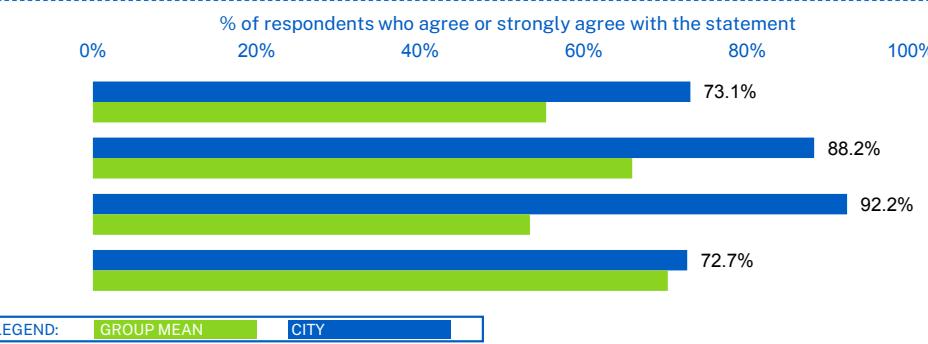
### Country

| United Arab Emirates        | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.860  | 0.866  | 0.898  | 0.917  | +0.019      |
| Life expectancy at birth    | 79.7   | 78.9   | 78.7   | 79.2   | +0.5        |
| Expected years of schooling | 16.8   | 17.2   | 17.2   | 17.2   | +0.0        |
| Mean years of schooling     | 12.7   | 12.7   | 12.8   | 12.8   | +0.0        |
| GNI per capita (PPP \$)     | 72,131 | 67,353 | 69,550 | 74,104 | +4,553      |

## PRIORITY AREAS



## ATTITUDES



LEGEND: GROUP MEAN CITY

STRUCTURES

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety

|   | Score |  |
|---|-------|--|
| Basic sanitation meets the needs of the poorest areas                               | 80.9  |  |
| Recycling services are satisfactory   | 84.3  |  |
| Public safety is not a problem  | 66.2  |  |
| Air pollution is not a problem  | 46.8  |  |
| Medical services provision is satisfactory  | 82.8  |  |
| Finding housing with rent equal to 30% or less of a monthly salary is not a problem | 45.8  |  |

### Mobility

|                                     | Score |  |
|-------------------------------------|-------|--|
| Traffic congestion is not a problem | 34.7  |  |
| Public transport is satisfactory    | 79.1  |  |

### Activities

|   | Score |  |
|---|-------|--|
| Green spaces are satisfactory                                   | 83.4  |  |
| Cultural activities (shows, bars, and museums) are satisfactory | 86.5  |  |

### Opportunities (Work & School)

|  | Score |  |
|--|-------|--|
| Employment finding services are readily available                  | 63.7  |  |
| Most children have access to a good school                         | 75.7  |  |
| Lifelong learning opportunities are provided by local institutions | 70.1  |  |
| Businesses are creating new jobs                                   | 74.1  |  |
| Minorities feel welcome  | 80.6  |  |

### Governance

|   | Score |  |
|---|-------|--|
| Information on local government decisions are easily accessible | 86.8  |  |
| Corruption of city officials is not an issue of concern         | 67.3  |  |
| Residents contribute to decision making of local government     | 63.0  |  |
| Residents provide feedback on local government projects         | 70.9  |  |

## TECHNOLOGIES

## TECHNOLOGIES

Score



# Dublin

SMART  
CITY  
RANKING  
**66**

Out of 146



69 in 2024  
Out of 142

SMART  
CITY RATING

**BB**

BB in 2024

FACTOR  
RATINGS

**BB**

STRUCTURES

**BBB**

TECHNOLOGIES

GROUP

**1**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 1,280,000  
(UN World Urbanization Prospects)

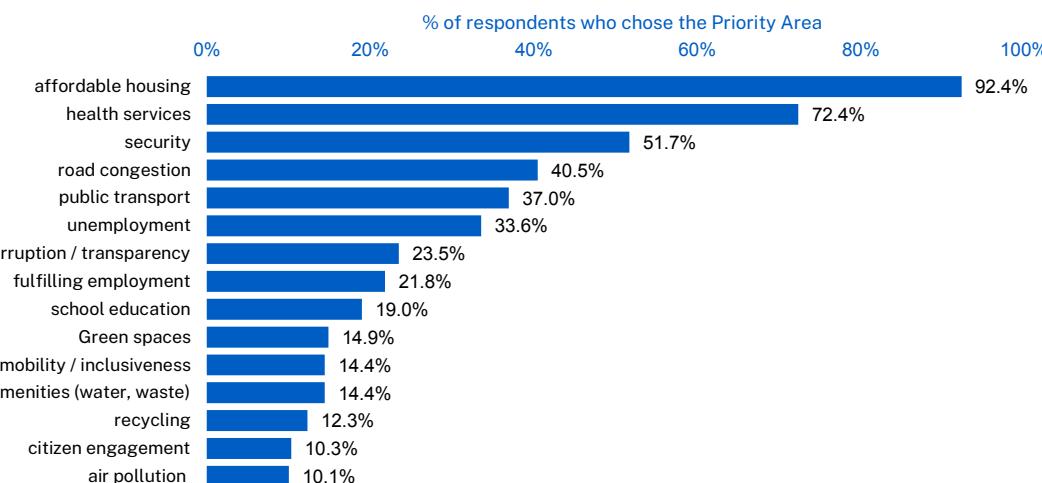
HDI 0.954  
(Global Data Lab)



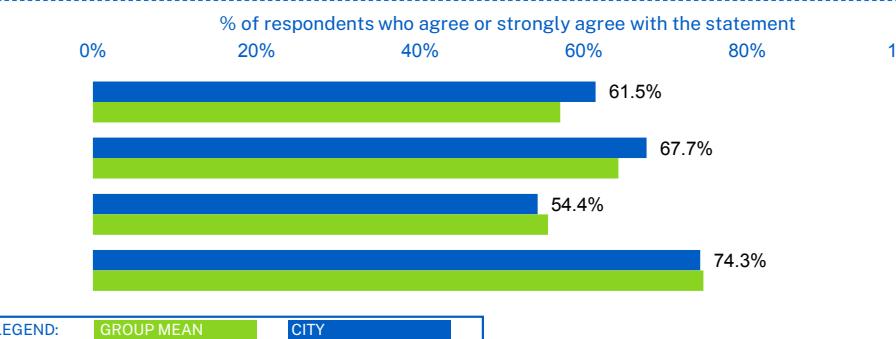
### Country

| Ireland                     | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.924  | 0.929  | 0.934  | 0.938  | +0.004      |
| Life expectancy at birth    | 82.3   | 82.5   | 82.0   | 82.7   | +0.7        |
| Expected years of schooling | 18.9   | 18.8   | 19.1   | 19.1   | +0.0        |
| Mean years of schooling     | 11.6   | 11.7   | 11.7   | 11.7   | +0.0        |
| GNI per capita (PPP \$)     | 67,652 | 69,109 | 78,953 | 87,468 | +8,515      |

## PRIORITY AREAS



## ATTITUDES



LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem



### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access

## TECHNOLOGIES



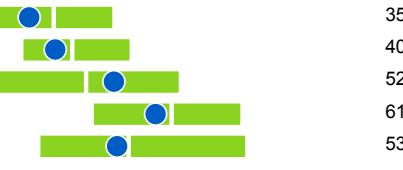
### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory



### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones



### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory



### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend



### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome



### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs



### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects



### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times



# Dusseldorf

SMART  
CITY  
RANKING

**45**

Out of 146



44 in 2024  
Out of 142

SMART  
CITY RATING

**BBB**

BB in 2024

FACTOR  
RATINGS

**BB**

STRUCTURES

**BB**

TECHNOLOGIES

GROUP

**1**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 570,000  
(UN World Urbanization Prospects)

HDI 0.946  
(Global Data Lab)



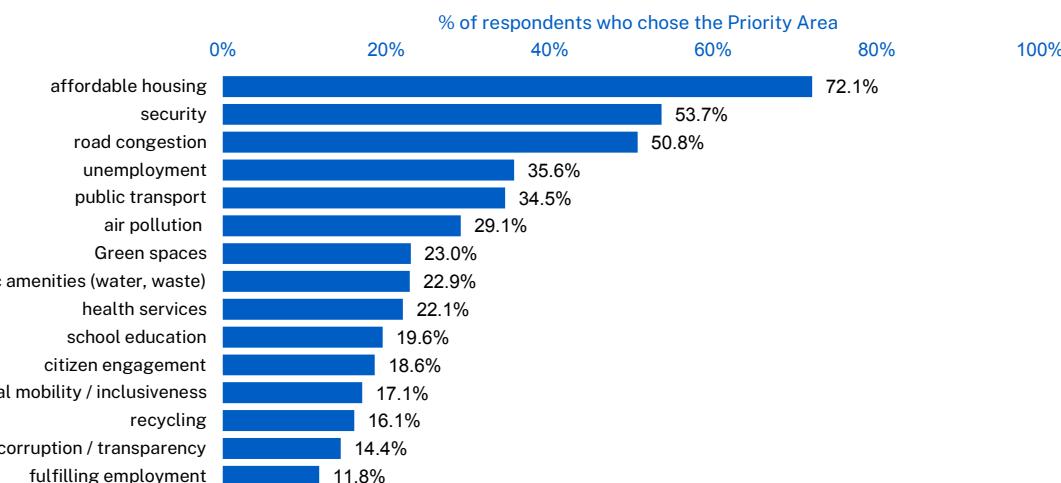
44 in 2024

Out of 142

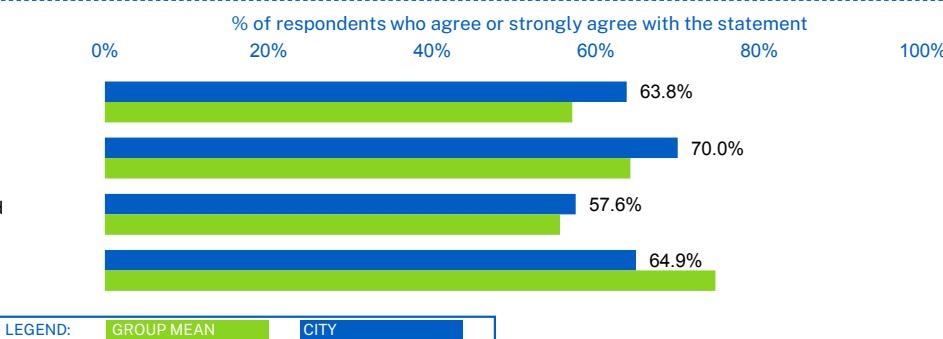
### Country

| Germany                     | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.941  | 0.941  | 0.944  | 0.946  | +0.002      |
| Life expectancy at birth    | 81.6   | 81.1   | 80.6   | 81.0   | +0.4        |
| Expected years of schooling | 17.2   | 17.2   | 17.3   | 17.3   | +0.0        |
| Mean years of schooling     | 14.2   | 14.3   | 14.3   | 14.3   | +0.0        |
| GNI per capita (PPP \$)     | 55,685 | 53,375 | 55,057 | 55,340 | +284        |

## PRIORITY AREAS



## ATTITUDES

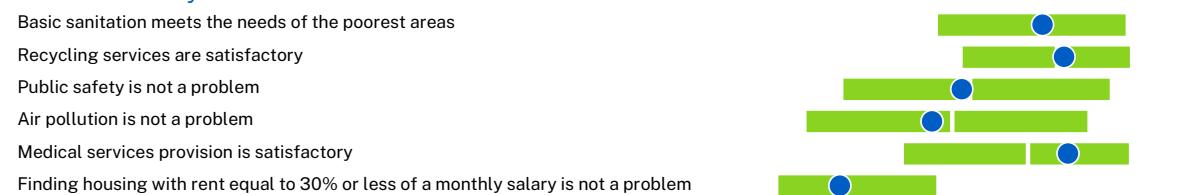


LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



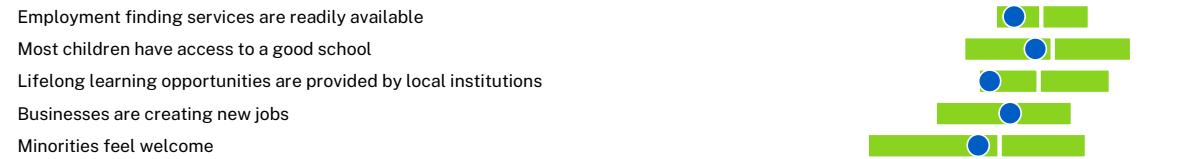
### Mobility



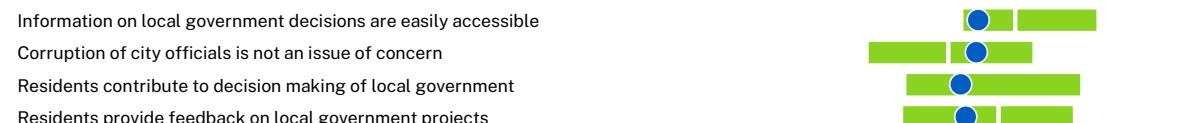
### Activities



### Opportunities (Work & School)



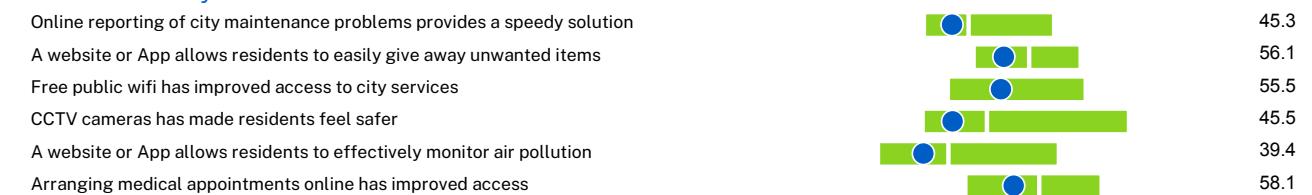
### Governance



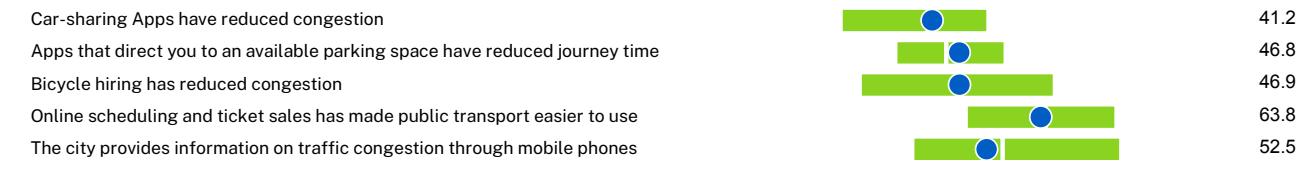
## TECHNOLOGIES

Score

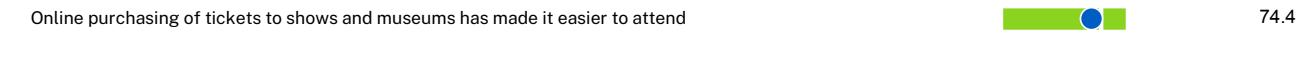
### Health & Safety



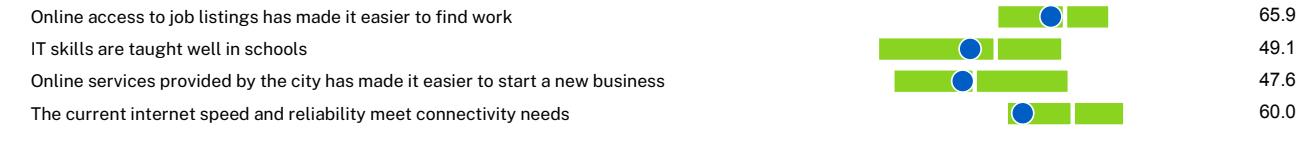
### Mobility



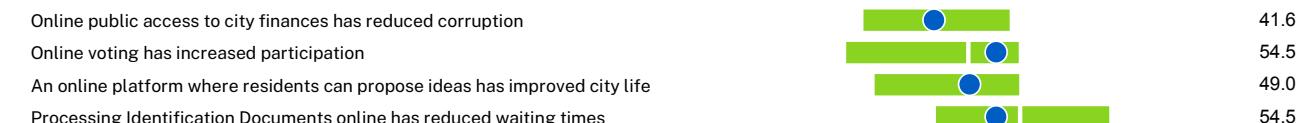
### Activities



### Opportunities (Work & School)



### Governance



# Geneva

SMART  
CITY  
RANKING

**3**

Out of 146



4 in 2024  
Out of 142

SMART  
CITY RATING

**AAA**

AAA in 2024

FACTOR  
RATINGS

**AAA**

STRUCTURES

**AAA**

TECHNOLOGIES

GROUP

**1**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 180,000  
(UN World Urbanization Prospects)

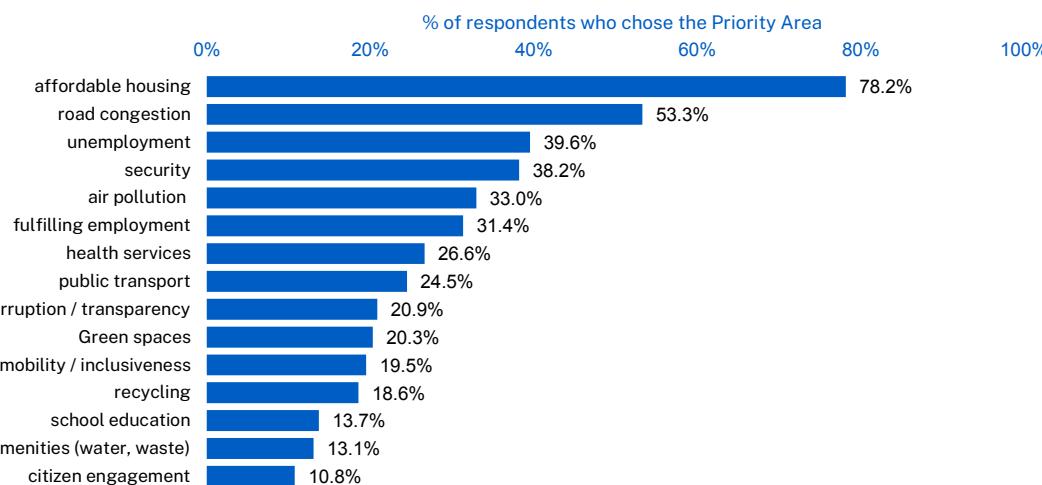
HDI 0.973  
(Global Data Lab)



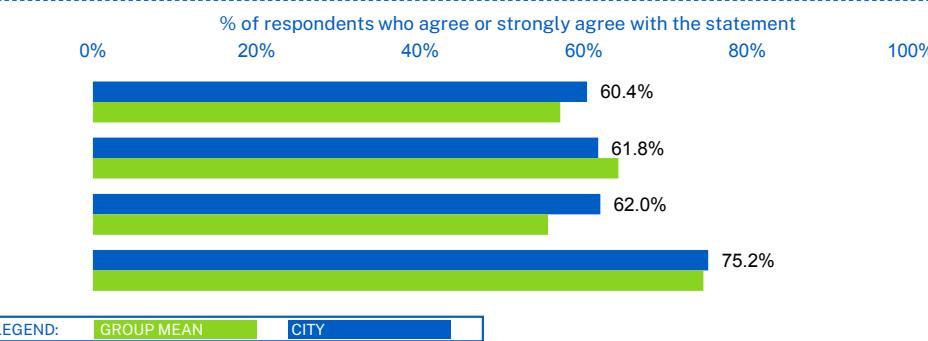
### Country

| Switzerland                 | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.952  | 0.954  | 0.955  | 0.957  | +0.002      |
| Life expectancy at birth    | 83.8   | 83.1   | 84.0   | 84.3   | +0.3        |
| Expected years of schooling | 16.3   | 16.4   | 16.6   | 16.6   | +0.0        |
| Mean years of schooling     | 13.9   | 13.9   | 13.9   | 13.9   | +0.0        |
| GNI per capita (PPP \$)     | 67,531 | 66,267 | 68,550 | 69,433 | +882        |

## PRIORITY AREAS



## ATTITUDES



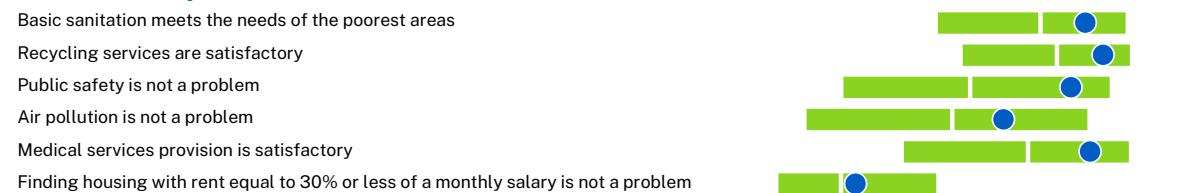
LEGEND: GROUP MEAN CITY

**STRUCTURES**

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



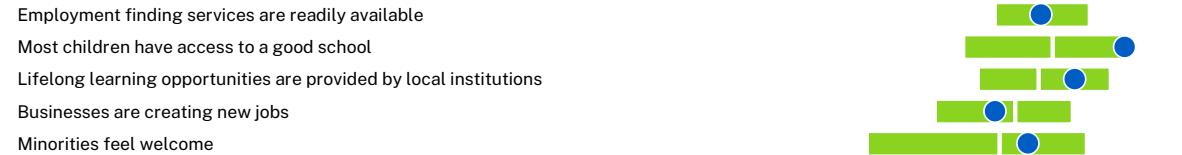
### Mobility



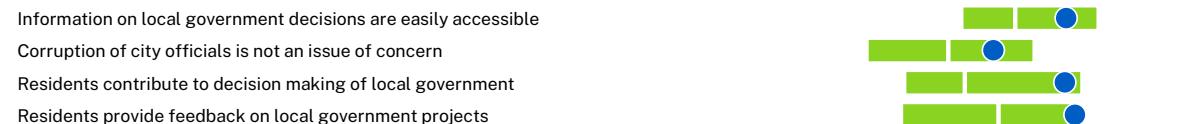
### Activities



### Opportunities (Work & School)



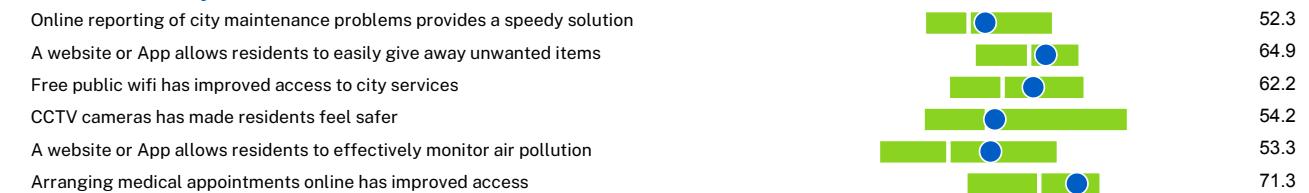
### Governance



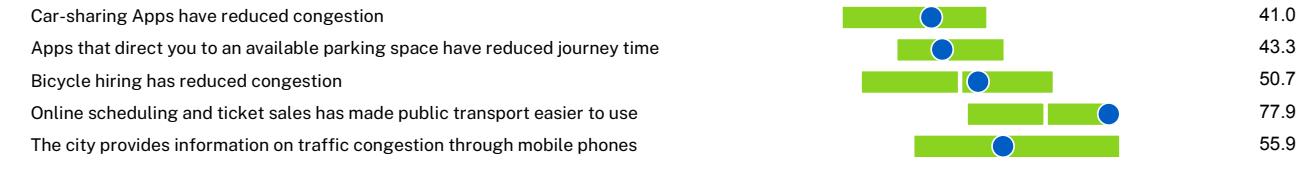
## TECHNOLOGIES

Score

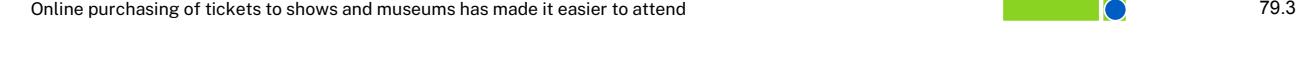
### Health & Safety



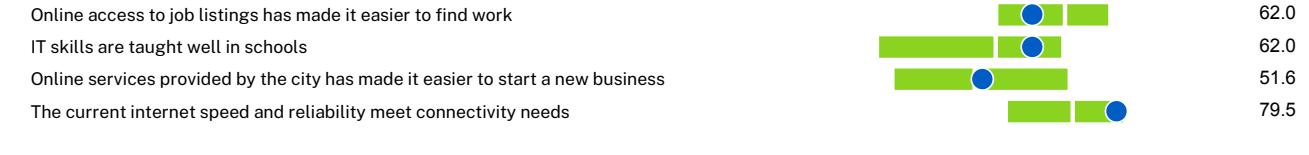
### Mobility



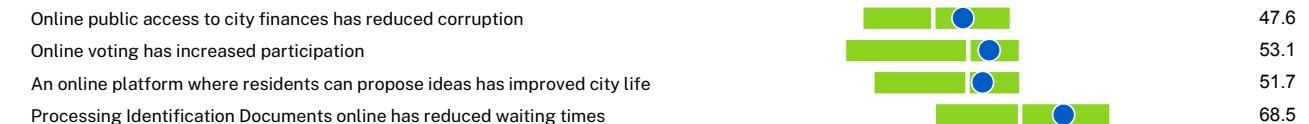
### Activities



### Opportunities (Work & School)



### Governance



# Glasgow

SMART  
CITY  
RANKING  
**95**

Out of 146



87 in 2024  
Out of 142

SMART  
CITY RATING

**B**

B in 2024

FACTOR  
RATINGS  
**CCC**

STRUCTURES

**CCC**

TECHNOLOGIES

**2**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 1,710,000  
(UN World Urbanization Prospects)

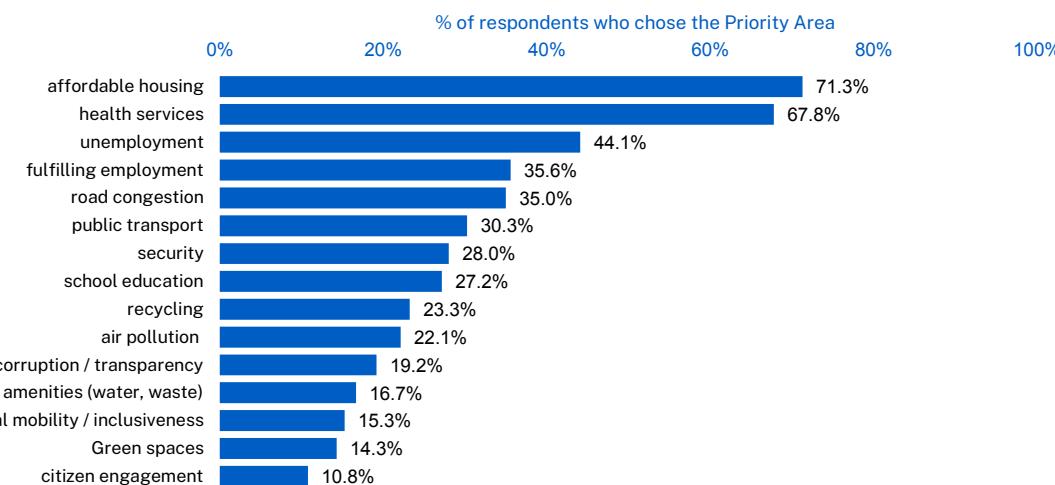
HDI 0.933  
(Global Data Lab)



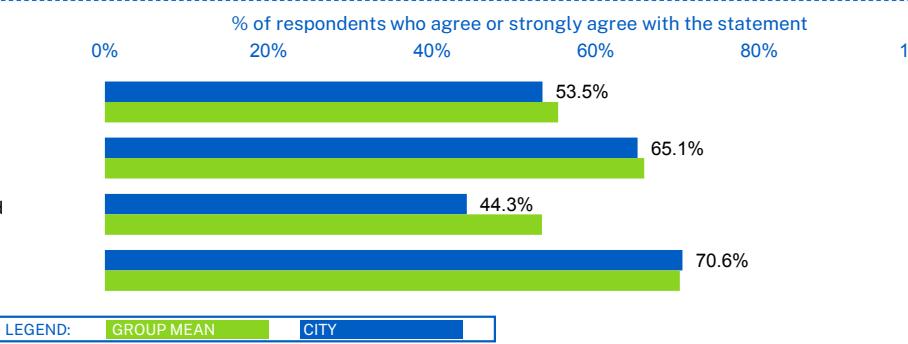
### Country

| United Kingdom              | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.923  | 0.926  | 0.929  | 0.928  | -0.001      |
| Life expectancy at birth    | 81.7   | 80.4   | 80.7   | 82.2   | +1.4        |
| Expected years of schooling | 17.2   | 17.2   | 17.6   | 17.6   | +0.0        |
| Mean years of schooling     | 13.3   | 13.4   | 13.4   | 13.4   | +0.0        |
| GNI per capita (PPP \$)     | 47,066 | 40,799 | 44,750 | 46,624 | +1,874      |

## PRIORITY AREAS



## ATTITUDES

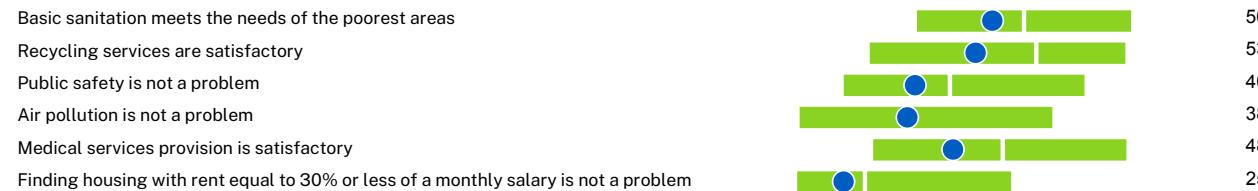


LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



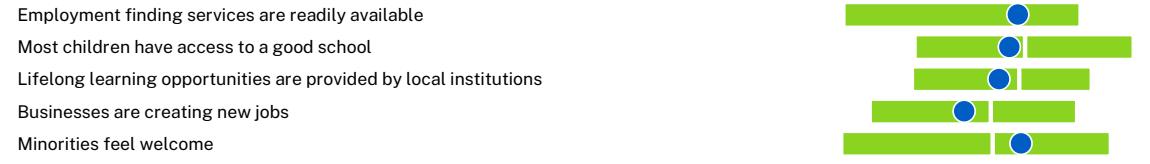
### Mobility



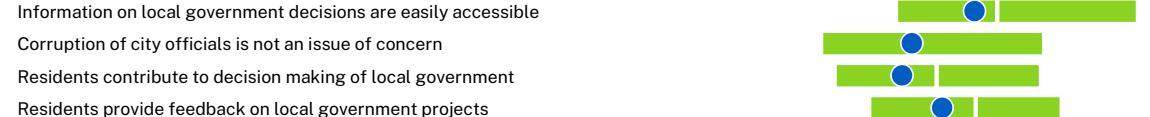
### Activities



### Opportunities (Work & School)

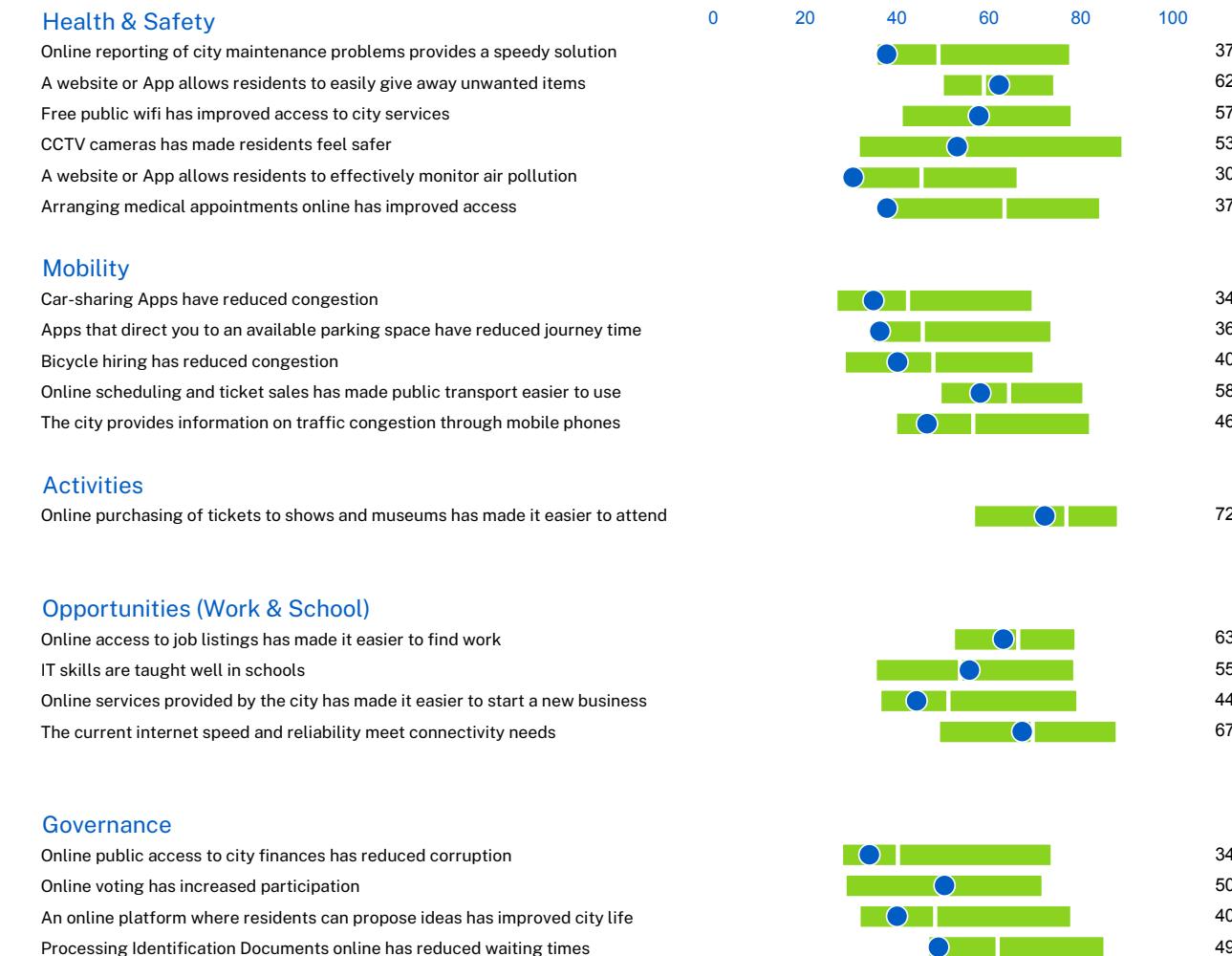


### Governance



## TECHNOLOGIES

Score



LEGEND: MIN CITY MEAN GROUP MAX

# Gothenburg

SMART  
CITY  
RANKING  
**40**

Out of 146



39 in 2024  
Out of 142

SMART  
CITY RATING

**BBB**

A in 2024

FACTOR  
RATINGS

**BBB**

STRUCTURES

**BB**

TECHNOLOGIES

**1**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 570,000  
(UN World Urbanization Prospects)

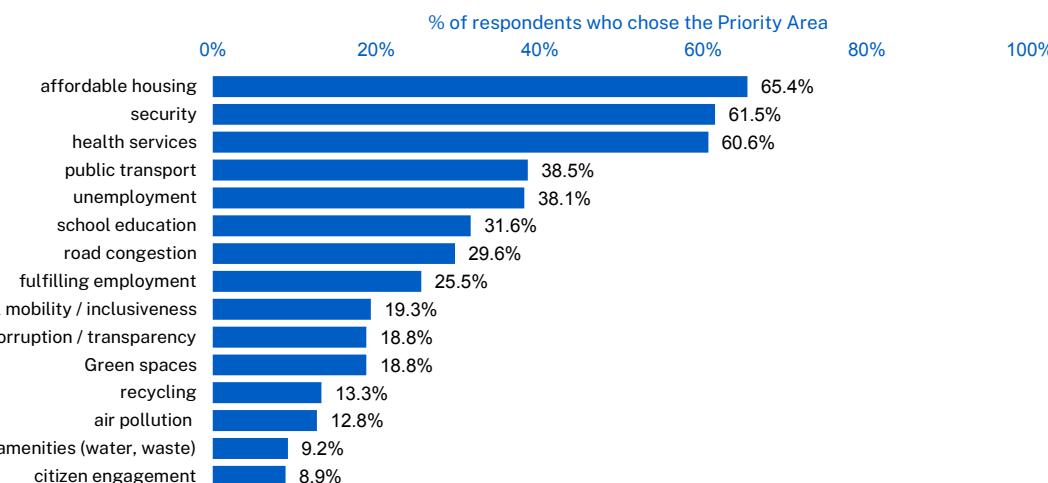
HDI 0.951  
(Global Data Lab)



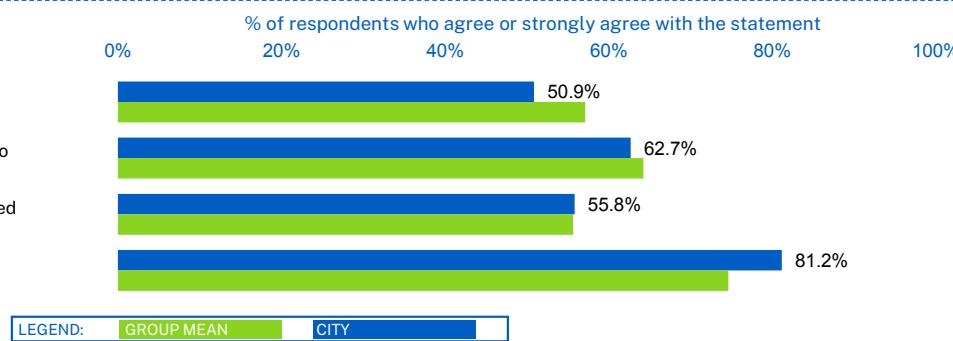
### Country

| Sweden                      | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.937  | 0.939  | 0.941  | 0.943  | +0.002      |
| Life expectancy at birth    | 83.1   | 82.4   | 83.0   | 83.5   | +0.5        |
| Expected years of schooling | 18.5   | 18.7   | 19.0   | 19.0   | +0.0        |
| Mean years of schooling     | 12.6   | 12.7   | 12.7   | 12.7   | +0.0        |
| GNI per capita (PPP \$)     | 54,441 | 53,195 | 55,908 | 56,996 | +1,088      |

## PRIORITY AREAS



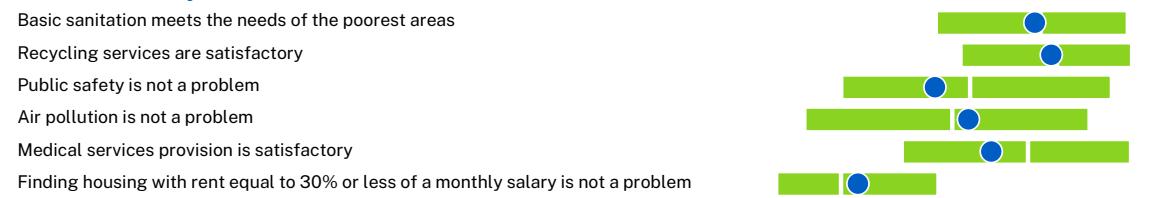
## ATTITUDES



## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



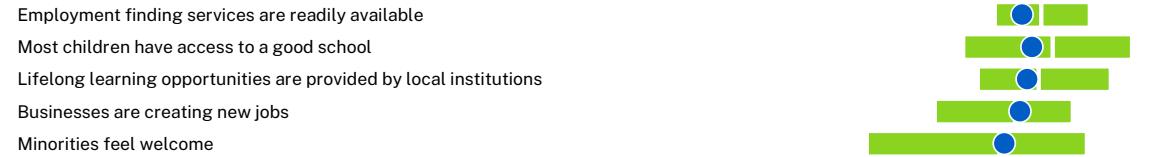
### Mobility



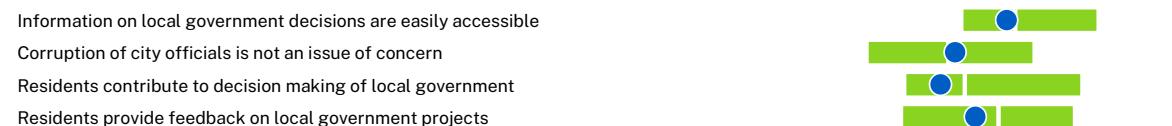
### Activities



### Opportunities (Work & School)

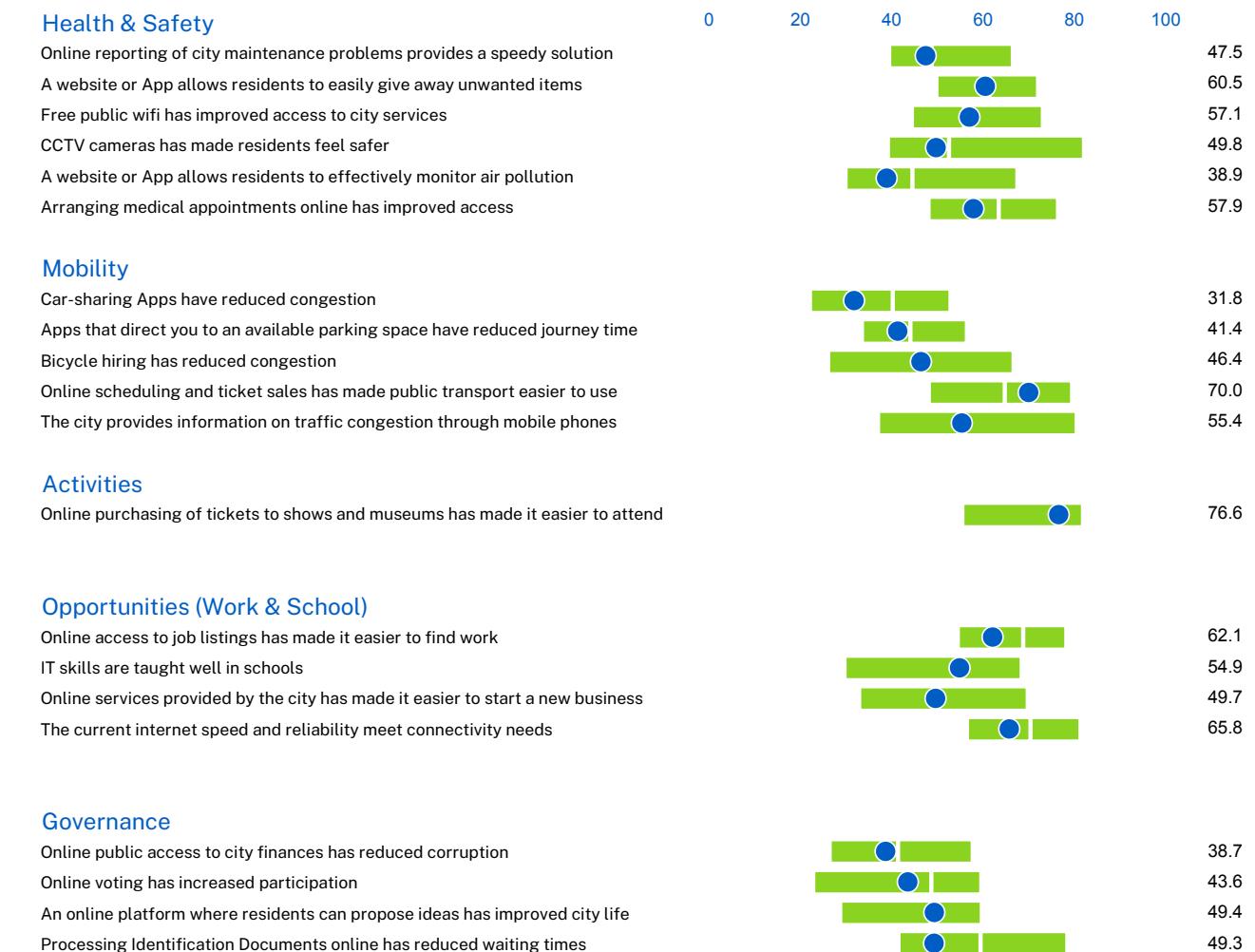


### Governance



## TECHNOLOGIES

Score



# Guangzhou

SMART  
CITY  
RANKING  
**55**

Out of 146



65 in 2024  
Out of 142

SMART  
CITY RATING

**CCC**

CCC in 2024

FACTOR  
RATINGS

**CCC**

STRUCTURES

**CCC**

TECHNOLOGIES

**4**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

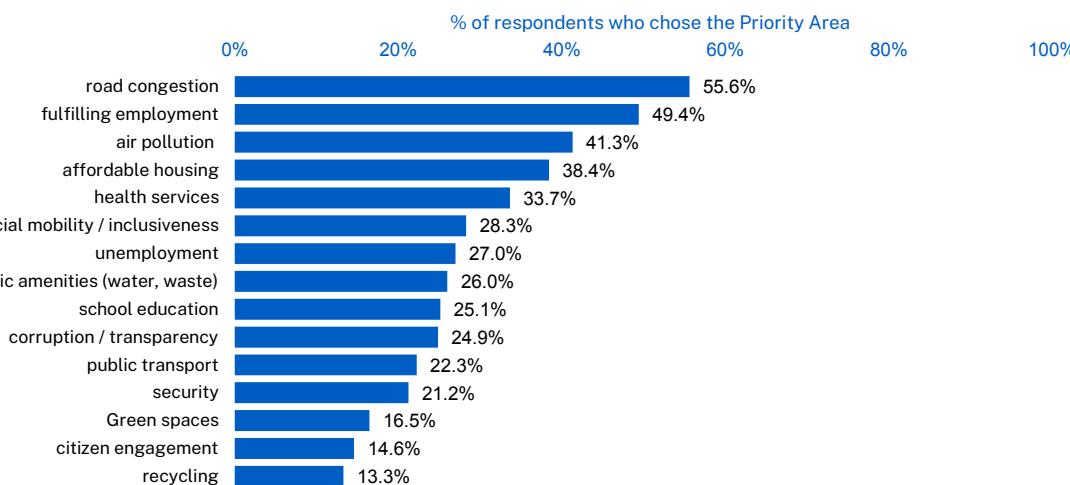
Population 14,590,000  
(UN World Urbanization Prospects)



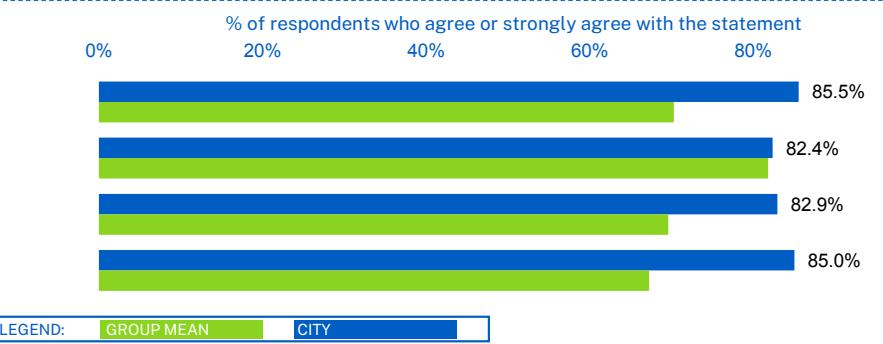
### Country

| China                       | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.741  | 0.749  | 0.757  | 0.766  | +0.009      |
| Life expectancy at birth    | 78.0   | 78.1   | 78.2   | 78.6   | +0.4        |
| Expected years of schooling | 15.0   | 15.2   | 15.2   | 15.2   | +0.0        |
| Mean years of schooling     | 8.0    | 8.1    | 8.1    | 8.1    | +0.0        |
| GNI per capita (PPP \$)     | 15,934 | 16,168 | 17,499 | 18,025 | +526        |

## PRIORITY AREAS



## ATTITUDES



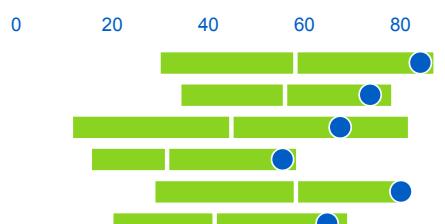
## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem

Score



## TECHNOLOGIES

Score

### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access



### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory

Score



### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones



### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory

Score



### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend



### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome

Score



### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs



### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects

Score



### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times



# Guatemala City

SMART  
CITY  
RANKING

**144**

Out of 146



142 in 2024  
Out of 142

SMART  
CITY RATING

**D**

D in 2024

FACTOR  
RATINGS

**D**

STRUCTURES

**D**

TECHNOLOGIES

**4**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 3,160,000  
(UN World Urbanization Prospects)

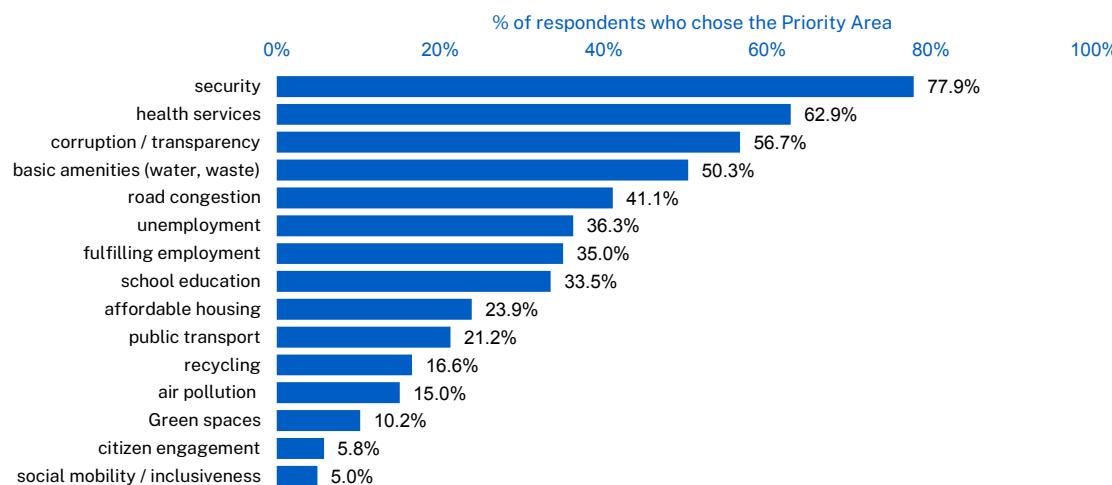
HDI 0.723  
(Global Data Lab)



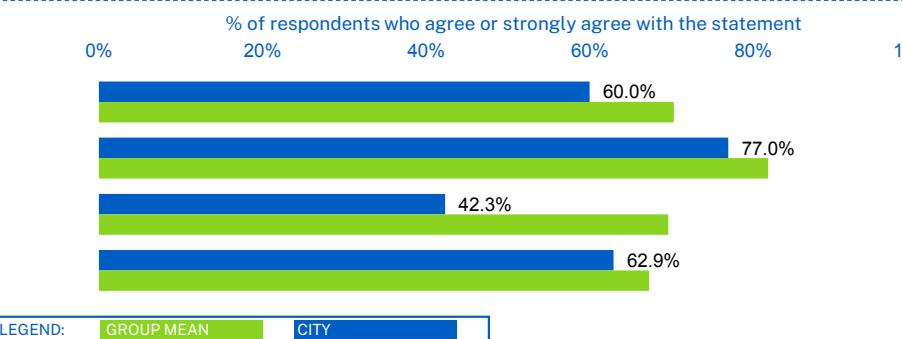
### Country

| Guatemala                   | 2019  | 2020  | 2021  | 2022  | 1 yr change |
|-----------------------------|-------|-------|-------|-------|-------------|
| HDI                         | 0.629 | 0.633 | 0.636 | 0.640 | +0.004      |
| Life expectancy at birth    | 73.1  | 71.8  | 69.2  | 68.7  | -0.6        |
| Expected years of schooling | 10.8  | 10.8  | 10.8  | 10.8  | +0.0        |
| Mean years of schooling     | 5.7   | 5.7   | 5.7   | 5.7   | +0.0        |
| GNI per capita (PPP \$)     | 8,514 | 8,240 | 8,716 | 8,996 | +280        |

## PRIORITY AREAS



## ATTITUDES

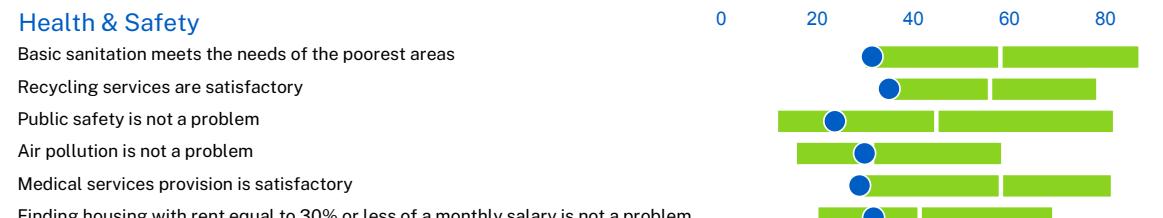


LEGEND: GROUP MEAN CITY

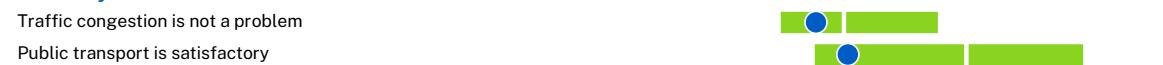
LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

### Score



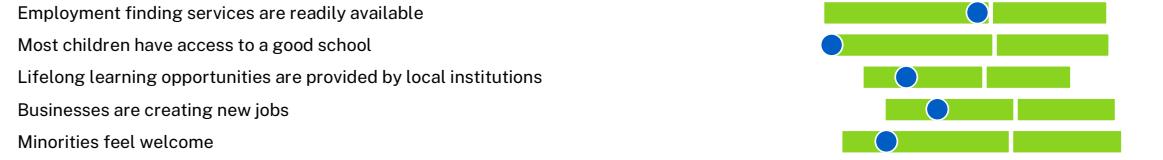
### Mobility



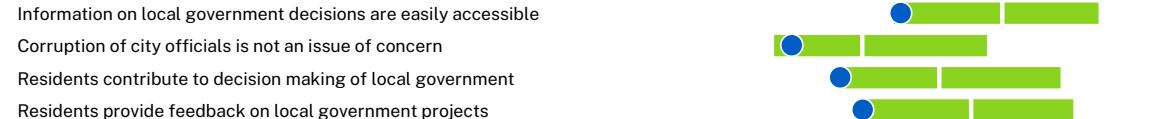
### Activities



### Opportunities (Work & School)

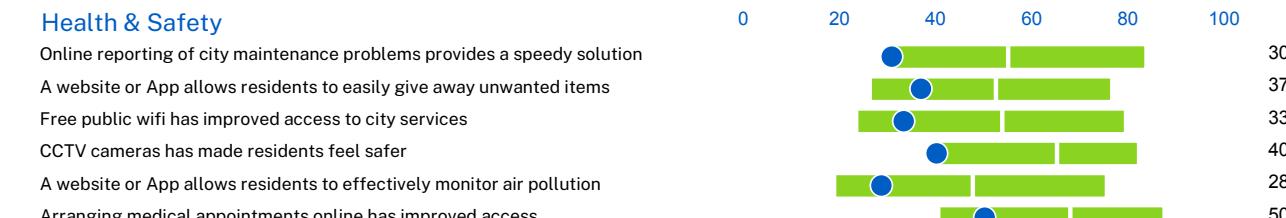


### Governance

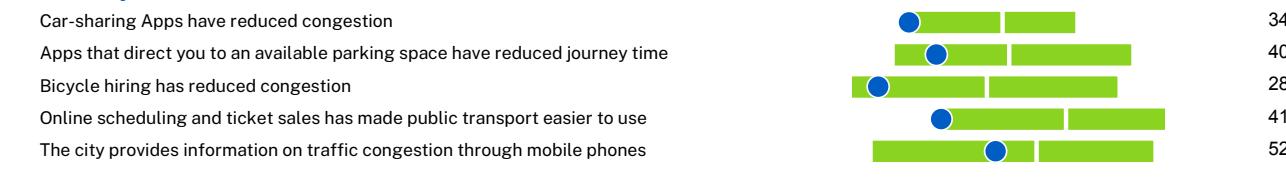


## TECHNOLOGIES

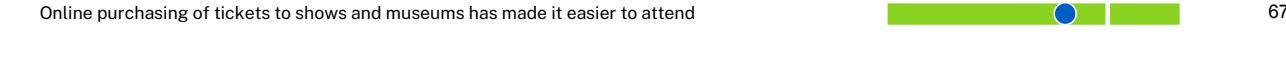
### Score



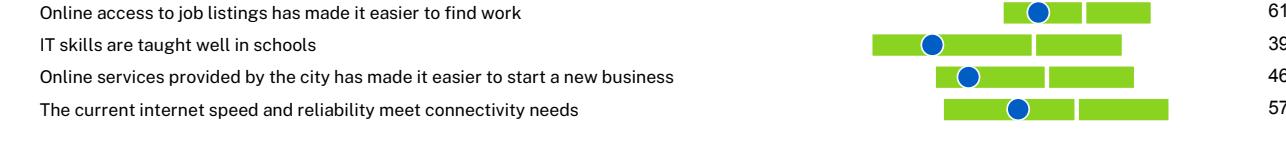
### Mobility



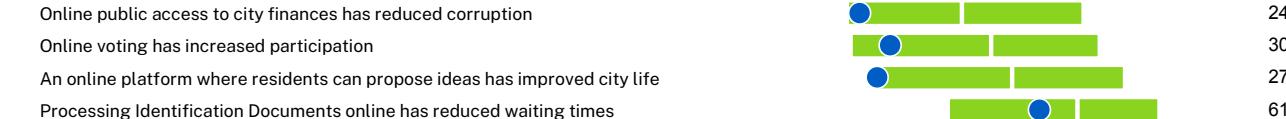
### Activities



### Opportunities (Work & School)



### Governance



# Hamburg

SMART  
CITY  
RANKING  
**20**  
Out of 146

14 in 2024  
Out of 142

SMART  
CITY RATING

**AA**

BBB in 2024

FACTOR  
RATINGS

**A**

STRUCTURES

**BBB**

TECHNOLOGIES

GROUP

**1**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

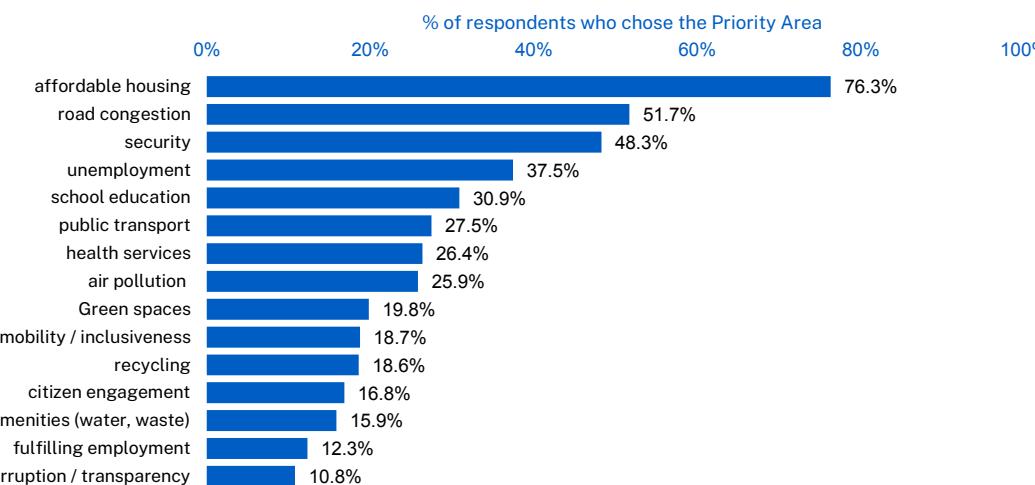
Population 1,790,000  
(UN World Urbanization Prospects)  
HDI 0.975  
(Global Data Lab)



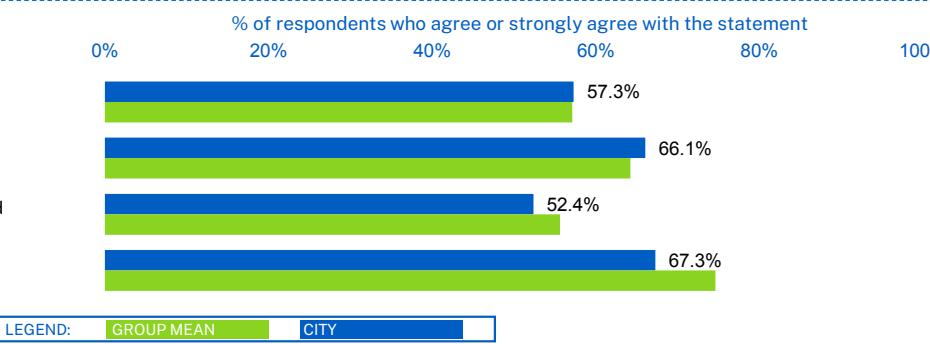
### Country

| Germany                     | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.941  | 0.941  | 0.944  | 0.946  | +0.002      |
| Life expectancy at birth    | 81.6   | 81.1   | 80.6   | 81.0   | +0.4        |
| Expected years of schooling | 17.2   | 17.2   | 17.3   | 17.3   | +0.0        |
| Mean years of schooling     | 14.2   | 14.3   | 14.3   | 14.3   | +0.0        |
| GNI per capita (PPP \$)     | 55,685 | 53,375 | 55,057 | 55,340 | +284        |

## PRIORITY AREAS



## ATTITUDES

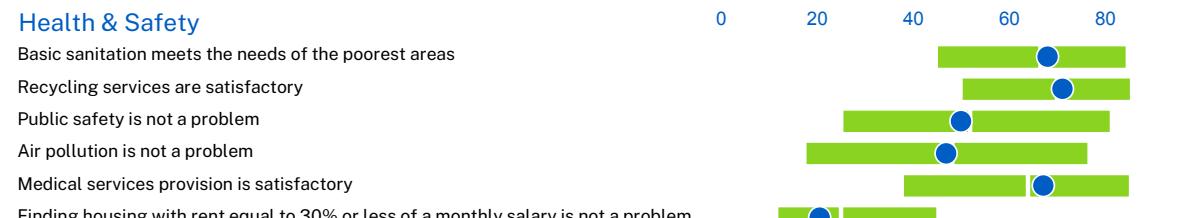


LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

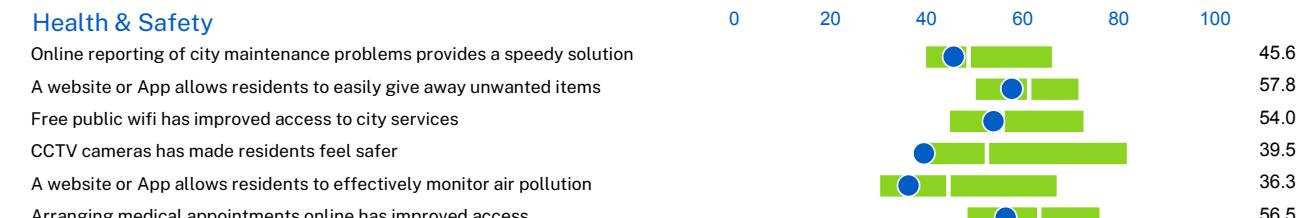
## STRUCTURES

### Score



## TECHNOLOGIES

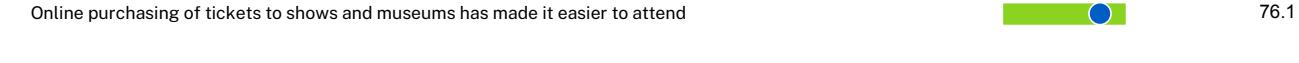
### Score



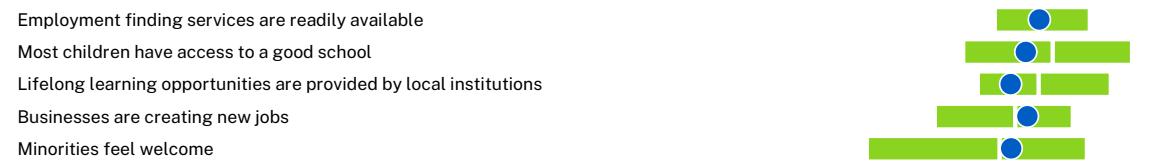
## ACTIVITIES



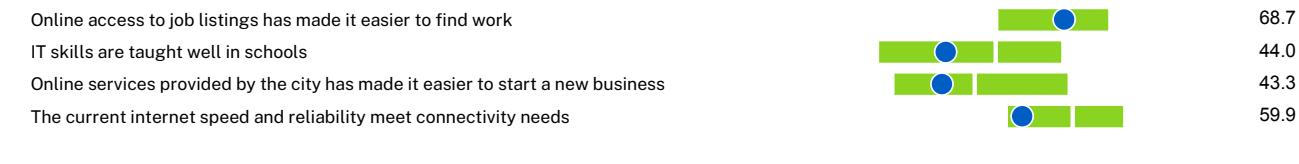
## ACTIVITIES



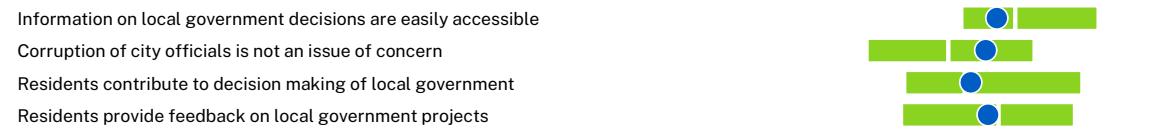
## OPPORTUNITIES (WORK & SCHOOL)



## OPPORTUNITIES (WORK & SCHOOL)



## Governance



# Hangzhou

SMART  
CITY  
RANKING  
**54**

Out of 146



64 in 2024  
Out of 142

SMART  
CITY RATING

**CCC**

CCC in 2024

FACTOR  
RATINGS

**CCC**

STRUCTURES

**CCC**

TECHNOLOGIES

GROUP



All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 8,420,000  
(UN World Urbanization Prospects)

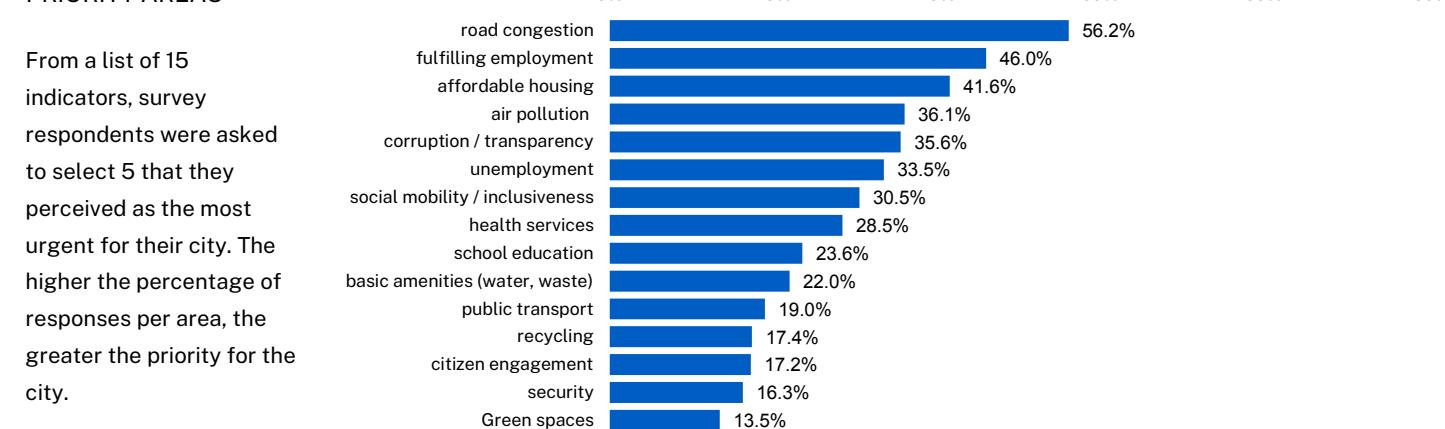
HDI 0.814  
(Global Data Lab)



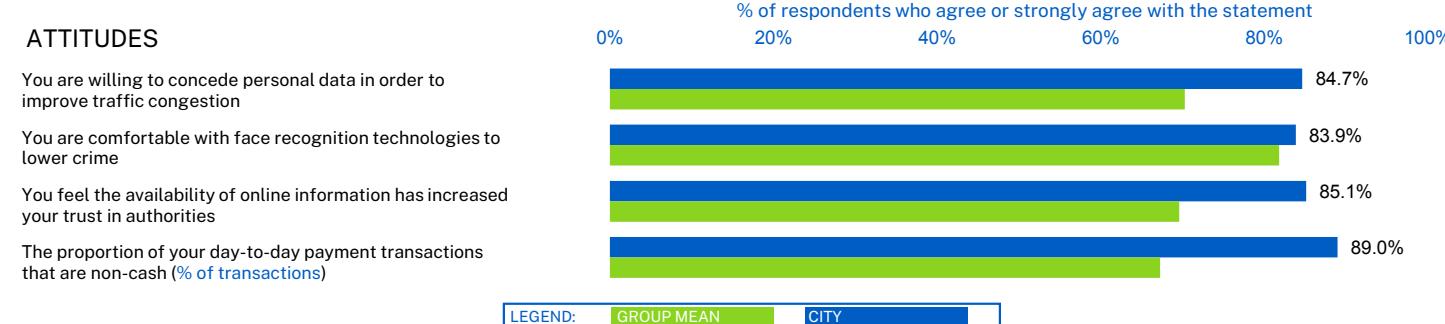
### Country

| China                       | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.741  | 0.749  | 0.757  | 0.766  | +0.009      |
| Life expectancy at birth    | 78.0   | 78.1   | 78.2   | 78.6   | +0.4        |
| Expected years of schooling | 15.0   | 15.2   | 15.2   | 15.2   | +0.0        |
| Mean years of schooling     | 8.0    | 8.1    | 8.1    | 8.1    | +0.0        |
| GNI per capita (PPP \$)     | 15,934 | 16,168 | 17,499 | 18,025 | +526        |

## PRIORITY AREAS



## ATTITUDES

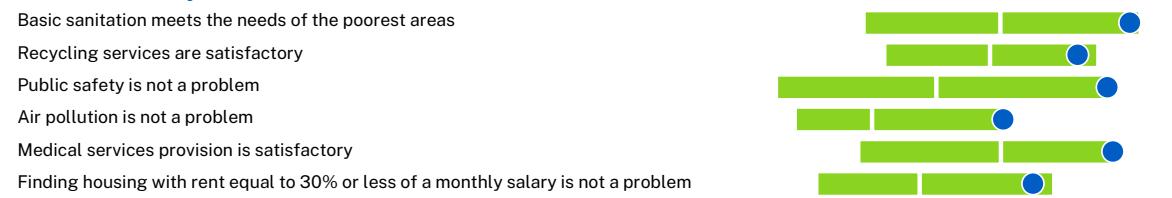


LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



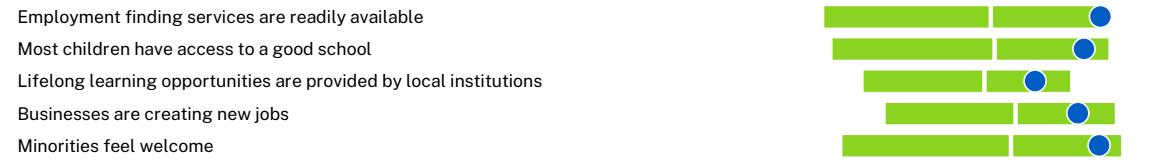
### Mobility



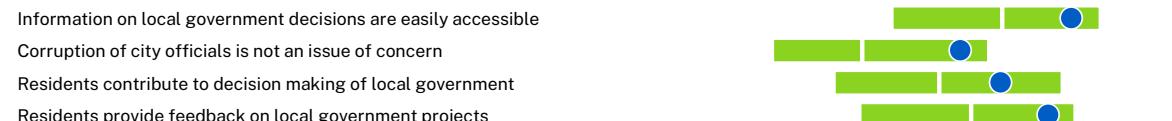
### Activities



### Opportunities (Work & School)



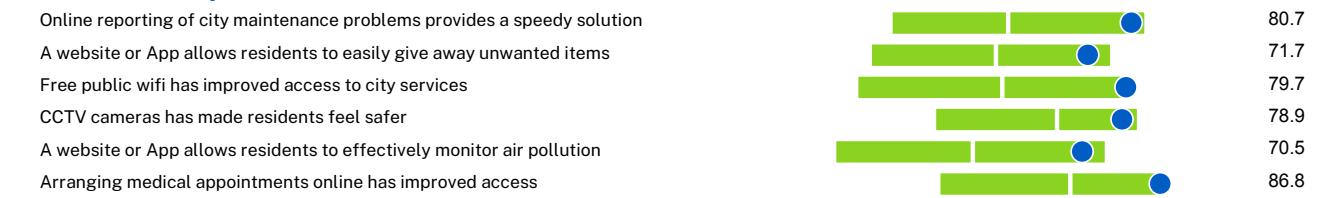
### Governance



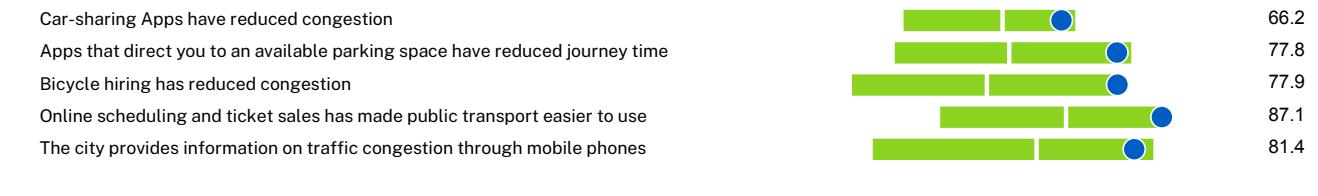
## TECHNOLOGIES

Score

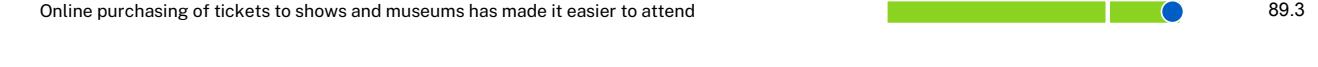
### Health & Safety



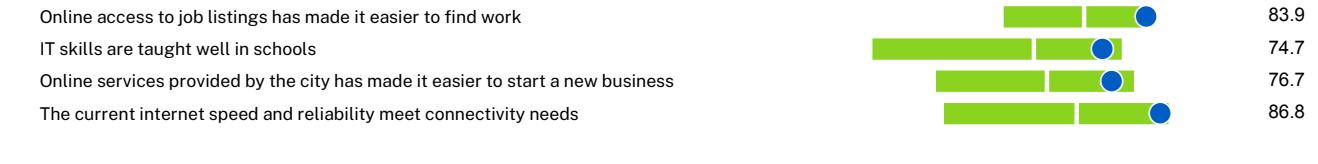
### Mobility



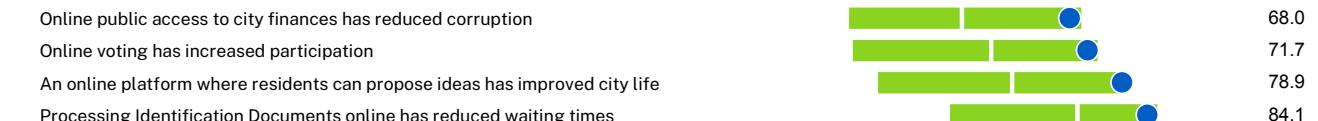
### Activities



### Opportunities (Work & School)



### Governance



# Hanoi

SMART  
CITY  
RANKING

**88**

Out of 146



97 in 2024  
Out of 142

SMART  
CITY RATING

**CCC**

CCC in 2024

FACTOR  
RATINGS

**CCC**

STRUCTURES

**CCC**

TECHNOLOGIES

**4**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

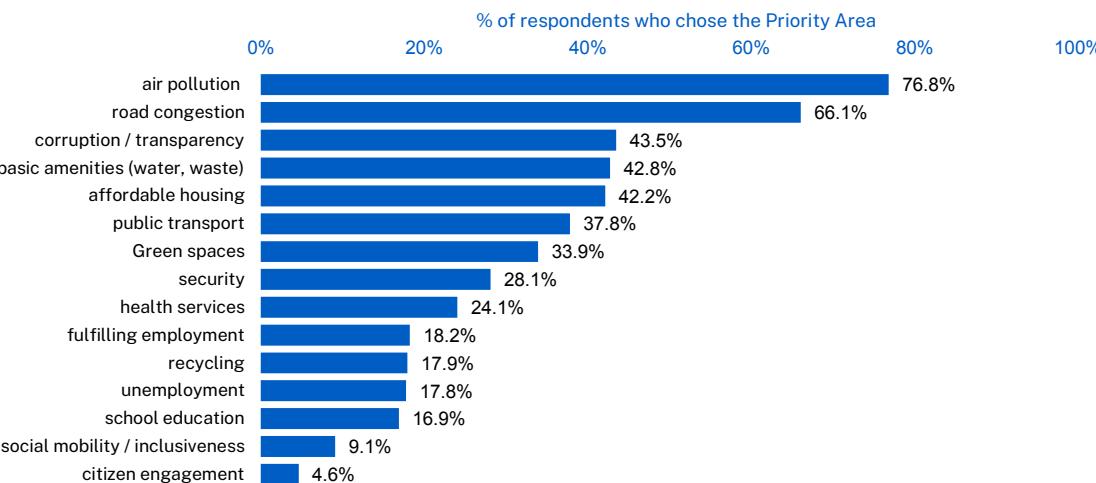
Population 5,430,000  
(UN World Urbanization Prospects)



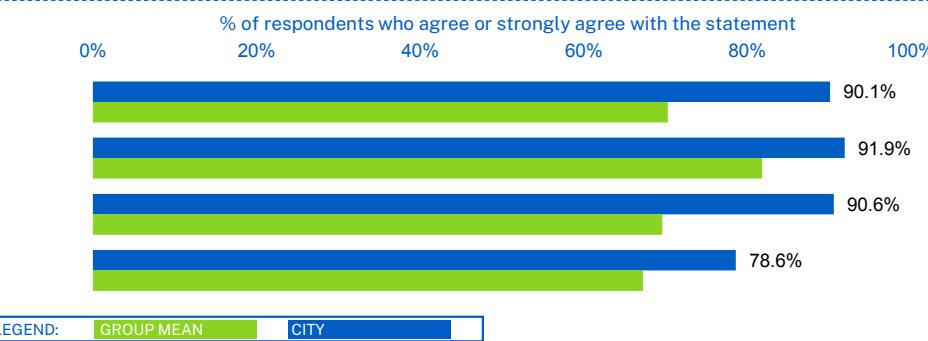
### Country

| Viet Nam                    | 2019  | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|-------|--------|--------|--------|-------------|
| HDI                         | 0.697 | 0.702  | 0.706  | 0.711  | +0.005      |
| Life expectancy at birth    | 74.1  | 75.4   | 73.6   | 74.6   | +1.0        |
| Expected years of schooling | 13.0  | 13.1   | 13.1   | 13.1   | +0.0        |
| Mean years of schooling     | 8.4   | 8.5    | 8.5    | 8.5    | +0.0        |
| GNI per capita (PPP \$)     | 9,734 | 10,005 | 10,085 | 10,814 | +729        |

## PRIORITY AREAS



## ATTITUDES

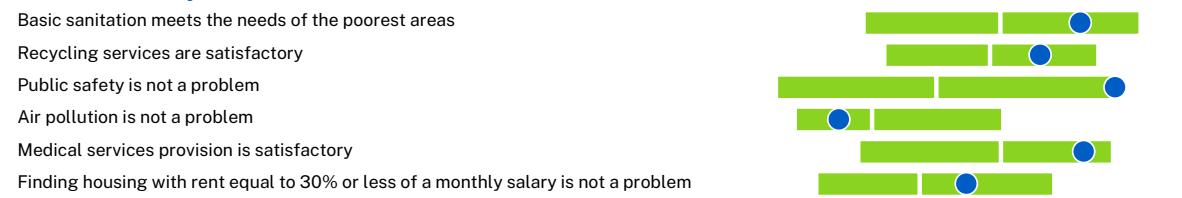


LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



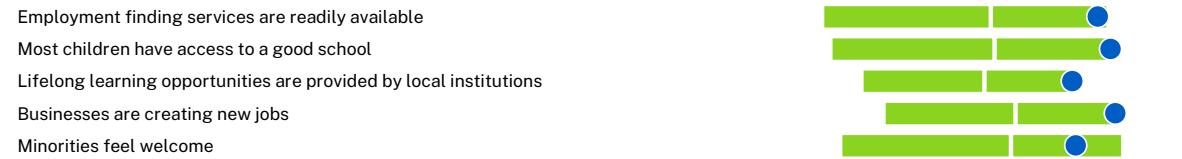
### Mobility



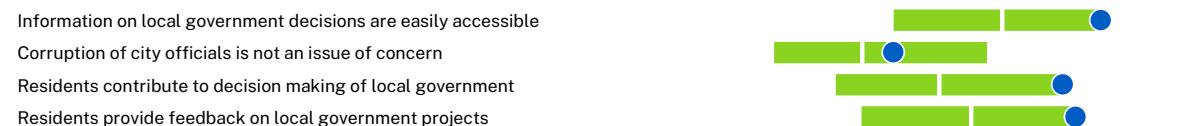
### Activities



### Opportunities (Work & School)



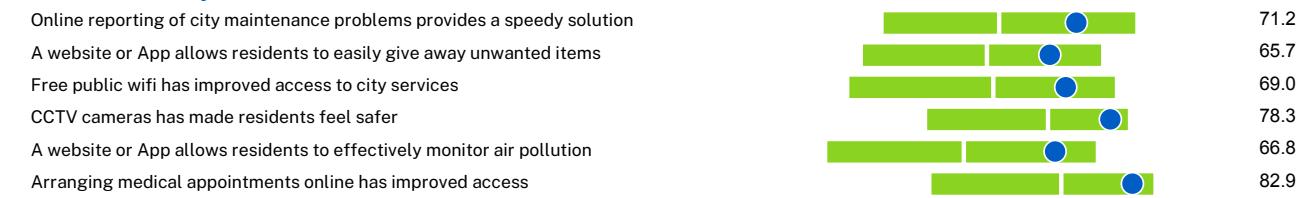
### Governance



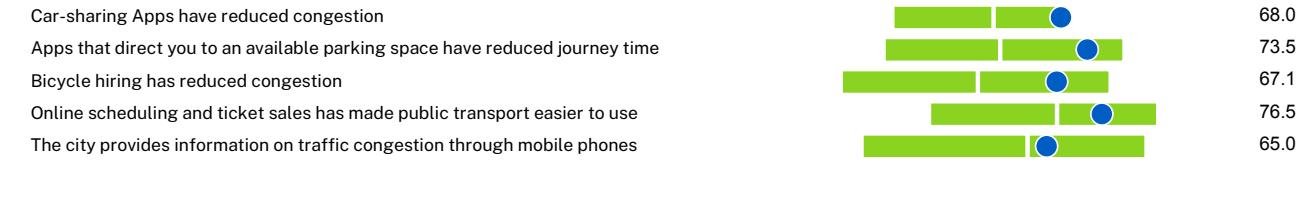
## TECHNOLOGIES

Score

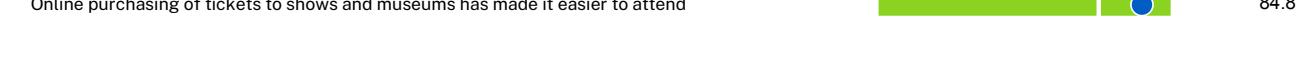
### Health & Safety



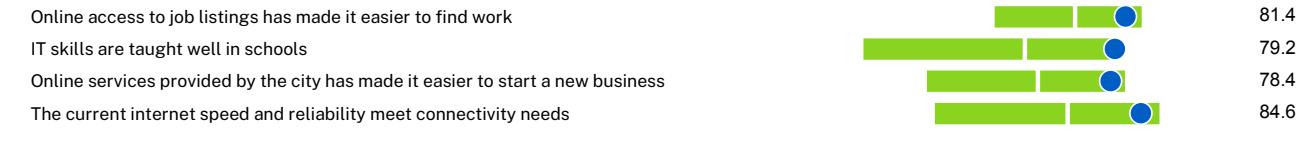
### Mobility



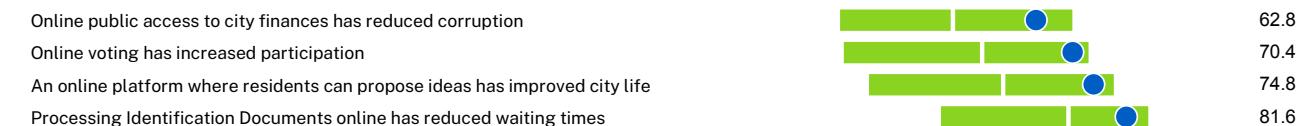
### Activities



### Opportunities (Work & School)



### Governance



# Hanover

SMART  
CITY  
RANKING  
**59**

Out of 146



53 in 2024  
Out of 142

SMART  
CITY RATING



BB in 2024

FACTOR  
RATINGS  
**BBB**

STRUCTURES



TECHNOLOGIES

GROUP  
**2**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 5,160,000  
(UN World Urbanization Prospects)

HDI 0.936  
(Global Data Lab)

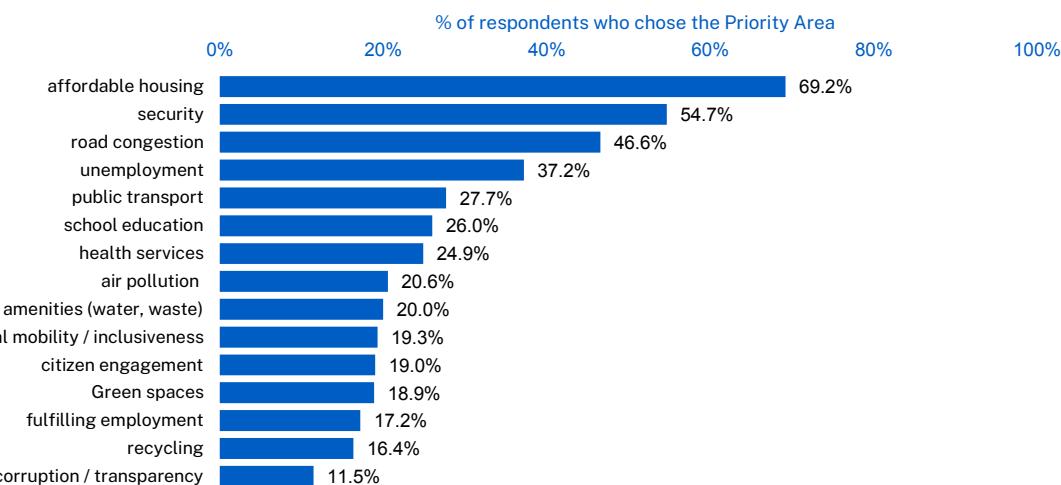


Map tiles by Stamen Design CC BY 3.0 Map Data © OpenStreetMap

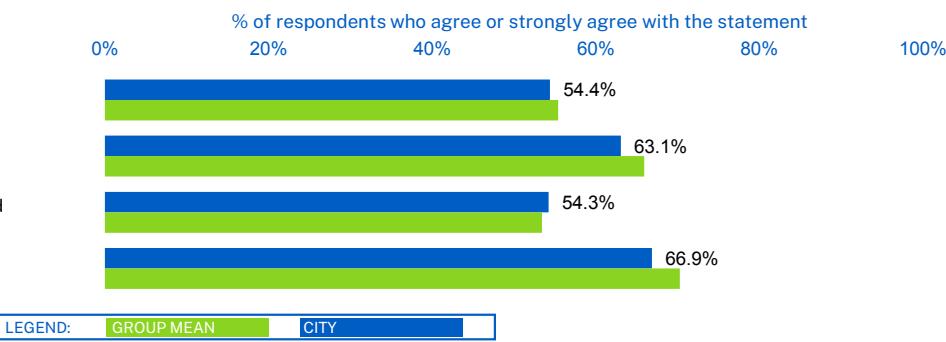
### Country

| Germany                     | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.941  | 0.941  | 0.944  | 0.946  | +0.002      |
| Life expectancy at birth    | 81.6   | 81.1   | 80.6   | 81.0   | +0.4        |
| Expected years of schooling | 17.2   | 17.2   | 17.3   | 17.3   | +0.0        |
| Mean years of schooling     | 14.2   | 14.3   | 14.3   | 14.3   | +0.0        |
| GNI per capita (PPP \$)     | 55,685 | 53,375 | 55,057 | 55,340 | +284        |

## PRIORITY AREAS



## ATTITUDES



LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

Score

0 20 40 60 80 100

### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem

## TECHNOLOGIES

Score

0 20 40 60 80 100

### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access

40.4

63.1

### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones

39.4

42.3

### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend

48.0

66.3

### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs

52.6

73.2

69.1

47.6

### Opportunities (Work & School)

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times

45.4

63.0

### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects

38.4

47.5

### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times

43.3

50.8

30.8

# Helsinki

SMART  
CITY  
RANKING  
**11**

Out of 146

9 in 2024  
Out of 142

SMART  
CITY RATING

**AA**

AA in 2024

FACTOR  
RATINGS

**AA**

STRUCTURES

**AA**

TECHNOLOGIES

**1**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 1,350,000  
(UN World Urbanization Prospects)

HDI 0.961  
(Global Data Lab)

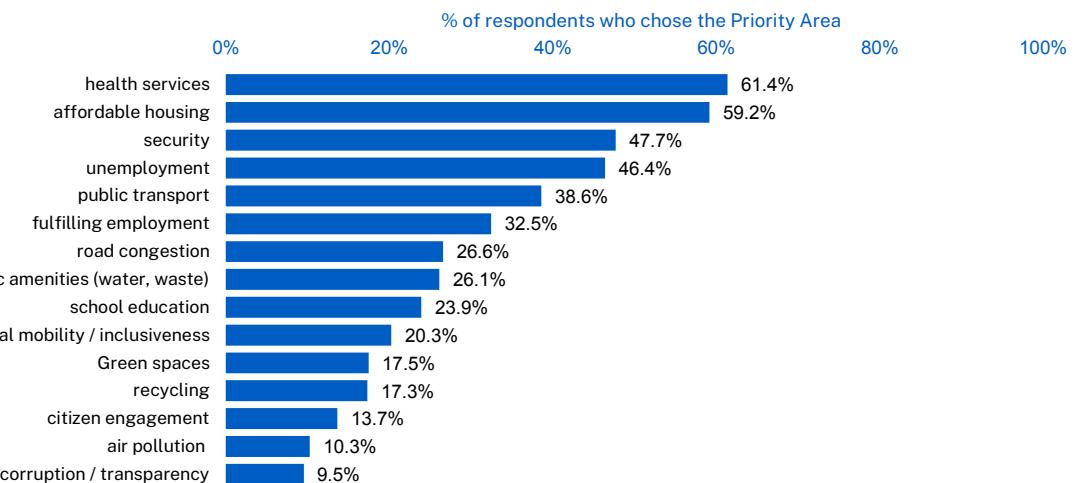


### Country

| Finland                     | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.930  | 0.931  | 0.934  | 0.936  | +0.002      |
| Life expectancy at birth    | 81.9   | 81.9   | 82.0   | 82.4   | +0.3        |
| Expected years of schooling | 19.0   | 19.0   | 19.2   | 19.2   | +0.0        |
| Mean years of schooling     | 12.9   | 12.9   | 12.9   | 12.9   | +0.0        |
| GNI per capita (PPP \$)     | 48,829 | 48,176 | 49,481 | 49,522 | +42         |

## PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. The higher the percentage of responses per area, the greater the priority for the city.



## ATTITUDES

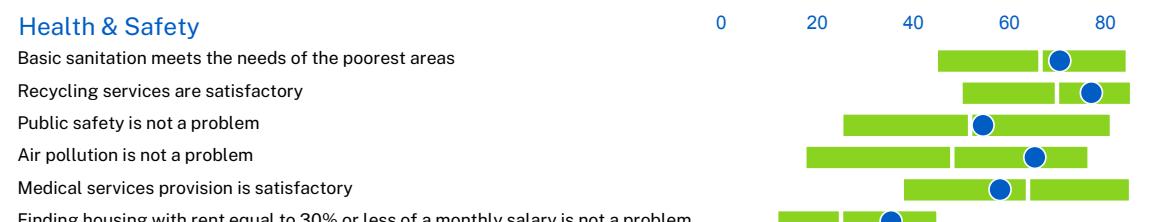


LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

Score



## Mobility

Score



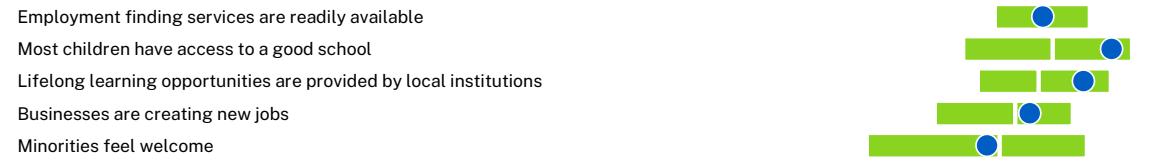
## Activities

Score



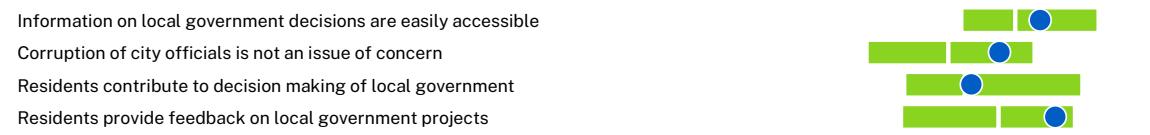
## Opportunities (Work & School)

Score



## Governance

Score



0% 20% 40% 60% 80% 100% % of respondents who agree or strongly agree with the statement

0% 20% 40% 60% 80% 100% % of respondents who agree or strongly agree with the statement

0% 20% 40% 60% 80% 100% % of respondents who agree or strongly agree with the statement

0% 20% 40% 60% 80% 100% % of respondents who agree or strongly agree with the statement

LEGEND: MIN CITY MEAN GROUP MAX

Score

# Ho Chi Minh City

SMART  
CITY  
RANKING  
**101**  
Out of 146



105 in 2024  
Out of 142

SMART  
CITY RATING

**CCC**

CC in 2024

FACTOR  
RATINGS

**CCC**

STRUCTURES

**CC**

TECHNOLOGIES

GROUP

**4**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

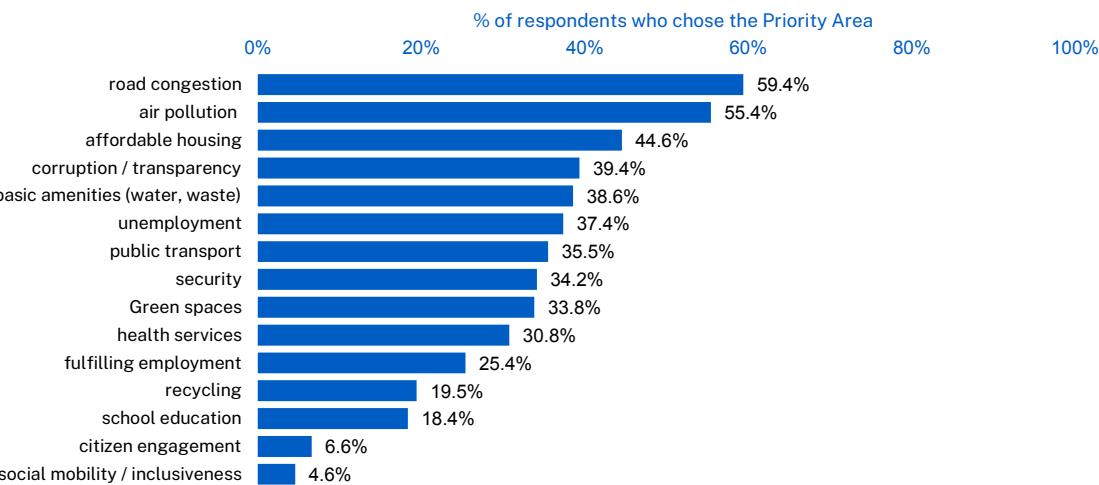
Population 9,570,000  
(UN World Urbanization Prospects)  
HDI 0.737  
(Global Data Lab)



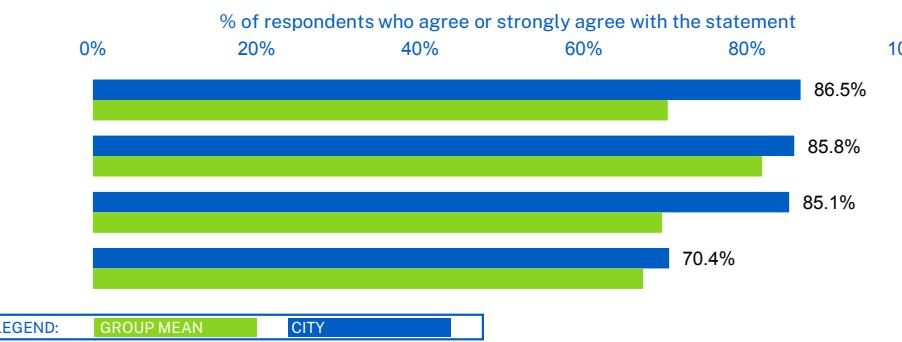
### Country

| Viet Nam                    | 2019  | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|-------|--------|--------|--------|-------------|
| HDI                         | 0.697 | 0.702  | 0.706  | 0.711  | +0.005      |
| Life expectancy at birth    | 74.1  | 75.4   | 73.6   | 74.6   | +1.0        |
| Expected years of schooling | 13.0  | 13.1   | 13.1   | 13.1   | +0.0        |
| Mean years of schooling     | 8.4   | 8.5    | 8.5    | 8.5    | +0.0        |
| GNI per capita (PPP \$)     | 9,734 | 10,005 | 10,085 | 10,814 | +729        |

## PRIORITY AREAS



## ATTITUDES

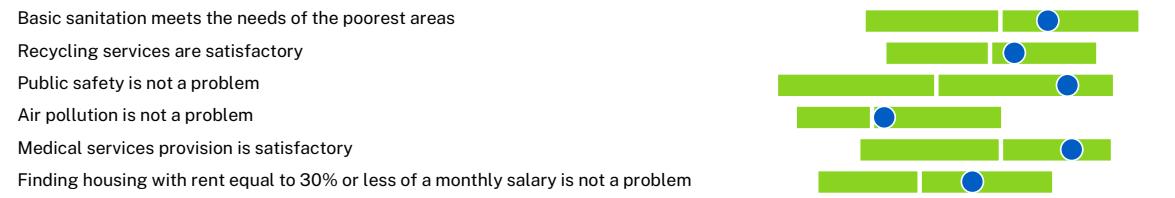


LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



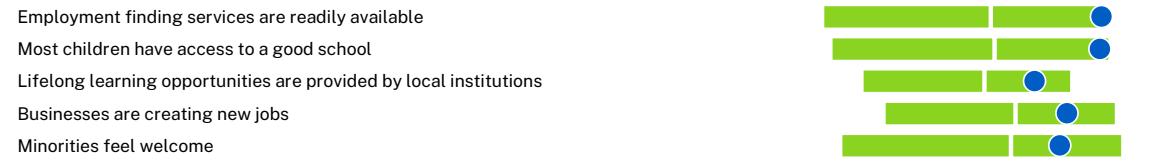
### Mobility



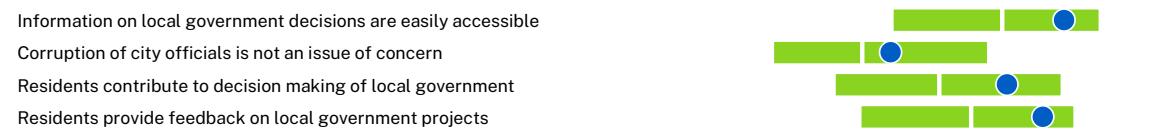
### Activities



### Opportunities (Work & School)



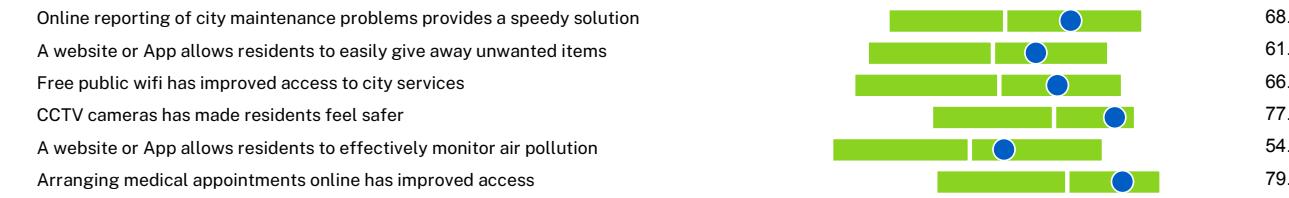
### Governance



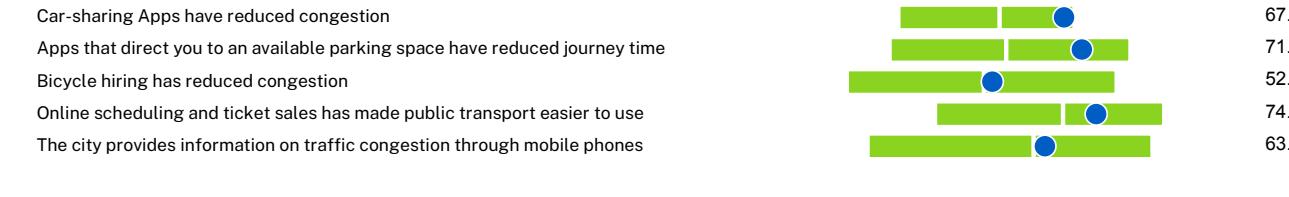
## TECHNOLOGIES

Score

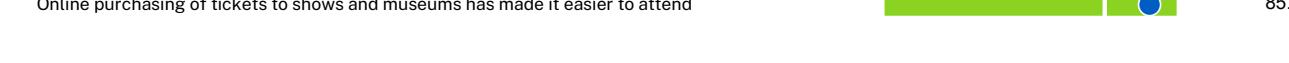
### Health & Safety



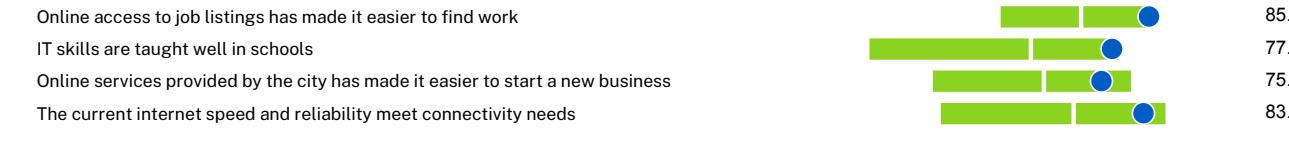
### Mobility



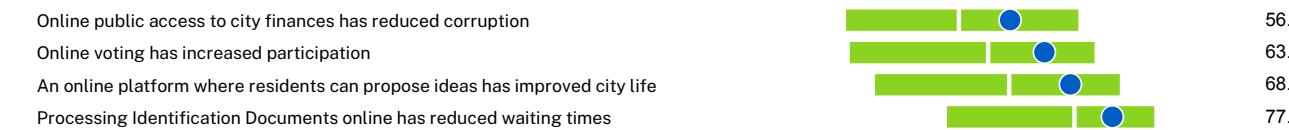
### Activities



### Opportunities (Work & School)



### Governance



# Hong Kong

SMART  
CITY  
RANKING

**19**

Out of 146



20 in 2024  
Out of 142

SMART  
CITY RATING

**BBB**

A in 2024

FACTOR  
RATINGS

**A**

STRUCTURES

**AAA**

TECHNOLOGIES

GROUP

**1**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 7,730,000  
(UN World Urbanization Prospects)

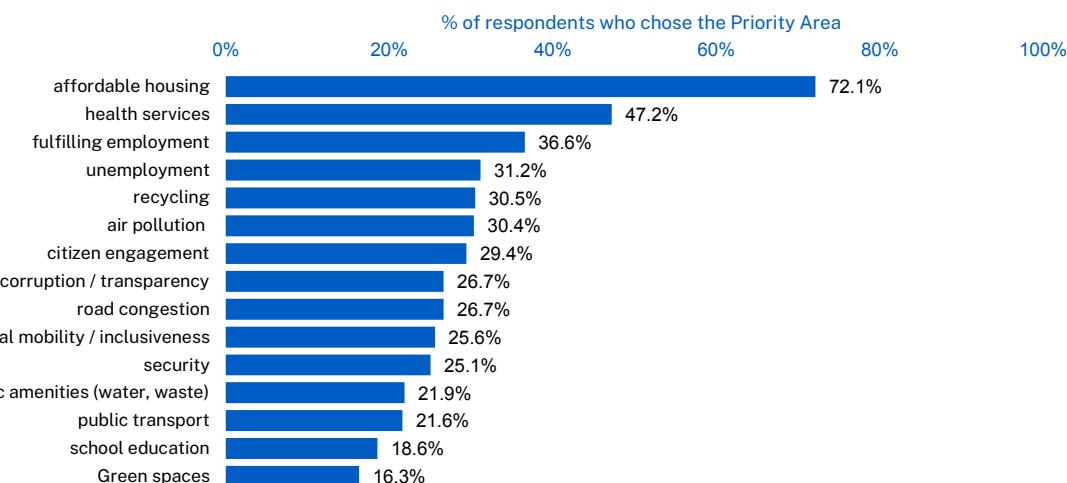
HDI 0.956  
(Global Data Lab)



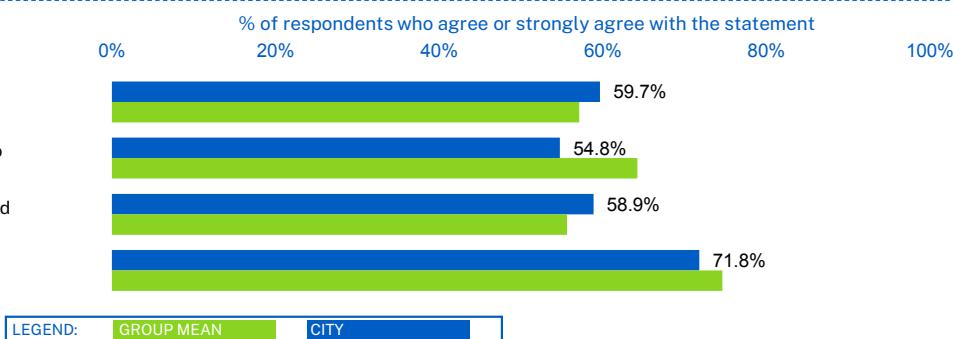
### Country

| Hong Kong, China (SAR)      | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.936  | 0.939  | 0.946  | 0.949  | +0.003      |
| Life expectancy at birth    | 85.3   | 85.2   | 85.5   | 84.3   | -1.2        |
| Expected years of schooling | 17.3   | 17.8   | 17.7   | 17.8   | +0.1        |
| Mean years of schooling     | 12.2   | 12.3   | 12.3   | 12.3   | +0.0        |
| GNI per capita (PPP \$)     | 63,277 | 59,537 | 64,151 | 62,486 | -1,665      |

## PRIORITY AREAS



## ATTITUDES



LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

Score

| Health & Safety   | Score |
|---|-------|
| Basic sanitation meets the needs of the poorest areas                               | 72.3  |
| Recycling services are satisfactory   | 54.0  |
| Public safety is not a problem  | 62.1  |
| Air pollution is not a problem  | 37.9  |
| Medical services provision is satisfactory  | 60.2  |
| Finding housing with rent equal to 30% or less of a monthly salary is not a problem | 24.9  |

## Mobility

| Mobility                            | Score |
|-------------------------------------|-------|
| Traffic congestion is not a problem | 32.6  |
| Public transport is satisfactory    | 66.2  |

## Activities

| Activities  | Score |
|---|-------|
| Green spaces are satisfactory                                   | 54.3  |
| Cultural activities (shows, bars, and museums) are satisfactory | 59.6  |

## Opportunities (Work & School)

| Opportunities (Work & School)                                      | Score |
|--|-------|
| Employment finding services are readily available                  | 65.6  |
| Most children have access to a good school                         | 66.0  |
| Lifelong learning opportunities are provided by local institutions | 68.0  |
| Businesses are creating new jobs                                   | 58.6  |
| Minorities feel welcome  | 56.0  |

## Governance

| Governance  | Score |
|---|-------|
| Information on local government decisions are easily accessible | 62.8  |
| Corruption of city officials is not an issue of concern         | 45.9  |
| Residents contribute to decision making of local government     | 46.1  |
| Residents provide feedback on local government projects         | 56.3  |

## TECHNOLOGIES

Score

| Health & Safety  | Score |
|--|-------|
| Online reporting of city maintenance problems provides a speedy solution | 54.5  |
| A website or App allows residents to easily give away unwanted items     | 59.0  |
| Free public wifi has improved access to city services                    | 67.5  |
| CCTV cameras has made residents feel safer                               | 60.6  |
| A website or App allows residents to effectively monitor air pollution   | 62.0  |
| Arranging medical appointments online has improved access                | 68.2  |

## Mobility

| Mobility   | Score |
|--|-------|
| Car-sharing Apps have reduced congestion                                     | 48.2  |
| Apps that direct you to an available parking space have reduced journey time | 55.5  |
| Bicycle hiring has reduced congestion  | 42.6  |
| Online scheduling and ticket sales has made public transport easier to use   | 65.6  |
| The city provides information on traffic congestion through mobile phones    | 73.4  |

## Activities

| Activities   | Score |
|--|-------|
| Online purchasing of tickets to shows and museums has made it easier to attend | 73.1  |

## Opportunities (Work & School)

| Opportunities (Work & School)   | Score |
|---|-------|
| Online access to job listings has made it easier to find work                   | 74.3  |
| IT skills are taught well in schools  | 63.7  |
| Online services provided by the city has made it easier to start a new business | 61.3  |
| The current internet speed and reliability meet connectivity needs              | 80.7  |

## Governance

| Governance  | Score |
|---|-------|
| Online public access to city finances has reduced corruption                | 56.3  |
| Online voting has increased participation                                   | 45.8  |
| An online platform where residents can propose ideas has improved city life | 51.7  |
| Processing Identification Documents online has reduced waiting times        | 72.2  |

All ratings range from AAA to D

# Hyderabad

SMART  
CITY  
RANKING  
**109**

Out of 146



111 in 2024  
Out of 142

SMART  
CITY RATING

**CCC**

CC in 2024

FACTOR  
RATINGS

**CC**

STRUCTURES

**CC**

TECHNOLOGIES

GROUP



All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

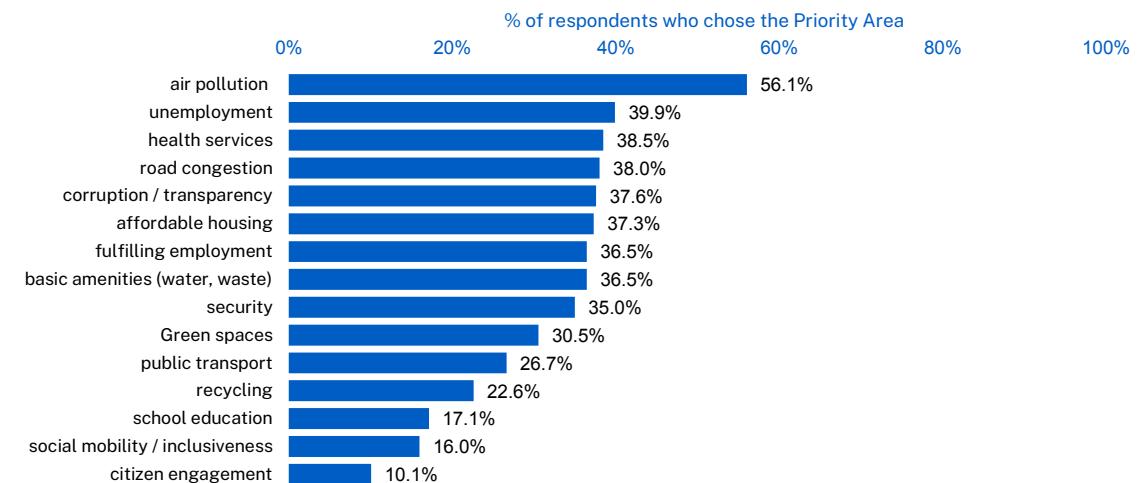
Population 11,070,000  
(UN World Urbanization Prospects)

HDI 0.660  
(Global Data Lab)



## PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. The higher the percentage of responses per area, the greater the priority for the city.



## ATTITUDES

You are willing to concede personal data in order to improve traffic congestion



You are comfortable with face recognition technologies to lower crime



You feel the availability of online information has increased your trust in authorities



The proportion of your day-to-day payment transactions that are non-cash (% of transactions)



LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem



### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory

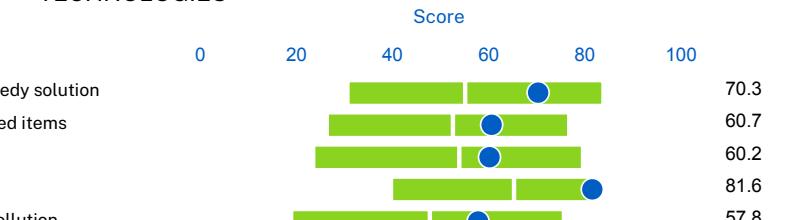
LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access

TECHNOLOGIES



### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones

STRUCTURES

### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend



### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory

TECHNOLOGIES

### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome



### Opportunities (Work & School)

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects



### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects

STRUCTURES

### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times



# Islamabad

SMART  
CITY  
RANKING  
**116**  
Out of 146

116 in 2024  
Out of 142

SMART  
CITY RATING

**CC**  
CC in 2024

FACTOR  
RATINGS

**CC**

STRUCTURES

**CC**

TECHNOLOGIES

GROUP

**4**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

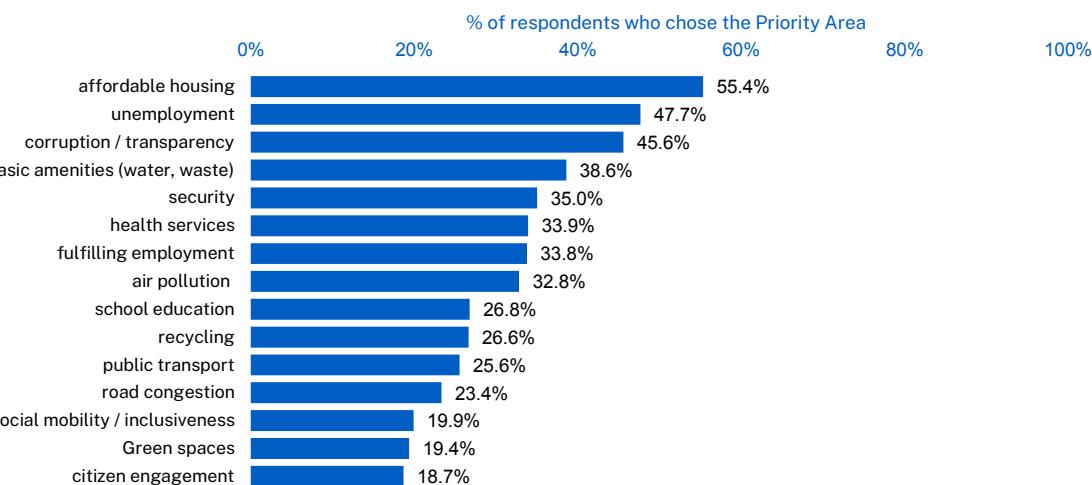
Population 1,270,000  
(UN World Urbanization Prospects)  
HDI 0.654  
(Global Data Lab)



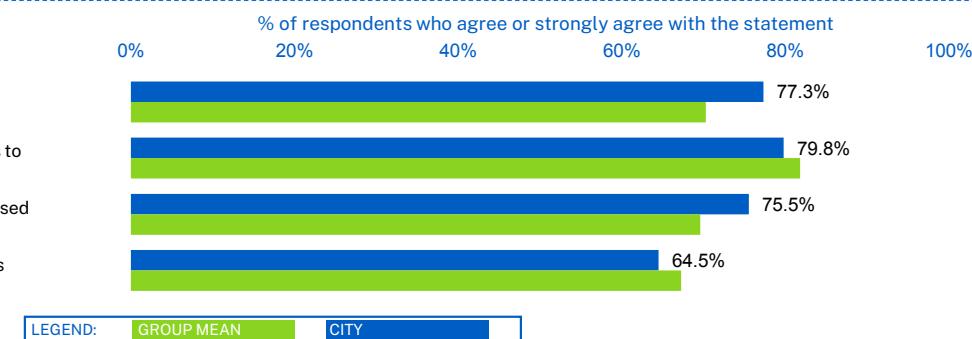
### Country

| Pakistan                    | 2019  | 2020  | 2021  | 2022  | 1 yr change |
|-----------------------------|-------|-------|-------|-------|-------------|
| HDI                         | 0.525 | 0.533 | 0.534 | 0.535 | +0.001      |
| Life expectancy at birth    | 66.8  | 66.3  | 66.1  | 66.4  | +0.3        |
| Expected years of schooling | 7.6   | 7.9   | 7.9   | 7.9   | +0.0        |
| Mean years of schooling     | 4.5   | 4.4   | 4.4   | 4.4   | +0.0        |
| GNI per capita (PPP \$)     | 5,067 | 4,912 | 5,165 | 5,374 | +209        |

## PRIORITY AREAS



## ATTITUDES



LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem



### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory



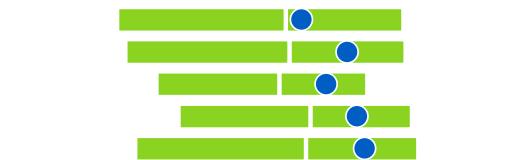
### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory



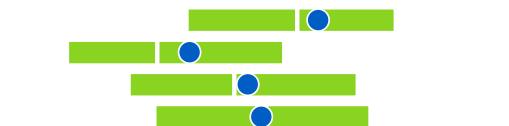
### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome



### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects



## TECHNOLOGIES



### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access

### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones

### Activities

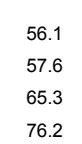
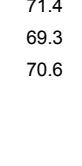
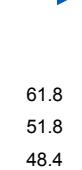
- Online purchasing of tickets to shows and museums has made it easier to attend

### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs

### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times



# Istanbul

SMART  
CITY  
RANKING  
**111**

Out of 146

110 in 2024  
Out of 142

SMART  
CITY RATING

**C**

CC in 2024

FACTOR  
RATINGS

**CC**

STRUCTURES

**CCC**

TECHNOLOGIES

GROUP

**3**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 16,050,000  
(UN World Urbanization Prospects)

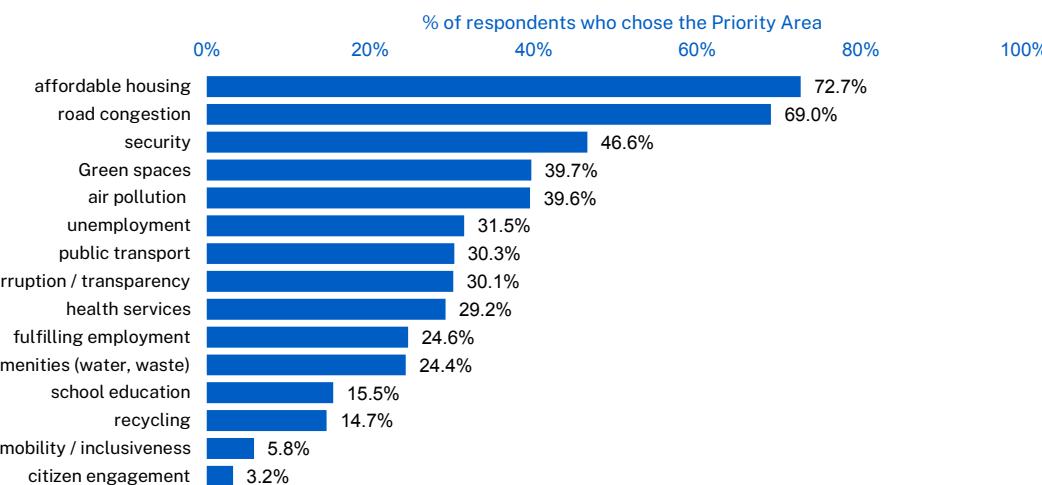


HDI 0.888  
(Global Data Lab)

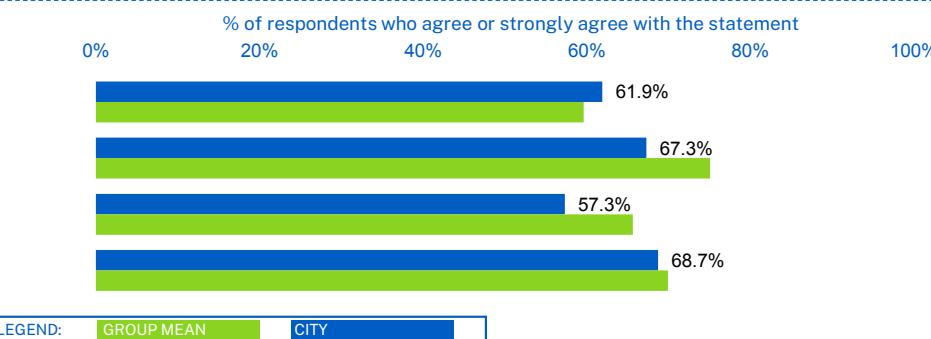
### Country

| Türkiye                     | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.821  | 0.826  | 0.833  | 0.838  | +0.005      |
| Life expectancy at birth    | 77.8   | 75.9   | 76.0   | 78.5   | +2.4        |
| Expected years of schooling | 19.2   | 19.3   | 19.7   | 19.7   | +0.0        |
| Mean years of schooling     | 8.6    | 8.8    | 8.8    | 8.8    | +0.0        |
| GNI per capita (PPP \$)     | 27,950 | 28,381 | 31,310 | 32,834 | +1,524      |

## PRIORITY AREAS



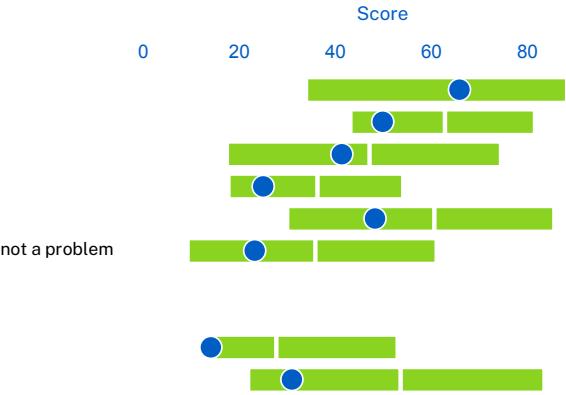
## ATTITUDES



LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX



## TECHNOLOGIES



### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem

### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory

### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory

### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome

### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects

### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access

### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones

### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend

### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs

### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times

# Jakarta

SMART  
CITY  
RANKING  
**103**  
Out of 146

103 in 2024  
Out of 142

SMART  
CITY RATING

**CC**  
CC in 2024

FACTOR  
RATINGS  
**CCC**

**CCC**  
STRUCTURES

TECHNOLOGIES

GROUP  
**4**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 11,440,000  
(UN World Urbanization Prospects)  
HDI 0.767  
(Global Data Lab)



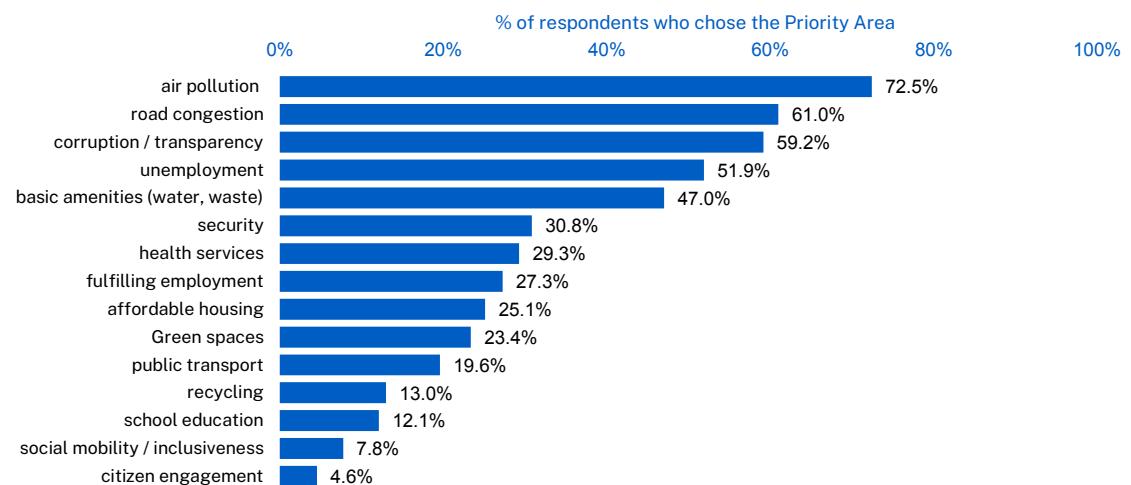
Map tiles by Stamen Design CC BY 3.0 Map Data © OpenStreetMap

### Country

| Indonesia                   | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.698  | 0.701  | 0.708  | 0.712  | +0.004      |
| Life expectancy at birth    | 70.5   | 68.8   | 67.6   | 68.3   | +0.7        |
| Expected years of schooling | 13.9   | 14.0   | 14.0   | 14.0   | +0.0        |
| Mean years of schooling     | 8.4    | 8.6    | 8.6    | 8.6    | +0.0        |
| GNI per capita (PPP \$)     | 11,498 | 11,206 | 11,531 | 12,046 | +514        |

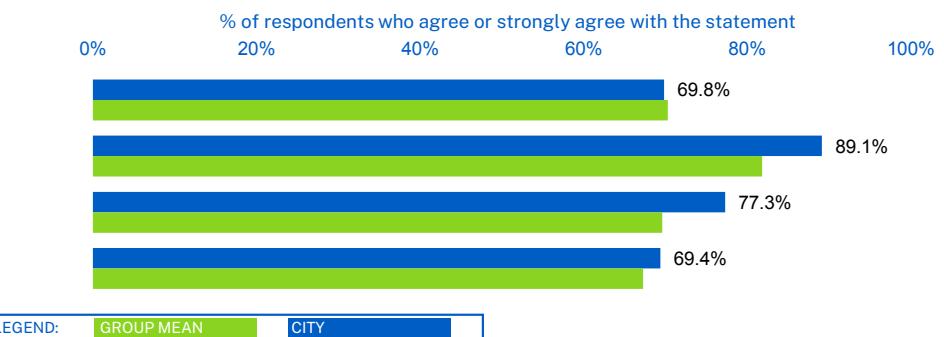
## PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. The higher the percentage of responses per area, the greater the priority for the city.



## ATTITUDES

You are willing to concede personal data in order to improve traffic congestion  
You are comfortable with face recognition technologies to lower crime  
You feel the availability of online information has increased your trust in authorities  
The proportion of your day-to-day payment transactions that are non-cash (% of transactions)



LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety

Basic sanitation meets the needs of the poorest areas  
Recycling services are satisfactory  
Public safety is not a problem  
Air pollution is not a problem  
Medical services provision is satisfactory  
Finding housing with rent equal to 30% or less of a monthly salary is not a problem



### Mobility

Traffic congestion is not a problem  
Public transport is satisfactory



### Activities

Green spaces are satisfactory  
Cultural activities (shows, bars, and museums) are satisfactory



### Opportunities (Work & School)

Employment finding services are readily available  
Most children have access to a good school  
Lifelong learning opportunities are provided by local institutions  
Businesses are creating new jobs  
Minorities feel welcome



### Governance

Information on local government decisions are easily accessible  
Corruption of city officials is not an issue of concern  
Residents contribute to decision making of local government  
Residents provide feedback on local government projects

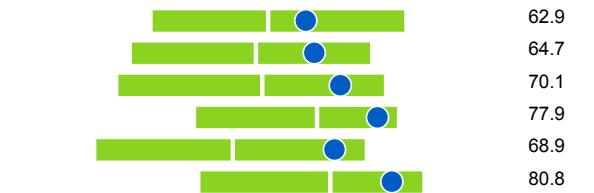


## TECHNOLOGIES

Score scale: 0, 20, 40, 60, 80, 100.

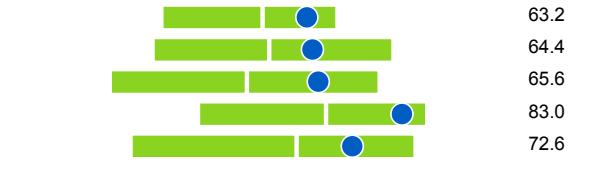
### Health & Safety

Online reporting of city maintenance problems provides a speedy solution  
A website or App allows residents to easily give away unwanted items  
Free public wifi has improved access to city services  
CCTV cameras has made residents feel safer  
A website or App allows residents to effectively monitor air pollution  
Arranging medical appointments online has improved access



### Mobility

Car-sharing Apps have reduced congestion  
Apps that direct you to an available parking space have reduced journey time  
Bicycle hiring has reduced congestion  
Online scheduling and ticket sales has made public transport easier to use  
The city provides information on traffic congestion through mobile phones



### Activities

Online purchasing of tickets to shows and museums has made it easier to attend



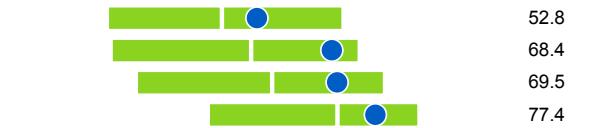
### Opportunities (Work & School)

Online access to job listings has made it easier to find work  
IT skills are taught well in schools  
Online services provided by the city has made it easier to start a new business  
The current internet speed and reliability meet connectivity needs



### Governance

Online public access to city finances has reduced corruption  
Online voting has increased participation  
An online platform where residents can propose ideas has improved city life  
Processing Identification Documents online has reduced waiting times



# Jeddah

SMART  
CITY  
RANKING

**47**

Out of 146



55 in 2024  
Out of 142

SMART  
CITY RATING

**B**

B in 2024

FACTOR  
RATINGS

**BB**

STRUCTURES

**BB**

TECHNOLOGIES

**3**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 4,940,000  
(UN World Urbanization Prospects)

HDI 0.871  
(Global Data Lab)

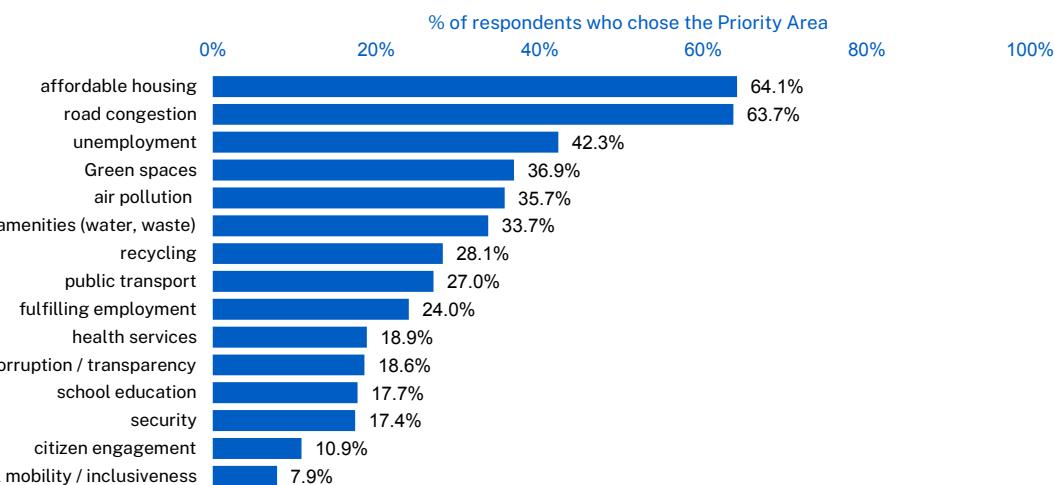


Map tiles by Stamen Design CC BY 3.0 Map Data © OpenStreetMap

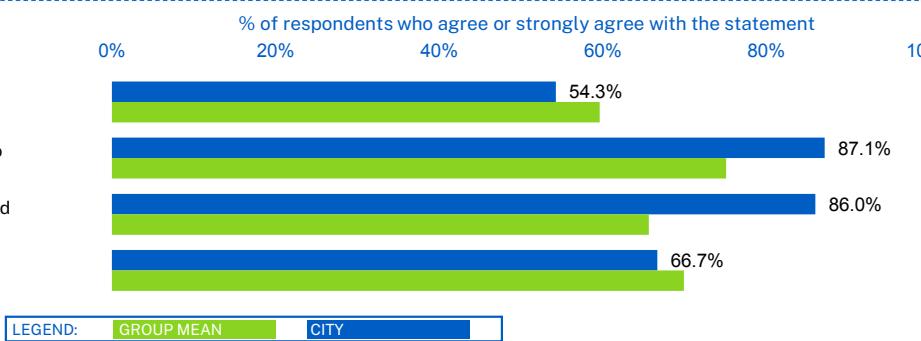
### Country

| Saudi Arabia                | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.842  | 0.846  | 0.849  | 0.856  | +0.007      |
| Life expectancy at birth    | 77.3   | 76.2   | 76.9   | 77.9   | +1.0        |
| Expected years of schooling | 15.0   | 15.2   | 15.2   | 15.2   | +0.0        |
| Mean years of schooling     | 10.9   | 11.3   | 11.3   | 11.3   | +0.0        |
| GNI per capita (PPP \$)     | 47,529 | 45,563 | 47,441 | 50,620 | +3,179      |

## PRIORITY AREAS



## ATTITUDES

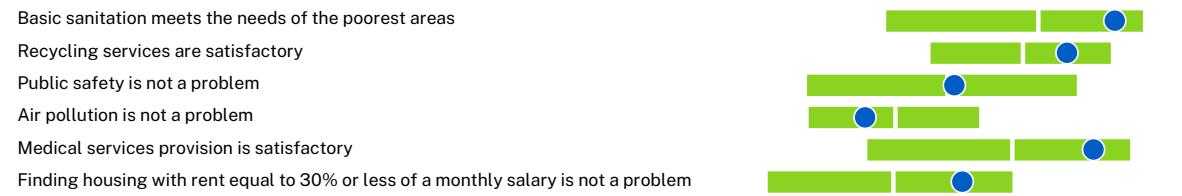


LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



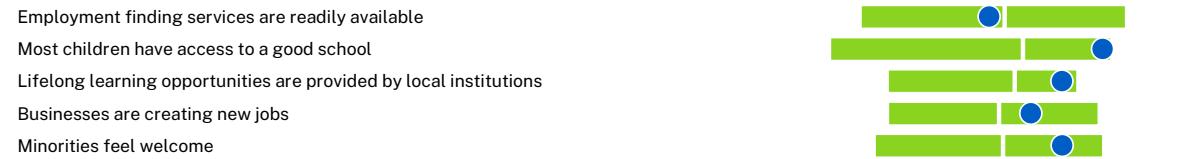
### Mobility



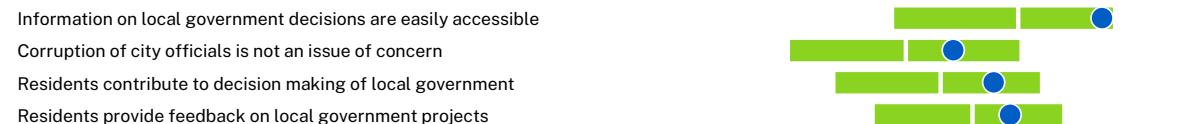
### Activities



### Opportunities (Work & School)



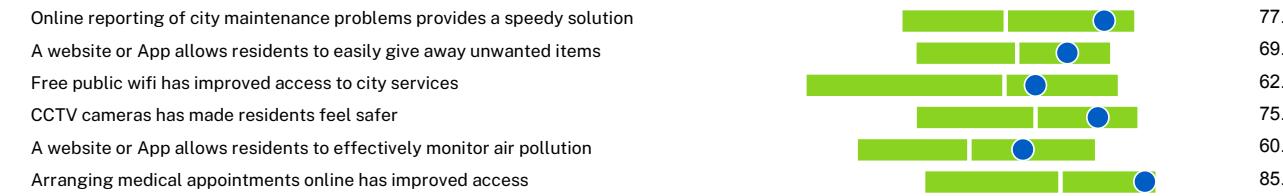
### Governance



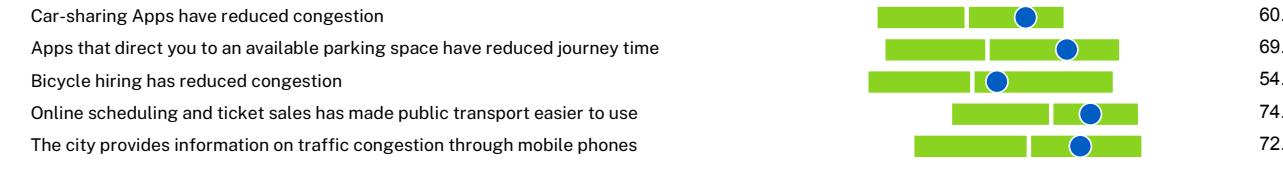
## TECHNOLOGIES

Score

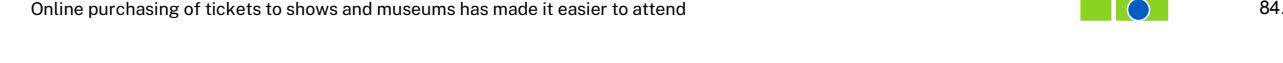
### Health & Safety



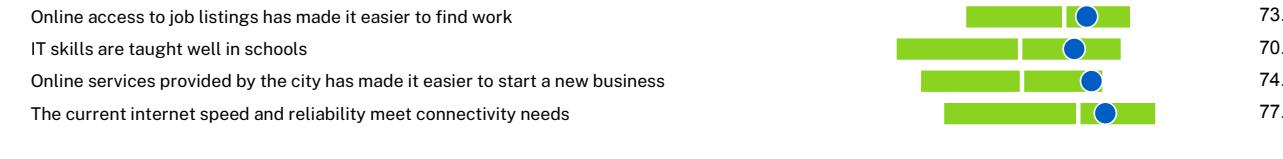
### Mobility



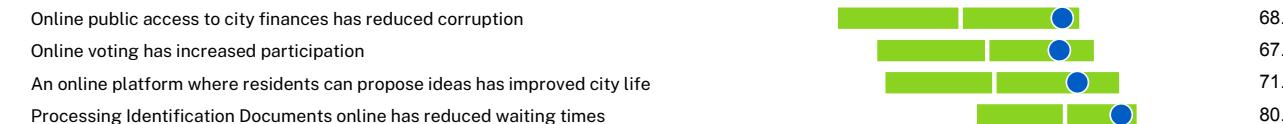
### Activities



### Opportunities (Work & School)



### Governance



**SMART  
CITY  
RANKING**

**74**

Out of 146



79 in 2024  
Out of 142

**SMART  
CITY RATING**

**BBB**

BB in 2024

**FACTOR  
RATINGS**

**BB**

**STRUCTURES**

**CCC**

**TECHNOLOGIES**

**GROUP**

**2**

All ratings range  
from AAA to D

**BACKGROUND INFORMATION**

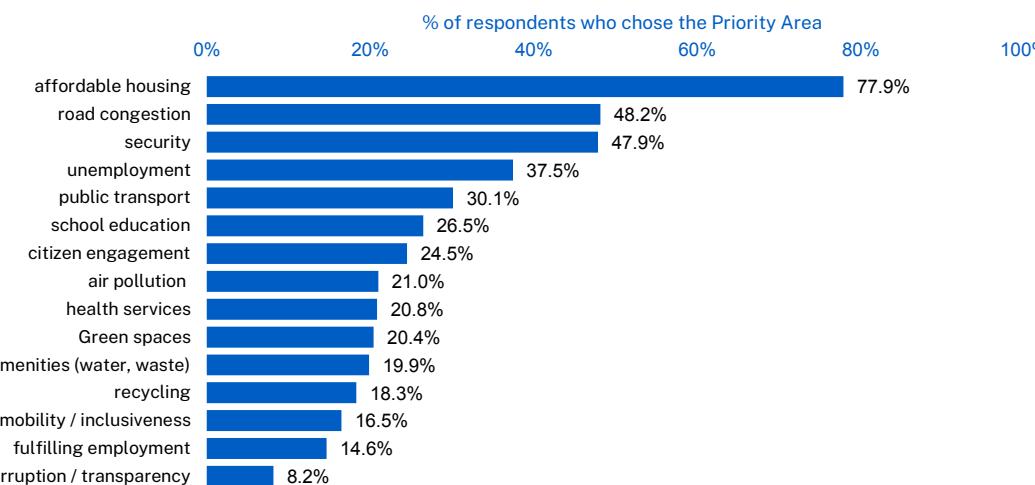
**City**

Population 230,000  
(UN World Urbanization Prospects)

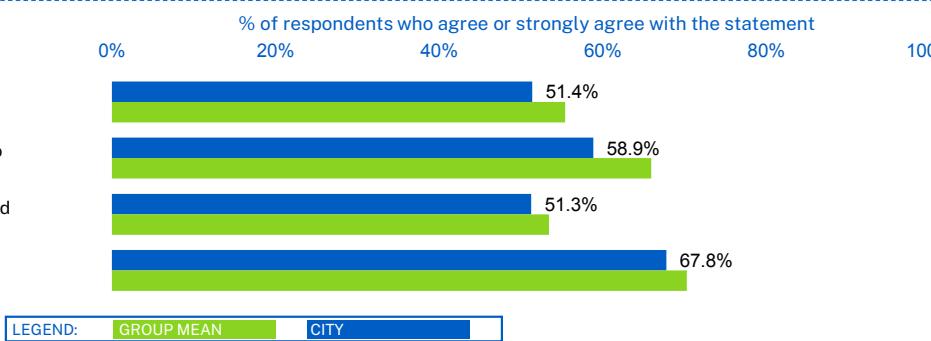
HDI 0.929  
(Global Data Lab)



**PRIORITY AREAS**



**ATTITUDES**



LEGEND: GROUP MEAN CITY

**STRUCTURES**

LEGEND: MIN CITY MEAN GROUP MAX

**Health & Safety**

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem



**Mobility**

- Traffic congestion is not a problem
- Public transport is satisfactory

**Health & Safety**

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access

**TECHNOLOGIES**



**Activities**

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory

**Mobility**

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones

**Activities**

- Online purchasing of tickets to shows and museums has made it easier to attend



**Opportunities (Work & School)**

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome

**Opportunities (Work & School)**

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs



**Governance**

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects

**Governance**

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times



# Krakow

SMART  
CITY  
RANKING  
**70**

Out of 146



76 in 2024  
Out of 142

SMART  
CITY RATING

**B**

CCC in 2024

FACTOR  
RATINGS

**B**

STRUCTURES

**B**

TECHNOLOGIES

**3**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 770,000  
(UN World Urbanization Prospects)

HDI 0.891  
(Global Data Lab)



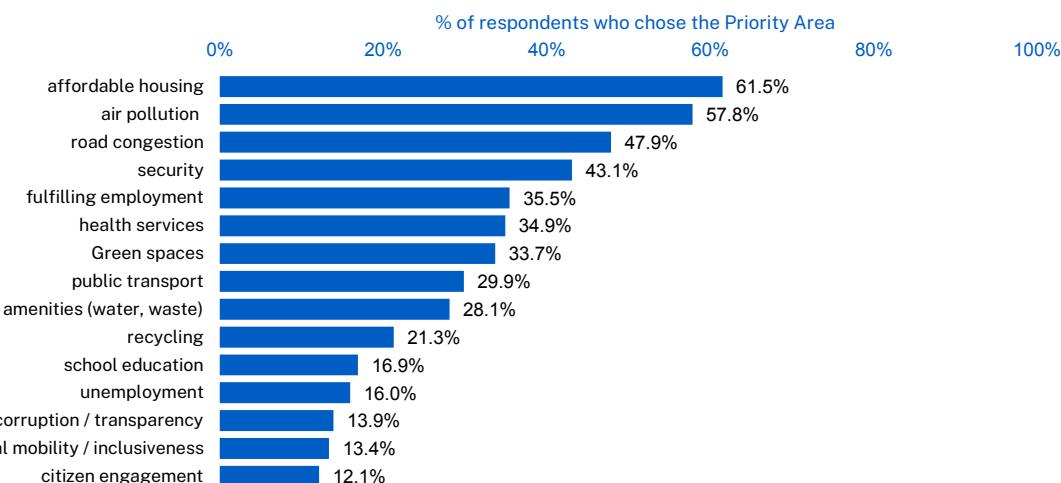
76 in 2024

Out of 142

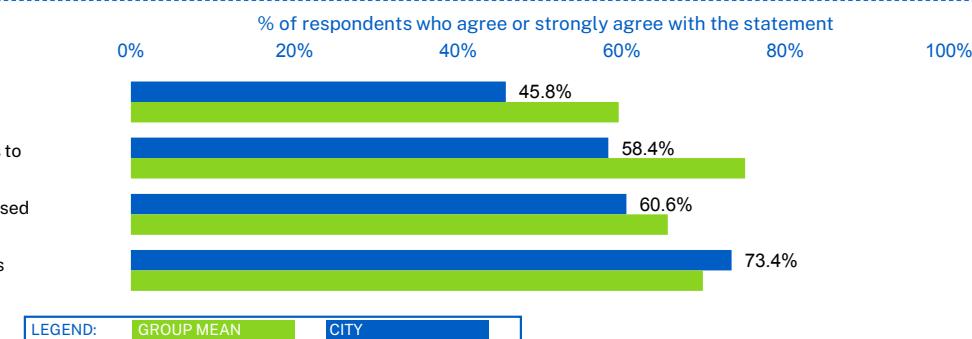
### Country

| Poland                      | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.869  | 0.872  | 0.874  | 0.876  | +0.002      |
| Life expectancy at birth    | 77.9   | 76.9   | 76.5   | 77.0   | +0.5        |
| Expected years of schooling | 15.9   | 15.8   | 15.9   | 15.9   | +0.0        |
| Mean years of schooling     | 13.1   | 13.2   | 13.2   | 13.2   | +0.0        |
| GNI per capita (PPP \$)     | 31,772 | 31,293 | 33,264 | 35,151 | +1,887      |

## PRIORITY AREAS



## ATTITUDES

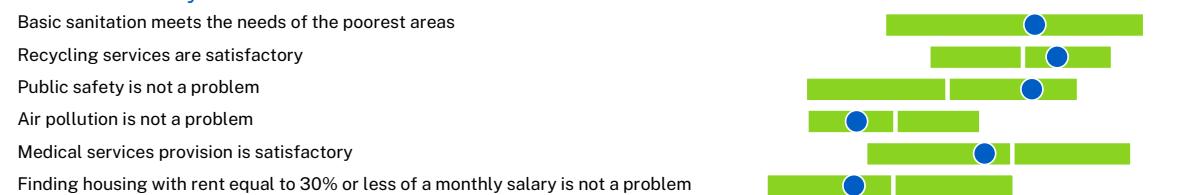


LEGEND: GROUP MEAN CITY

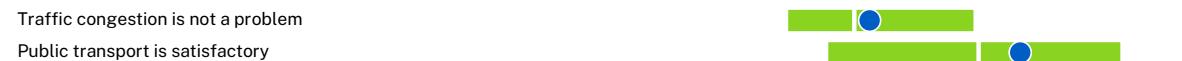
## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



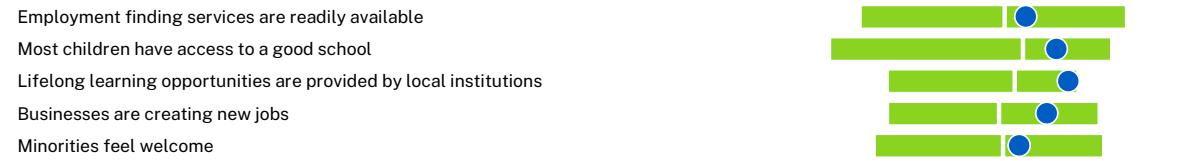
### Mobility



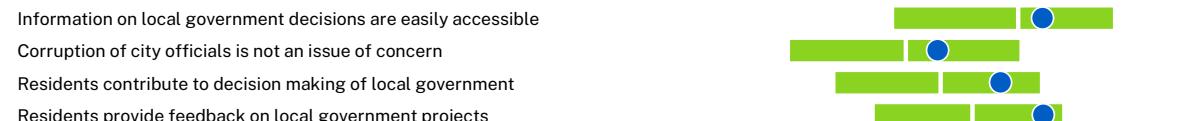
### Activities



### Opportunities (Work & School)

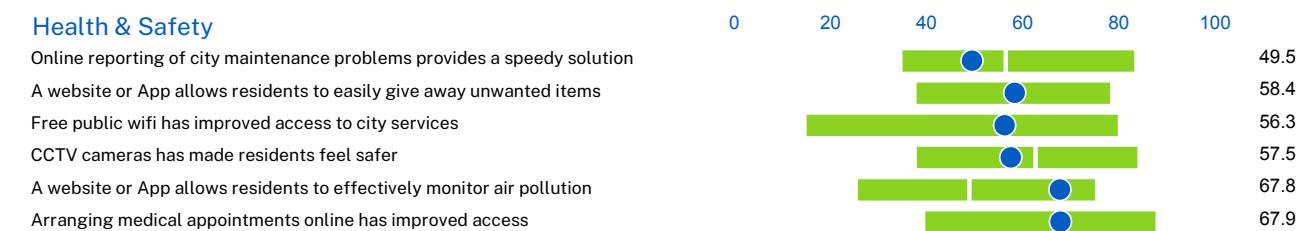


### Governance

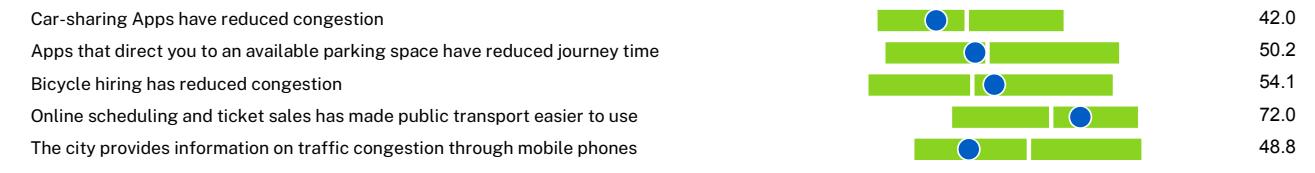


## TECHNOLOGIES

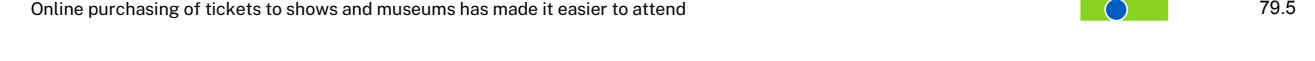
Score



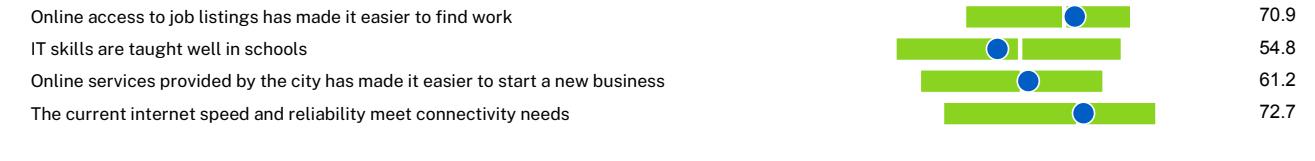
### Mobility



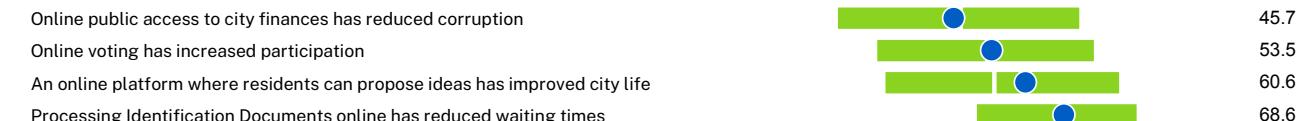
### Activities



### Opportunities (Work & School)



### Governance



# Kuala Lumpur

SMART  
CITY  
RANKING  
**65**

Out of 146



73 in 2024  
Out of 142

SMART  
CITY RATING



B in 2024

FACTOR  
RATINGS



STRUCTURES

TECHNOLOGIES



GROUP  
**3**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 8,820,000  
(UN World Urbanization Prospects)

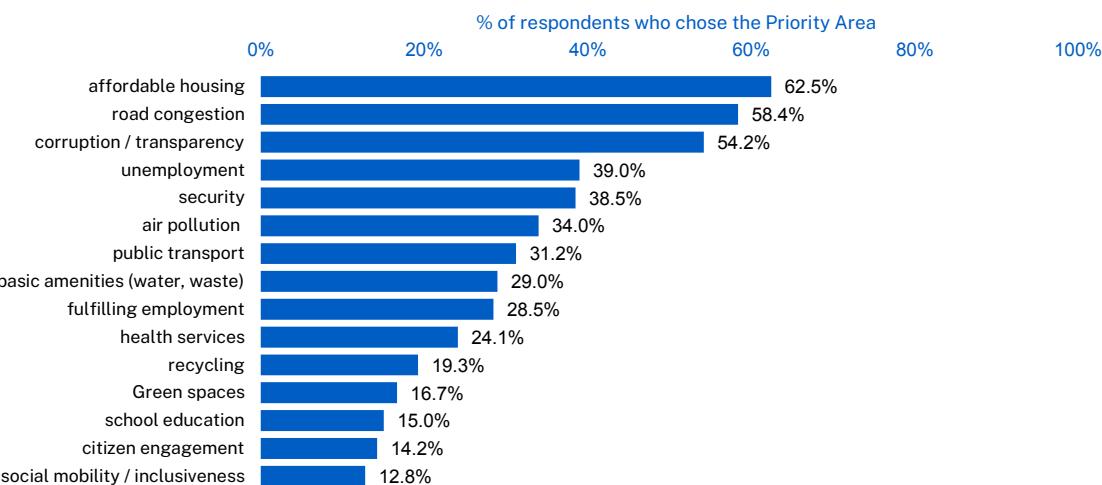
HDI 0.863  
(Global Data Lab)



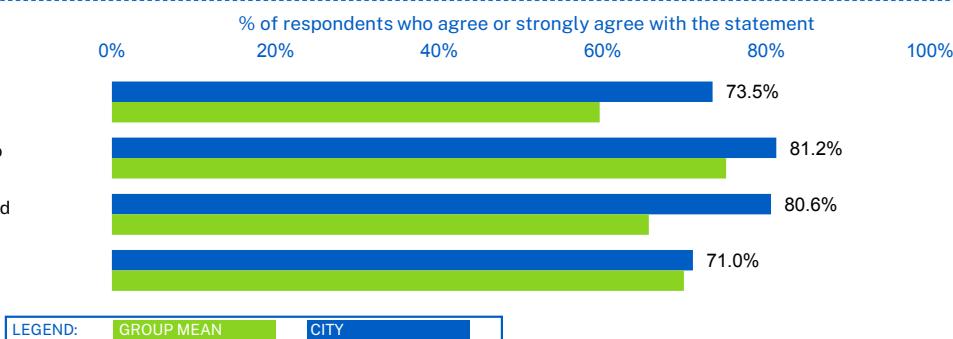
### Country

| Malaysia                    | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.792  | 0.798  | 0.800  | 0.802  | +0.002      |
| Life expectancy at birth    | 75.8   | 75.9   | 74.9   | 76.3   | +1.4        |
| Expected years of schooling | 13.1   | 13.0   | 12.9   | 12.9   | +0.0        |
| Mean years of schooling     | 10.6   | 10.7   | 10.7   | 10.7   | +0.0        |
| GNI per capita (PPP \$)     | 26,951 | 25,314 | 25,619 | 27,295 | +1,676      |

## PRIORITY AREAS



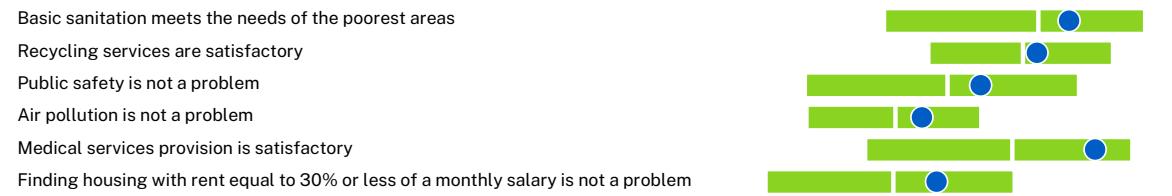
## ATTITUDES



## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



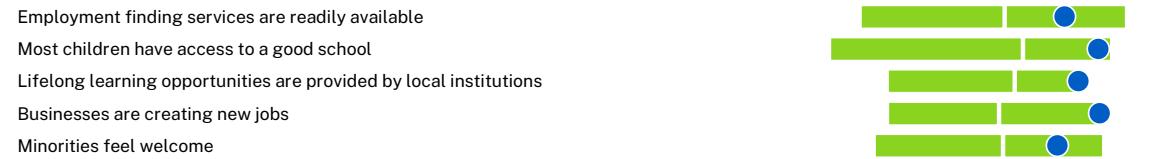
### Mobility



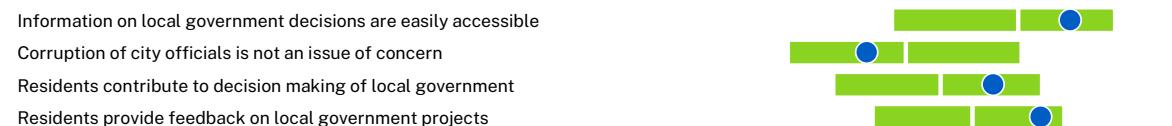
### Activities



### Opportunities (Work & School)

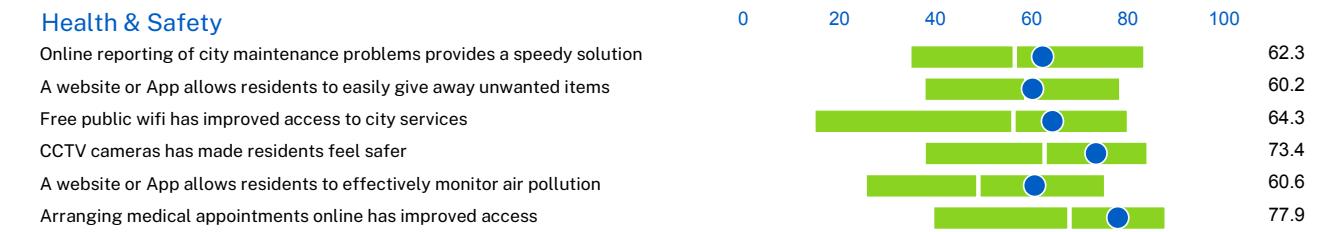


### Governance

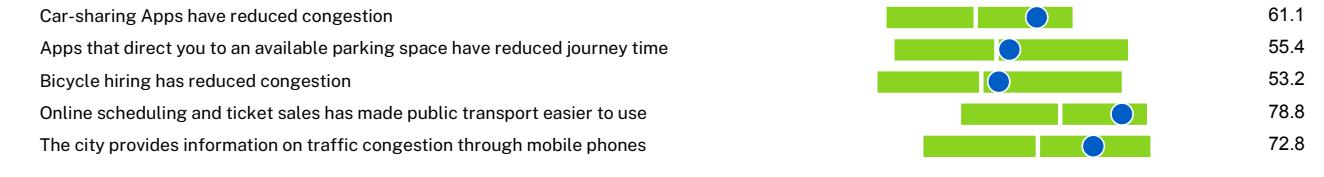


## TECHNOLOGIES

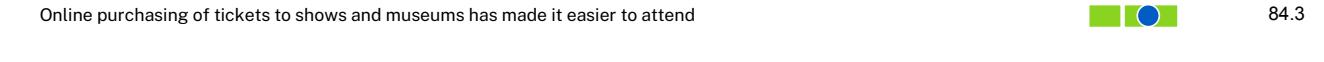
Score



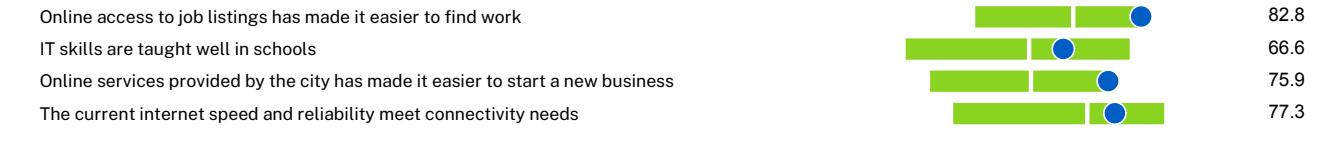
### Mobility



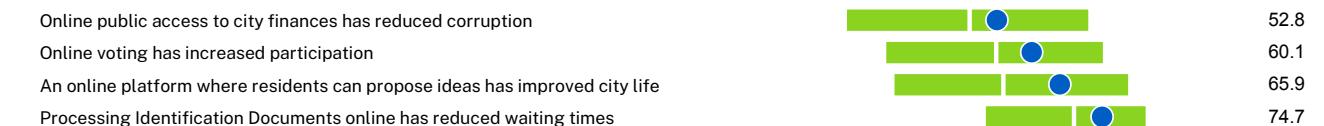
### Activities



### Opportunities (Work & School)



### Governance



# Kuwait City

SMART  
CITY  
RANKING  
**90**  
Out of 146

not in 2024

SMART  
CITY RATING  
**CCC**

not in 2024

FACTOR  
RATINGS  
**CCC**

STRUCTURES  
**B**

TECHNOLOGIES

GROUP  
**3**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 3,350,000  
(UN World Urbanization Prospects)

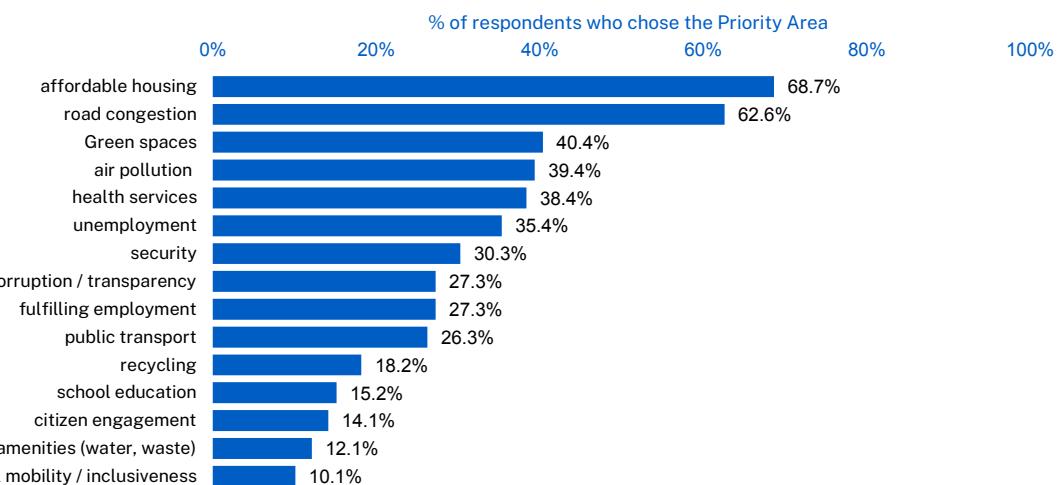
HDI 0.845  
(Global Data Lab)



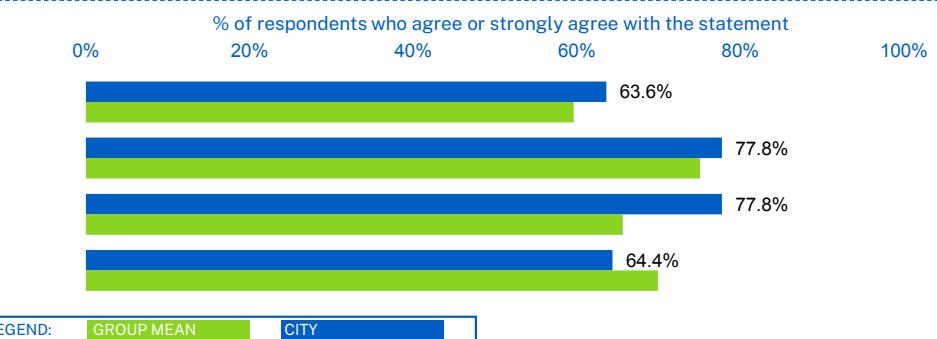
### Country

| Kuwait                      | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.829  | 0.832  | 0.835  | 0.836  | +0.001      |
| Life expectancy at birth    | 79.7   | 76.9   | 78.7   | 80.3   | +1.6        |
| Expected years of schooling | 15.5   | 15.7   | 15.7   | 15.7   | +0.0        |
| Mean years of schooling     | 7.3    | 7.4    | 7.4    | 7.4    | +0.0        |
| GNI per capita (PPP \$)     | 54,606 | 50,505 | 52,672 | 56,729 | +4,057      |

## PRIORITY AREAS



## ATTITUDES

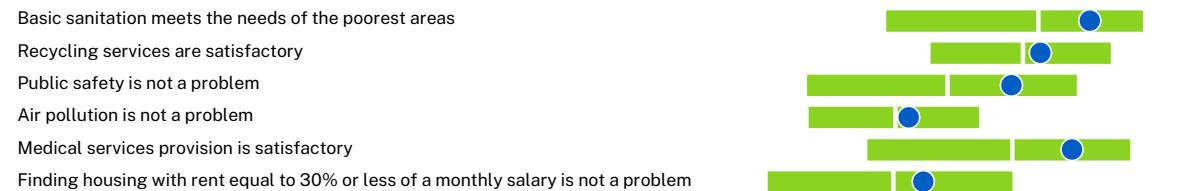


LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



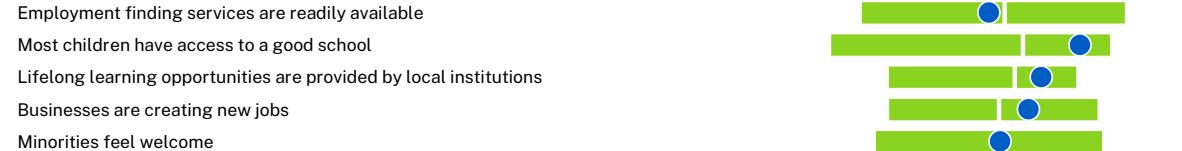
### Mobility



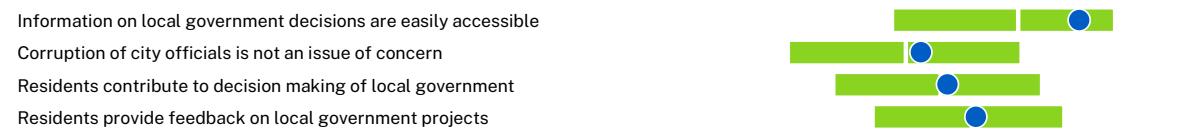
### Activities



### Opportunities (Work & School)



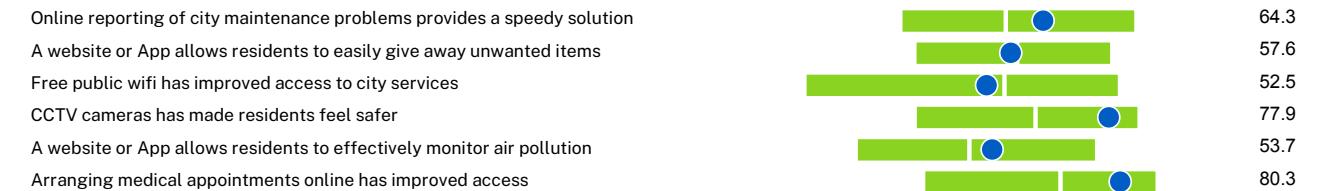
### Governance



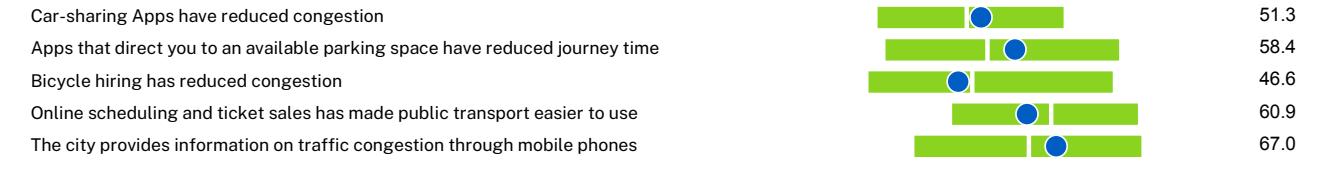
## TECHNOLOGIES

Score

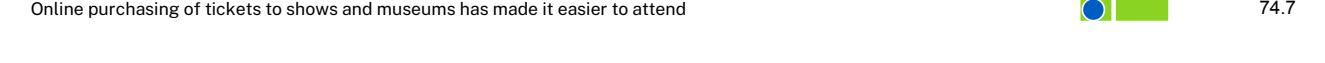
### Health & Safety



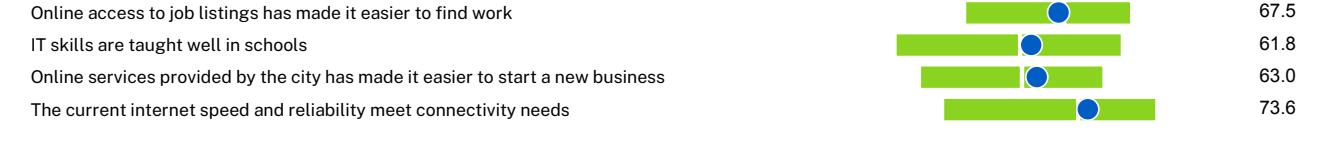
### Mobility



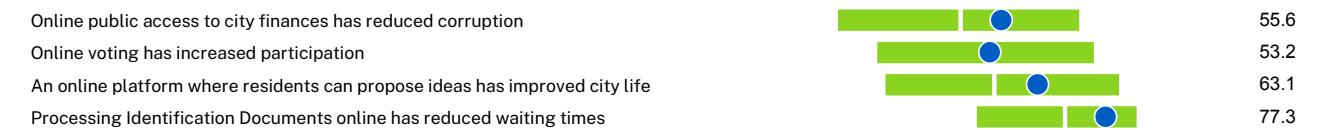
### Activities



### Opportunities (Work & School)



### Governance



# Lagos

SMART  
CITY  
RANKING  
**135**

Out of 146



136 in 2024  
Out of 142

SMART  
CITY RATING



D in 2024

FACTOR  
RATINGS



STRUCTURES



TECHNOLOGIES



All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 16,540,000  
(UN World Urbanization Prospects)

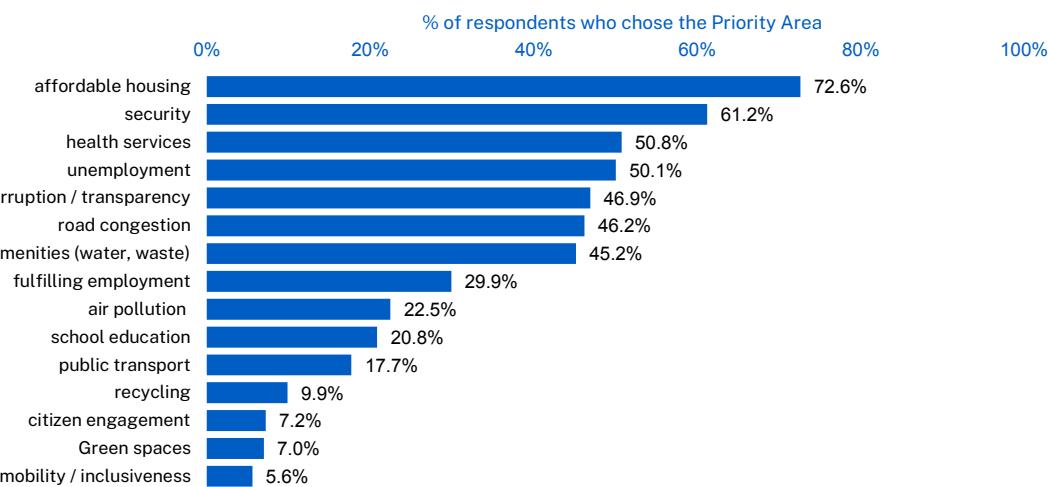
HDI 0.721  
(Global Data Lab)



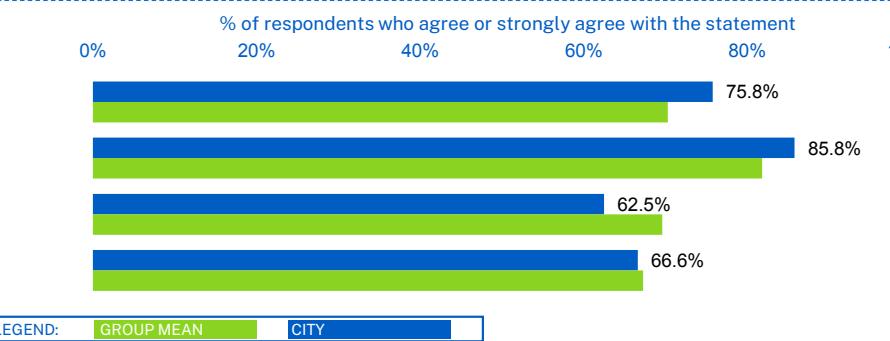
### Country

| Nigeria                     | 2019  | 2020  | 2021  | 2022  | 1 yr change |
|-----------------------------|-------|-------|-------|-------|-------------|
| HDI                         | 0.520 | 0.526 | 0.528 | 0.530 | +0.002      |
| Life expectancy at birth    | 52.9  | 52.9  | 52.7  | 53.6  | +1.0        |
| Expected years of schooling | 10.1  | 10.3  | 10.5  | 10.5  | +0.0        |
| Mean years of schooling     | 7.2   | 7.4   | 7.6   | 7.6   | +0.0        |
| GNI per capita (PPP \$)     | 4,914 | 4,685 | 4,716 | 4,755 | +39         |

## PRIORITY AREAS



## ATTITUDES

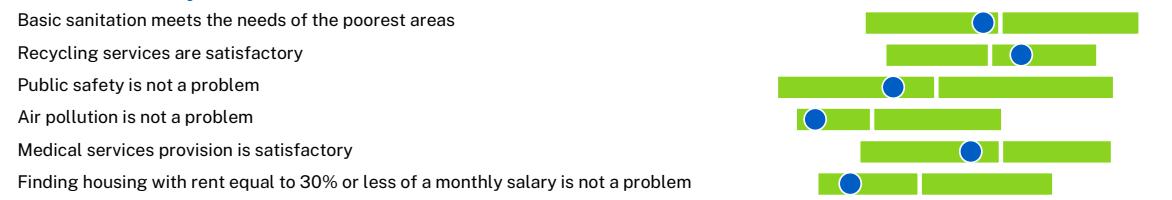


LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

### Health & Safety



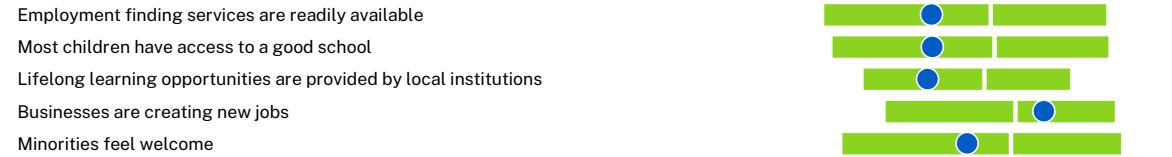
### Mobility



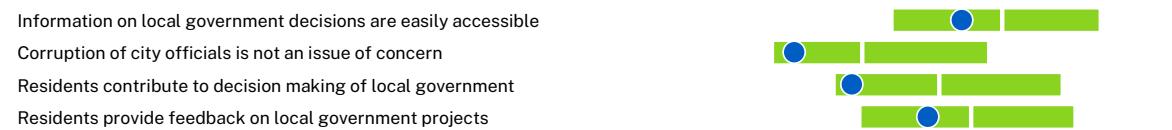
### Activities



### Opportunities (Work & School)

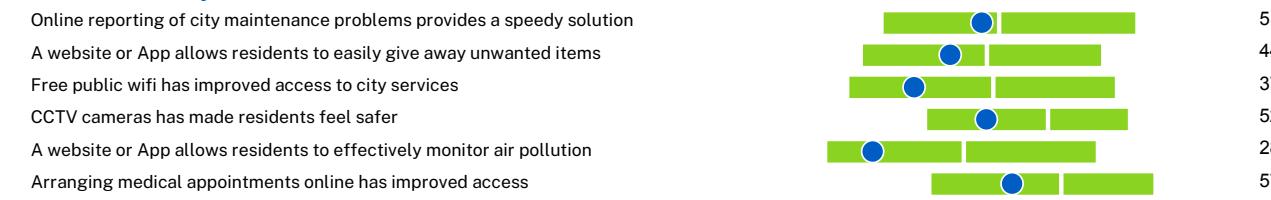


### Governance

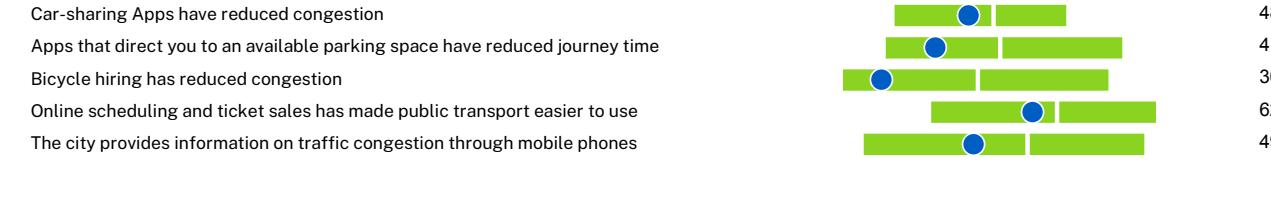


## TECHNOLOGIES

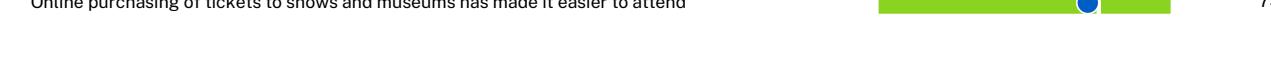
### Health & Safety



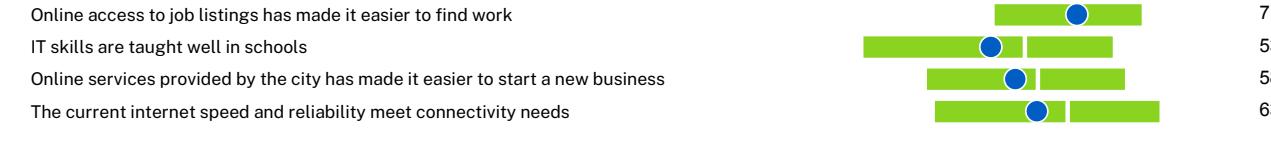
### Mobility



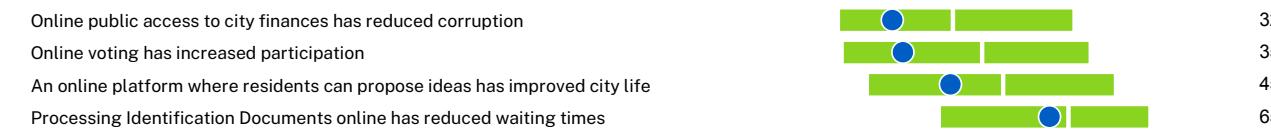
### Activities



### Opportunities (Work & School)



### Governance



# Lausanne

SMART  
CITY  
RANKING

**10**

Out of 146

7 in 2024  
Out of 142

SMART  
CITY RATING

**AAA**

AA in 2024

FACTOR  
RATINGS

**AA**

STRUCTURES

**AA**

TECHNOLOGIES

**1**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 120,000  
(UN World Urbanization Prospects)

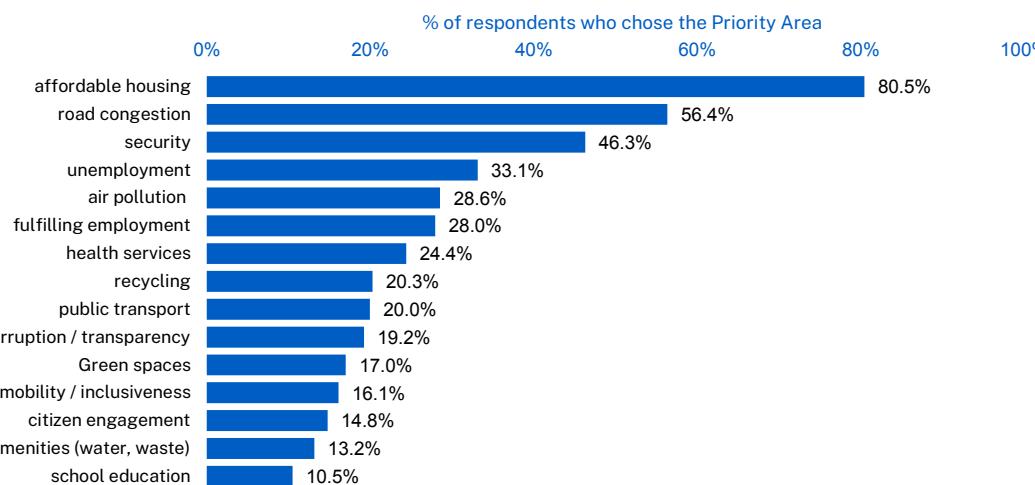
HDI 0.973  
(Global Data Lab)



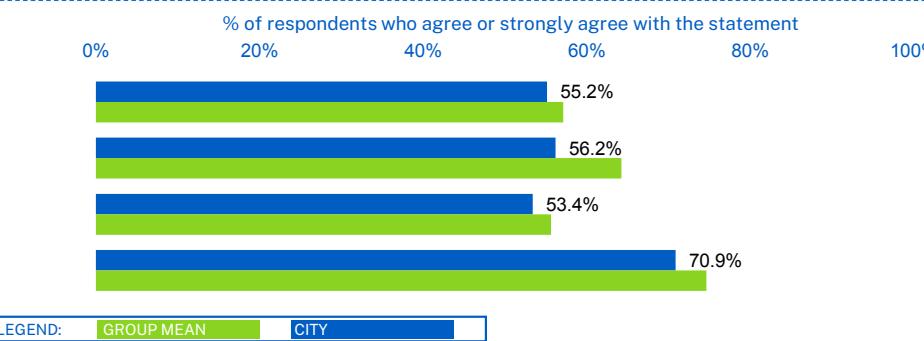
### Country

| Switzerland                 | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.952  | 0.954  | 0.955  | 0.957  | +0.002      |
| Life expectancy at birth    | 83.8   | 83.1   | 84.0   | 84.3   | +0.3        |
| Expected years of schooling | 16.3   | 16.4   | 16.6   | 16.6   | +0.0        |
| Mean years of schooling     | 13.9   | 13.9   | 13.9   | 13.9   | +0.0        |
| GNI per capita (PPP \$)     | 67,531 | 66,267 | 68,550 | 69,433 | +882        |

## PRIORITY AREAS



## ATTITUDES

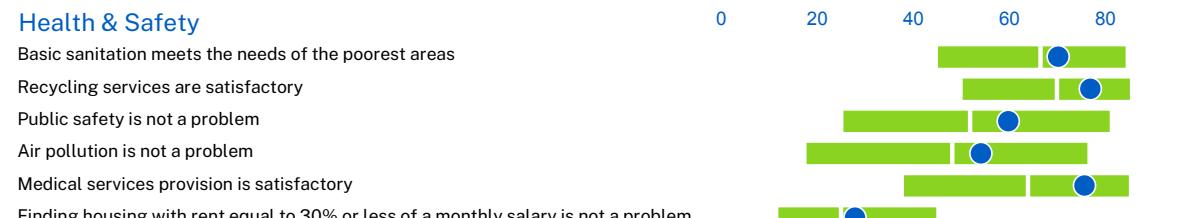


LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

### Score



### Mobility

### Score



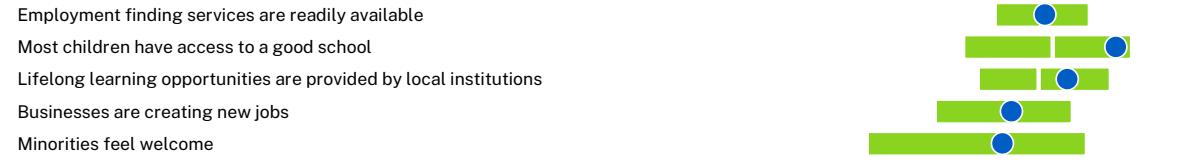
### Activities

### Score



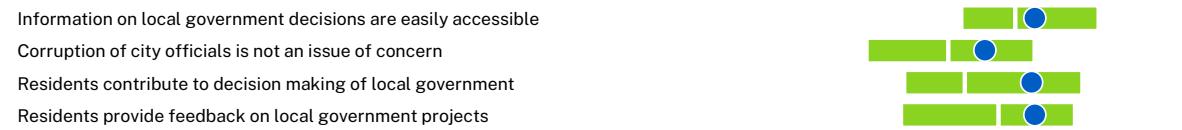
### Opportunities (Work & School)

### Score



### Governance

### Score

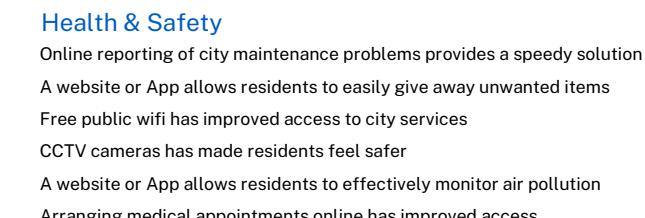


## TECHNOLOGIES

### Score

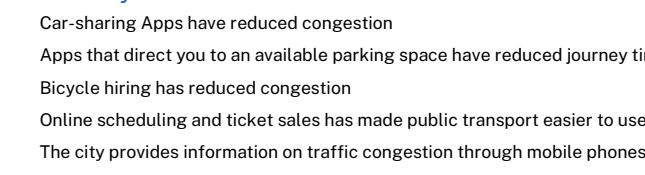
### Health & Safety

### Score



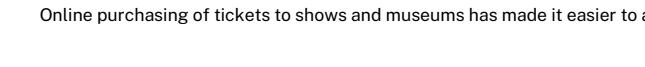
### Mobility

### Score



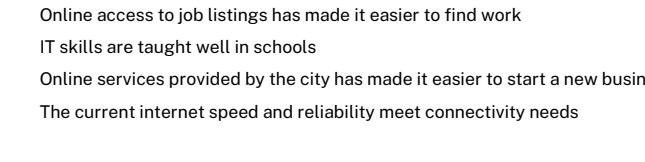
### Activities

### Score



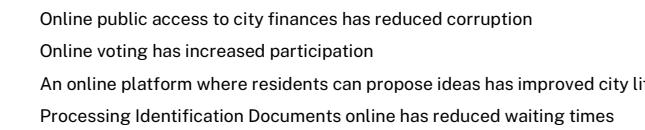
### Opportunities (Work & School)

### Score



### Governance

### Score



## SMART CITY RANKING

**72**

Out of 146

72 in 2024  
Out of 142

## SMART CITY RATING

**BB**

CC in 2024

## FACTOR RATINGS

**BB**

STRUCTURES

**B**

## TECHNOLOGIES

**2**

All ratings range from AAA to D

### BACKGROUND INFORMATION

#### City

Population 460,000  
(UN World Urbanization Prospects)

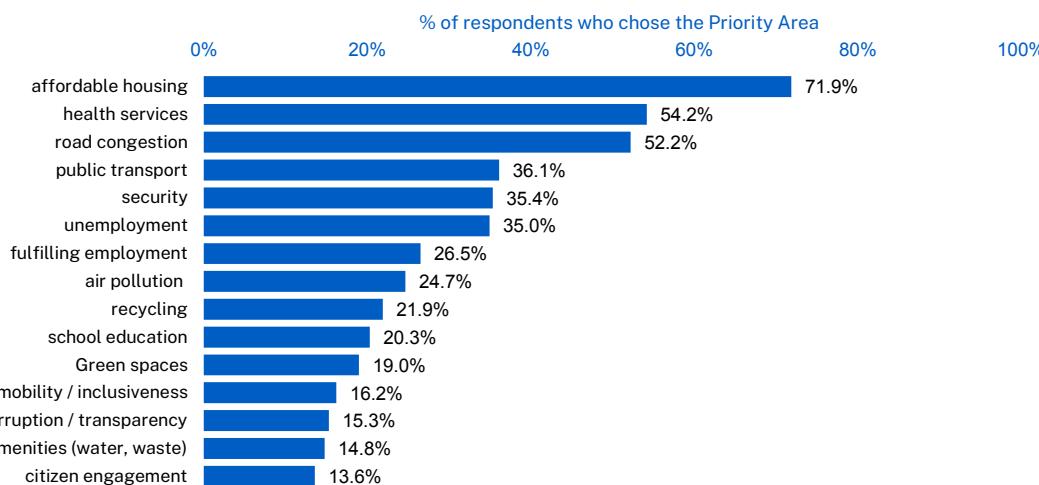
HDI 0.920  
(Global Data Lab)



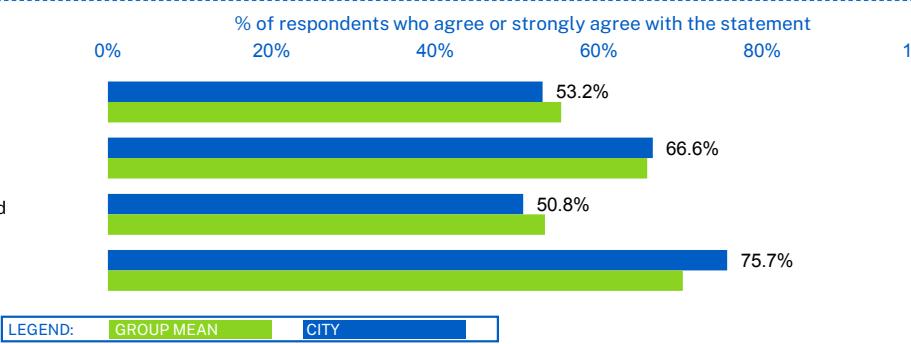
#### Country

| United Kingdom              | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.923  | 0.926  | 0.929  | 0.928  | -0.001      |
| Life expectancy at birth    | 81.7   | 80.4   | 80.7   | 82.2   | +1.4        |
| Expected years of schooling | 17.2   | 17.2   | 17.6   | 17.6   | +0.0        |
| Mean years of schooling     | 13.3   | 13.4   | 13.4   | 13.4   | +0.0        |
| GNI per capita (PPP \$)     | 47,066 | 40,799 | 44,750 | 46,624 | +1,874      |

### PRIORITY AREAS



### ATTITUDES



LEGEND: GROUP MEAN CITY

### STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

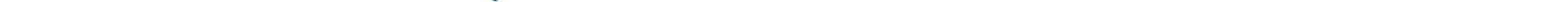
#### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem



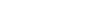
#### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access



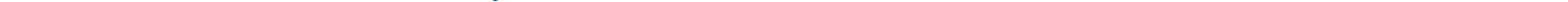
#### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory



#### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones



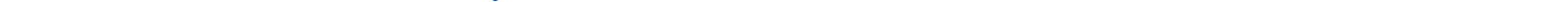
#### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory



#### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend



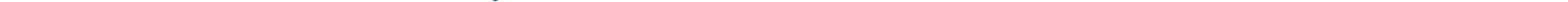
#### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome



#### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs



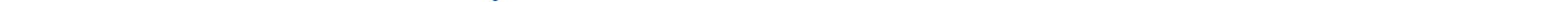
#### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects



#### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times



## SMART CITY RANKING

**93**

Out of 146



85 in 2024  
Out of 142

## SMART CITY RATING

**CCC**

CCC in 2024

## FACTOR RATINGS

**CCC**

STRUCTURES

**CCC**

TECHNOLOGIES

**3**

All ratings range from AAA to D

### BACKGROUND INFORMATION

#### City

Population 1,090,000  
(UN World Urbanization Prospects)

HDI 0.888  
(Global Data Lab)



## SMART CITY RATING

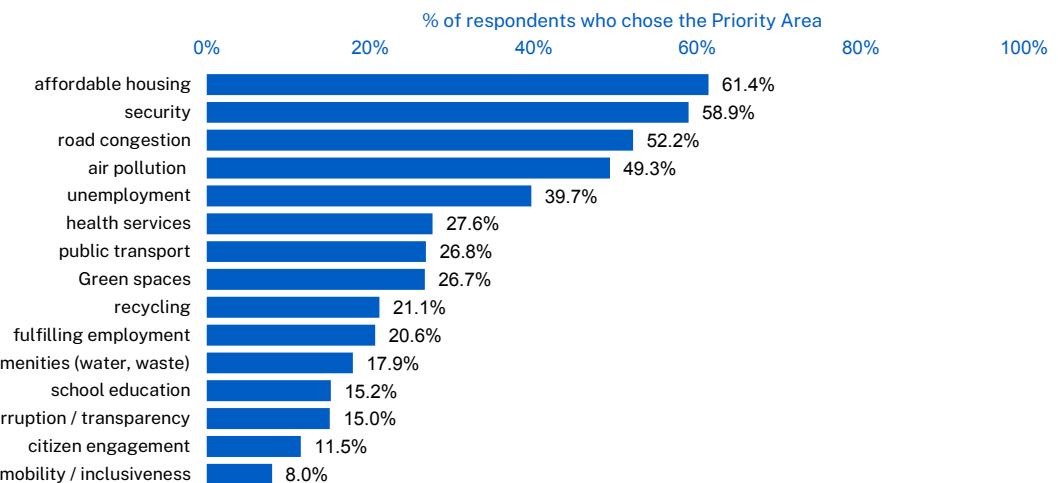
**CCC**

CCC in 2024

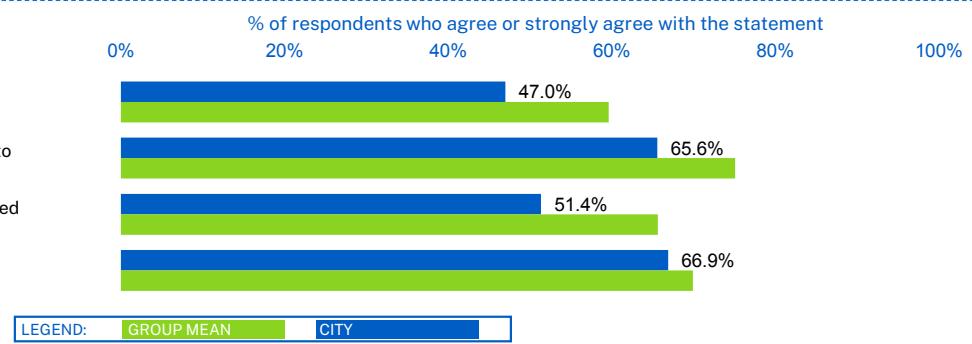
#### Country

| France                      | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.893  | 0.896  | 0.899  | 0.903  | +0.004      |
| Life expectancy at birth    | 82.7   | 82.2   | 82.5   | 83.2   | +0.7        |
| Expected years of schooling | 15.9   | 15.9   | 16.0   | 16.0   | +0.0        |
| Mean years of schooling     | 11.6   | 11.7   | 11.7   | 11.7   | +0.0        |
| GNI per capita (PPP \$)     | 46,907 | 42,891 | 46,322 | 47,379 | +1,057      |

### PRIORITY AREAS



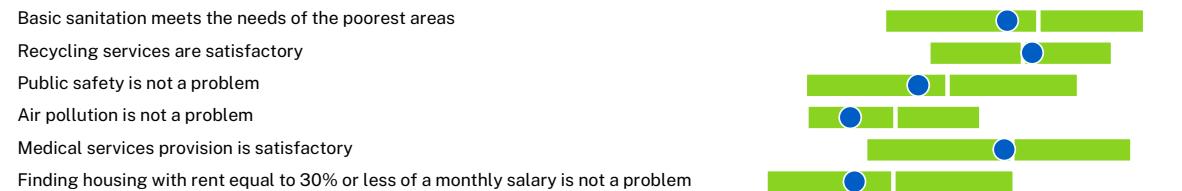
### ATTITUDES



### STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

#### Health & Safety



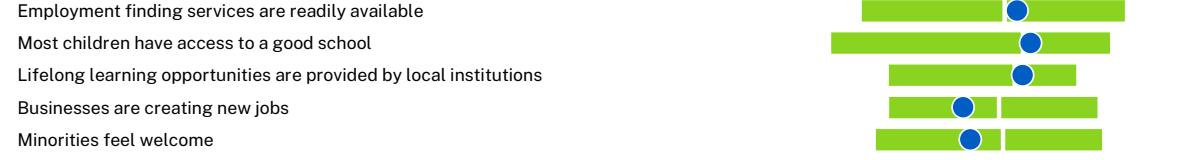
#### Mobility



#### Activities



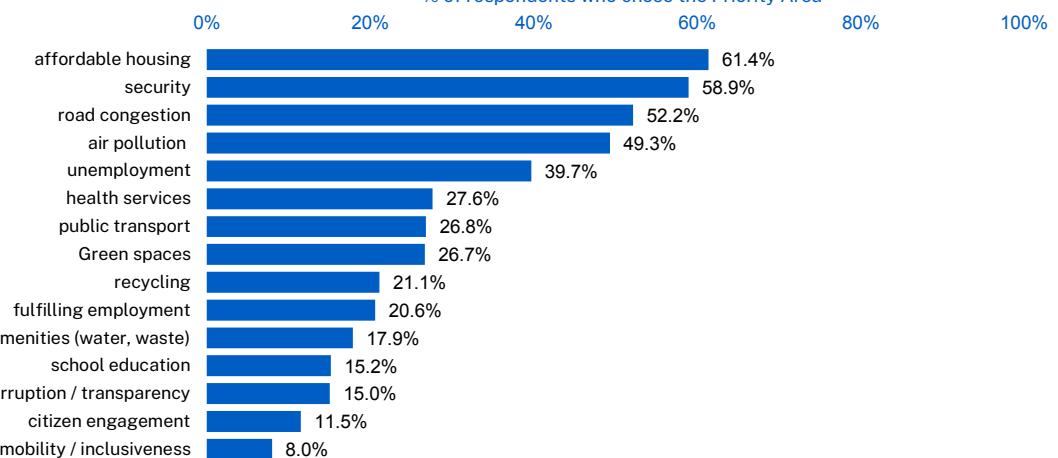
#### Opportunities (Work & School)



#### Governance



% of respondents who chose the Priority Area



% of respondents who agree or strongly agree with the statement

### TECHNOLOGIES

LEGEND: MIN CITY MEAN GROUP MAX

#### Health & Safety



#### Mobility



#### Activities



#### Opportunities (Work & School)



#### Governance



## SMART CITY RANKING

**138**

Out of 146

134 in 2024  
Out of 142

## SMART CITY RATING

**C**

C in 2024

## FACTOR RATINGS

**C**

STRUCTURES

**C**

TECHNOLOGIES

## GROUP

**3**

All ratings range from AAA to D

### BACKGROUND INFORMATION

#### City

Population 11,360,000  
(UN World Urbanization Prospects)

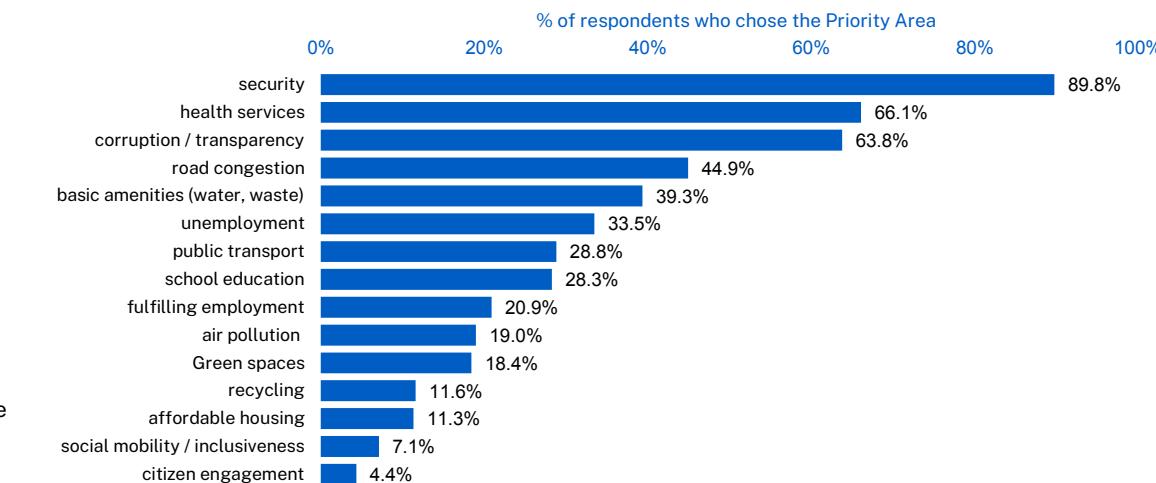
HDI 0.820  
(Global Data Lab)



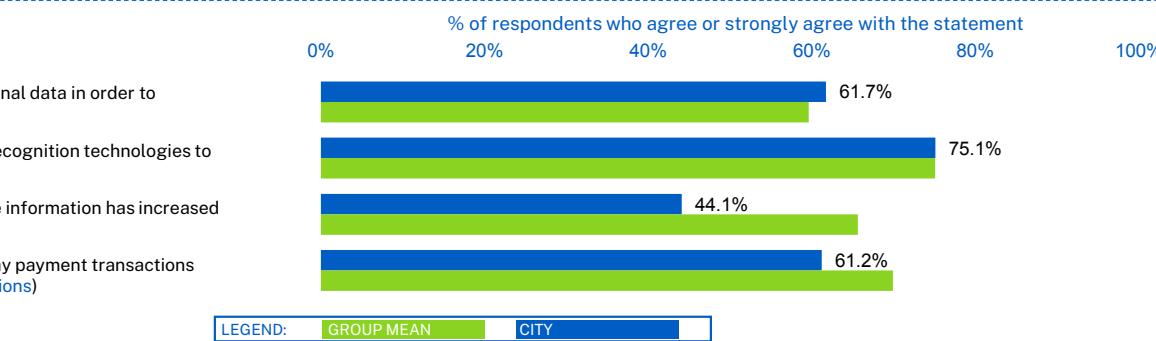
#### Country

| Peru                        | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.758  | 0.764  | 0.765  | 0.770  | +0.005      |
| Life expectancy at birth    | 76.2   | 73.7   | 72.4   | 73.4   | +1.0        |
| Expected years of schooling | 14.7   | 14.8   | 14.8   | 14.8   | +0.0        |
| Mean years of schooling     | 9.9    | 10.0   | 10.0   | 10.0   | +0.0        |
| GNI per capita (PPP \$)     | 12,279 | 10,894 | 11,510 | 11,916 | +407        |

### PRIORITY AREAS



### ATTITUDES



### STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

#### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem



#### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory



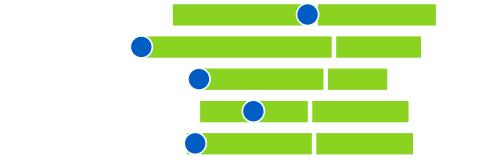
#### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory



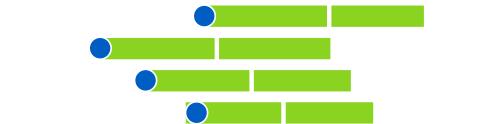
#### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome



#### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects



### % of respondents who chose the Priority Area

### STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Score

0 20 40 60 80 100

0 20 40 60 80 100

0 20 40 60 80 100

0 20 40 60 80 100

0 20 40 60 80 100

0 20 40 60 80 100

0 20 40 60 80 100

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# Lisbon

SMART  
CITY  
RANKING  
**115**

Out of 146

108 in 2024  
Out of 142

SMART  
CITY RATING

**CC**

C in 2024

FACTOR  
RATINGS

**CC**

STRUCTURES

**CC**

TECHNOLOGIES

**3**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 3,010,000  
(UN World Urbanization Prospects)

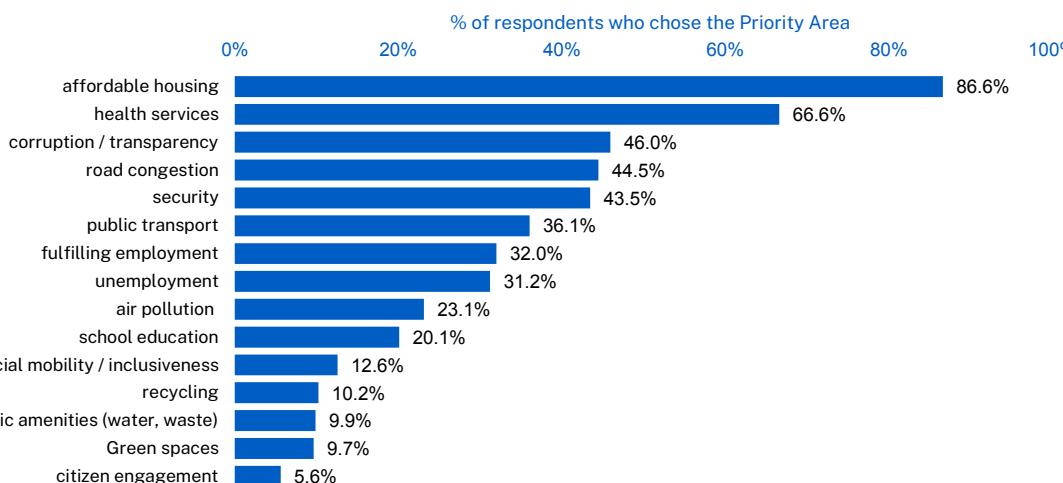
HDI 0.907  
(Global Data Lab)



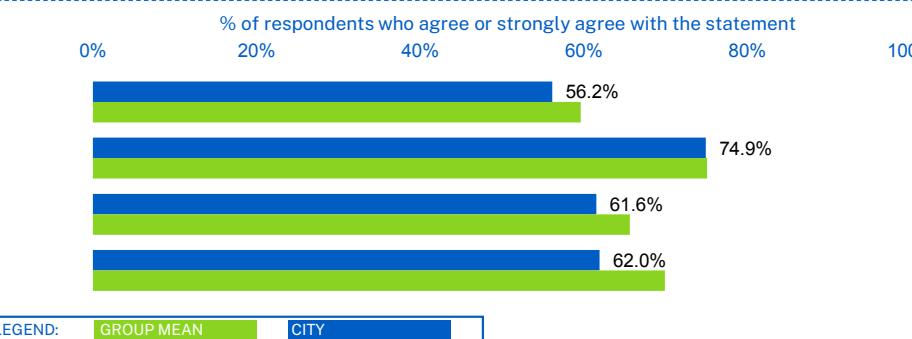
### Country

| Portugal                    | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.850  | 0.851  | 0.857  | 0.858  | +0.001      |
| Life expectancy at birth    | 81.7   | 81.1   | 81.0   | 82.2   | +1.2        |
| Expected years of schooling | 16.6   | 16.7   | 16.8   | 16.8   | +0.0        |
| Mean years of schooling     | 9.3    | 9.6    | 9.6    | 9.6    | +0.0        |
| GNI per capita (PPP \$)     | 34,036 | 31,510 | 33,275 | 35,315 | +2,040      |

## PRIORITY AREAS



## ATTITUDES



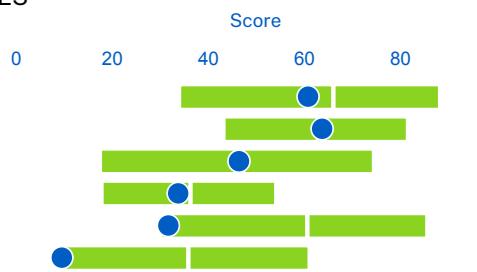
LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem



### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access

## TECHNOLOGIES



### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory



### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones

## STRUCTURES



### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory



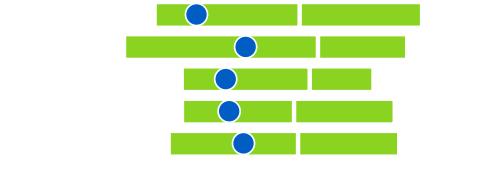
### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend



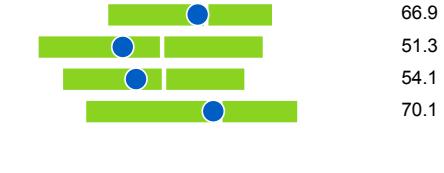
### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome



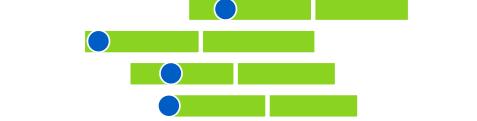
### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs



### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects



### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times



# Ljubljana

SMART  
CITY  
RANKING  
**16**

Out of 146



32 in 2024  
Out of 142

SMART  
CITY RATING

**AA**

BBB in 2024

FACTOR  
RATINGS

**AA**

STRUCTURES

**AA**

TECHNOLOGIES

**1**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

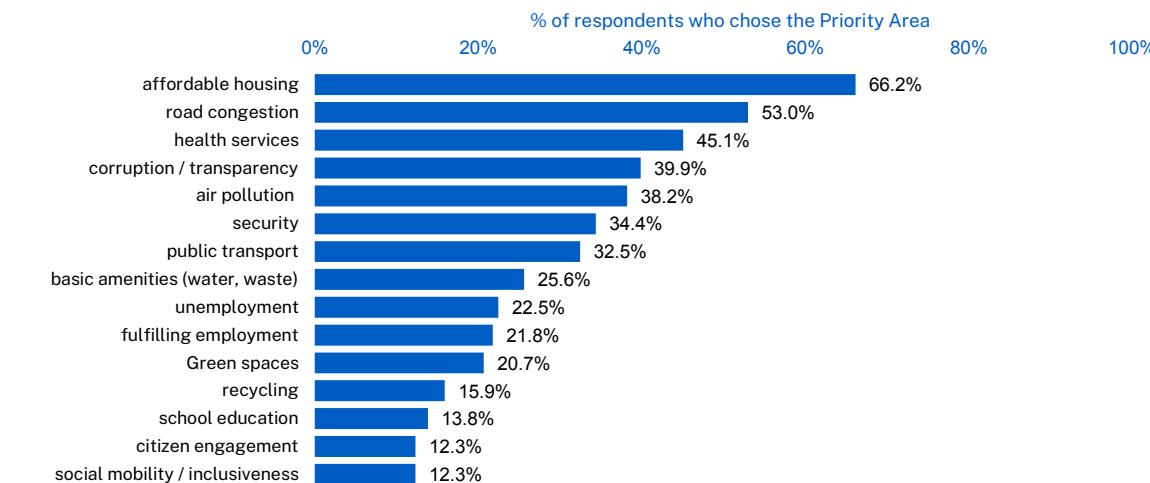
Population 270,000  
(UN World Urbanization Prospects)



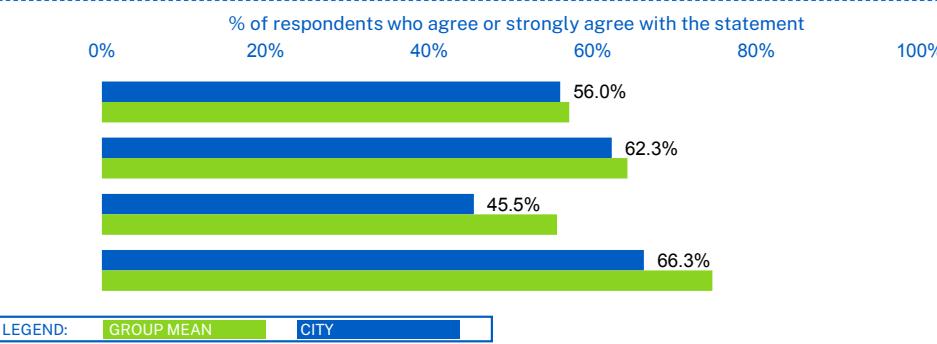
### Country

| Slovenia                    | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.903  | 0.909  | 0.912  | 0.916  | +0.004      |
| Life expectancy at birth    | 81.6   | 80.4   | 80.7   | 82.1   | +1.4        |
| Expected years of schooling | 17.3   | 17.3   | 17.4   | 17.4   | +0.0        |
| Mean years of schooling     | 12.8   | 12.9   | 12.9   | 12.9   | +0.0        |
| GNI per capita (PPP \$)     | 38,436 | 36,848 | 39,478 | 41,587 | +2,109      |

## PRIORITY AREAS



## ATTITUDES

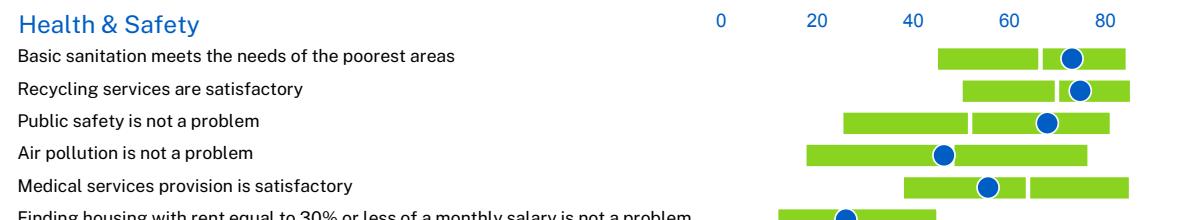


LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

### Score



### Mobility

### Score



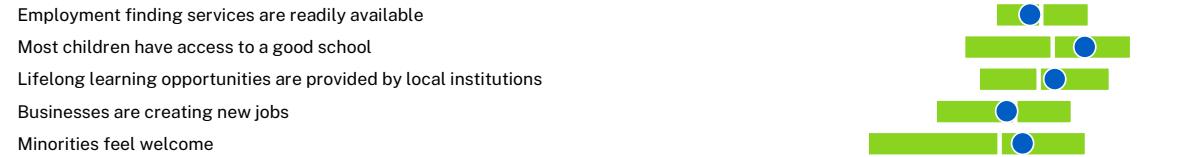
### Activities

### Score



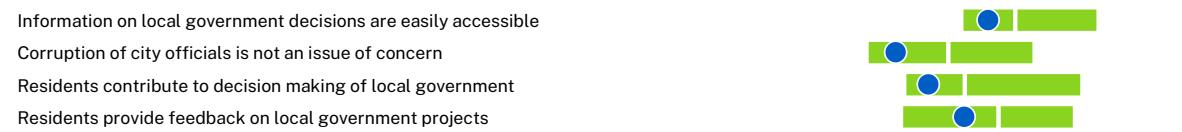
### Opportunities (Work & School)

### Score



### Governance

### Score

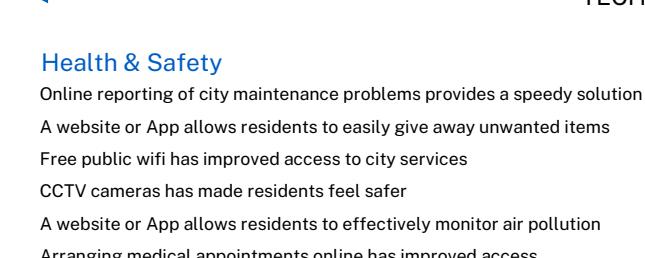


## TECHNOLOGIES

### Score

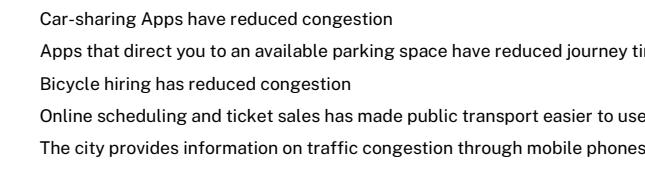
### Health & Safety

### Score



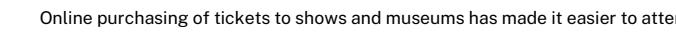
### Mobility

### Score



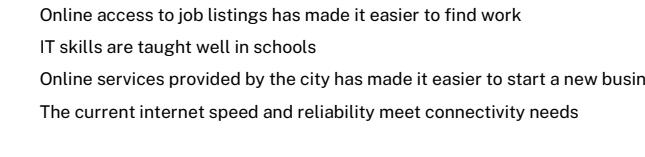
### Activities

### Score



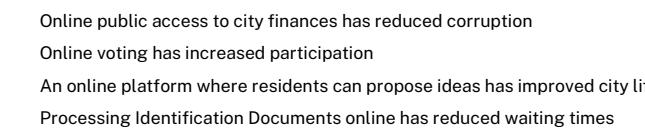
### Opportunities (Work & School)

### Score



### Governance

### Score



# London

SMART  
CITY  
RANKING

**6**

Out of 146



8 in 2024  
Out of 142

SMART  
CITY RATING

**AA**

A in 2024

FACTOR  
RATINGS

**AAA**

STRUCTURES

**AAA**

TECHNOLOGIES

GROUP

**1**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 9,750,000  
(UN World Urbanization Prospects)

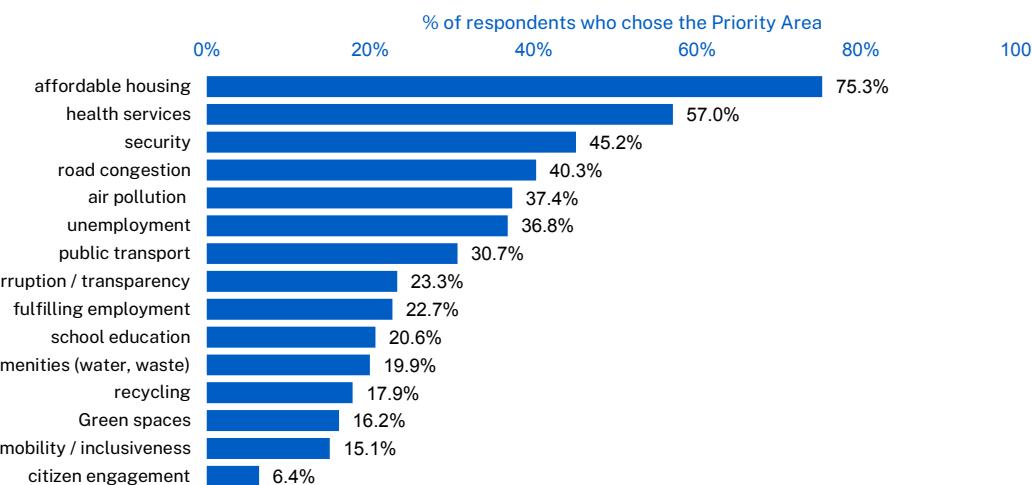
HDI 0.984  
(Global Data Lab)



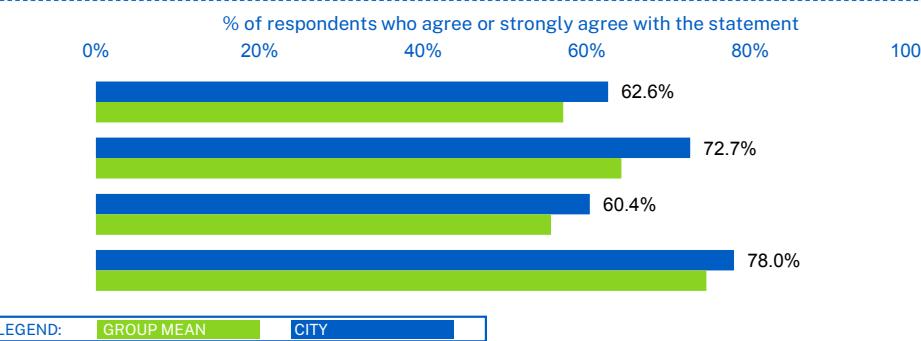
### Country

| United Kingdom              | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.923  | 0.926  | 0.929  | 0.928  | -0.001      |
| Life expectancy at birth    | 81.7   | 80.4   | 80.7   | 82.2   | +1.4        |
| Expected years of schooling | 17.2   | 17.2   | 17.6   | 17.6   | +0.0        |
| Mean years of schooling     | 13.3   | 13.4   | 13.4   | 13.4   | +0.0        |
| GNI per capita (PPP \$)     | 47,066 | 40,799 | 44,750 | 46,624 | +1,874      |

## PRIORITY AREAS



## ATTITUDES



LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

Score: 0 20 40 60 80 100

- Health & Safety**
- Basic sanitation meets the needs of the poorest areas
  - Recycling services are satisfactory
  - Public safety is not a problem
  - Air pollution is not a problem
  - Medical services provision is satisfactory
  - Finding housing with rent equal to 30% or less of a monthly salary is not a problem

Score: 0 20 40 60 80 100

- Health & Safety**
- Online reporting of city maintenance problems provides a speedy solution
  - A website or App allows residents to easily give away unwanted items
  - Free public wifi has improved access to city services
  - CCTV cameras has made residents feel safer
  - A website or App allows residents to effectively monitor air pollution
  - Arranging medical appointments online has improved access

## Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory

## Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones

## Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory

## Activities

- Online purchasing of tickets to shows and museums has made it easier to attend

## Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome

## Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs

## Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects

## Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times

Score: 0 20 40 60 80 100

Score: 0 20 40 60 80 100

53.3

67.6

65.0

61.8

48.6

57.4

50.6

56.3

57.7

65.2

68.2

77.6

70.1

63.5

58.7

70.9

49.0

59.7

53.3

64.7

# Los Angeles

SMART  
CITY  
RANKING  
**91**

Out of 146

68 in 2024  
Out of 142

SMART  
CITY RATING

**B**

BB in 2024

FACTOR  
RATINGS

**B**

STRUCTURES

**BB**

TECHNOLOGIES

GROUP  
**2**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 3,800,000  
(UN World Urbanization Prospects)

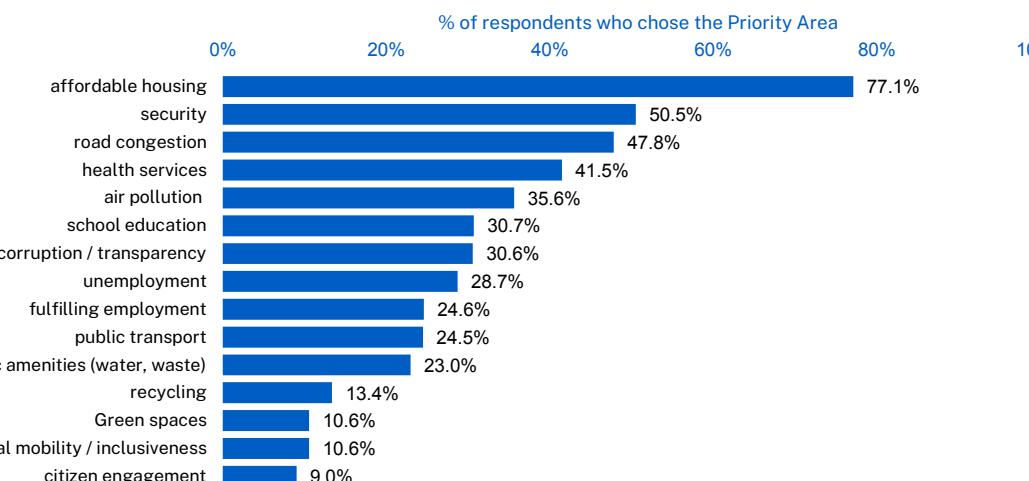
HDI 0.935  
(Global Data Lab)



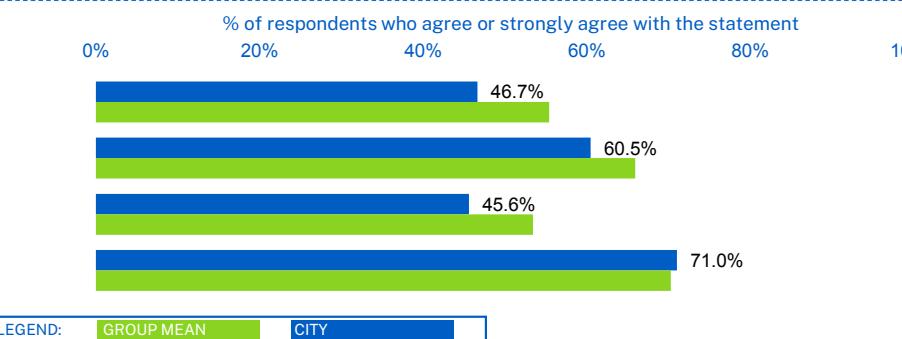
### Country

| United States               | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.924  | 0.926  | 0.928  | 0.930  | +0.002      |
| Life expectancy at birth    | 79.1   | 77.4   | 77.2   | 78.2   | +1.0        |
| Expected years of schooling | 16.6   | 16.6   | 16.4   | 16.4   | +0.0        |
| Mean years of schooling     | 13.6   | 13.7   | 13.6   | 13.6   | +0.0        |
| GNI per capita (PPP \$)     | 63,654 | 61,077 | 64,484 | 65,565 | +1,081      |

## PRIORITY AREAS



## ATTITUDES

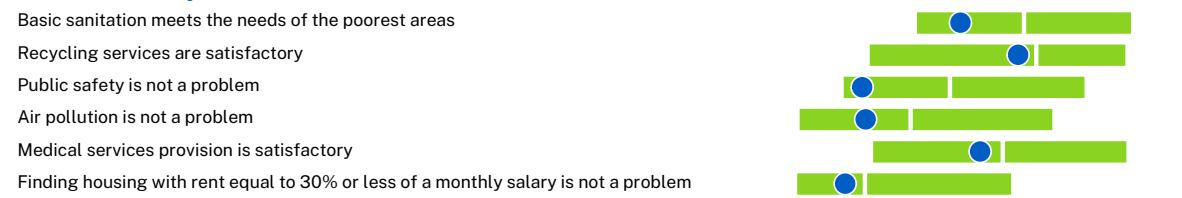


LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



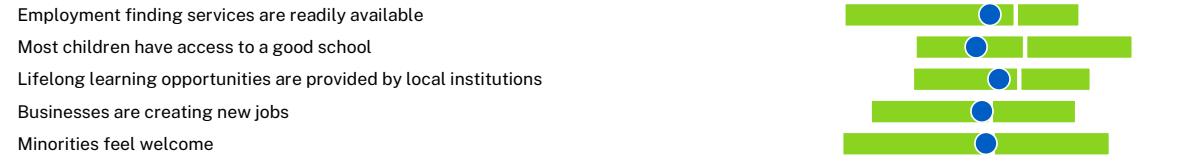
### Mobility



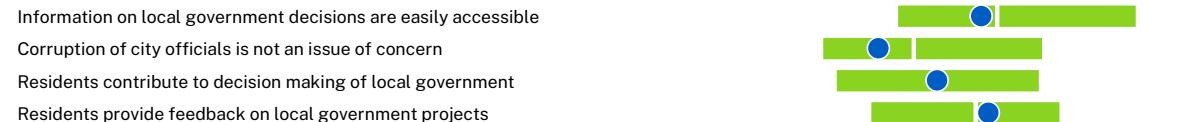
### Activities



### Opportunities (Work & School)

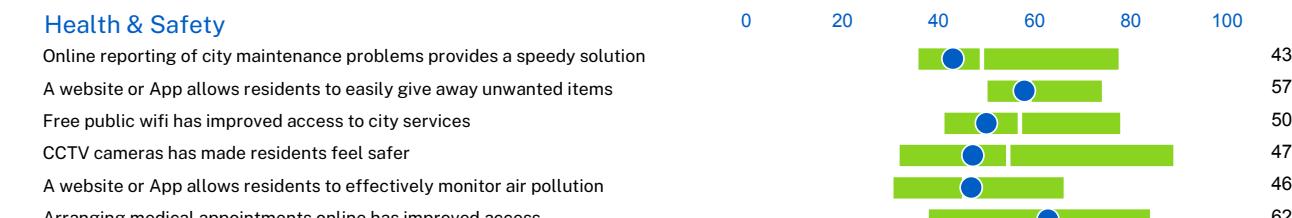


### Governance

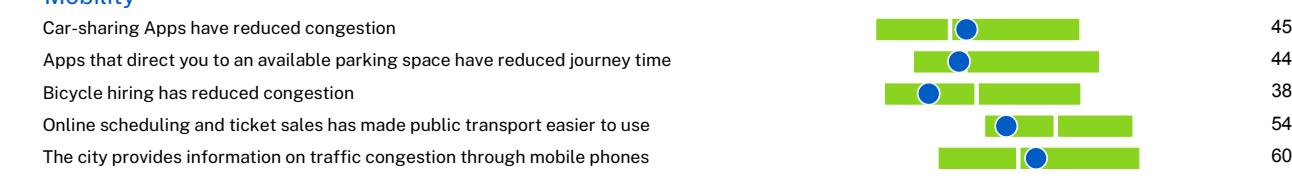


## TECHNOLOGIES

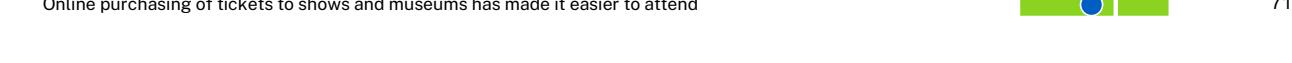
Score



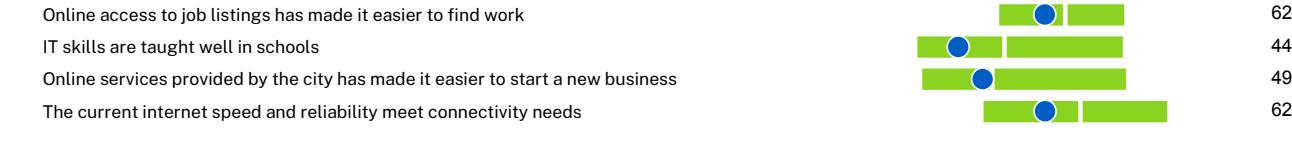
### Mobility



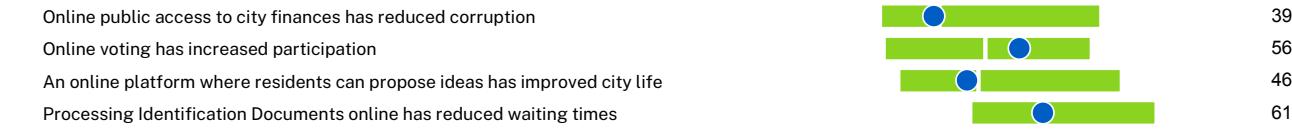
### Activities



### Opportunities (Work & School)



### Governance



# Luxembourg

SMART  
CITY  
RANKING  
**31**

Out of 146



27 in 2024  
Out of 142

SMART  
CITY RATING



BBB in 2024

FACTOR  
RATINGS



STRUCTURES

**BBB**

TECHNOLOGIES

GROUP



All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

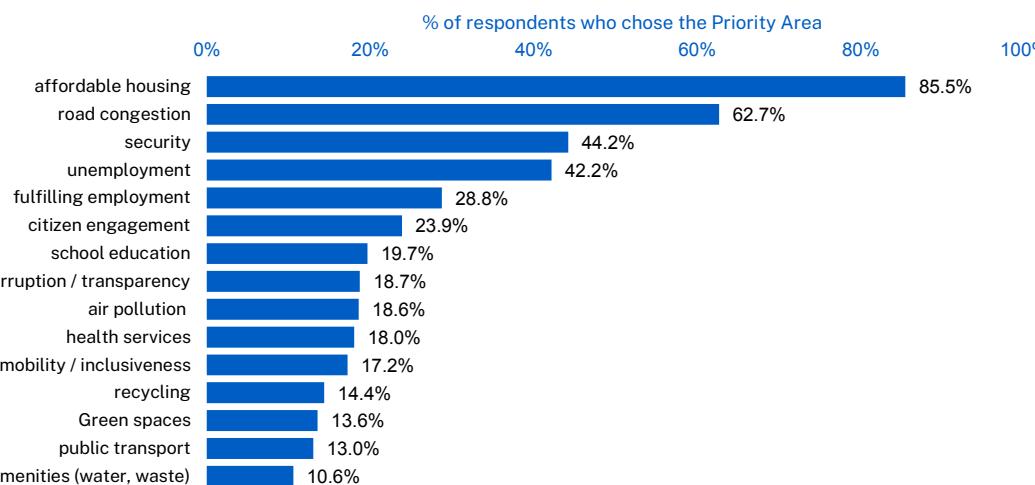
Population 130,000  
(UN Data)



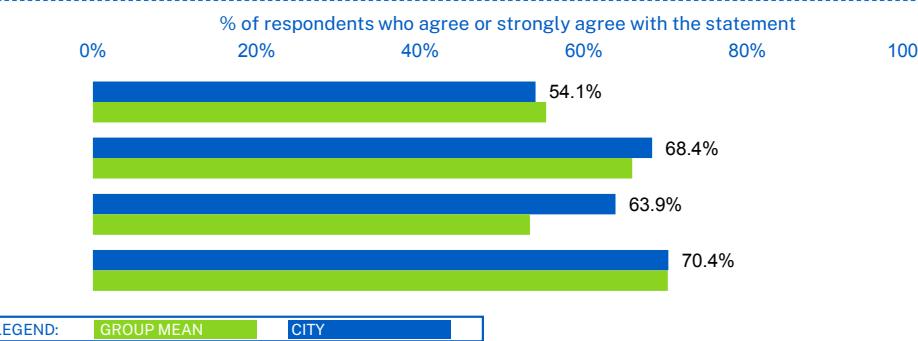
### Country

| Luxembourg                  | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.914  | 0.922  | 0.918  | 0.921  | +0.003      |
| Life expectancy at birth    | 82.1   | 81.4   | 82.6   | 82.6   | -0.0        |
| Expected years of schooling | 14.2   | 14.2   | 14.2   | 14.2   | +0.0        |
| Mean years of schooling     | 13.0   | 13.0   | 13.0   | 13.0   | +0.0        |
| GNI per capita (PPP \$)     | 77,423 | 76,504 | 78,651 | 78,554 | -96         |

## PRIORITY AREAS



## ATTITUDES



LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

### Score

0 20 40 60 80 100

#### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem

77.2  
84.6  
68.2  
60.6  
80.9  
15.7

#### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory

30.6  
76.5

#### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory

81.6  
77.6

#### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome

65.6  
85.9  
77.1  
62.2  
68.8

#### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects

69.8  
58.9  
58.6  
58.0

## TECHNOLOGIES

### Score

0 20 40 60 80 100

#### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access

56.5  
58.4  
66.9  
49.1  
35.8  
74.5

#### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones

35.8  
44.5  
51.7  
58.8  
58.8

#### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend

79.9

#### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs

68.4  
56.0  
51.5  
75.2

#### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times

44.5  
45.8  
48.5  
67.6

## SMART CITY RANKING

**73**

Out of 146



61 in 2024  
Out of 142

## SMART CITY RATING

**B**

BB in 2024

## FACTOR RATINGS

**BB**

STRUCTURES

**BB**

## TECHNOLOGIES

**2**

All ratings range from AAA to D

### BACKGROUND INFORMATION

#### City

Population 1,770,000  
(UN World Urbanization Prospects)

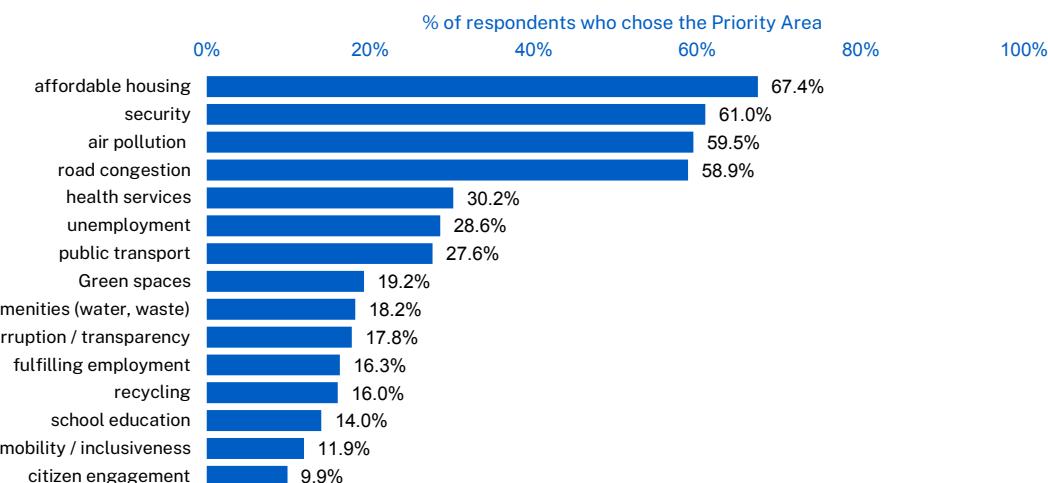
HDI 0.923  
(Global Data Lab)



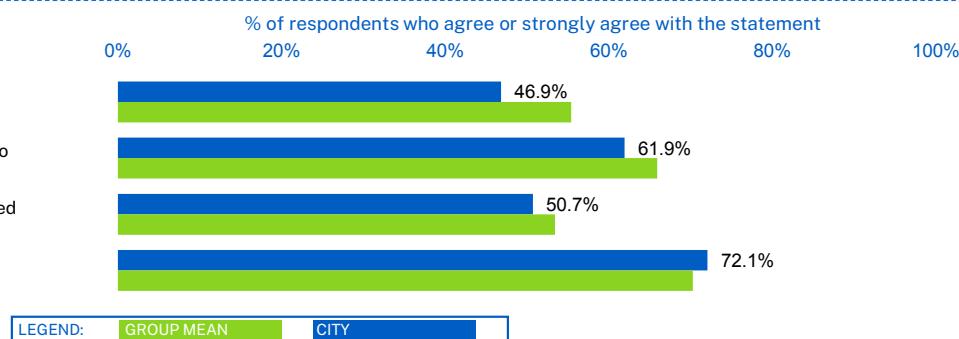
#### Country

| France                      | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.893  | 0.896  | 0.899  | 0.903  | +0.004      |
| Life expectancy at birth    | 82.7   | 82.2   | 82.5   | 83.2   | +0.7        |
| Expected years of schooling | 15.9   | 15.9   | 16.0   | 16.0   | +0.0        |
| Mean years of schooling     | 11.6   | 11.7   | 11.7   | 11.7   | +0.0        |
| GNI per capita (PPP \$)     | 46,907 | 42,891 | 46,322 | 47,379 | +1,057      |

### PRIORITY AREAS



### ATTITUDES

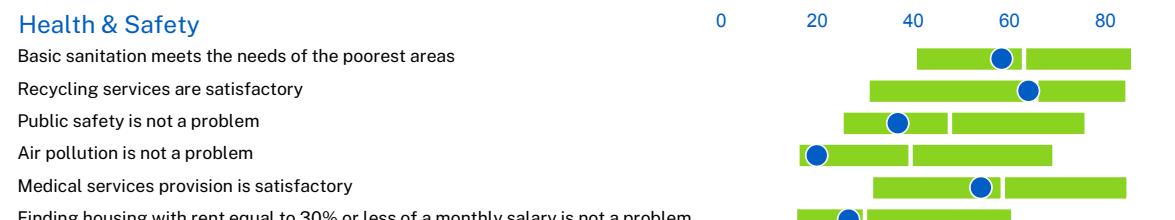


LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

### STRUCTURES

#### Score



#### Mobility

#### Score



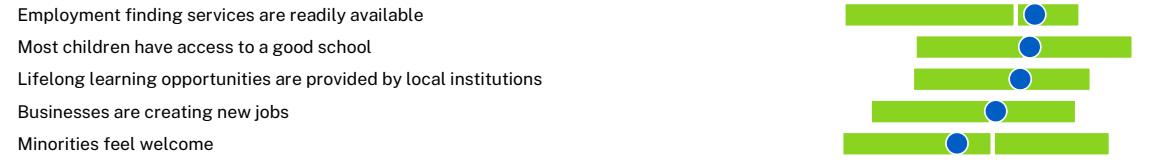
#### Activities

#### Score



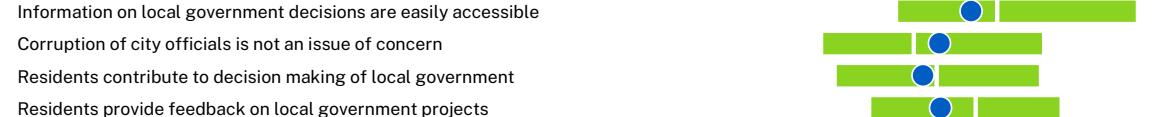
#### Opportunities (Work & School)

#### Score



#### Governance

#### Score

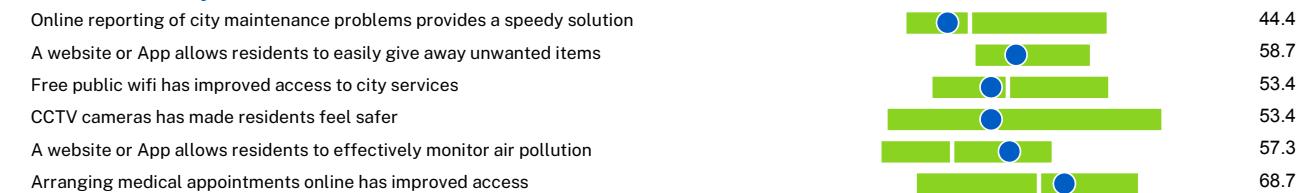


### TECHNOLOGIES

#### Score

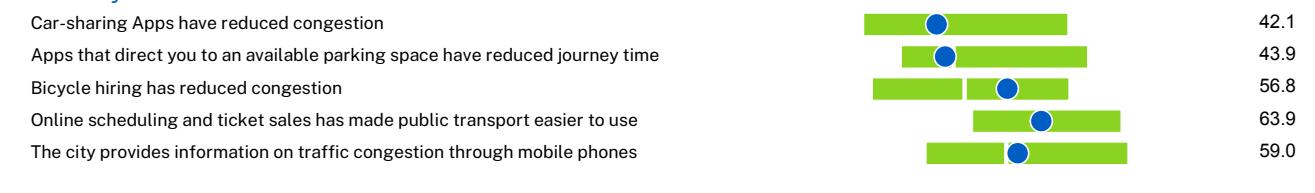
#### Health & Safety

#### Score



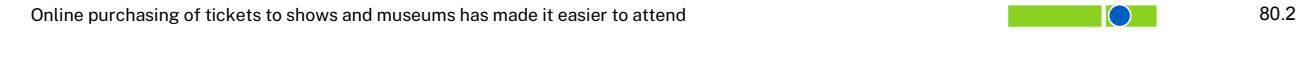
#### Mobility

#### Score



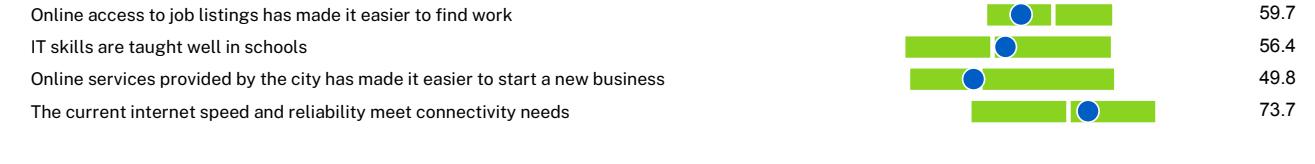
#### Activities

#### Score



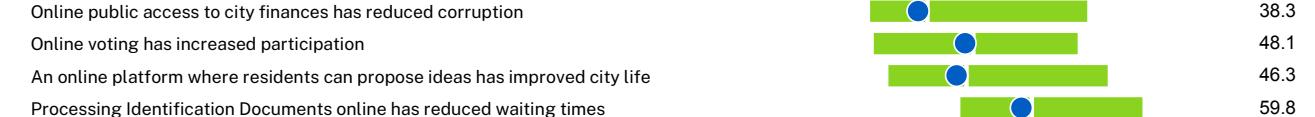
#### Opportunities (Work & School)

#### Score



#### Governance

#### Score



# Madrid

SMART  
CITY  
RANKING  
**38**

Out of 146

35 in 2024  
Out of 142

SMART  
CITY RATING

**BB**

BB in 2024

FACTOR  
RATINGS

**BBB**

STRUCTURES

**A**

TECHNOLOGIES

**2**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 6,780,000  
(UN World Urbanization Prospects)

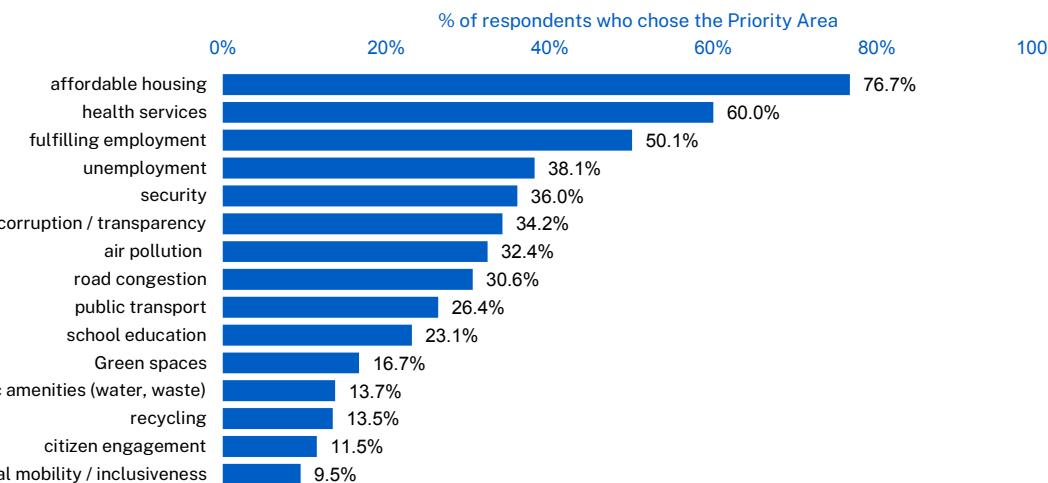
HDI 0.942  
(Global Data Lab)



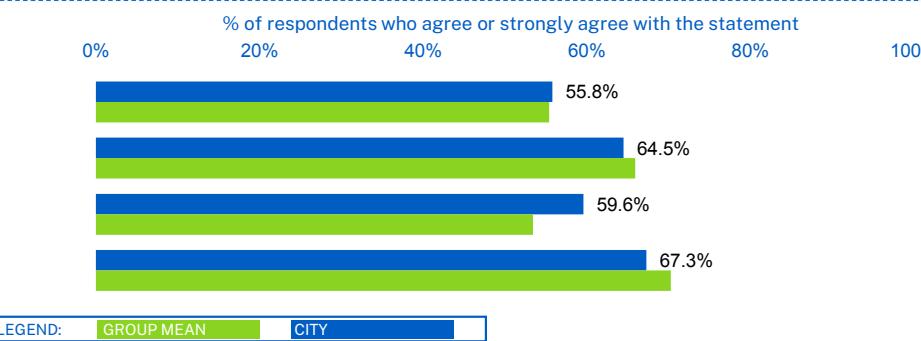
### Country

| Spain                       | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.889  | 0.894  | 0.896  | 0.899  | +0.003      |
| Life expectancy at birth    | 83.5   | 82.3   | 83.0   | 83.9   | +0.9        |
| Expected years of schooling | 17.5   | 17.5   | 17.8   | 17.8   | +0.0        |
| Mean years of schooling     | 10.4   | 10.6   | 10.6   | 10.6   | +0.0        |
| GNI per capita (PPP \$)     | 40,854 | 36,076 | 38,133 | 40,043 | +1,911      |

## PRIORITY AREAS



## ATTITUDES

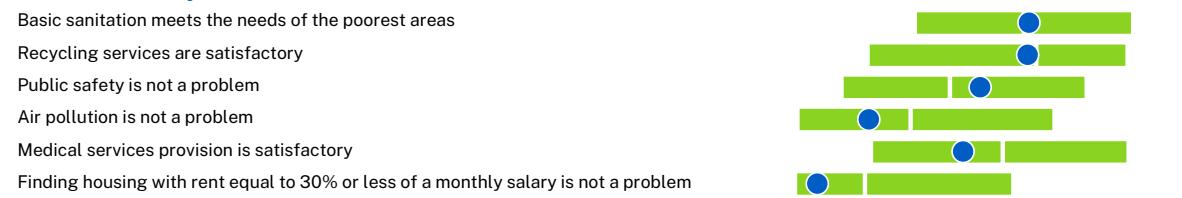


LEGEND: GROUP MEAN CITY

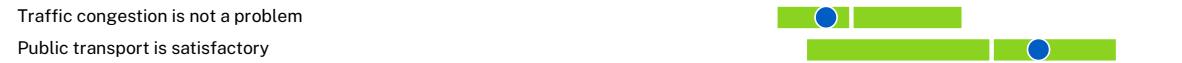
## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



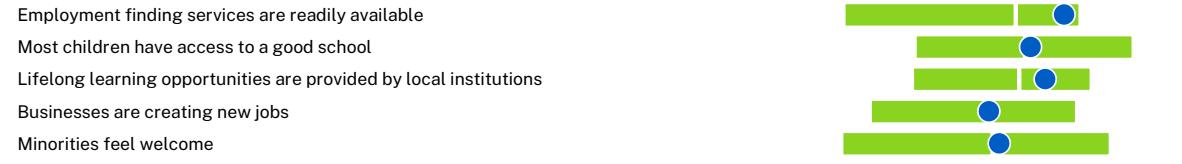
### Mobility



### Activities



### Opportunities (Work & School)

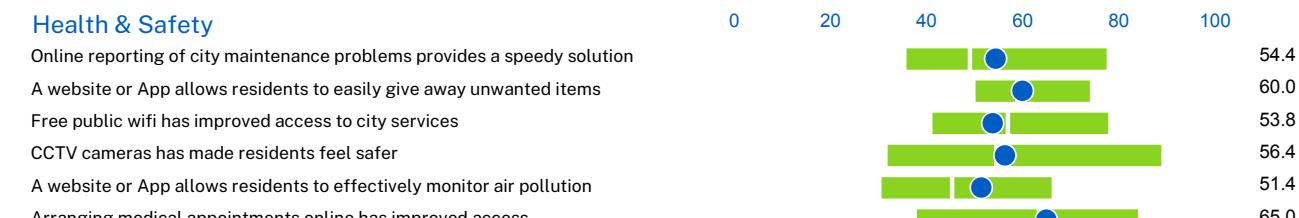


### Governance

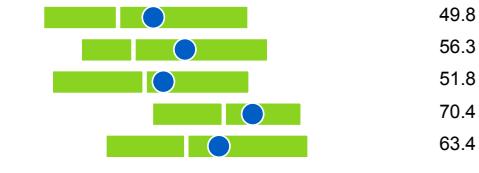


## TECHNOLOGIES

Score



### Mobility



### Activities



### Opportunities (Work & School)



### Governance



# Makassar

SMART  
CITY  
RANKING  
**114**

Out of 146



115 in 2024  
Out of 142

SMART  
CITY RATING

**CC**

CC in 2024

FACTOR  
RATINGS

**CC**

STRUCTURES

**CC**

TECHNOLOGIES

GROUP  
**4**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 1,700,000  
(UN World Urbanization Prospects)

HDI 0.707  
(Global Data Lab)

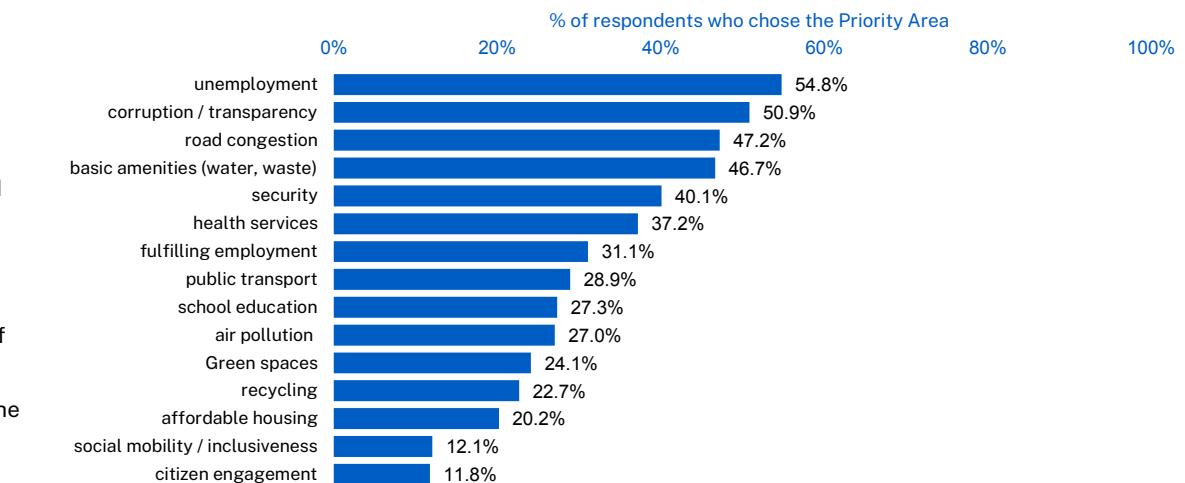


### Country

| Indonesia                   | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.698  | 0.701  | 0.708  | 0.712  | +0.004      |
| Life expectancy at birth    | 70.5   | 68.8   | 67.6   | 68.3   | +0.7        |
| Expected years of schooling | 13.9   | 14.0   | 14.0   | 14.0   | +0.0        |
| Mean years of schooling     | 8.4    | 8.6    | 8.6    | 8.6    | +0.0        |
| GNI per capita (PPP \$)     | 11,498 | 11,206 | 11,531 | 12,046 | +514        |

## PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. The higher the percentage of responses per area, the greater the priority for the city.



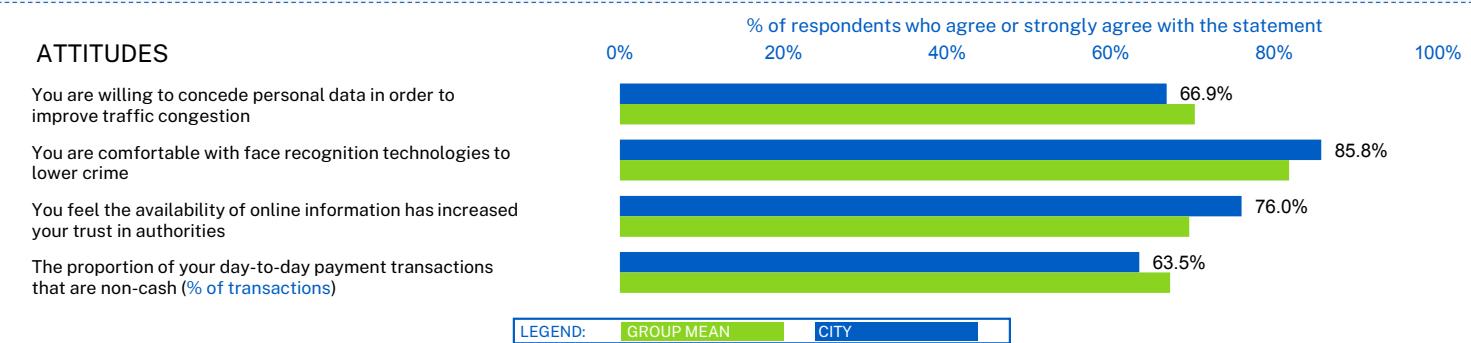
## ATTITUDES

You are willing to concede personal data in order to improve traffic congestion

You are comfortable with face recognition technologies to lower crime

You feel the availability of online information has increased your trust in authorities

The proportion of your day-to-day payment transactions that are non-cash (% of transactions)



LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

### Health & Safety

Basic sanitation meets the needs of the poorest areas



### Mobility

Traffic congestion is not a problem



### Activities

Green spaces are satisfactory



### Opportunities (Work & School)

Employment finding services are readily available



### Governance

Information on local government decisions are easily accessible



## TECHNOLOGIES

### Health & Safety

Online reporting of city maintenance problems provides a speedy solution



### Mobility

Car-sharing Apps have reduced congestion



### Activities

Online purchasing of tickets to shows and museums has made it easier to attend



### Opportunities (Work & School)

Online access to job listings has made it easier to find work



### Governance

Online public access to city finances has reduced corruption



All ratings range from AAA to D

# Manama

SMART  
CITY  
RANKING  
**36**  
Out of 146

not in 2024

SMART  
CITY RATING

**BB**

not in 2024

FACTOR  
RATINGS

**BB**

STRUCTURES

**BB**

TECHNOLOGIES

**3**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 740,000  
(UN World Urbanization Prospects)

HDI 0.888  
(Global Data Lab)



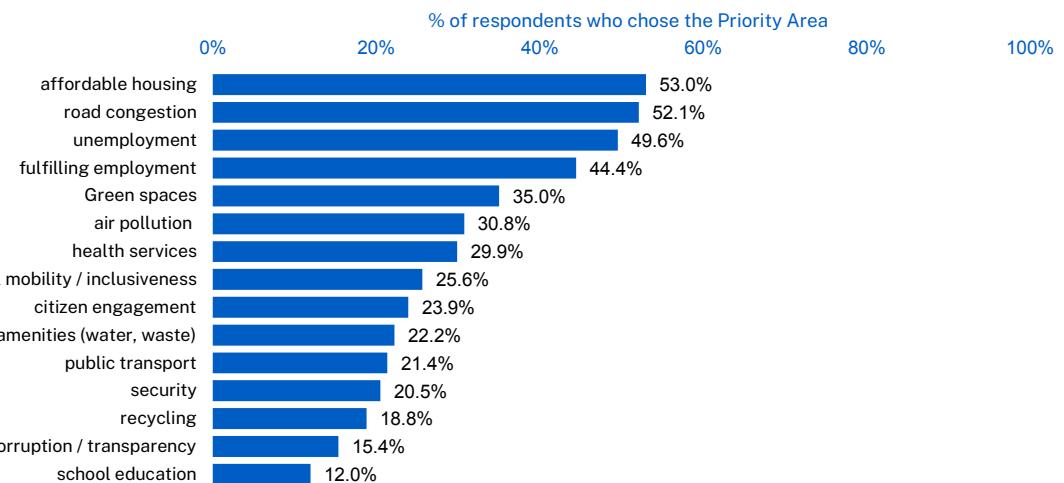
not in 2024

### Country

| Bahrain                     | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.859  | 0.862  | 0.867  | 0.880  | +0.013      |
| Life expectancy at birth    | 80.0   | 79.2   | 78.8   | 79.2   | +0.5        |
| Expected years of schooling | 16.4   | 16.4   | 16.3   | 16.3   | -0.0        |
| Mean years of schooling     | 10.8   | 11.0   | 11.0   | 11.0   | +0.0        |
| GNI per capita (PPP \$)     | 46,857 | 44,781 | 46,757 | 48,731 | +1,974      |

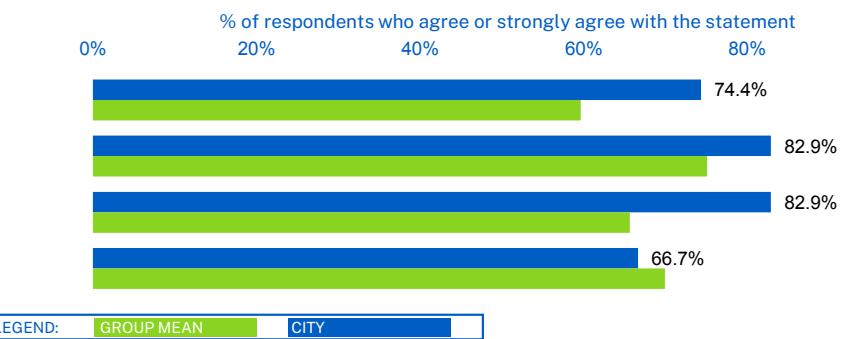
## PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. The higher the percentage of responses per area, the greater the priority for the city.



## ATTITUDES

- You are willing to concede personal data in order to improve traffic congestion
- You are comfortable with face recognition technologies to lower crime
- You feel the availability of online information has increased your trust in authorities
- The proportion of your day-to-day payment transactions that are non-cash (% of transactions)



LEGEND: GROUP MEAN CITY

**BB**

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem



### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access



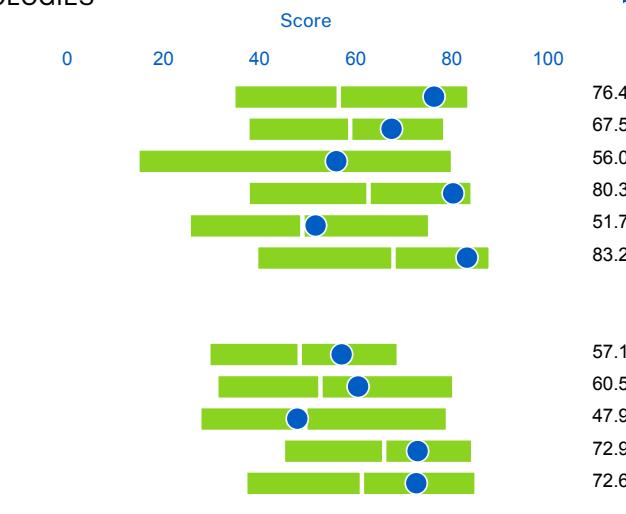
### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory



### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones



### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory



### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend



### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome



### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs



### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects



### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times



# Manchester

SMART  
CITY  
RANKING  
**64**

Out of 146



71 in 2024  
Out of 142

SMART  
CITY RATING

**BB**

BB in 2024

FACTOR  
RATINGS

**BB**

STRUCTURES

**BBB**

TECHNOLOGIES

**2**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 2,810,000  
(UN World Urbanization Prospects)

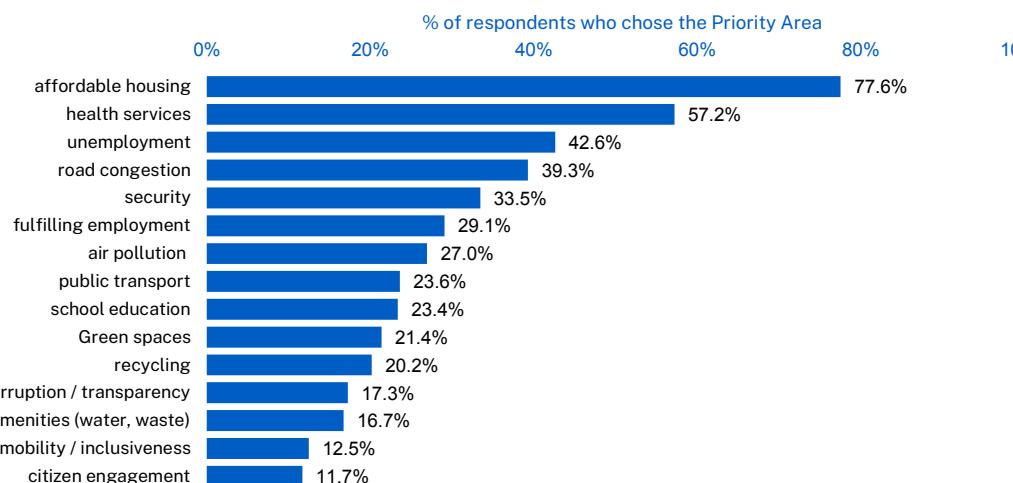
HDI 0.927  
(Global Data Lab)



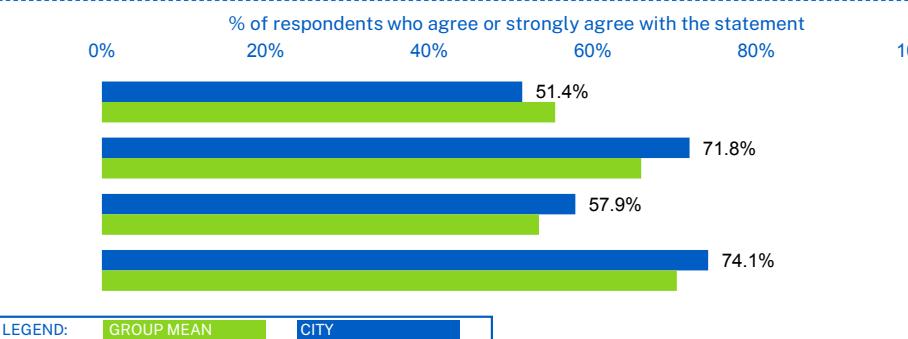
### Country

| United Kingdom              | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.923  | 0.926  | 0.929  | 0.928  | -0.001      |
| Life expectancy at birth    | 81.7   | 80.4   | 80.7   | 82.2   | +1.4        |
| Expected years of schooling | 17.2   | 17.2   | 17.6   | 17.6   | +0.0        |
| Mean years of schooling     | 13.3   | 13.4   | 13.4   | 13.4   | +0.0        |
| GNI per capita (PPP \$)     | 47,066 | 40,799 | 44,750 | 46,624 | +1,874      |

## PRIORITY AREAS



## ATTITUDES

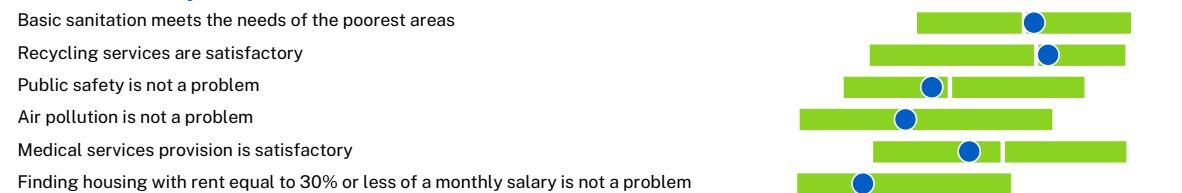


LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

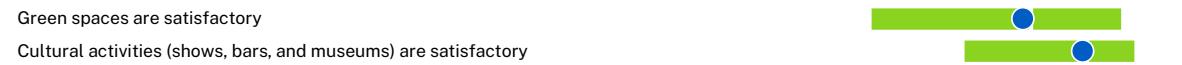
### Health & Safety



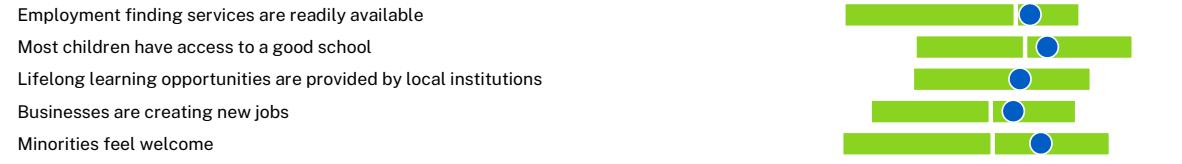
### Mobility



### Activities



### Opportunities (Work & School)



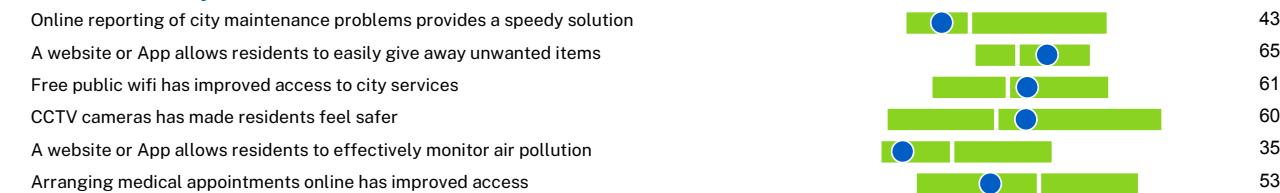
### Governance



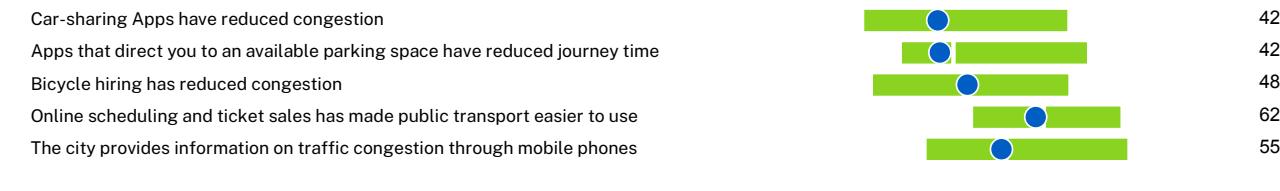
## TECHNOLOGIES

Score

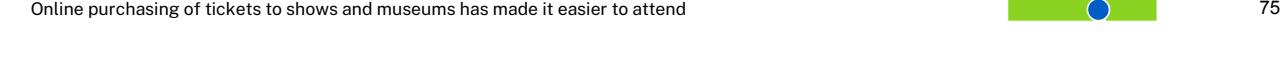
### Health & Safety



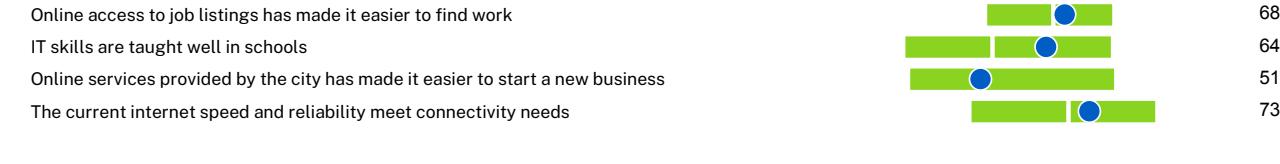
### Mobility



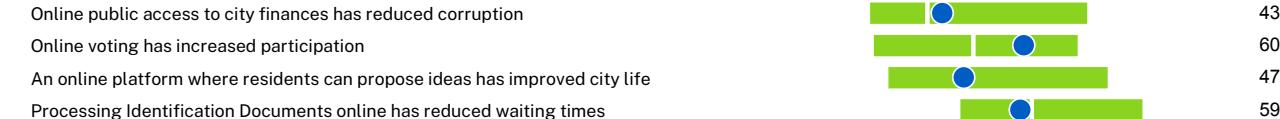
### Activities



### Opportunities (Work & School)



### Governance



# Manila

SMART  
CITY  
RANKING  
**125**

Out of 146

121 in 2024  
Out of 142

SMART  
CITY RATING

**C**

C in 2024

FACTOR  
RATINGS

**C**

STRUCTURES

**C**

TECHNOLOGIES

**4**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 14,940,000  
(UN World Urbanization Prospects)

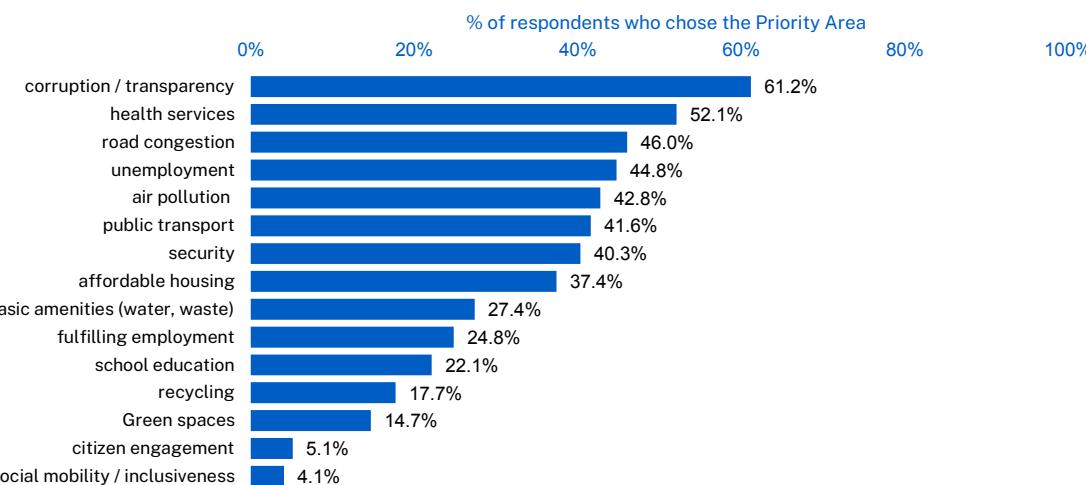
HDI 0.743  
(Global Data Lab)



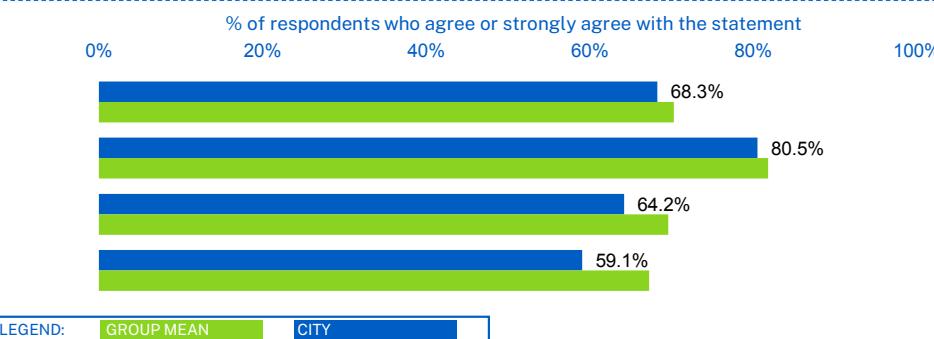
### Country

| Philippines                 | 2019  | 2020  | 2021  | 2022  | 1 yr change |
|-----------------------------|-------|-------|-------|-------|-------------|
| HDI                         | 0.696 | 0.696 | 0.700 | 0.706 | +0.006      |
| Life expectancy at birth    | 71.9  | 72.1  | 69.3  | 72.2  | +2.9        |
| Expected years of schooling | 13.0  | 12.8  | 12.8  | 12.8  | +0.0        |
| Mean years of schooling     | 9.0   | 9.0   | 9.0   | 9.0   | +0.0        |
| GNI per capita (PPP \$)     | 9,590 | 8,355 | 8,369 | 9,059 | +690        |

## PRIORITY AREAS



## ATTITUDES

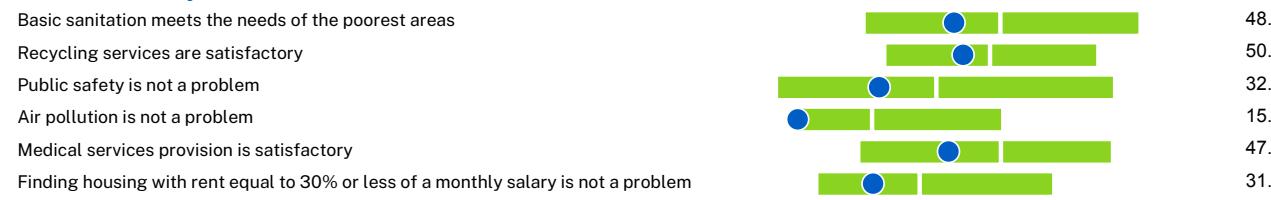


LEGEND: GROUP MEAN CITY

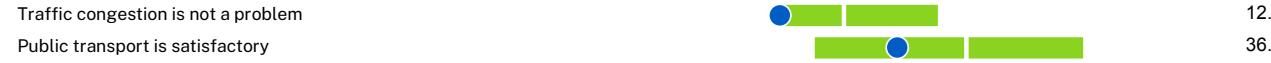
## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



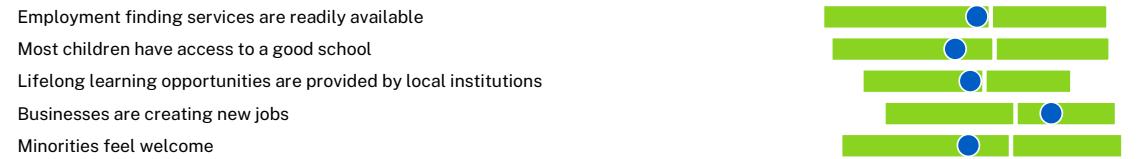
### Mobility



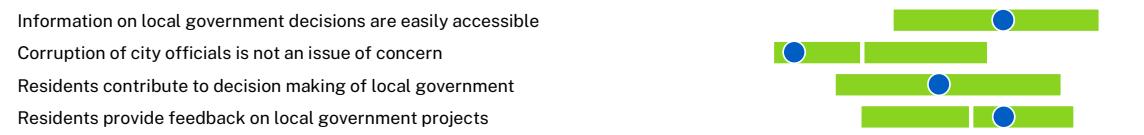
### Activities



### Opportunities (Work & School)



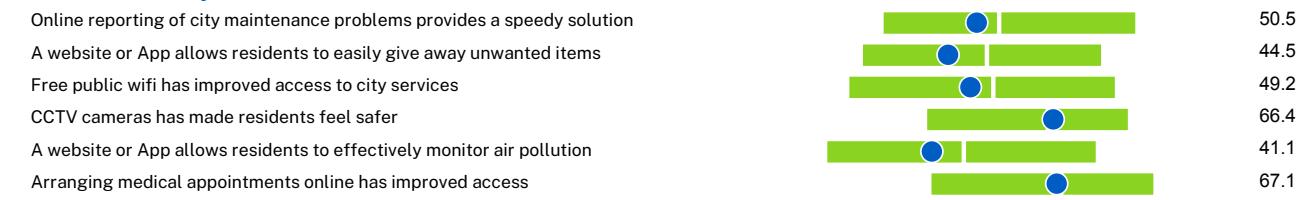
### Governance



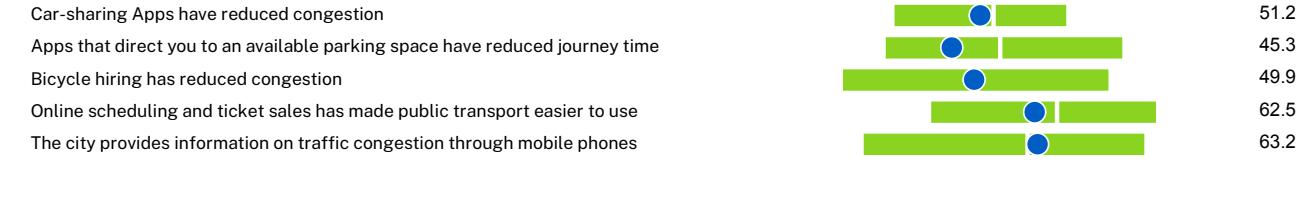
## TECHNOLOGIES

Score

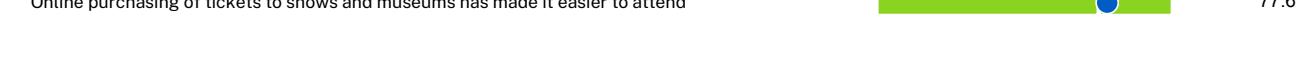
### Health & Safety



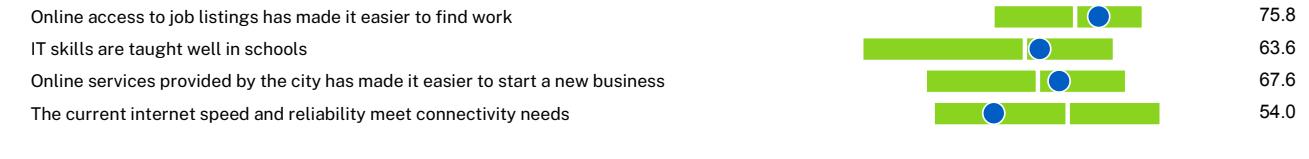
### Mobility



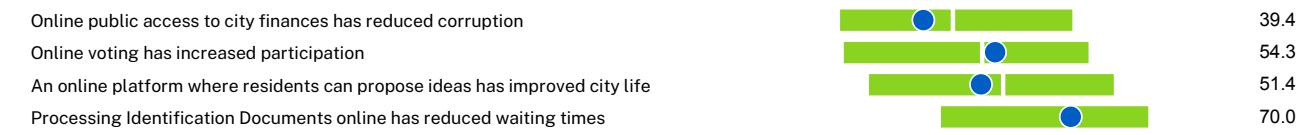
### Activities



### Opportunities (Work & School)



### Governance



All ratings range  
from AAA to D

# Marseille

SMART  
CITY  
RANKING  
**107**

Out of 146

104 in 2024  
Out of 142

SMART  
CITY RATING

**CCC**

CC in 2024

FACTOR  
RATINGS

**CCC**

STRUCTURES

**CCC**

TECHNOLOGIES

GROUP

**2**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 1,640,000  
(UN World Urbanization Prospects)

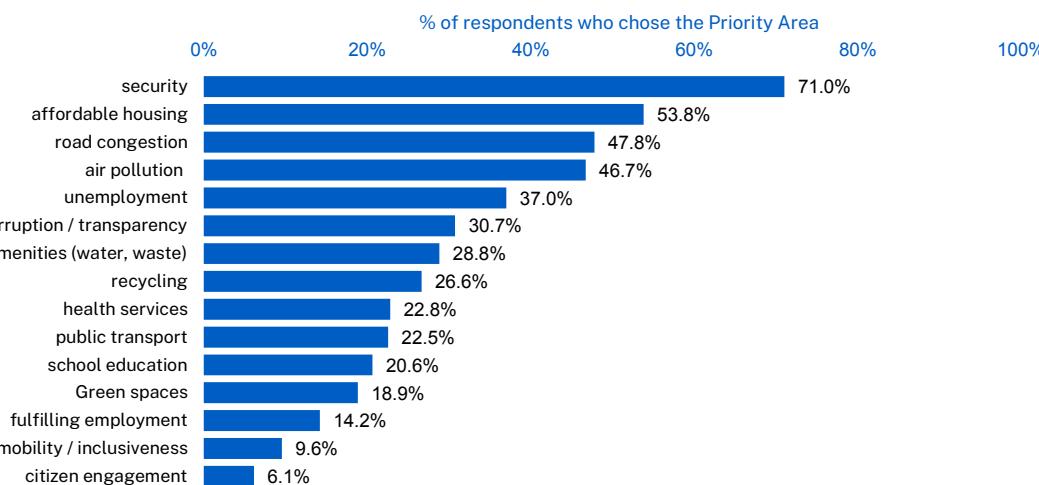
HDI 0.912  
(Global Data Lab)



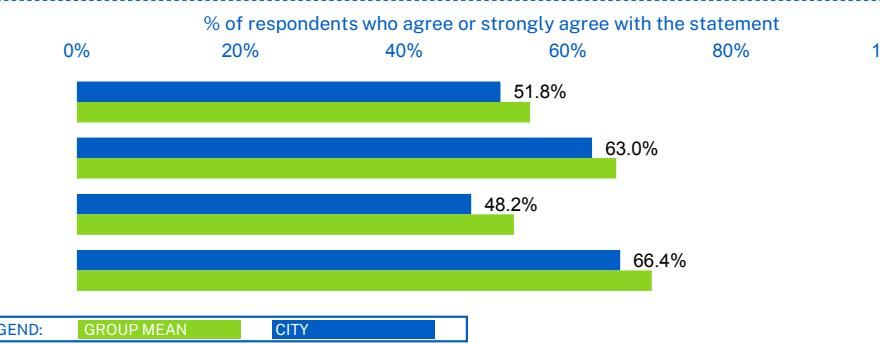
### Country

| France                      | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.893  | 0.896  | 0.899  | 0.903  | +0.004      |
| Life expectancy at birth    | 82.7   | 82.2   | 82.5   | 83.2   | +0.7        |
| Expected years of schooling | 15.9   | 15.9   | 16.0   | 16.0   | +0.0        |
| Mean years of schooling     | 11.6   | 11.7   | 11.7   | 11.7   | +0.0        |
| GNI per capita (PPP \$)     | 46,907 | 42,891 | 46,322 | 47,379 | +1,057      |

## PRIORITY AREAS



## ATTITUDES

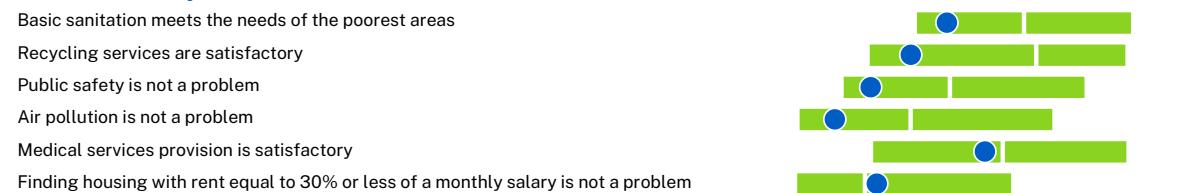


LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



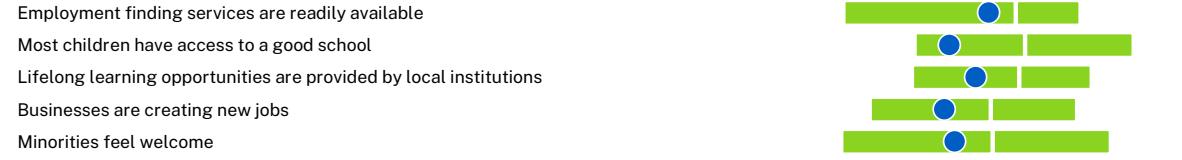
### Mobility



### Activities



### Opportunities (Work & School)

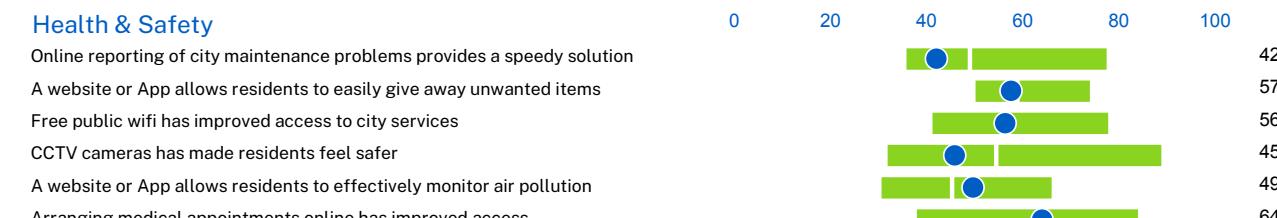


### Governance

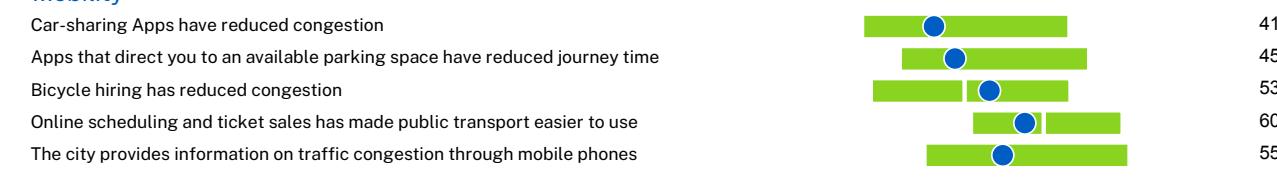


## TECHNOLOGIES

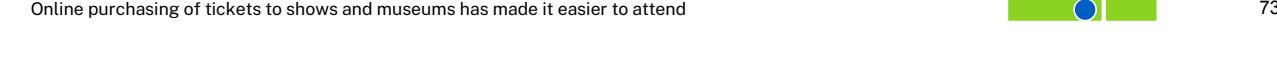
Score



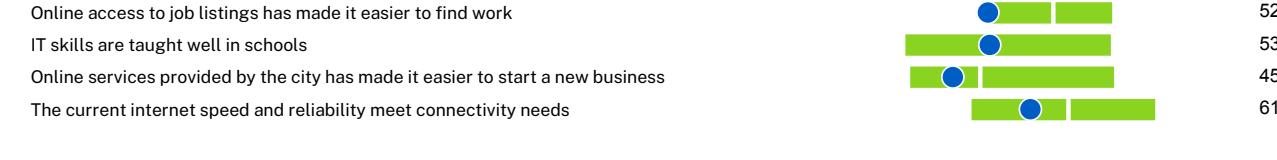
### Mobility



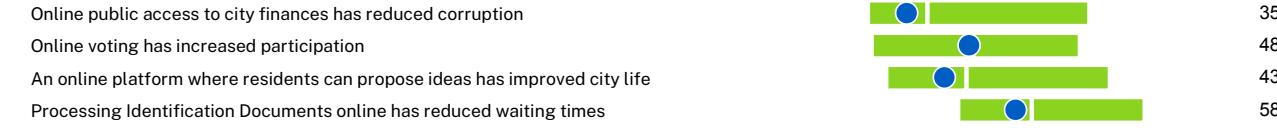
### Activities



### Opportunities (Work & School)



### Governance



## SMART CITY RANKING

**39**

Out of 146



52 in 2024  
Out of 142

## SMART CITY RATING

**BB**

B in 2024

## FACTOR RATINGS

**BB**

STRUCTURES

**BB**

## TECHNOLOGIES

**3**

All ratings range from AAA to D

### BACKGROUND INFORMATION

#### City

Population 2,180,000  
(UN World Urbanization Prospects)

HDI 0.871  
(Global Data Lab)

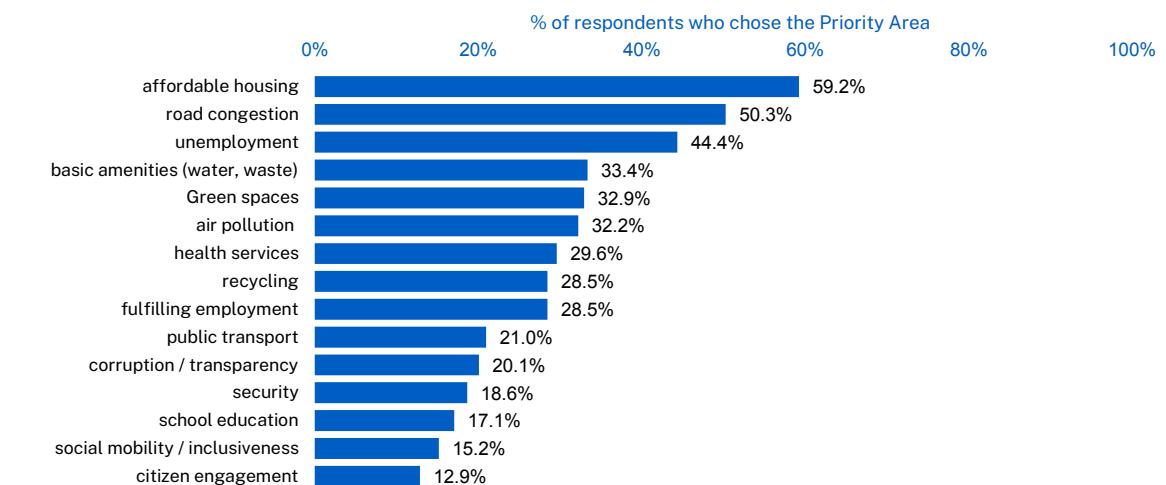


Map tiles by Stamen Design CC BY 3.0 Map Data © OpenStreetMap

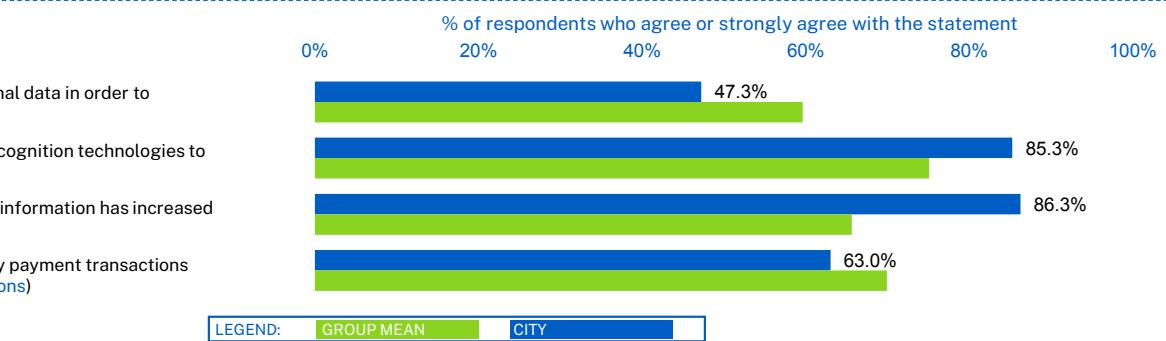
#### Country

| Saudi Arabia                | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.842  | 0.846  | 0.849  | 0.856  | +0.007      |
| Life expectancy at birth    | 77.3   | 76.2   | 76.9   | 77.9   | +1.0        |
| Expected years of schooling | 15.0   | 15.2   | 15.2   | 15.2   | +0.0        |
| Mean years of schooling     | 10.9   | 11.3   | 11.3   | 11.3   | +0.0        |
| GNI per capita (PPP \$)     | 47,529 | 45,563 | 47,441 | 50,620 | +3,179      |

### PRIORITY AREAS



### ATTITUDES

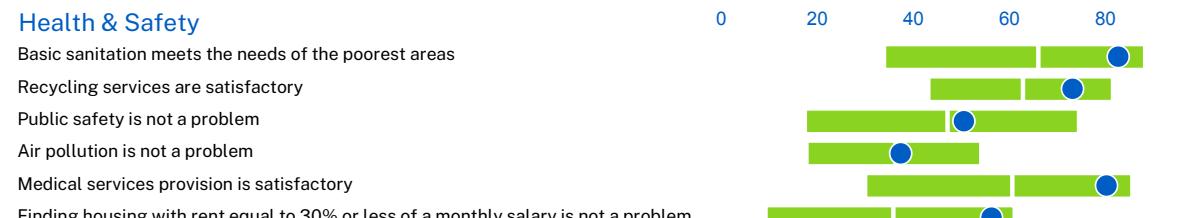


LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

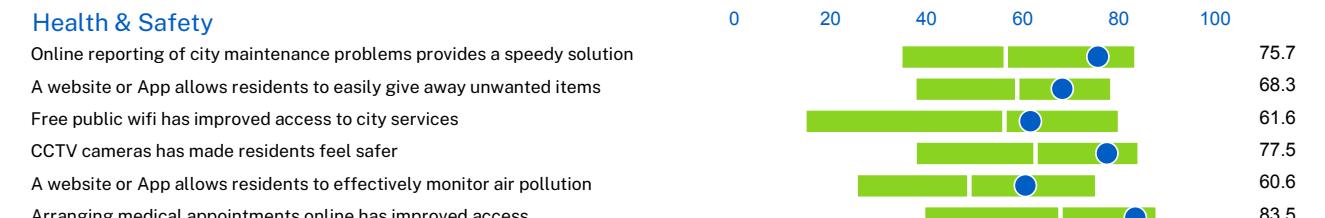
### STRUCTURES

#### Score



### TECHNOLOGIES

#### Score



All ratings range from AAA to D

# Medan

SMART  
CITY  
RANKING  
**113**  
Out of 146

112 in 2024  
Out of 142

SMART  
CITY RATING

**CC**  
CC in 2024

FACTOR  
RATINGS

**CC**

STRUCTURES

**CC**

TECHNOLOGIES

GROUP

**4**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

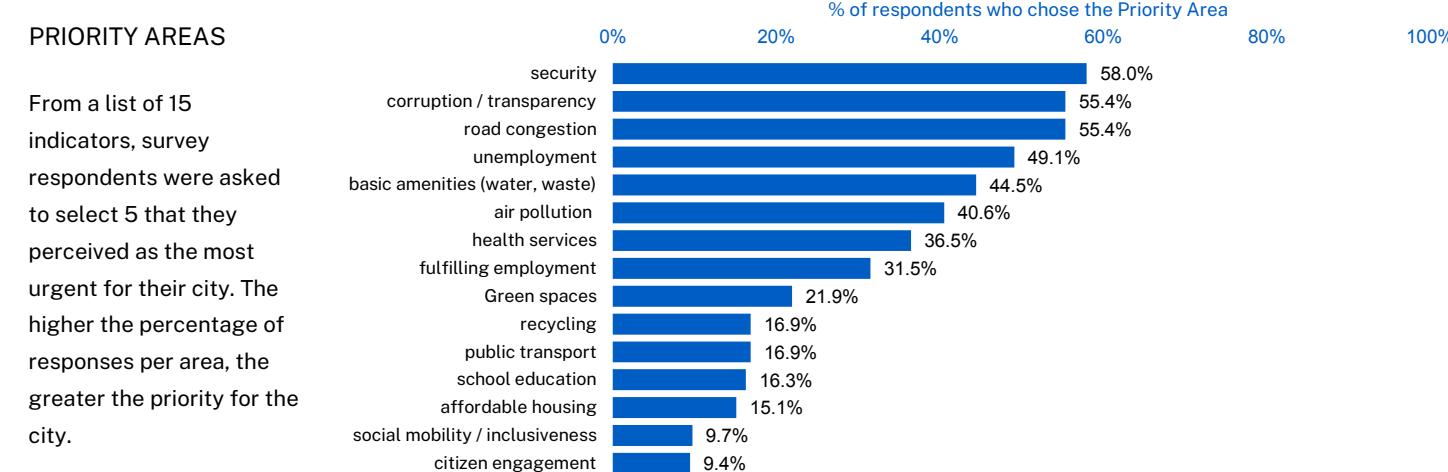
|            |  |
|------------|--|
| Population | 2,480,000<br>(UN World Urbanization Prospects) |
| HDI        | 0.719<br>(Global Data Lab)                     |



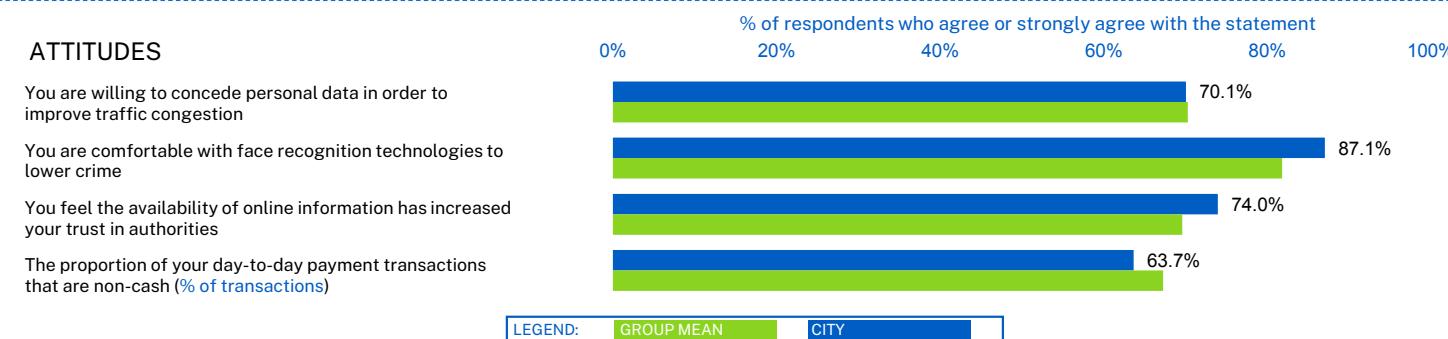
### Country

| Indonesia                   | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.698  | 0.701  | 0.708  | 0.712  | +0.004      |
| Life expectancy at birth    | 70.5   | 68.8   | 67.6   | 68.3   | +0.7        |
| Expected years of schooling | 13.9   | 14.0   | 14.0   | 14.0   | +0.0        |
| Mean years of schooling     | 8.4    | 8.6    | 8.6    | 8.6    | +0.0        |
| GNI per capita (PPP \$)     | 11,498 | 11,206 | 11,531 | 12,046 | +514        |

## PRIORITY AREAS



## ATTITUDES

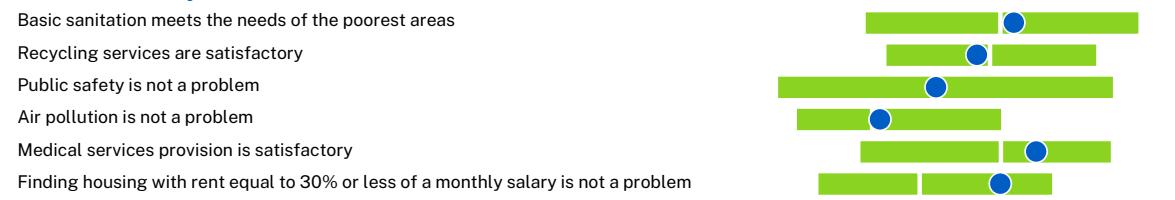


LEGEND: GROUP MEAN CITY

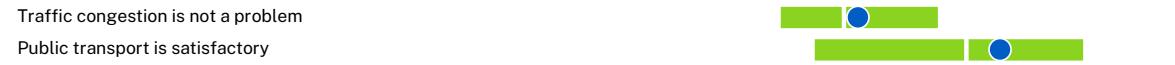
## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

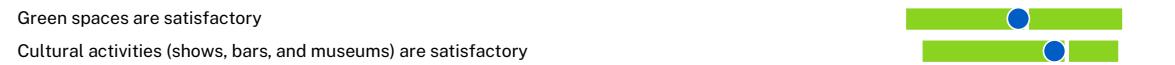
### Health & Safety



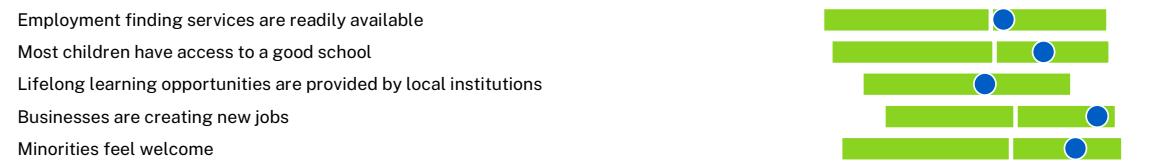
### Mobility



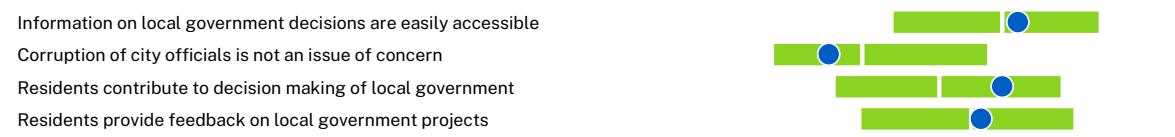
### Activities



### Opportunities (Work & School)



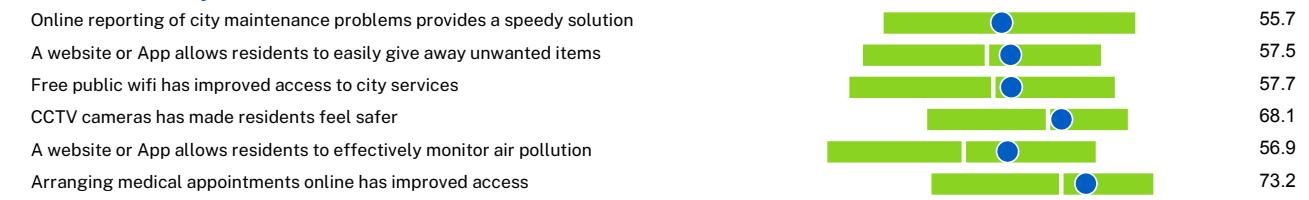
### Governance



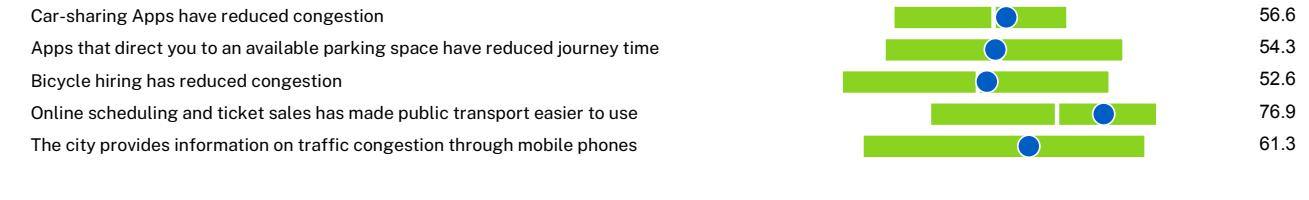
## TECHNOLOGIES

Score

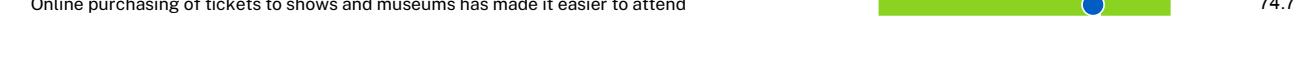
### Health & Safety



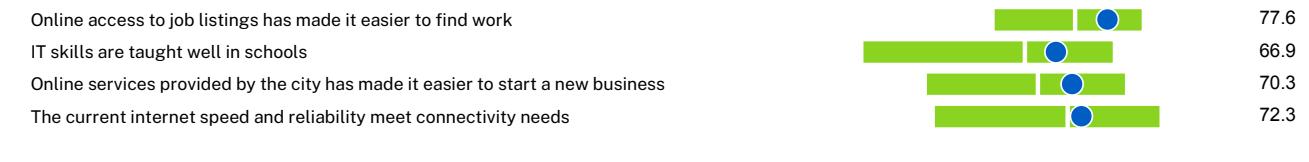
### Mobility



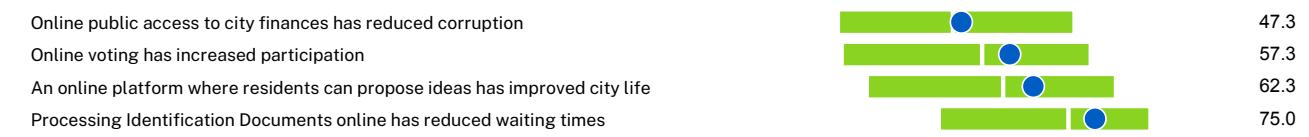
### Activities



### Opportunities (Work & School)



### Governance



# Medellin

SMART  
CITY  
RANKING  
**118**  
Out of 146



119 in 2024  
Out of 142

SMART  
CITY RATING

**CC**

C in 2024

FACTOR  
RATINGS

**CC**

STRUCTURES

**CC**

TECHNOLOGIES

**4**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 4,140,000  
(UN World Urbanization Prospects)

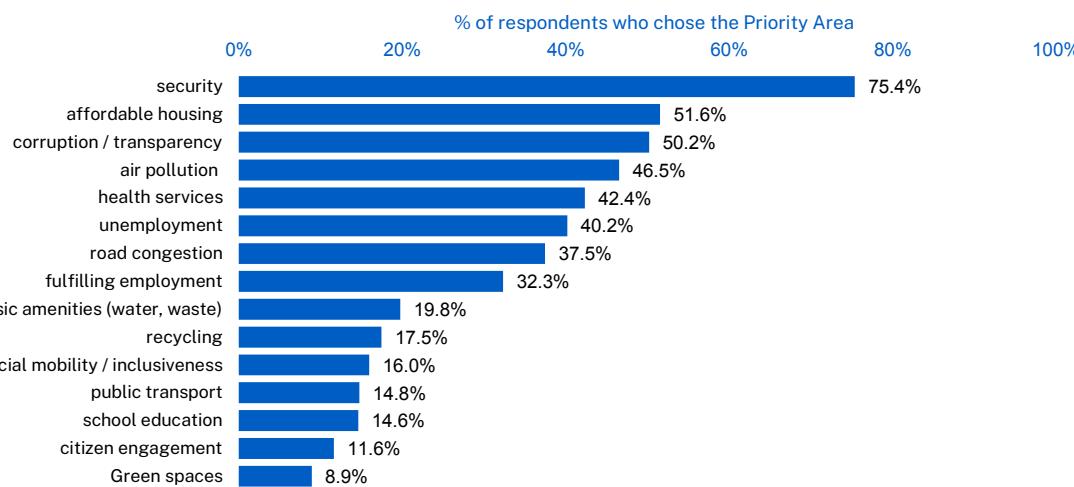
HDI 0.763  
(Global Data Lab)



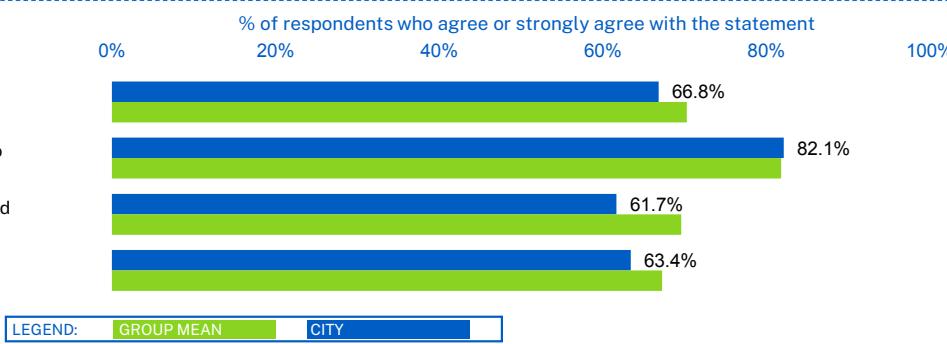
### Country

| Colombia                    | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.758  | 0.763  | 0.765  | 0.766  | +0.001      |
| Life expectancy at birth    | 76.8   | 74.8   | 72.8   | 73.7   | +0.8        |
| Expected years of schooling | 14.5   | 14.4   | 14.4   | 14.4   | +0.0        |
| Mean years of schooling     | 8.6    | 8.9    | 8.9    | 8.9    | +0.0        |
| GNI per capita (PPP \$)     | 14,294 | 13,220 | 14,403 | 15,014 | +611        |

## PRIORITY AREAS



## ATTITUDES

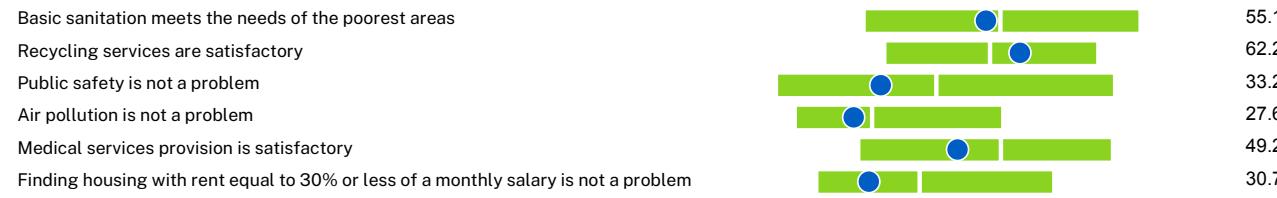


LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



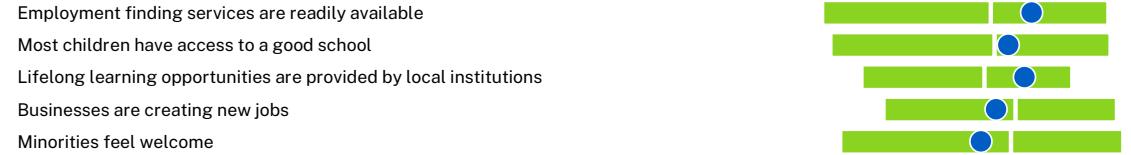
### Mobility



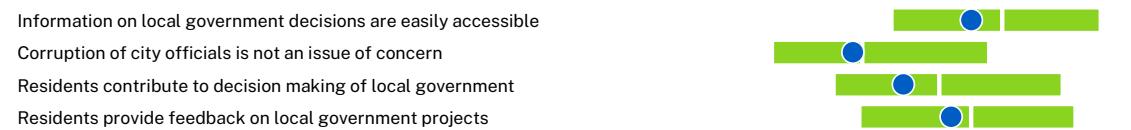
### Activities



### Opportunities (Work & School)



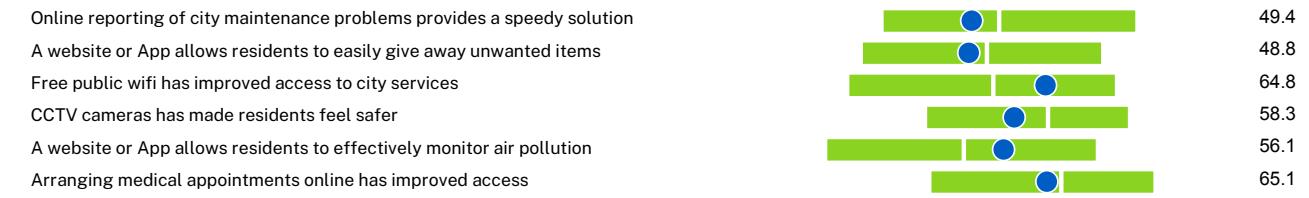
### Governance



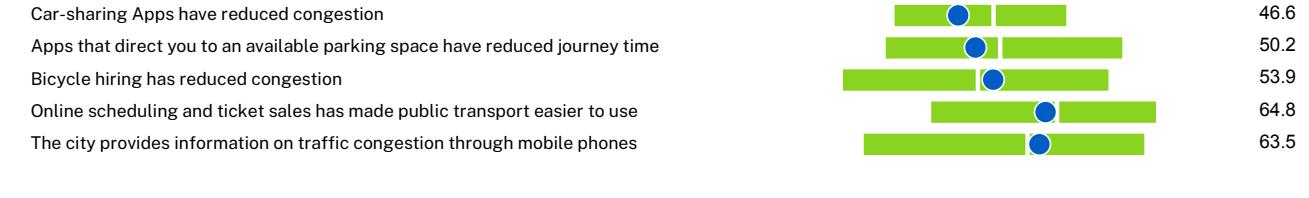
## TECHNOLOGIES

Score

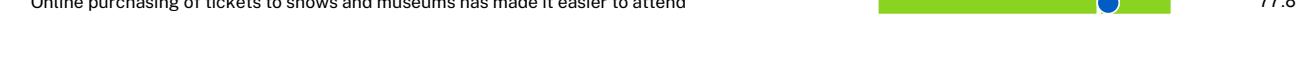
### Health & Safety



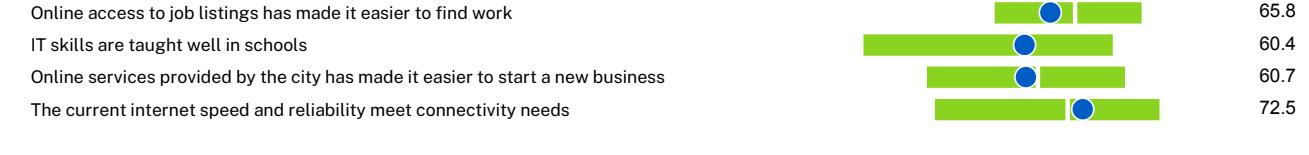
### Mobility



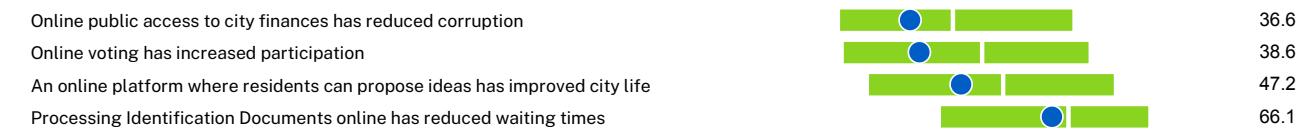
### Activities



### Opportunities (Work & School)



### Governance



# Medina

SMART  
CITY  
RANKING  
**67**

Out of 146



74 in 2024  
Out of 142

SMART  
CITY RATING

**CCC**

CCC in 2024

FACTOR  
RATINGS

**B**

STRUCTURES

**B**

TECHNOLOGIES

GROUP

**3**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 1,600,000  
(UN World Urbanization Prospects)

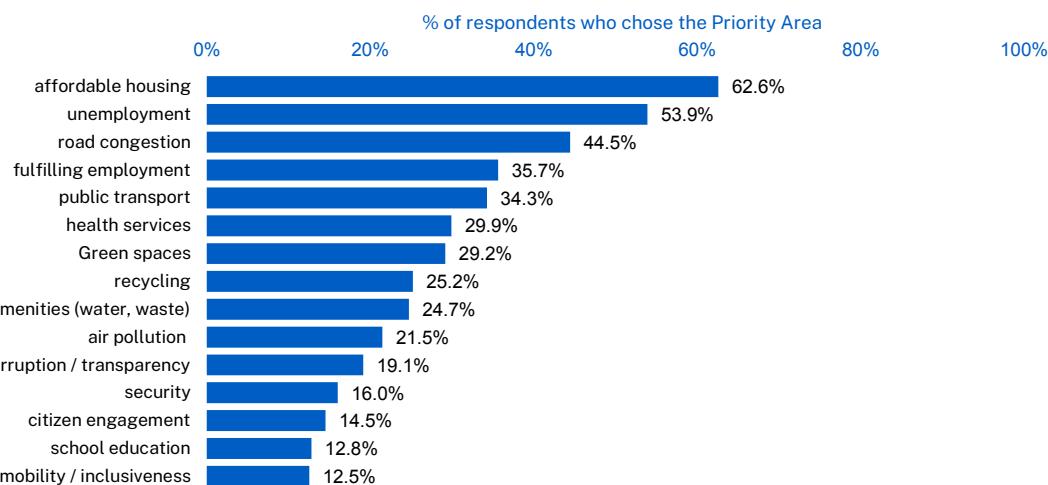
HDI 0.871  
(Global Data Lab)



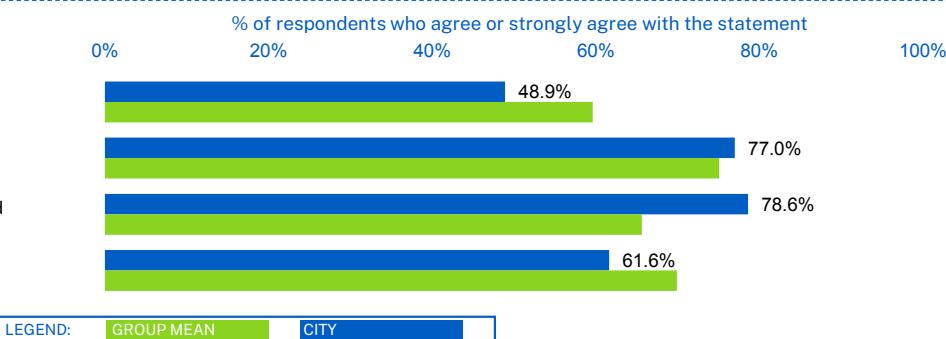
### Country

| Saudi Arabia                | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.842  | 0.846  | 0.849  | 0.856  | +0.007      |
| Life expectancy at birth    | 77.3   | 76.2   | 76.9   | 77.9   | +1.0        |
| Expected years of schooling | 15.0   | 15.2   | 15.2   | 15.2   | +0.0        |
| Mean years of schooling     | 10.9   | 11.3   | 11.3   | 11.3   | +0.0        |
| GNI per capita (PPP \$)     | 47,529 | 45,563 | 47,441 | 50,620 | +3,179      |

## PRIORITY AREAS



## ATTITUDES

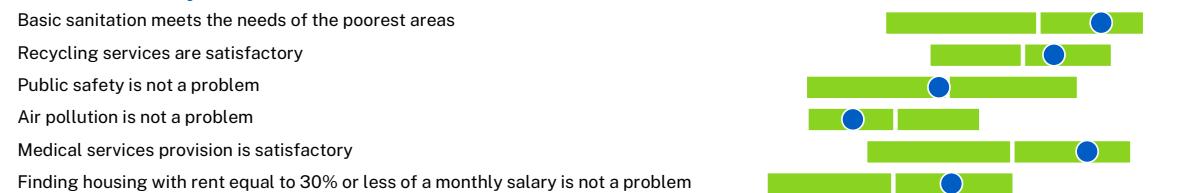


LEGEND: GROUP MEAN CITY

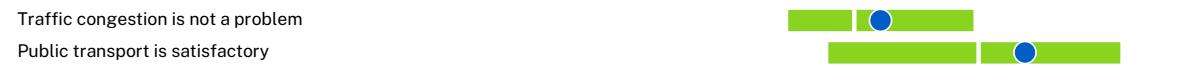
## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



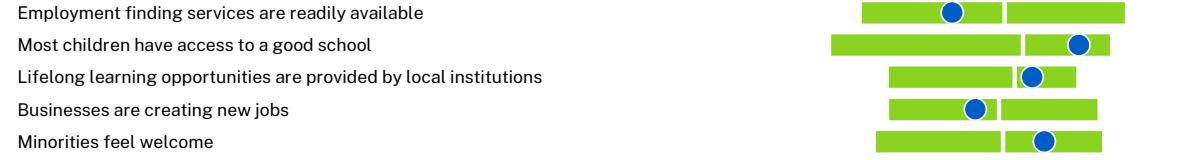
### Mobility



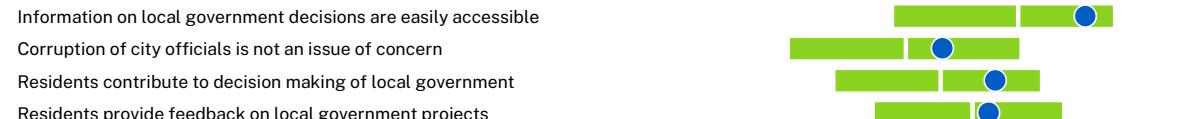
### Activities



### Opportunities (Work & School)

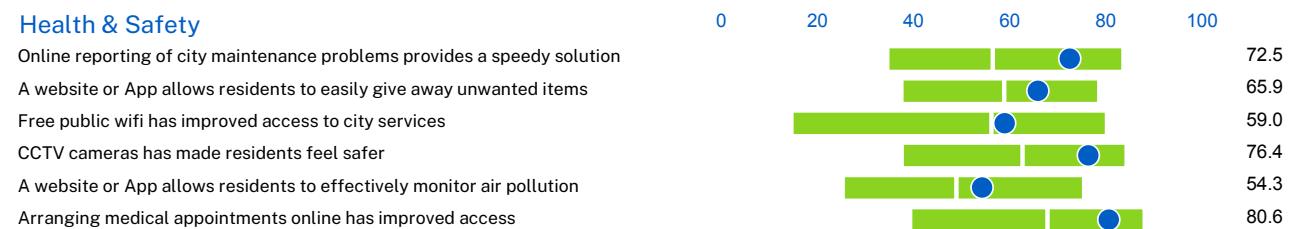


### Governance

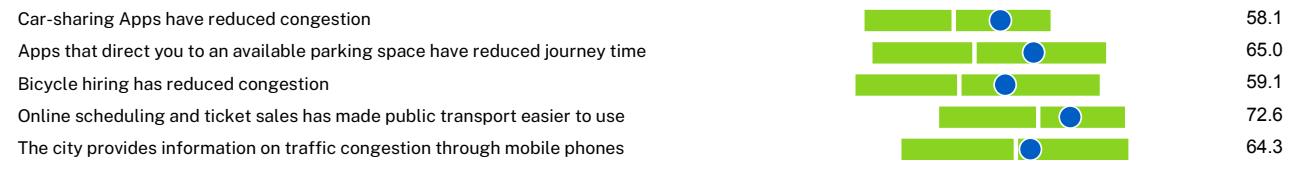


## TECHNOLOGIES

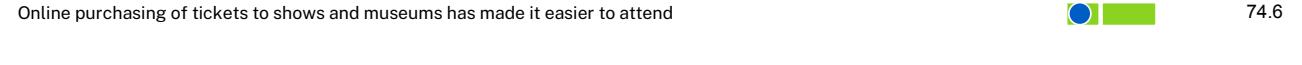
Score



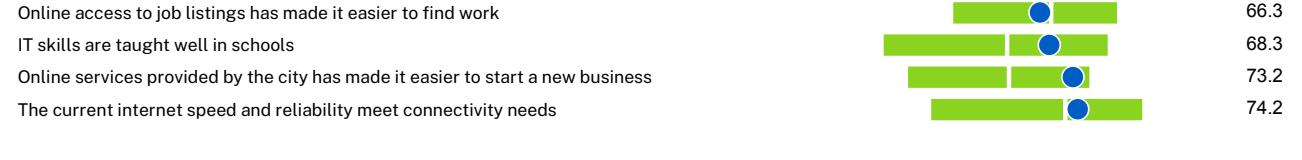
### Mobility



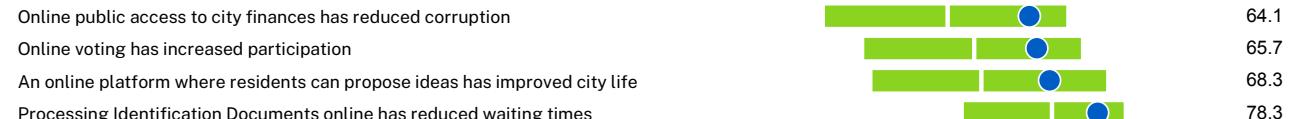
### Activities



### Opportunities (Work & School)



### Governance



# Melbourne

SMART  
CITY  
RANKING

**44**

Out of 146

33 in 2024  
Out of 142

SMART  
CITY RATING

**BBB**

A in 2024

FACTOR  
RATINGS

**BBB**

STRUCTURES

**BB**

TECHNOLOGIES

**2**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 5,320,000  
(UN World Urbanization Prospects)

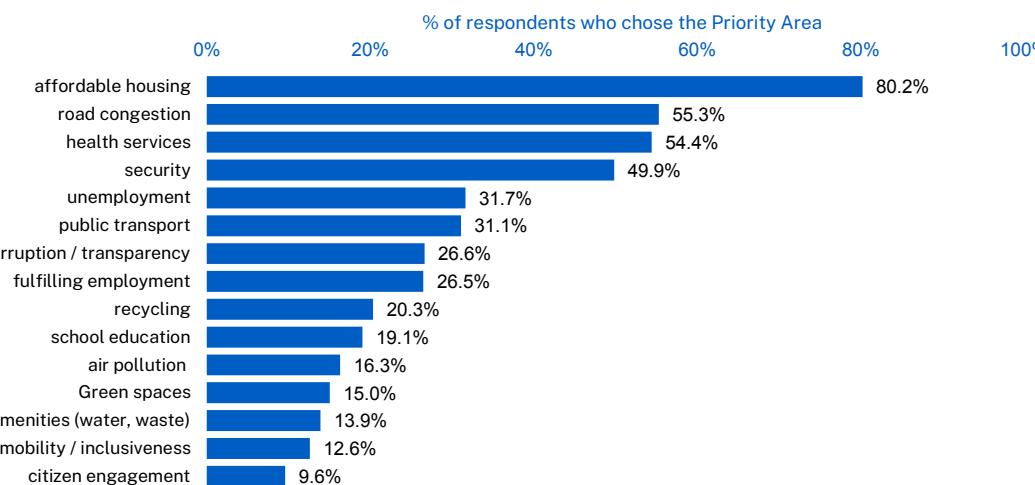
HDI 0.942  
(Global Data Lab)



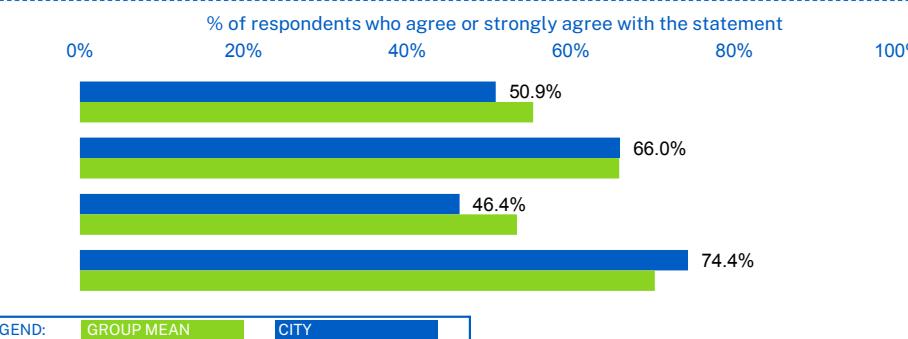
### Country

| Australia                   | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.933  | 0.936  | 0.937  | 0.941  | +0.004      |
| Life expectancy at birth    | 83.1   | 84.3   | 84.5   | 83.6   | -0.9        |
| Expected years of schooling | 21.4   | 20.9   | 21.1   | 21.1   | +0.0        |
| Mean years of schooling     | 12.7   | 12.7   | 12.7   | 12.7   | +0.0        |
| GNI per capita (PPP \$)     | 47,054 | 48,075 | 48,076 | 49,257 | +1,181      |

## PRIORITY AREAS



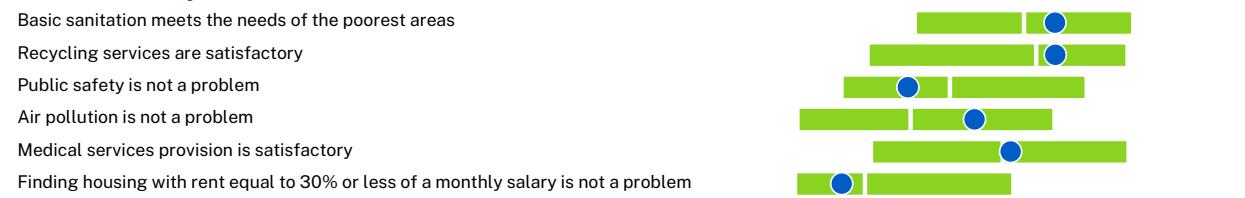
## ATTITUDES



## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



### Mobility



### Activities



### Opportunities (Work & School)

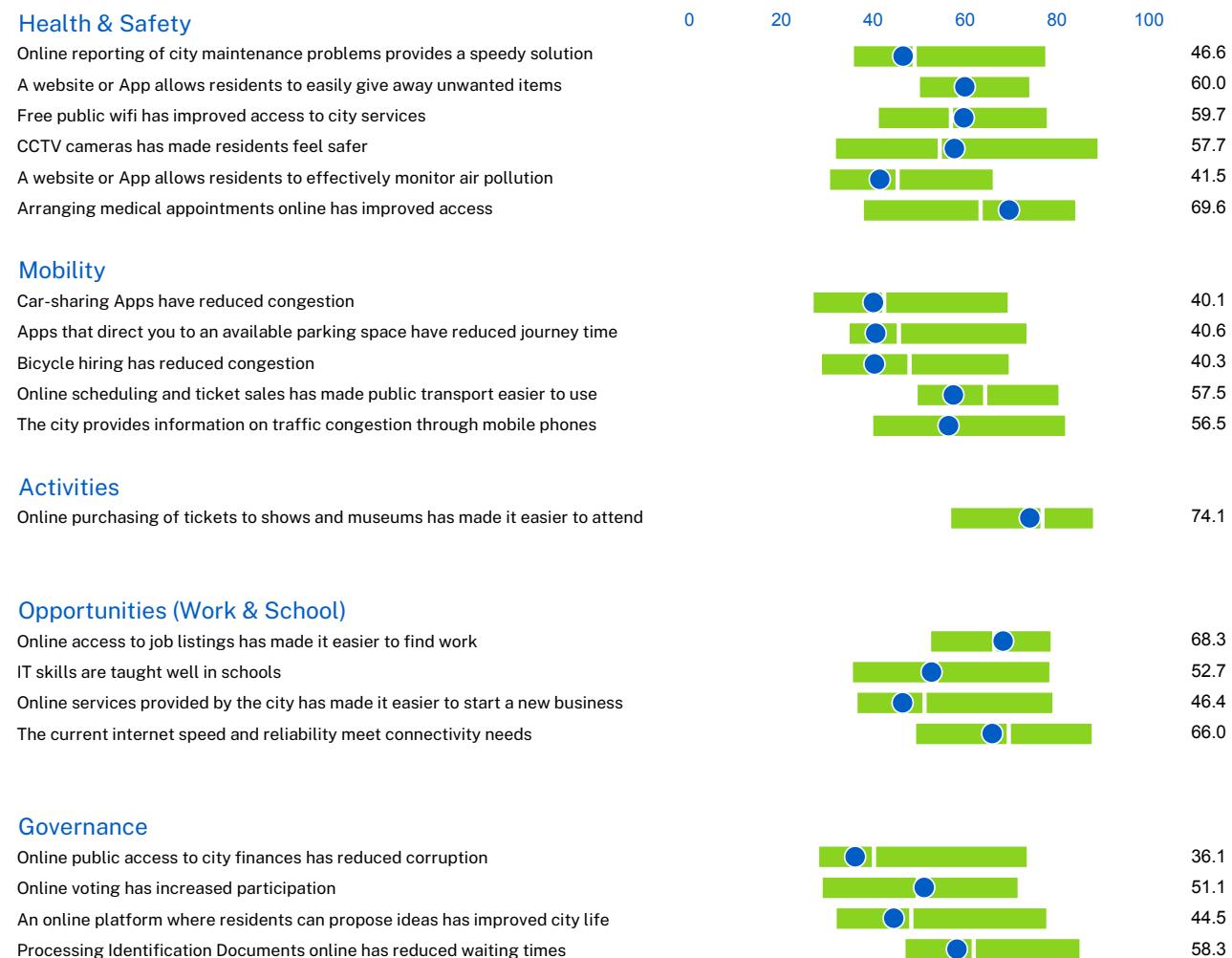


### Governance



## TECHNOLOGIES

Score



# Mexico City

SMART  
CITY  
RANKING  
**119**

Out of 146



122 in 2024  
Out of 142

SMART  
CITY RATING



C in 2024

FACTOR  
RATINGS

**CC**

STRUCTURES

**CC**

TECHNOLOGIES

GROUP  
**3**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 22,510,000  
(UN World Urbanization Prospects)

HDI 0.839  
(Global Data Lab)

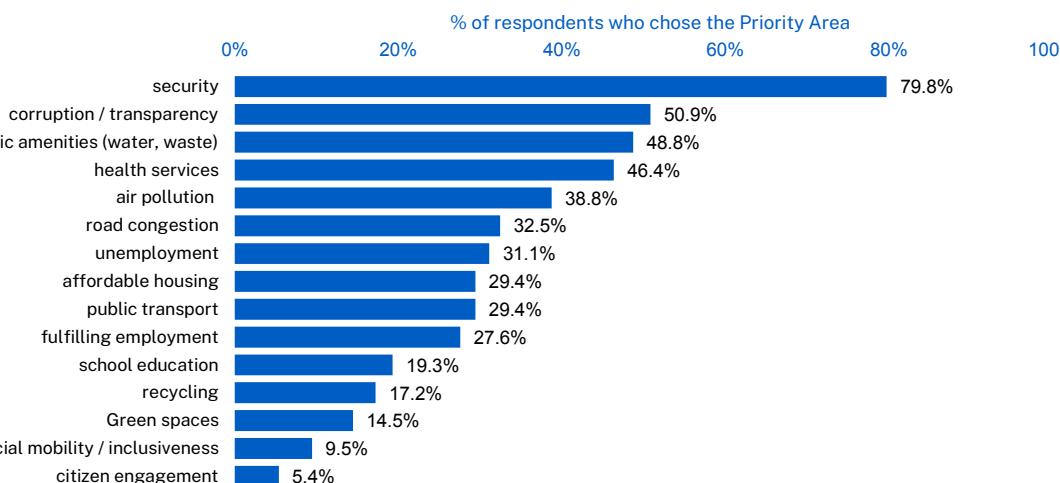


Map tiles by Stamen Design CC BY 3.0 Map Data © OpenStreetMap

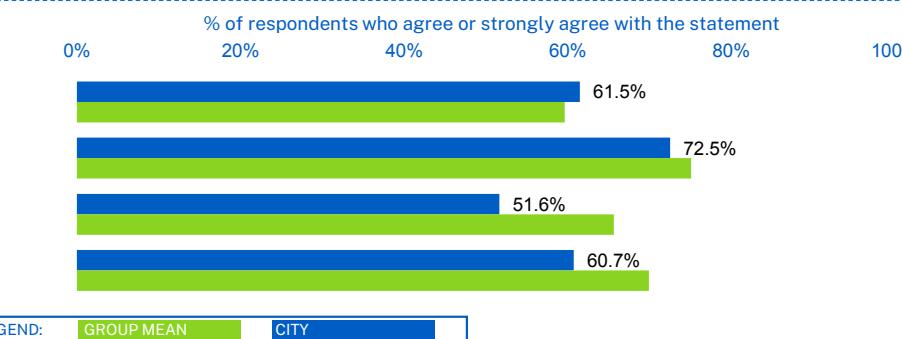
### Country

| Mexico                      | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.769  | 0.773  | 0.776  | 0.779  | +0.003      |
| Life expectancy at birth    | 74.2   | 70.1   | 70.2   | 74.8   | +4.6        |
| Expected years of schooling | 14.9   | 14.8   | 14.5   | 14.5   | +0.0        |
| Mean years of schooling     | 9.1    | 9.2    | 9.2    | 9.2    | +0.0        |
| GNI per capita (PPP \$)     | 19,471 | 17,721 | 18,582 | 19,138 | +556        |

## PRIORITY AREAS



## ATTITUDES

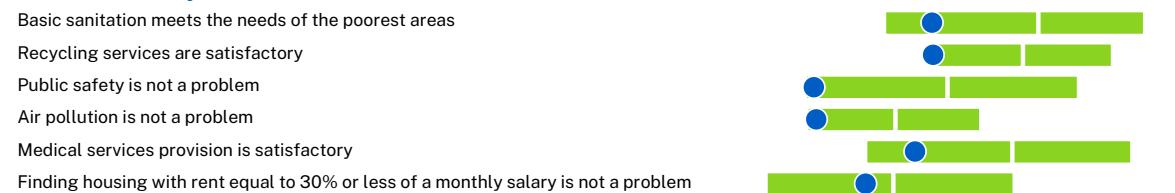


LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



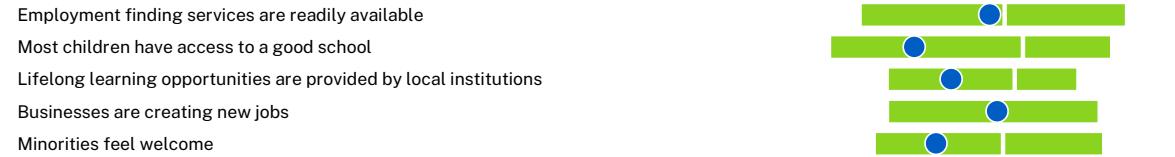
### Mobility



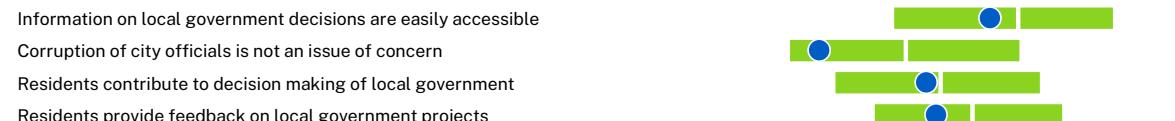
### Activities



### Opportunities (Work & School)

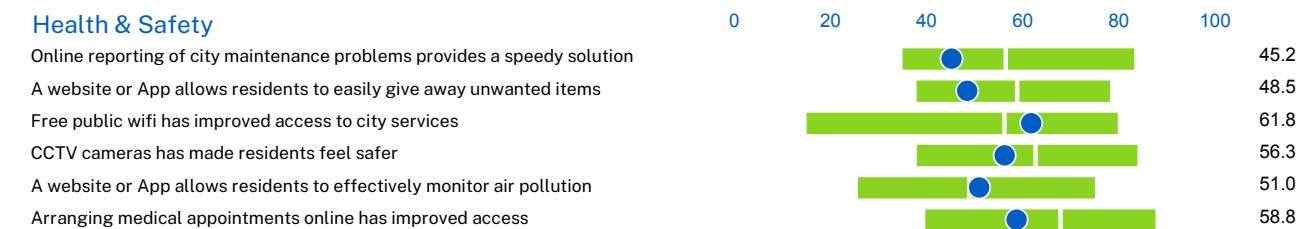


### Governance

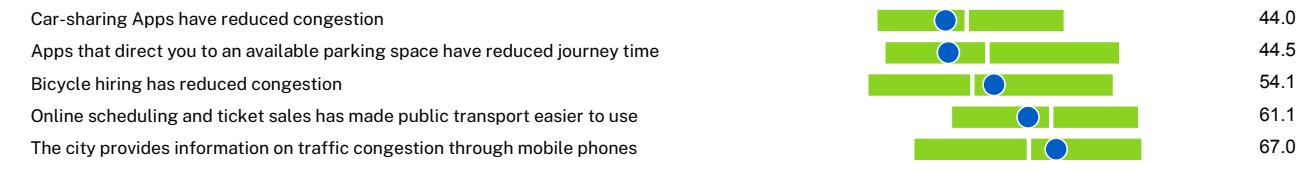


## TECHNOLOGIES

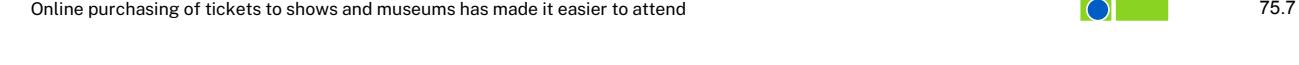
Score



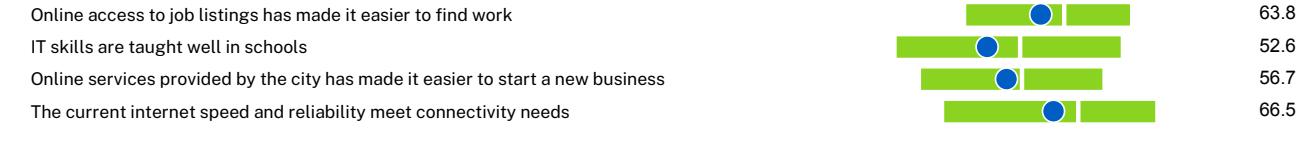
### Mobility



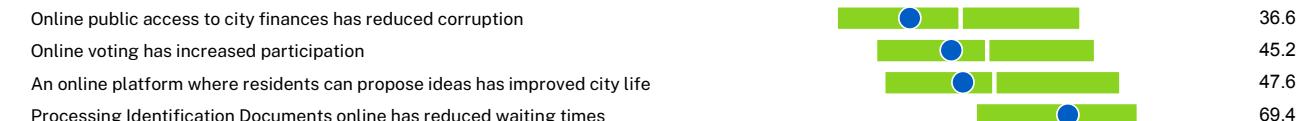
### Activities



### Opportunities (Work & School)



### Governance



# Milan

SMART  
CITY  
RANKING

**97**

Out of 146

91 in 2024  
Out of 142

SMART  
CITY RATING

**CCC**

B in 2024

FACTOR  
RATINGS

**CCC**

STRUCTURES

**BB**

TECHNOLOGIES

GROUP

**2**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 3,160,000  
(UN World Urbanization Prospects)

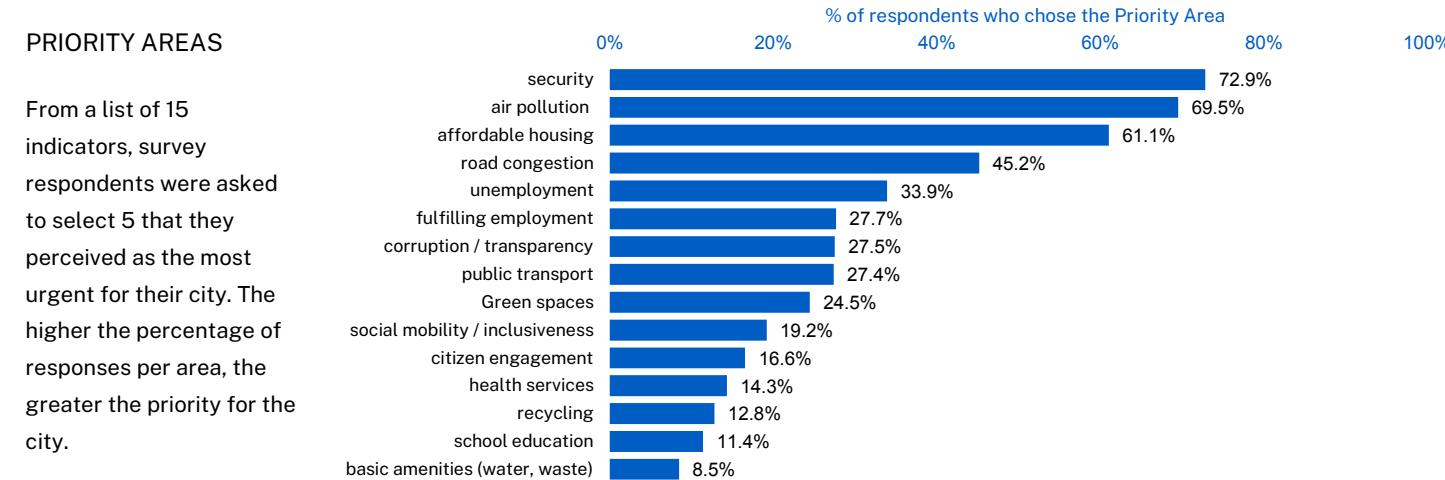
HDI 0.927  
(Global Data Lab)



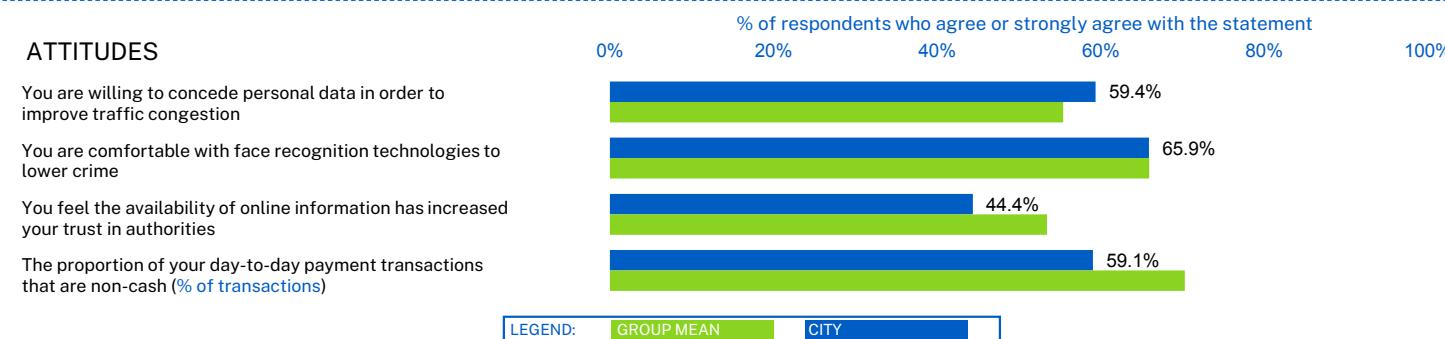
### Country

| Italy                       | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.881  | 0.886  | 0.889  | 0.894  | +0.005      |
| Life expectancy at birth    | 83.6   | 82.4   | 82.9   | 84.1   | +1.2        |
| Expected years of schooling | 16.4   | 16.5   | 16.7   | 16.7   | +0.0        |
| Mean years of schooling     | 10.7   | 10.7   | 10.7   | 10.7   | +0.0        |
| GNI per capita (PPP \$)     | 43,102 | 39,587 | 42,856 | 44,284 | +1,428      |

## PRIORITY AREAS



## ATTITUDES

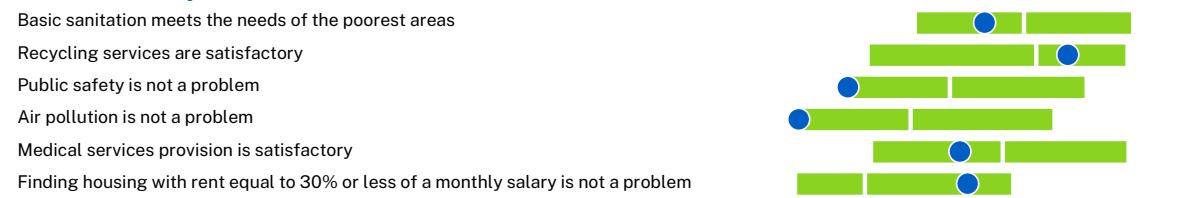


LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

### Health & Safety



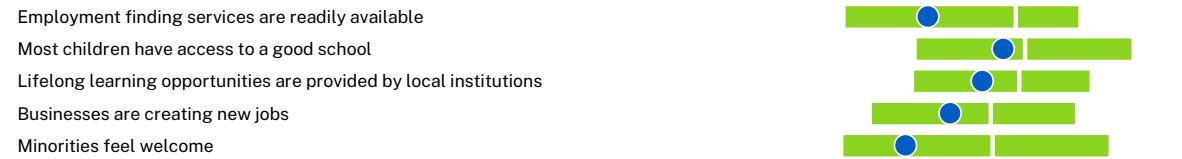
### Mobility



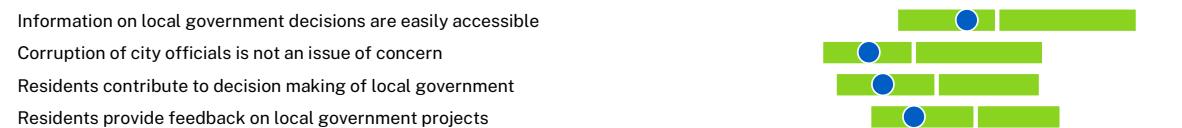
### Activities



### Opportunities (Work & School)

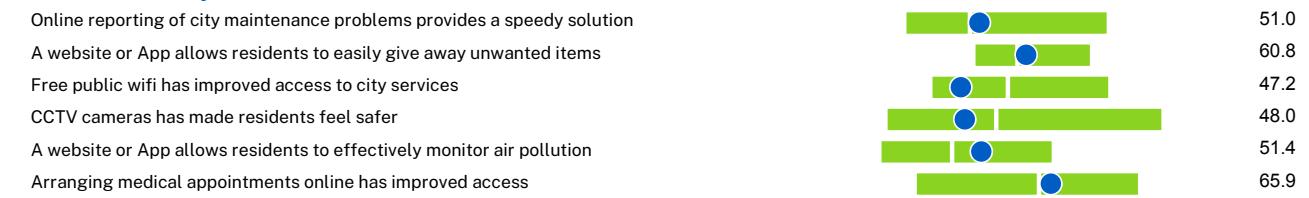


### Governance

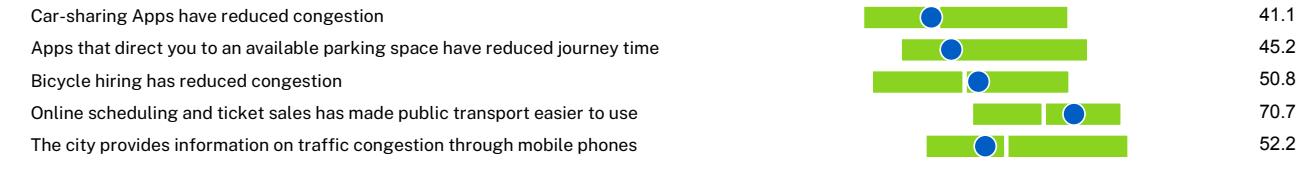


## TECHNOLOGIES

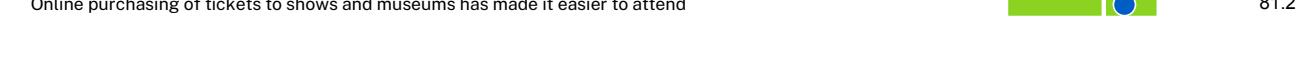
### Health & Safety



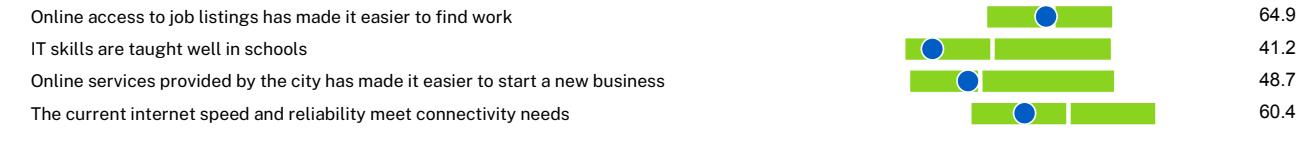
### Mobility



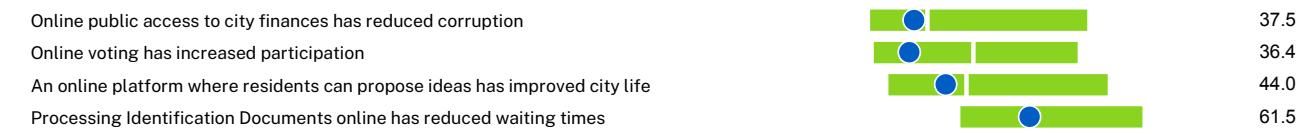
### Activities



### Opportunities (Work & School)



### Governance



# Montreal

SMART  
CITY  
RANKING  
**81**

Out of 146



80 in 2024  
Out of 142

SMART  
CITY RATING

**BB**

BB in 2024

FACTOR  
RATINGS

**B**

STRUCTURES

**CCC**

TECHNOLOGIES

GROUP

**2**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 4,340,000  
(UN World Urbanization Prospects)

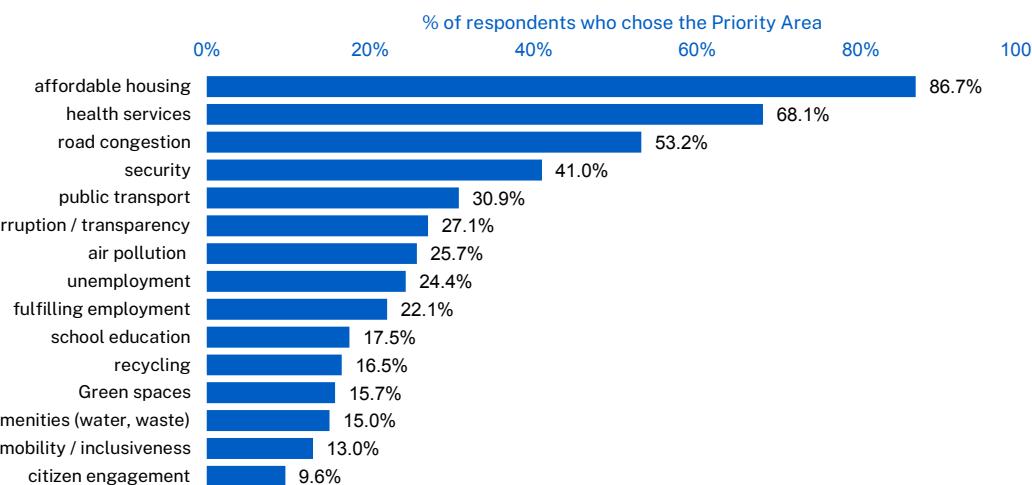
HDI 0.926  
(Global Data Lab)



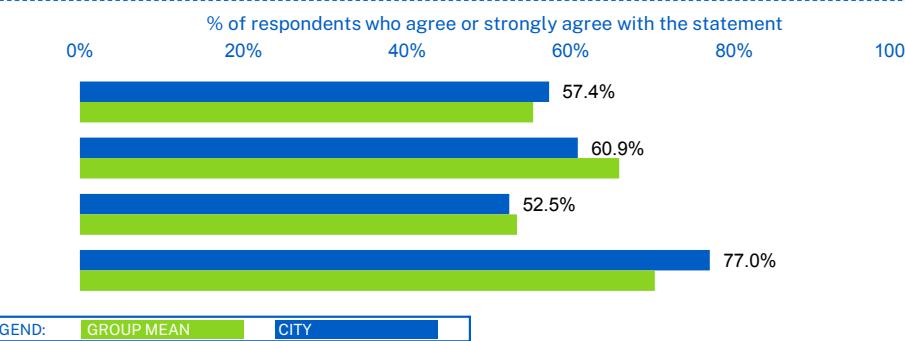
### Country

| Canada                      | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.927  | 0.928  | 0.929  | 0.930  | +0.001      |
| Life expectancy at birth    | 82.4   | 82.0   | 82.7   | 82.8   | +0.2        |
| Expected years of schooling | 15.9   | 15.9   | 16.0   | 16.0   | +0.0        |
| Mean years of schooling     | 13.8   | 13.9   | 13.9   | 13.9   | +0.0        |
| GNI per capita (PPP \$)     | 48,591 | 45,828 | 47,933 | 48,444 | +512        |

## PRIORITY AREAS



## ATTITUDES

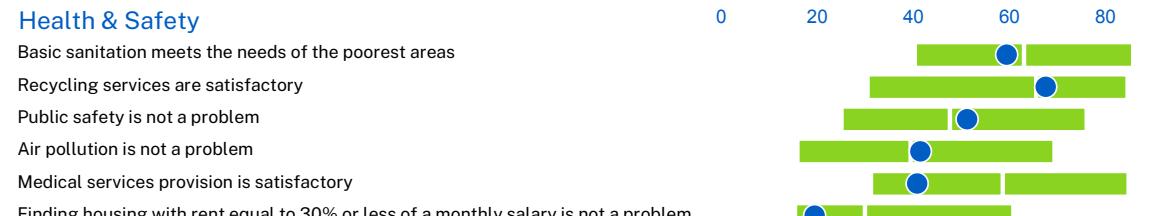


LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

### Score



### Mobility

### Score



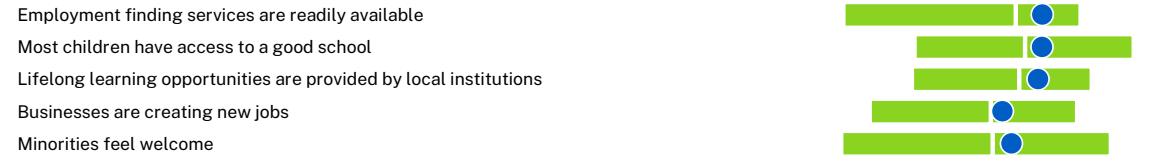
### Activities

### Score



### Opportunities (Work & School)

### Score



### Governance

### Score

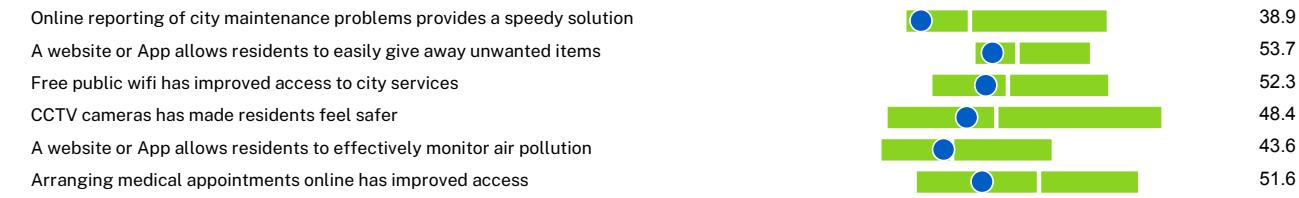


## TECHNOLOGIES

### Score

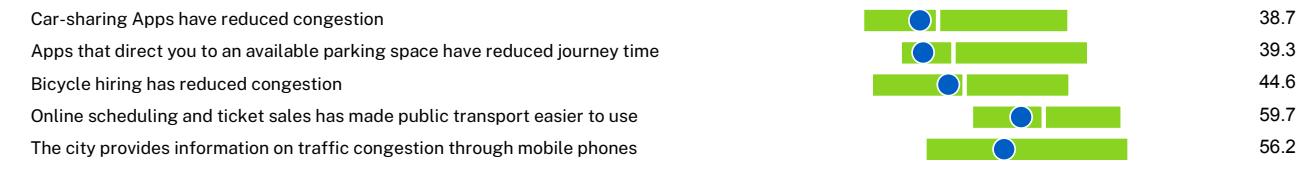
### Health & Safety

### Score



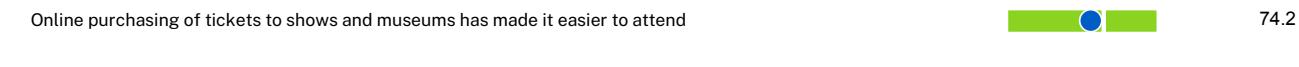
### Mobility

### Score



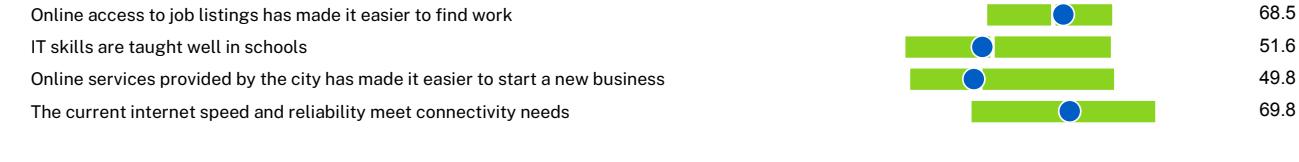
### Activities

### Score



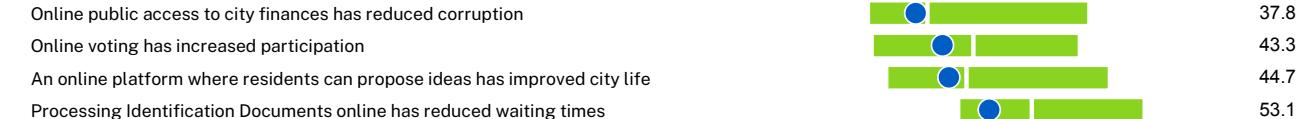
### Opportunities (Work & School)

### Score



### Governance

### Score



# Mumbai

SMART  
CITY  
RANKING  
**106**  
Out of 146



107 in 2024  
Out of 142

SMART  
CITY RATING

**CC**

CC in 2024

FACTOR  
RATINGS

**CC**

STRUCTURES

**CC**

TECHNOLOGIES

**4**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

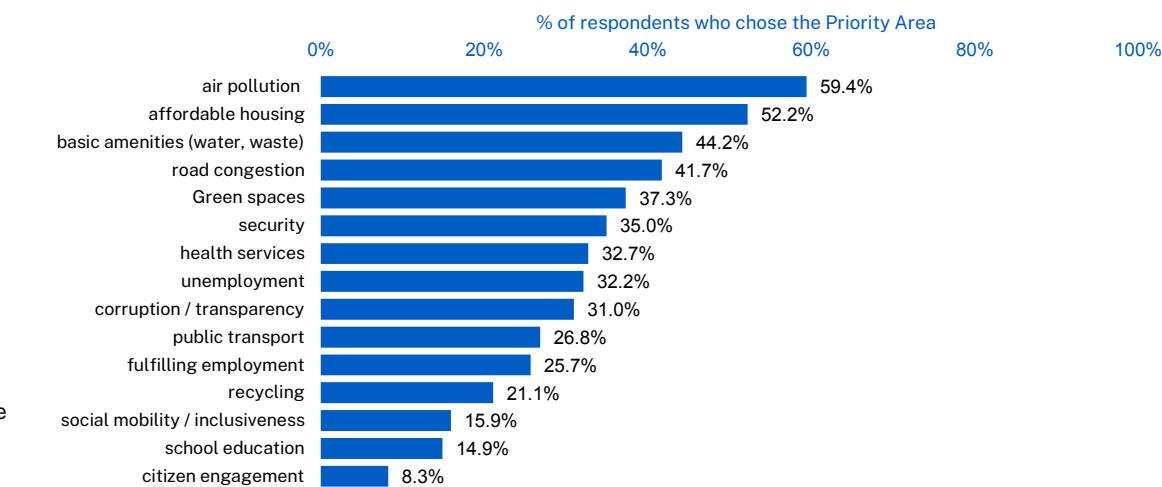
### City

Population 21,670,000  
(UN World Urbanization Prospects)

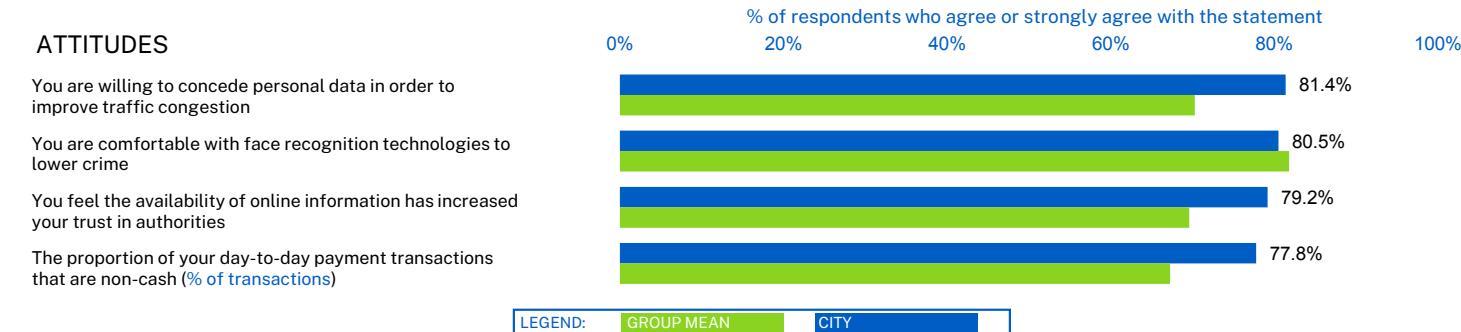
HDI 0.695  
(Global Data Lab)



## PRIORITY AREAS



## ATTITUDES



LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem

Score 0 20 40 60 80 100

71.5

69.6

47.9

25.6

72.7

43.9

### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access

Score 0 20 40 60 80 100

68.5

60.1

67.5

82.4

62.5

80.6

### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory

Score 0 20 40 60 80 100

22.0

70.0

### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones

Score 0 20 40 60 80 100

69.5

64.4

64.0

80.4

78.9

### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory

Score 0 20 40 60 80 100

69.6

78.9

### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend

Score 0 20 40 60 80 100

84.6

### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome

Score 0 20 40 60 80 100

74.7

72.6

70.4

79.0

76.2

### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs

Score 0 20 40 60 80 100

78.6

69.8

80.4

82.8

### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects

Score 0 20 40 60 80 100

75.5

35.6

65.6

68.5

### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times

Score 0 20 40 60 80 100

61.6

64.3

70.3

79.2

# Munich

SMART  
CITY  
RANKING

**24**

Out of 146



21 in 2024  
Out of 142

SMART  
CITY RATING

**A**

A in 2024

FACTOR  
RATINGS

**A**

STRUCTURES

**A**

TECHNOLOGIES

**1**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

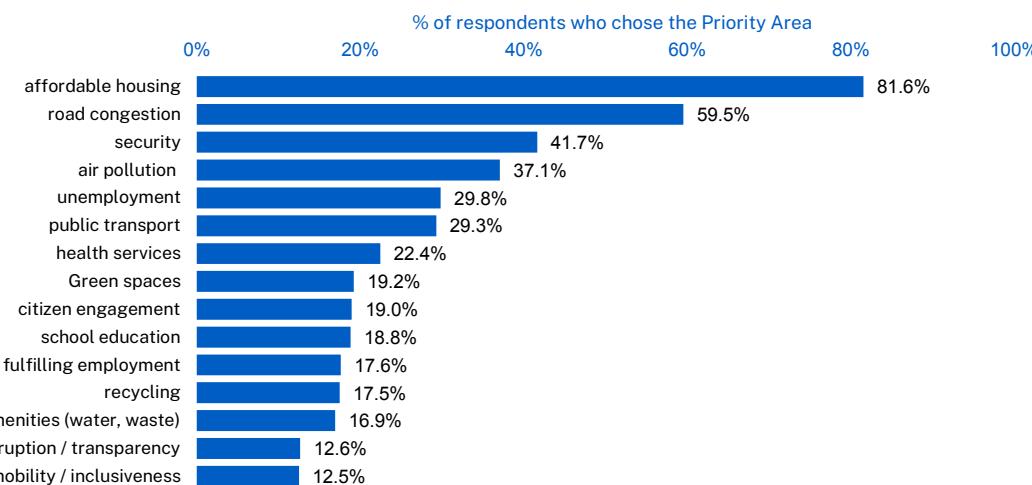
Population 1,580,000  
(UN World Urbanization Prospects)



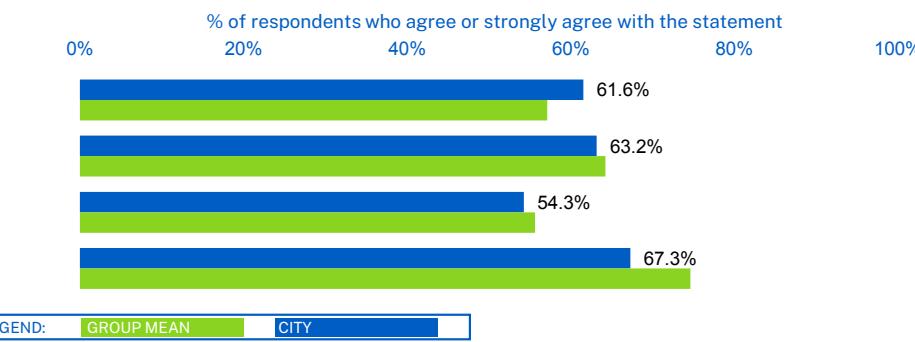
### Country

| Germany                     | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.941  | 0.941  | 0.944  | 0.946  | +0.002      |
| Life expectancy at birth    | 81.6   | 81.1   | 80.6   | 81.0   | +0.4        |
| Expected years of schooling | 17.2   | 17.2   | 17.3   | 17.3   | +0.0        |
| Mean years of schooling     | 14.2   | 14.3   | 14.3   | 14.3   | +0.0        |
| GNI per capita (PPP \$)     | 55,685 | 53,375 | 55,057 | 55,340 | +284        |

## PRIORITY AREAS



## ATTITUDES

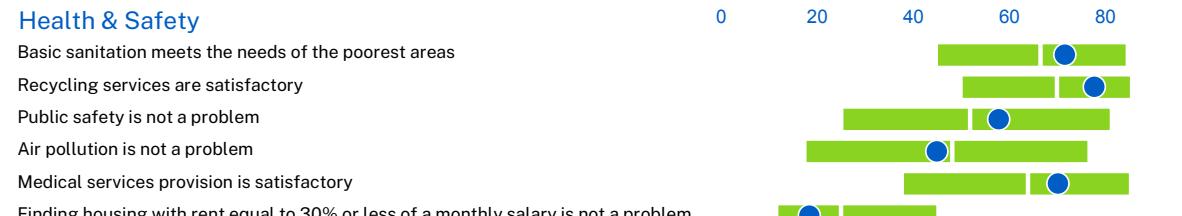


LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

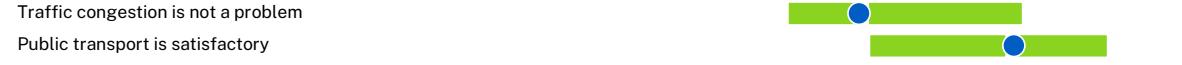
## STRUCTURES

### Score



### Mobility

### Score



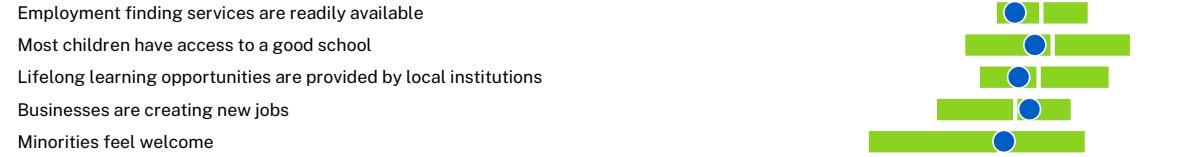
### Activities

### Score



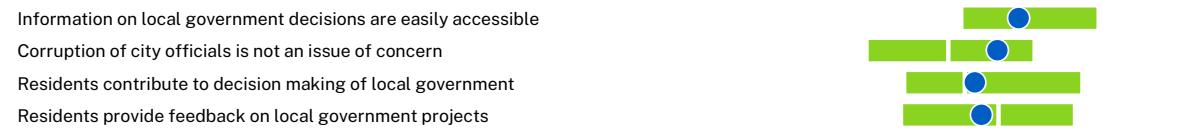
### Opportunities (Work & School)

### Score



### Governance

### Score

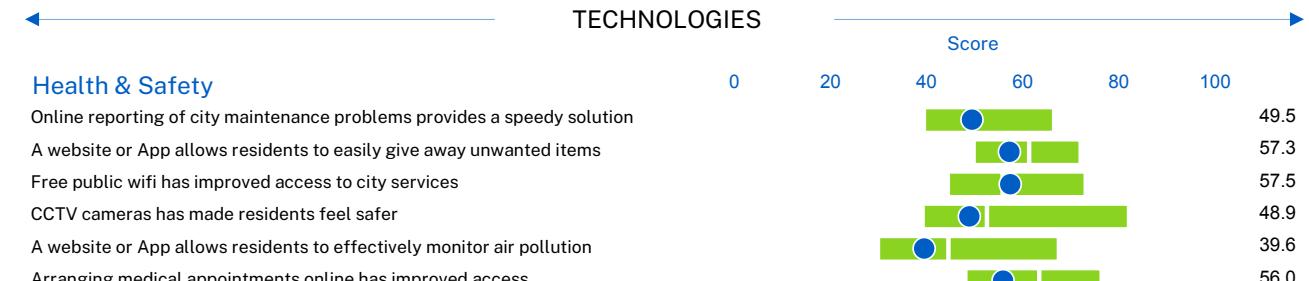


## TECHNOLOGIES

### Score

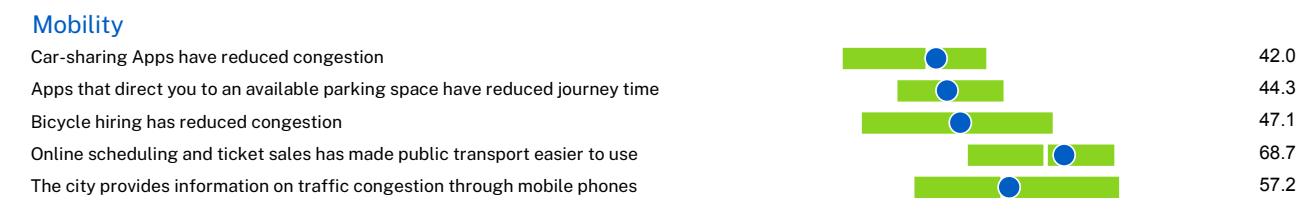
### Health & Safety

### Score



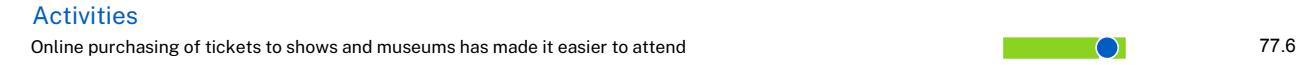
### Mobility

### Score



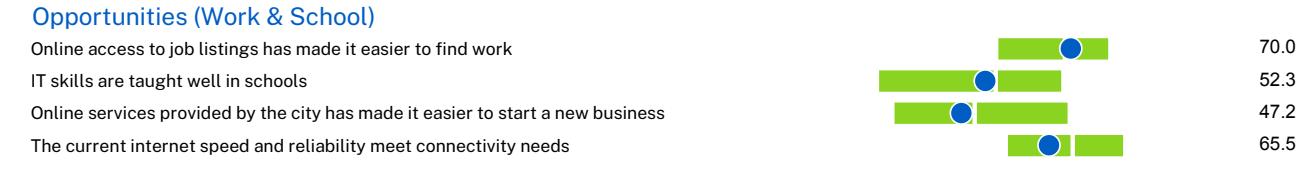
### Activities

### Score



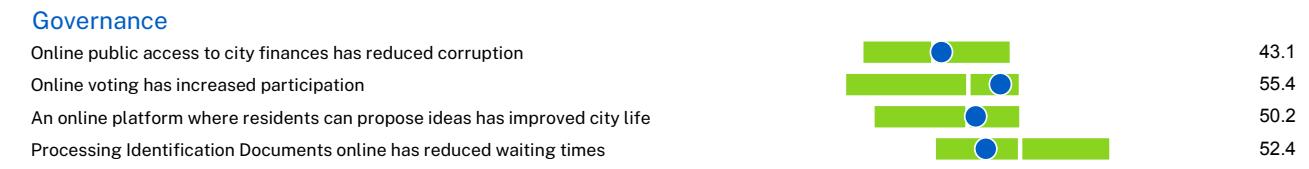
### Opportunities (Work & School)

### Score



### Governance

### Score



# Muscat

SMART  
CITY  
RANKING  
**87**

Out of 146



88 in 2024  
Out of 142

SMART  
CITY RATING

**CCC**

B in 2024

FACTOR  
RATINGS

**CCC**

STRUCTURES

**CCC**

TECHNOLOGIES

**3**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 1,680,000  
(UN World Urbanization Prospects)

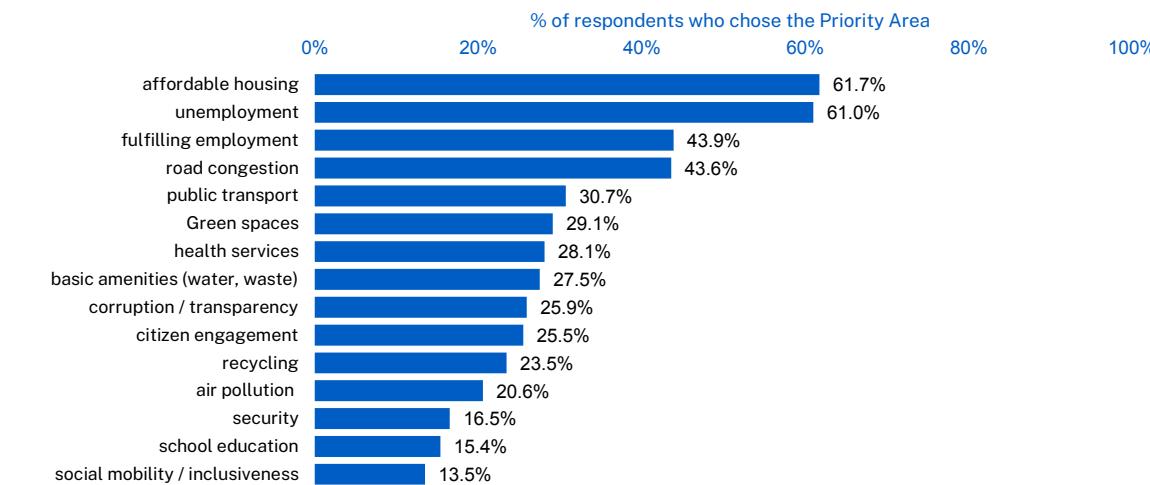
HDI 0.819  
(Global Data Lab)



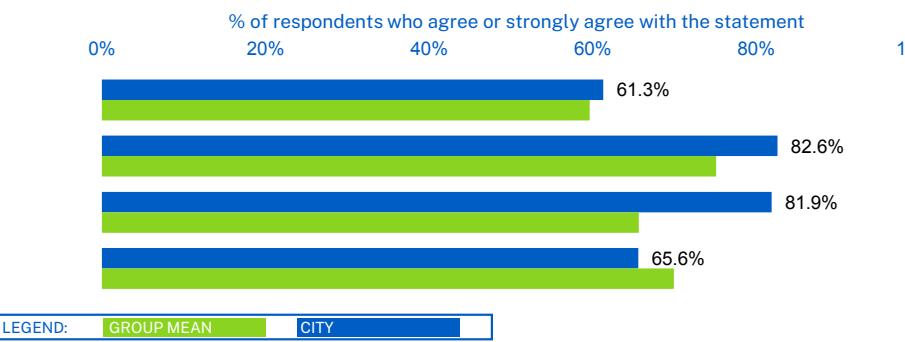
### Country

| Oman                        | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.824  | 0.832  | 0.833  | 0.838  | +0.005      |
| Life expectancy at birth    | 78.0   | 74.8   | 72.5   | 73.9   | +1.4        |
| Expected years of schooling | 14.0   | 13.2   | 13.0   | 13.0   | +0.0        |
| Mean years of schooling     | 11.4   | 11.9   | 11.9   | 11.9   | +0.0        |
| GNI per capita (PPP \$)     | 31,513 | 30,926 | 31,995 | 32,967 | +972        |

## PRIORITY AREAS



## ATTITUDES

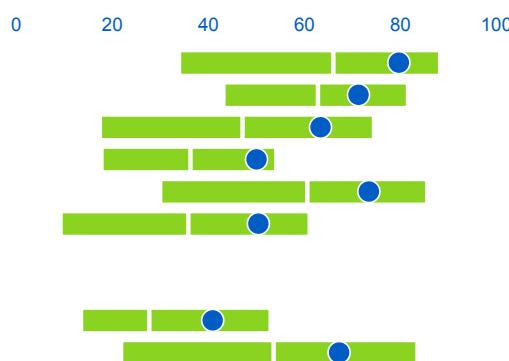


LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

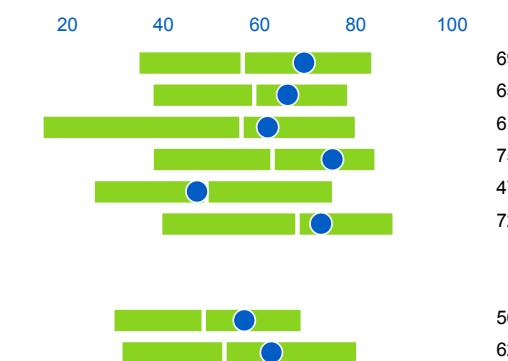
## STRUCTURES

### Score



## TECHNOLOGIES

### Score



### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem

### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory

### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory

### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome

### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects

### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access

### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones

### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend

### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs

### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times

# Nairobi

SMART  
CITY  
RANKING  
**136**

Out of 146



131 in 2024  
Out of 142

SMART  
CITY RATING



C in 2024

FACTOR  
RATINGS



STRUCTURES



TECHNOLOGIES



All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 5,540,000  
(UN World Urbanization Prospects)

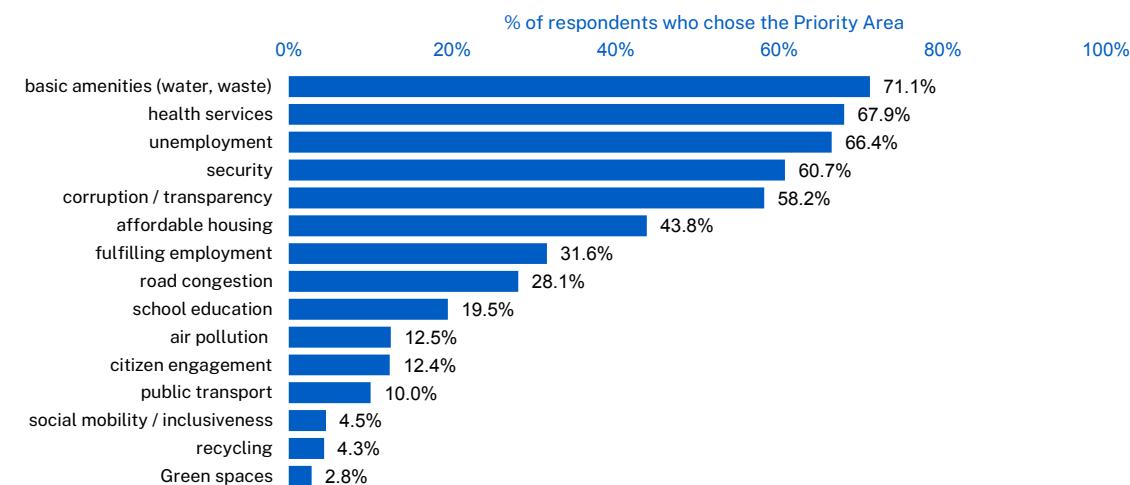
HDI 0.663  
(Global Data Lab)



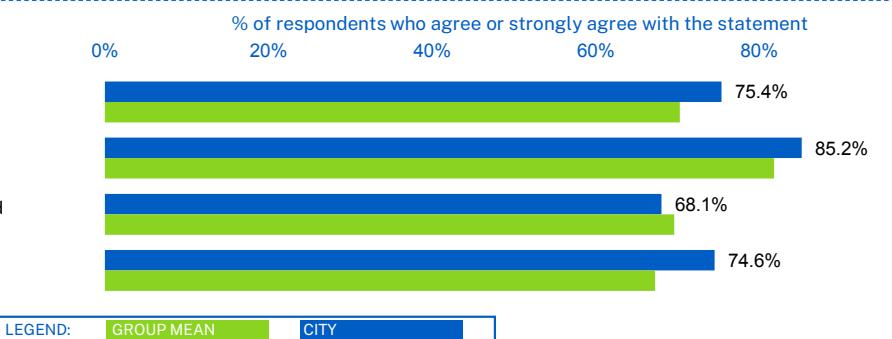
### Country

| Kenya                       | 2019  | 2020  | 2021  | 2022  | 1 yr change |
|-----------------------------|-------|-------|-------|-------|-------------|
| HDI                         | 0.575 | 0.586 | 0.591 | 0.598 | +0.007      |
| Life expectancy at birth    | 62.9  | 62.7  | 61.4  | 62.1  | +0.6        |
| Expected years of schooling | 11.3  | 11.4  | 11.4  | 11.4  | +0.0        |
| Mean years of schooling     | 8.0   | 7.7   | 7.7   | 7.7   | +0.0        |
| GNI per capita (PPP \$)     | 4,528 | 4,420 | 4,666 | 4,808 | +142        |

## PRIORITY AREAS



## ATTITUDES

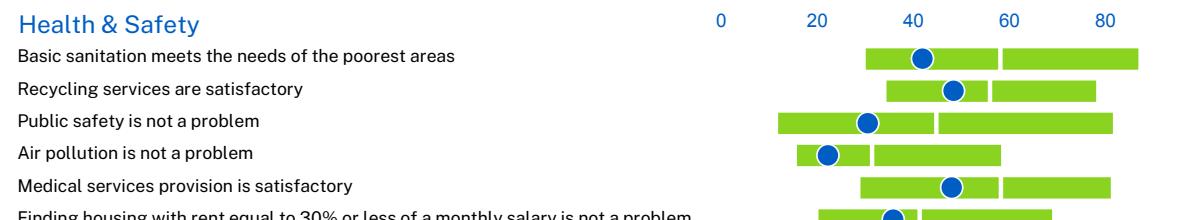


LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

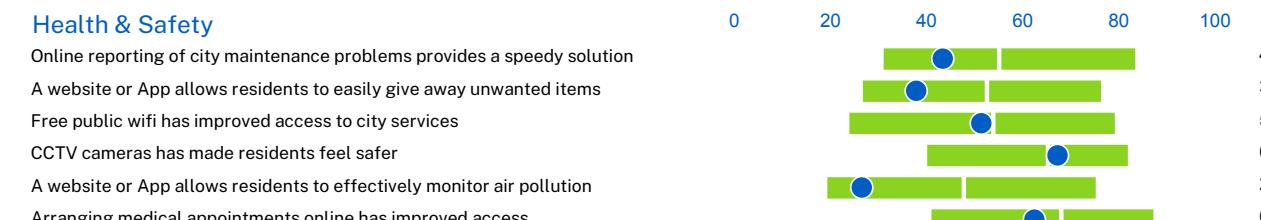
## STRUCTURES

### Score



## TECHNOLOGIES

### Score



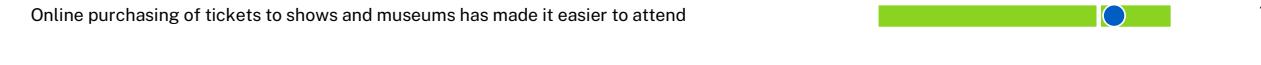
## Activities

### Score



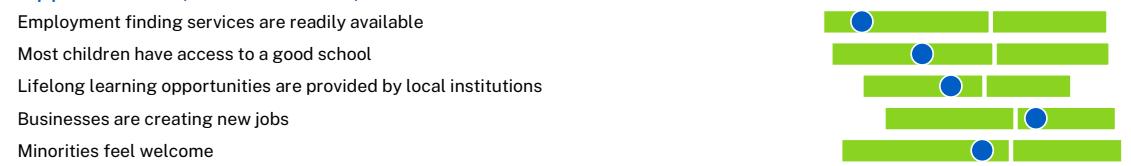
## Activities

### Score



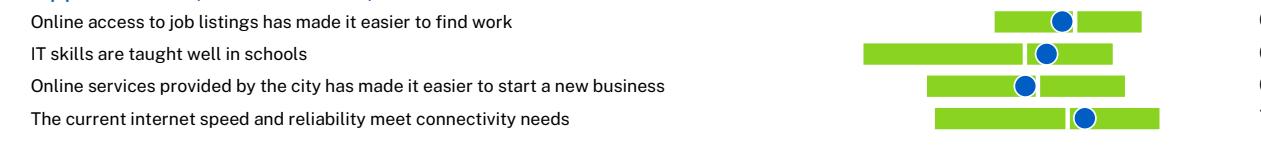
## Opportunities (Work & School)

### Score



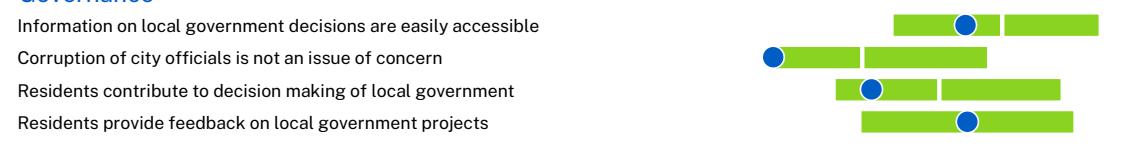
## Opportunities (Work & School)

### Score



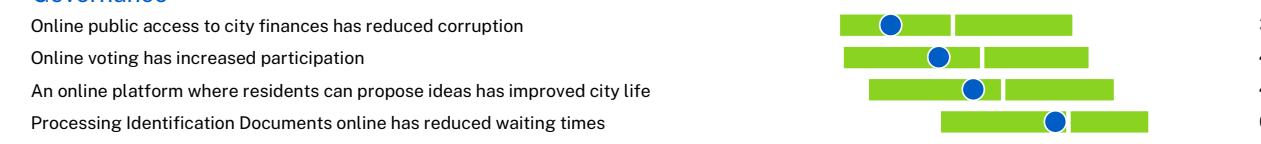
## Governance

### Score



## Governance

### Score



# Nanjing

SMART  
CITY  
RANKING  
**58**

Out of 146



62 in 2024  
Out of 142

SMART  
CITY RATING



CCC in 2024

FACTOR  
RATINGS



STRUCTURES



TECHNOLOGIES



All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 9,950,000  
(UN World Urbanization Prospects)

HDI 0.827  
(Global Data Lab)

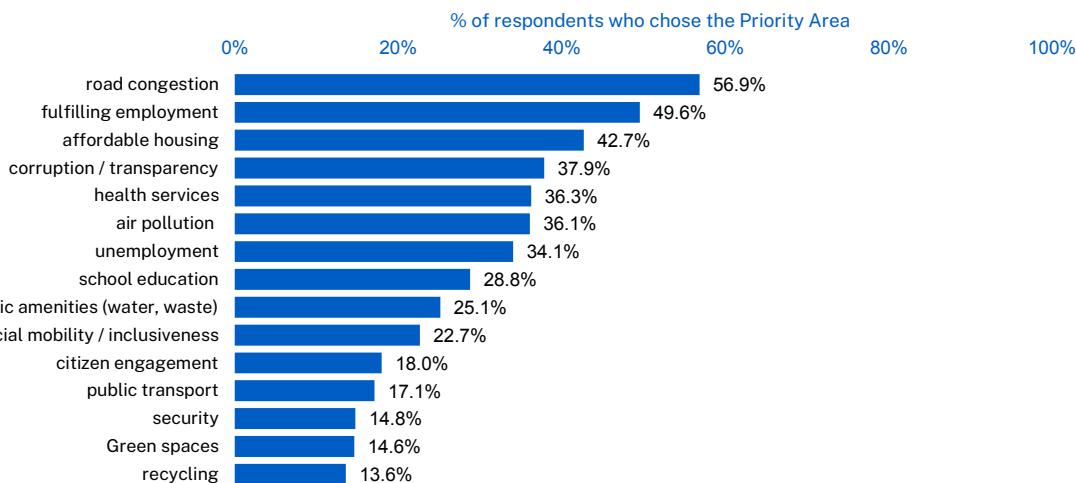


62 in 2024  
Out of 142

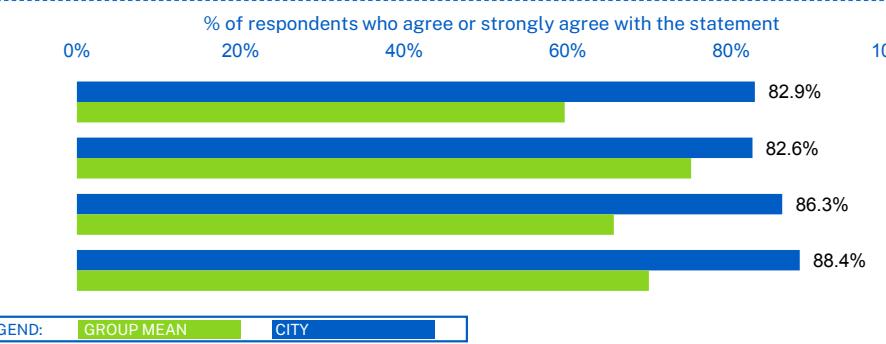
### Country

| China                       | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.741  | 0.749  | 0.757  | 0.766  | +0.009      |
| Life expectancy at birth    | 78.0   | 78.1   | 78.2   | 78.6   | +0.4        |
| Expected years of schooling | 15.0   | 15.2   | 15.2   | 15.2   | +0.0        |
| Mean years of schooling     | 8.0    | 8.1    | 8.1    | 8.1    | +0.0        |
| GNI per capita (PPP \$)     | 15,934 | 16,168 | 17,499 | 18,025 | +526        |

## PRIORITY AREAS



## ATTITUDES



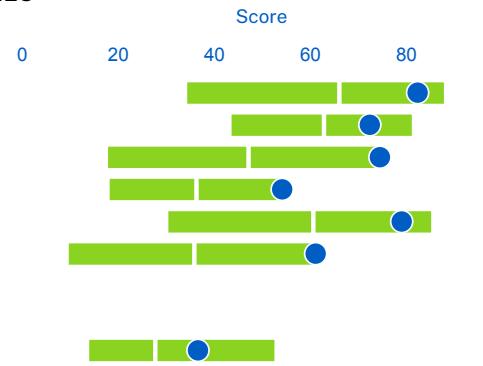
LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety

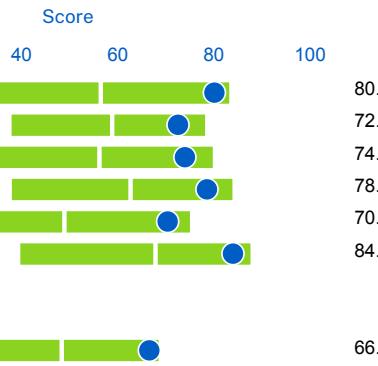
- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem



### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access

## TECHNOLOGIES



### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory



### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones

## Activities

### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory



### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend



### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome



### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs



### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects



### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times



# New York

SMART  
CITY  
RANKING

**49**

Out of 146

34 in 2024  
Out of 142

SMART  
CITY RATING

**BB**

BB in 2024

FACTOR  
RATINGS

**BBB**

STRUCTURES

**BBB**

TECHNOLOGIES

**2**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

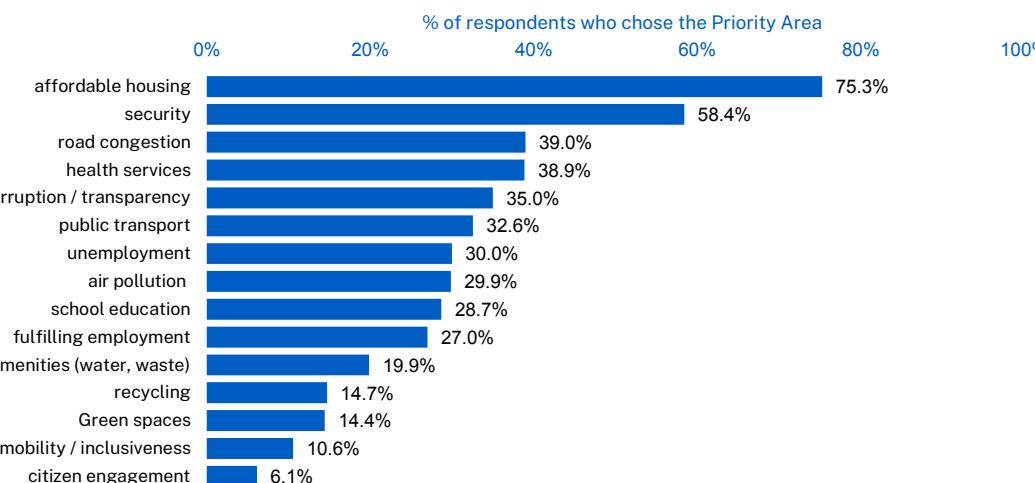
Population 8,100,000  
(UN World Urbanization Prospects)



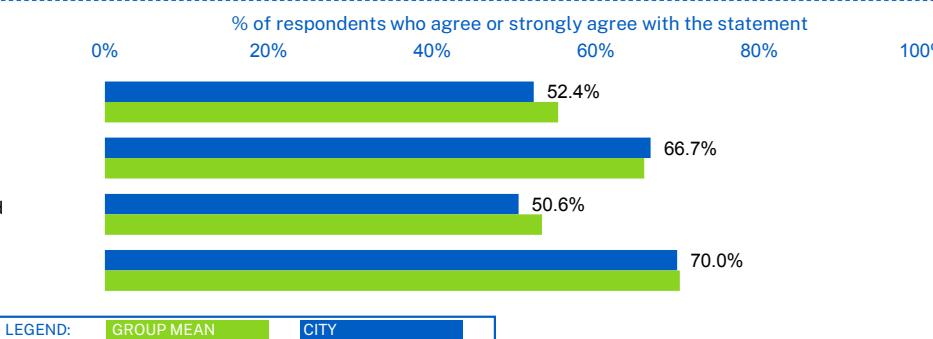
### Country

| United States               | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.924  | 0.926  | 0.928  | 0.930  | +0.002      |
| Life expectancy at birth    | 79.1   | 77.4   | 77.2   | 78.2   | +1.0        |
| Expected years of schooling | 16.6   | 16.6   | 16.4   | 16.4   | +0.0        |
| Mean years of schooling     | 13.6   | 13.7   | 13.6   | 13.6   | +0.0        |
| GNI per capita (PPP \$)     | 63,654 | 61,077 | 64,484 | 65,565 | +1,081      |

## PRIORITY AREAS



## ATTITUDES

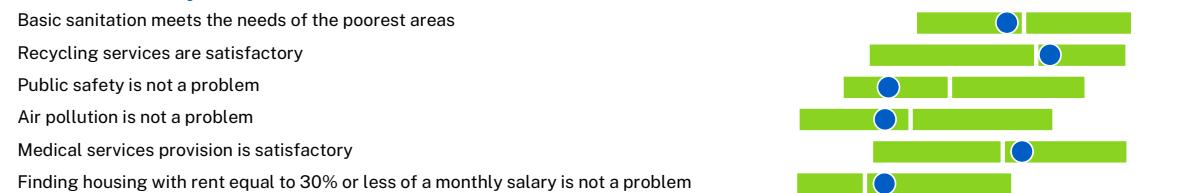


LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

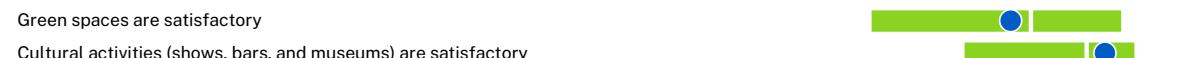
### Health & Safety



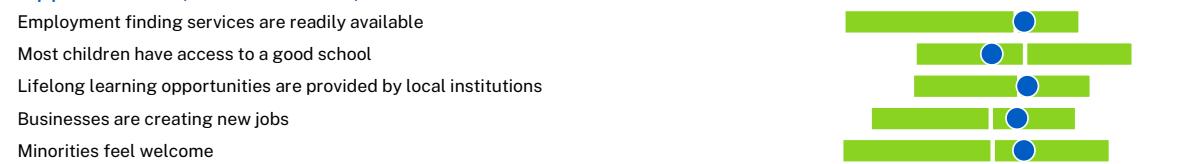
### Mobility



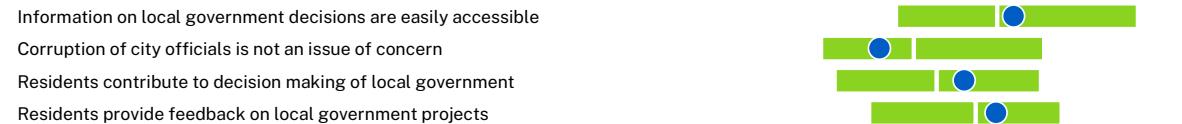
### Activities



### Opportunities (Work & School)



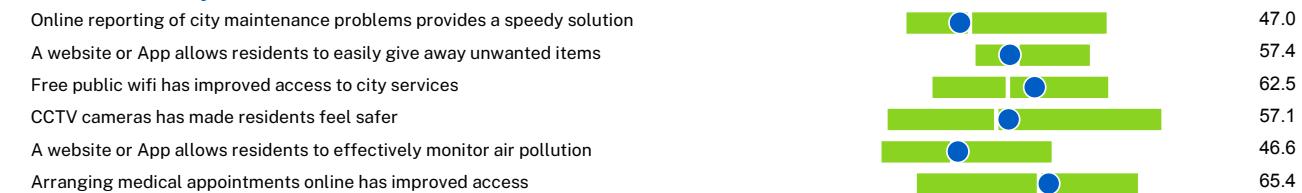
### Governance



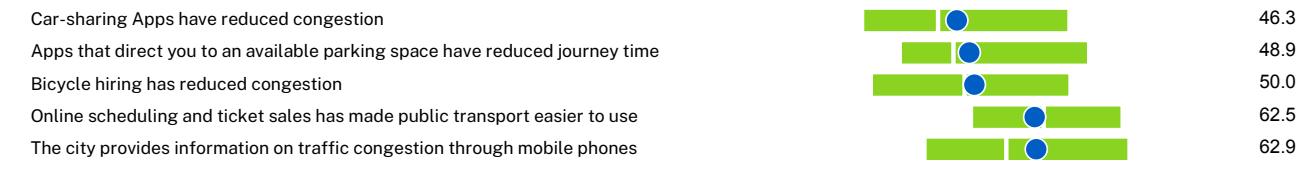
## TECHNOLOGIES

Score

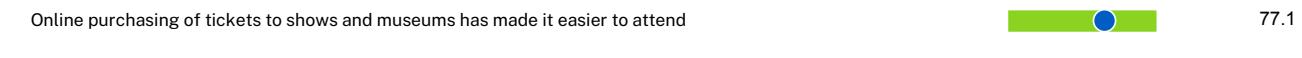
### Health & Safety



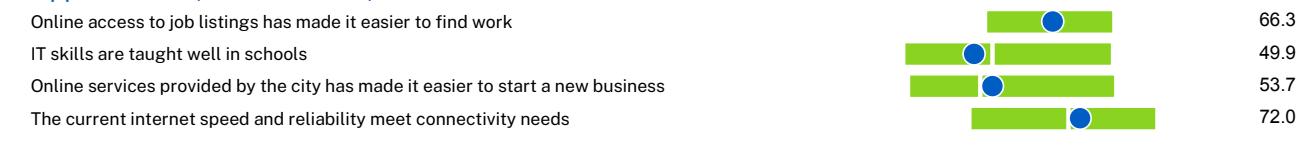
### Mobility



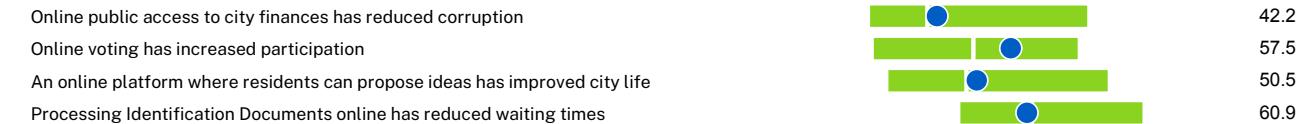
### Activities



### Opportunities (Work & School)



### Governance



# Newcastle

SMART  
CITY  
RANKING  
**75**

Out of 146



77 in 2024  
Out of 142

SMART  
CITY RATING

**BB**

CC in 2024

FACTOR  
RATINGS

**B**

STRUCTURES

**CCC**

TECHNOLOGIES

GROUP

**3**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 300,000  
(Eurostat)

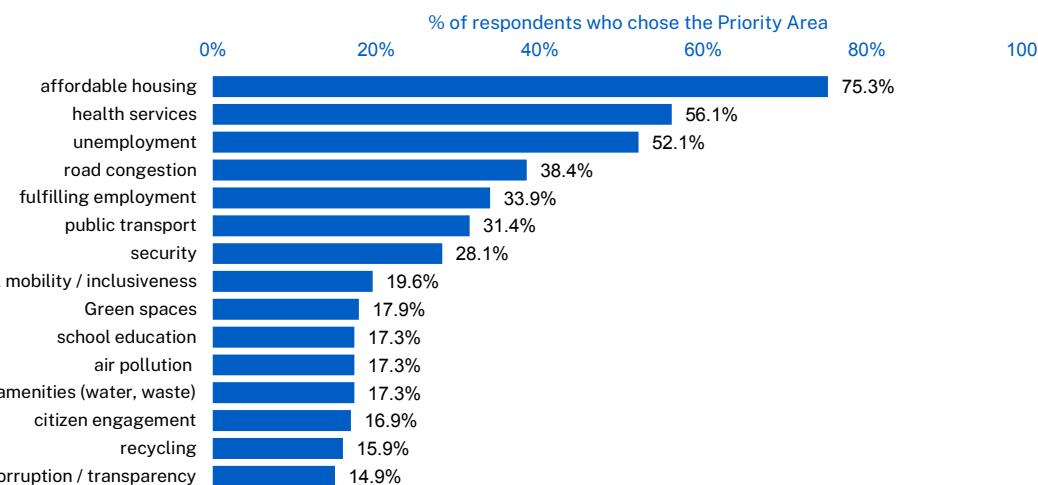
HDI 0.911  
(Global Data Lab)



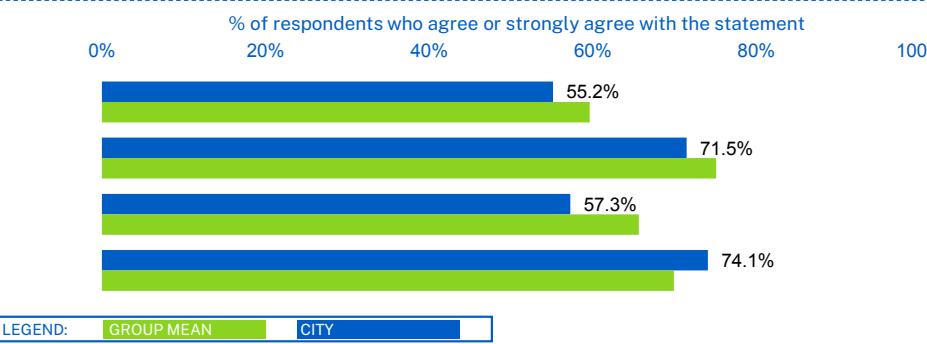
### Country

| United Kingdom              | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.923  | 0.926  | 0.929  | 0.928  | -0.001      |
| Life expectancy at birth    | 81.7   | 80.4   | 80.7   | 82.2   | +1.4        |
| Expected years of schooling | 17.2   | 17.2   | 17.6   | 17.6   | +0.0        |
| Mean years of schooling     | 13.3   | 13.4   | 13.4   | 13.4   | +0.0        |
| GNI per capita (PPP \$)     | 47,066 | 40,799 | 44,750 | 46,624 | +1,874      |

## PRIORITY AREAS



## ATTITUDES



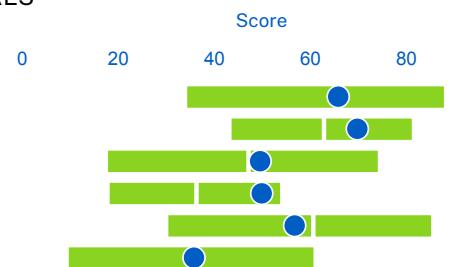
STRUCTURES  
**CCC**

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem



### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory



### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory



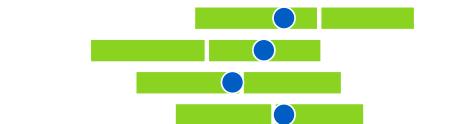
### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome



### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects



## TECHNOLOGIES



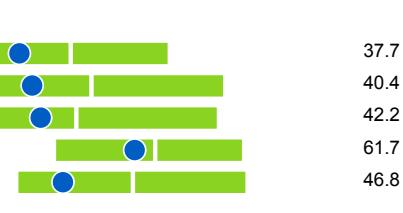
### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access



### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones



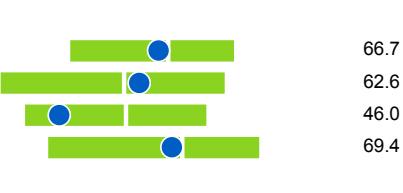
### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend



### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs



### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times



# Nicosia

SMART  
CITY  
RANKING  
**122**

Out of 146

118 in 2024  
Out of 142

SMART  
CITY RATING

**CC**  
C in 2024

FACTOR  
RATINGS

**C**  
STRUCTURES

**C**  
TECHNOLOGIES

GROUP  
**3**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

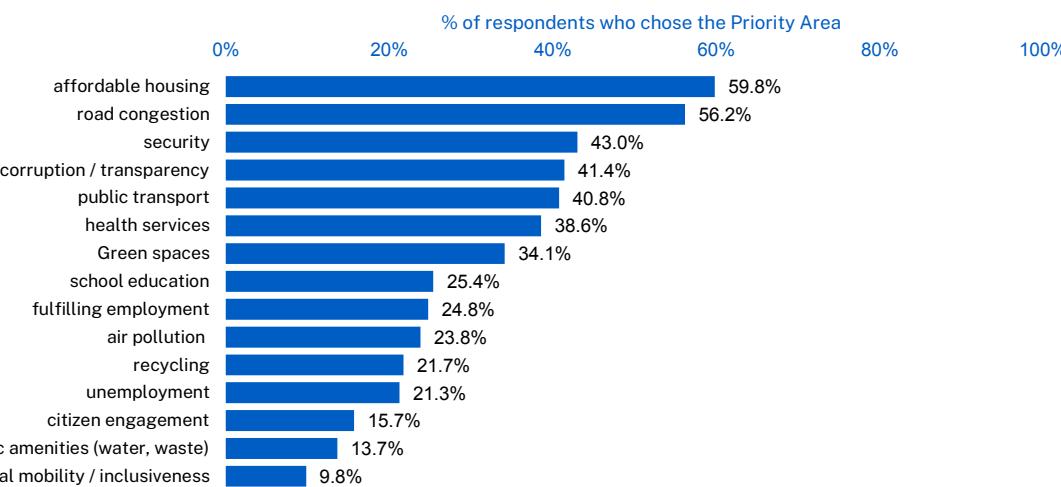
Population 900,000  
(Eurostat)



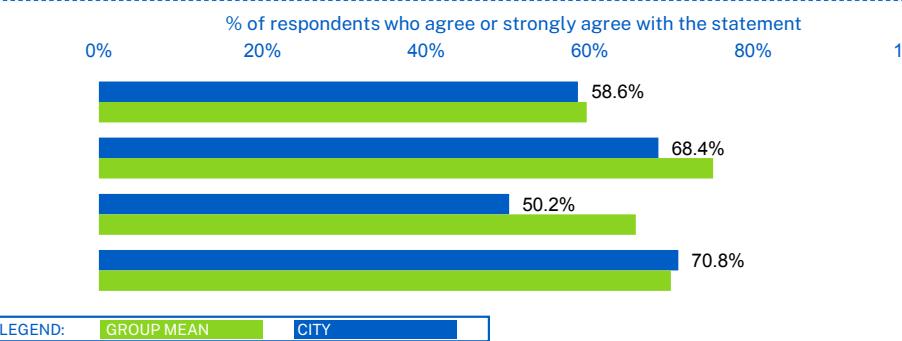
### Country

| Cyprus                      | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.874  | 0.881  | 0.891  | 0.896  | +0.005      |
| Life expectancy at birth    | 81.4   | 81.4   | 81.2   | 81.9   | +0.7        |
| Expected years of schooling | 16.0   | 16.2   | 16.2   | 16.2   | +0.0        |
| Mean years of schooling     | 12.4   | 12.4   | 12.4   | 12.4   | +0.0        |
| GNI per capita (PPP \$)     | 39,467 | 36,716 | 38,169 | 40,137 | +1,968      |

## PRIORITY AREAS



## ATTITUDES



LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

### Health & Safety

|   | Score |  |
|---|-------|--|
| Basic sanitation meets the needs of the poorest areas                               | 65.9  |  |
| Recycling services are satisfactory   | 52.1  |  |
| Public safety is not a problem  | 46.6  |  |
| Air pollution is not a problem  | 34.8  |  |
| Medical services provision is satisfactory  | 55.8  |  |
| Finding housing with rent equal to 30% or less of a monthly salary is not a problem | 20.0  |  |

### Mobility

|                                     | Score |  |
|-------------------------------------|-------|--|
| Traffic congestion is not a problem | 16.8  |  |
| Public transport is satisfactory    | 24.5  |  |

### Activities

|   | Score |  |
|---|-------|--|
| Green spaces are satisfactory                                   | 47.0  |  |
| Cultural activities (shows, bars, and museums) are satisfactory | 59.2  |  |

### Opportunities (Work & School)

|  | Score |  |
|--|-------|--|
| Employment finding services are readily available                  | 55.4  |  |
| Most children have access to a good school                         | 57.9  |  |
| Lifelong learning opportunities are provided by local institutions | 51.9  |  |
| Businesses are creating new jobs                                   | 52.9  |  |
| Minorities feel welcome  | 44.9  |  |

### Governance

|   | Score |  |
|---|-------|--|
| Information on local government decisions are easily accessible | 40.4  |  |
| Corruption of city officials is not an issue of concern         | 22.4  |  |
| Residents contribute to decision making of local government     | 24.1  |  |
| Residents provide feedback on local government projects         | 34.4  |  |

## TECHNOLOGIES

### Health & Safety

|  | Score |  |
|--|-------|--|
| Online reporting of city maintenance problems provides a speedy solution | 41.3  |  |
| A website or App allows residents to easily give away unwanted items     | 53.1  |  |
| Free public wifi has improved access to city services                    | 47.7  |  |
| CCTV cameras has made residents feel safer                               | 42.4  |  |
| A website or App allows residents to effectively monitor air pollution   | 46.1  |  |
| Arranging medical appointments online has improved access                | 44.6  |  |

### Mobility

|  | Score |  |
|--|-------|--|
| Car-sharing Apps have reduced congestion                                     | 29.7  |  |
| Apps that direct you to an available parking space have reduced journey time | 34.2  |  |
| Bicycle hiring has reduced congestion  | 32.9  |  |
| Online scheduling and ticket sales has made public transport easier to use   | 45.2  |  |
| The city provides information on traffic congestion through mobile phones    | 40.1  |  |

### Activities

|  | Score |  |
|--|-------|--|
| Online purchasing of tickets to shows and museums has made it easier to attend | 73.7  |  |

### Opportunities (Work & School)

|   | Score |  |
|---|-------|--|
| Online access to job listings has made it easier to find work                   | 75.8  |  |
| IT skills are taught well in schools  | 48.1  |  |
| Online services provided by the city has made it easier to start a new business | 45.6  |  |
| The current internet speed and reliability meet connectivity needs              | 70.8  |  |

### Governance

|   | Score |  |
|---|-------|--|
| Online public access to city finances has reduced corruption                | 24.7  |  |
| Online voting has increased participation                                   | 30.6  |  |
| An online platform where residents can propose ideas has improved city life | 31.3  |  |
| Processing Identification Documents online has reduced waiting times        | 50.8  |  |

# Osaka

SMART  
CITY  
RANKING  
**99**

Out of 146



95 in 2024  
Out of 142

SMART  
CITY RATING

**BB**

B in 2024

FACTOR  
RATINGS

**CCC**

STRUCTURES

**CCC**

TECHNOLOGIES

**2**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

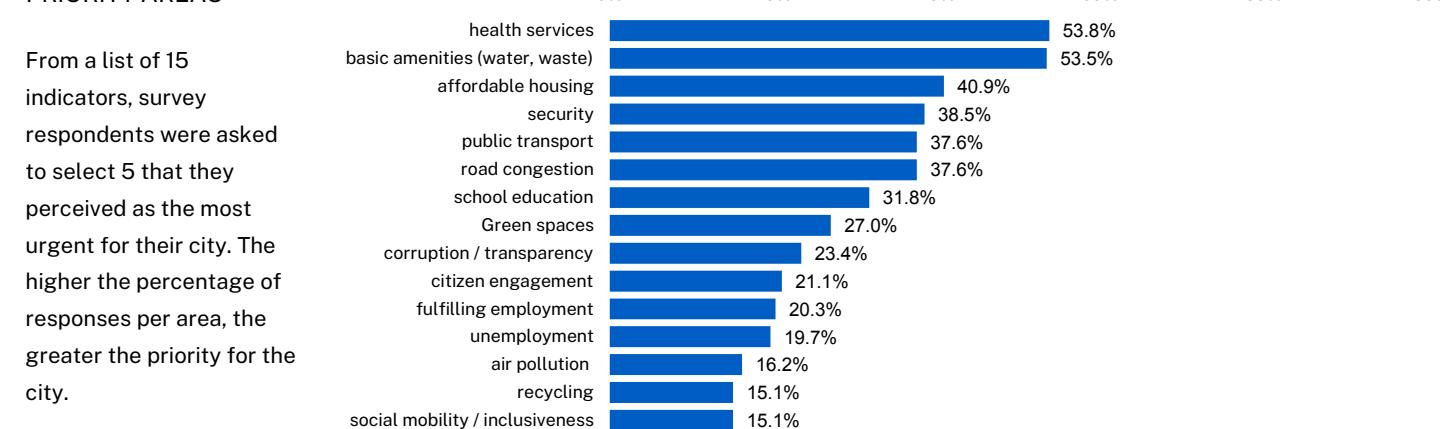
Population 18,970,000  
(UN World Urbanization Prospects)



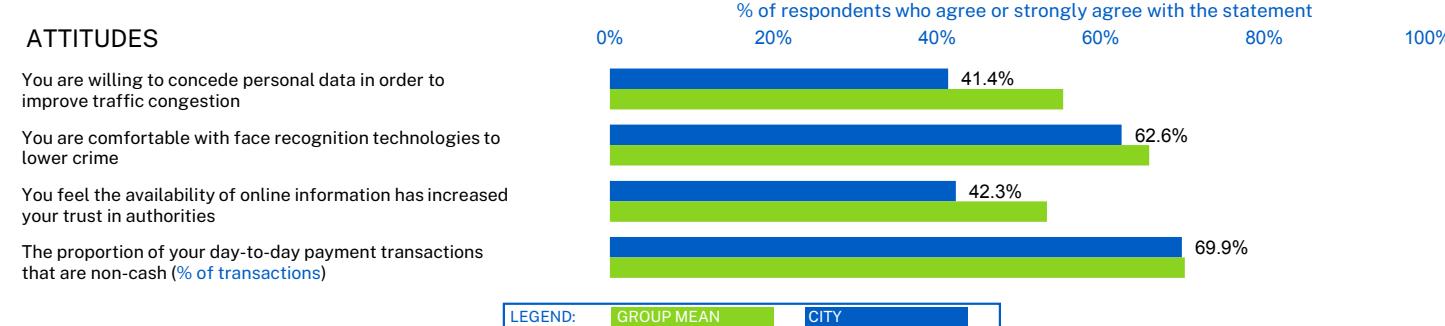
### Country

| Japan                       | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.913  | 0.914  | 0.916  | 0.917  | +0.001      |
| Life expectancy at birth    | 84.4   | 84.7   | 84.8   | 84.8   | +0.0        |
| Expected years of schooling | 15.4   | 15.5   | 15.5   | 15.5   | +0.0        |
| Mean years of schooling     | 12.7   | 12.7   | 12.7   | 12.7   | +0.0        |
| GNI per capita (PPP \$)     | 43,276 | 41,446 | 43,008 | 43,644 | +636        |

## PRIORITY AREAS



## ATTITUDES

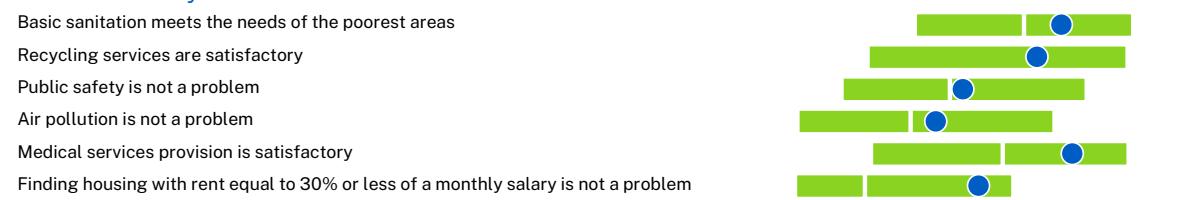


LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

### Health & Safety



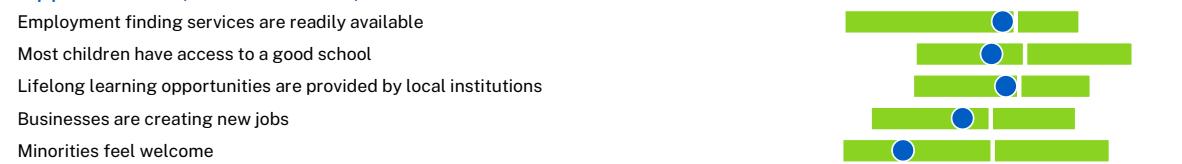
### Mobility



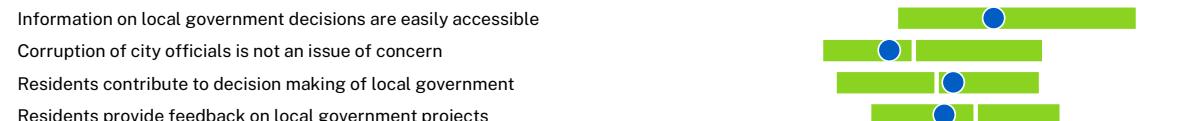
### Activities



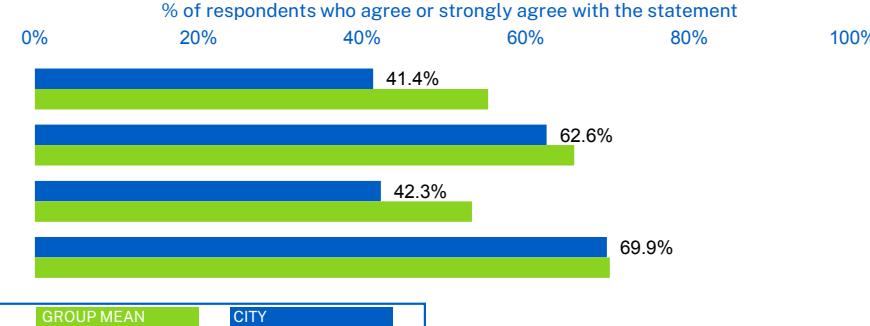
### Opportunities (Work & School)



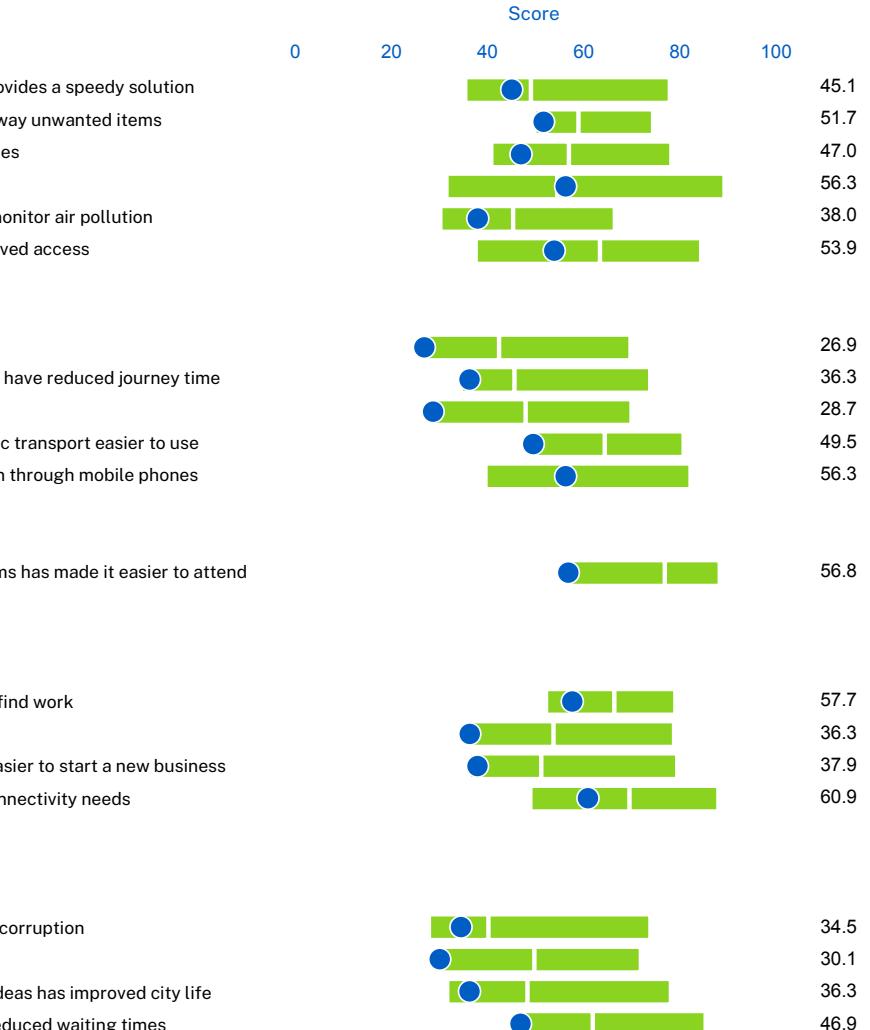
### Governance



0% 20% 40% 60% 80% 100% % of respondents who agree or strongly agree with the statement



0% 20% 40% 60% 80% 100% Score



## SMART CITY RANKING

**2**

Out of 146

2 in 2024  
Out of 142

## SMART CITY RATING

**AAA**

AA in 2024

## FACTOR RATINGS

**AAA**

STRUCTURES

**AAA**

## TECHNOLOGIES

**GROUP 1**

All ratings range from AAA to D

### BACKGROUND INFORMATION

#### City

Population 1,100,000  
(UN World Urbanization Prospects)

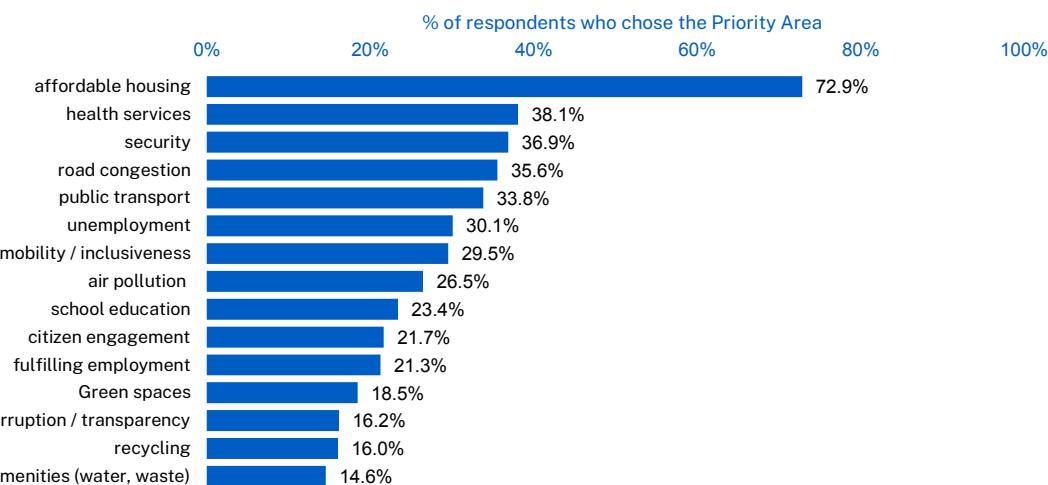
HDI 0.982  
(Global Data Lab)



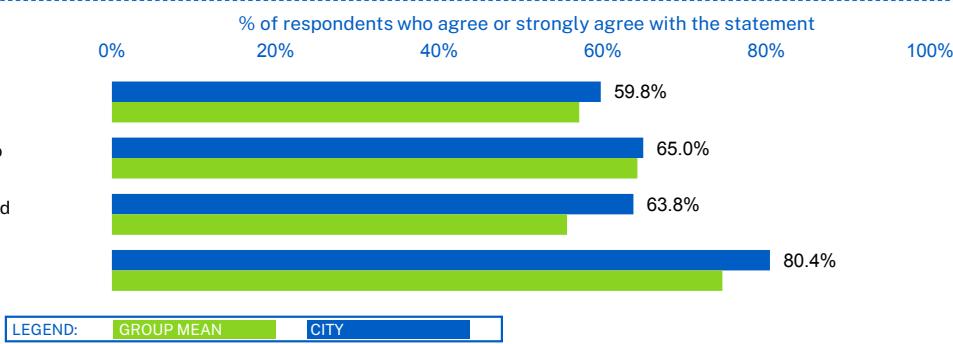
#### Country

| Norway                      | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.952  | 0.956  | 0.959  | 0.960  | +0.001      |
| Life expectancy at birth    | 83.0   | 83.2   | 83.2   | 83.4   | +0.2        |
| Expected years of schooling | 18.2   | 18.3   | 18.6   | 18.6   | +0.0        |
| Mean years of schooling     | 13.0   | 13.1   | 13.1   | 13.1   | +0.0        |
| GNI per capita (PPP \$)     | 66,977 | 66,258 | 67,597 | 69,190 | +1,593      |

### PRIORITY AREAS



### ATTITUDES



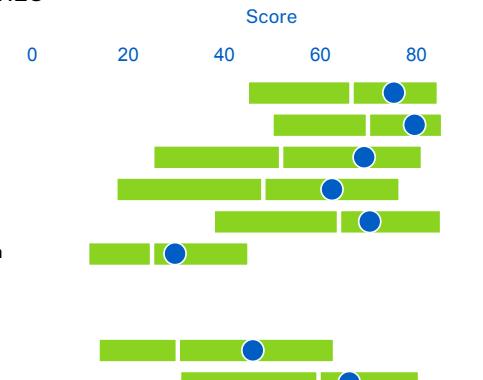
LEGEND: GROUP MEAN CITY

### STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

#### Health & Safety

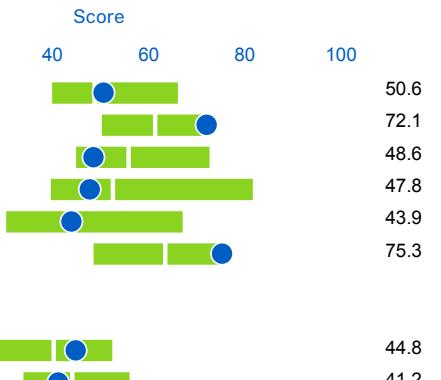
- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem



#### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access

### TECHNOLOGIES



#### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory

#### Mobility

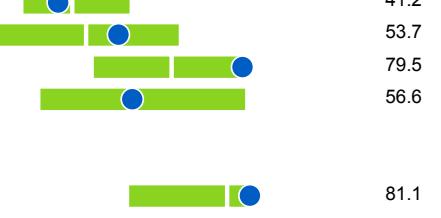
- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones

#### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory

#### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend

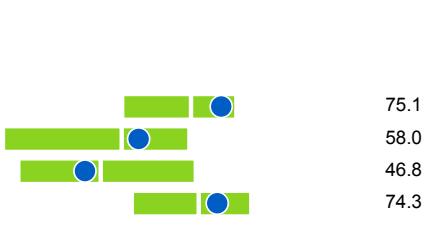


#### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome

#### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs



#### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects

#### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times



# Ottawa

SMART  
CITY  
RANKING

**42**

Out of 146



46 in 2024  
Out of 142

SMART  
CITY RATING

**A**

BBB in 2024

FACTOR  
RATINGS

**BBB**

STRUCTURES

**B**

TECHNOLOGIES

GROUP

**2**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 1,450,000  
(UN World Urbanization Prospects)

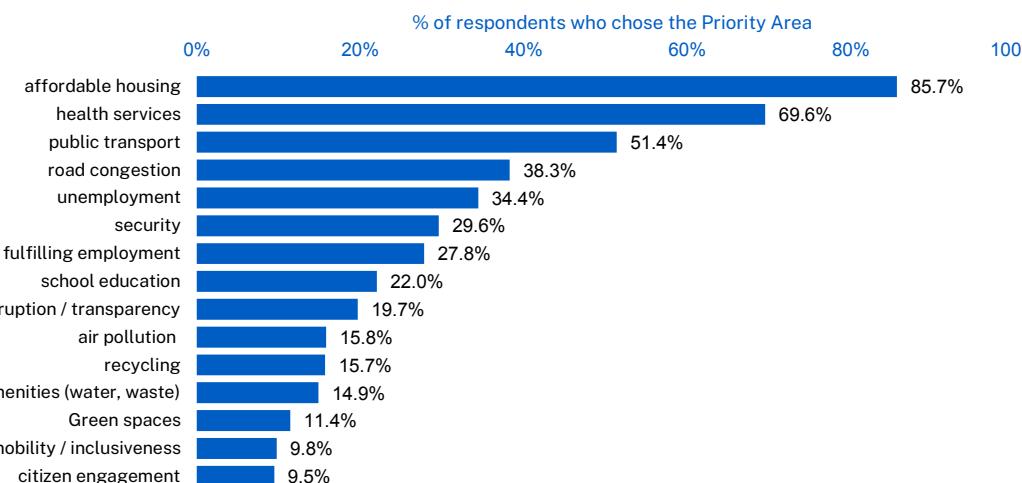
HDI 0.942  
(Global Data Lab)



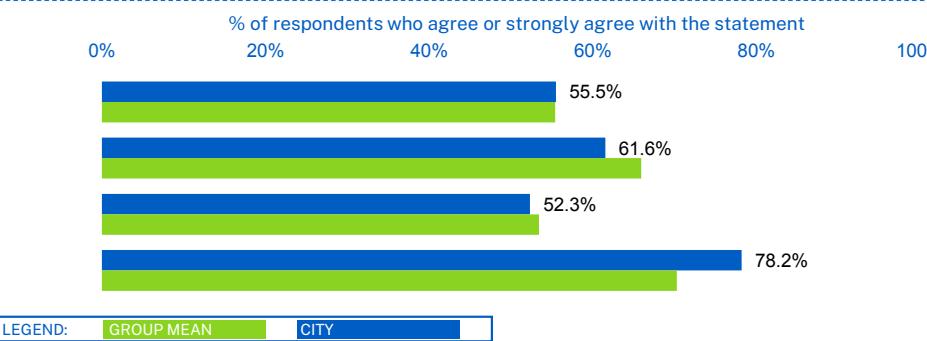
### Country

| Canada                      | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.927  | 0.928  | 0.929  | 0.930  | +0.001      |
| Life expectancy at birth    | 82.4   | 82.0   | 82.7   | 82.8   | +0.2        |
| Expected years of schooling | 15.9   | 15.9   | 16.0   | 16.0   | +0.0        |
| Mean years of schooling     | 13.8   | 13.9   | 13.9   | 13.9   | +0.0        |
| GNI per capita (PPP \$)     | 48,591 | 45,828 | 47,933 | 48,444 | +512        |

## PRIORITY AREAS



## ATTITUDES

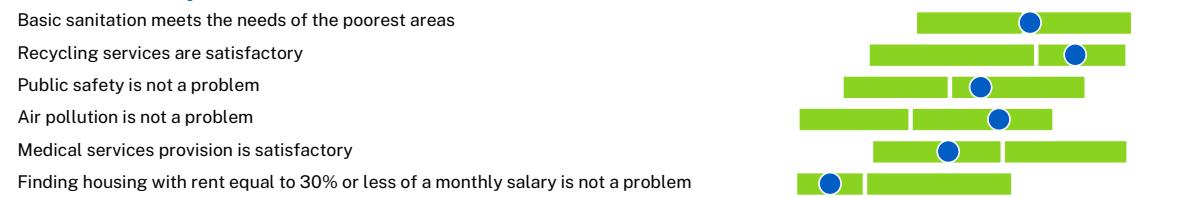


LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

### Health & Safety



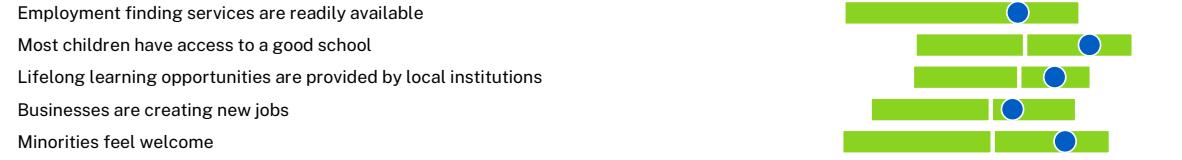
### Mobility



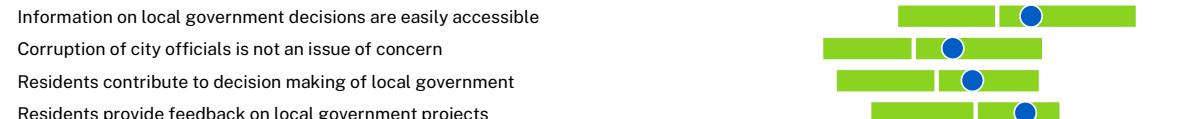
### Activities



### Opportunities (Work & School)

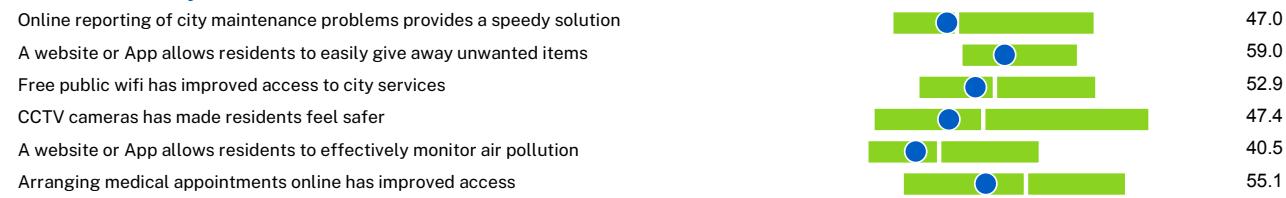


### Governance

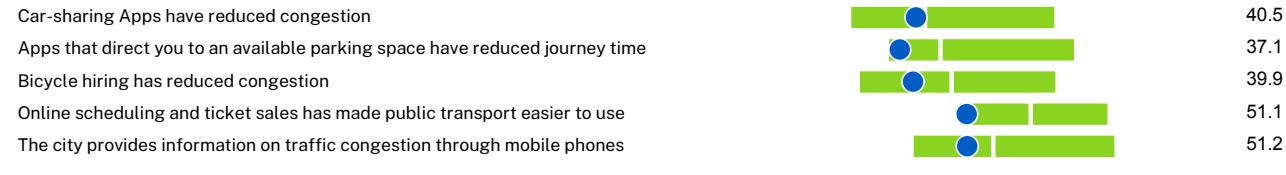


## TECHNOLOGIES

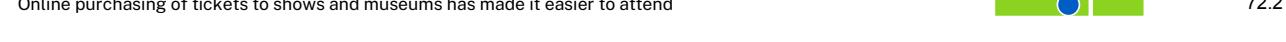
### Health & Safety



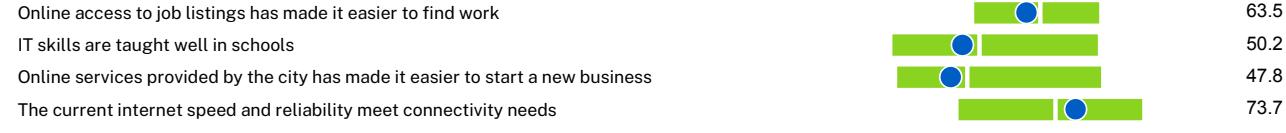
### Mobility



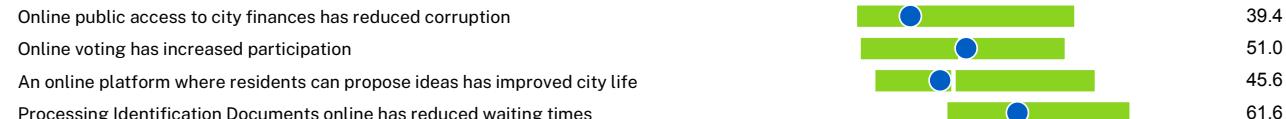
### Activities



### Opportunities (Work & School)



### Governance



# Paris

SMART  
CITY  
RANKING

**71**

Out of 146



49 in 2024  
Out of 142

SMART  
CITY RATING

**BB**

BBB in 2024

FACTOR  
RATINGS

**BB**

STRUCTURES

**A**

TECHNOLOGIES

**1**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 11,280,000  
(UN World Urbanization Prospects)

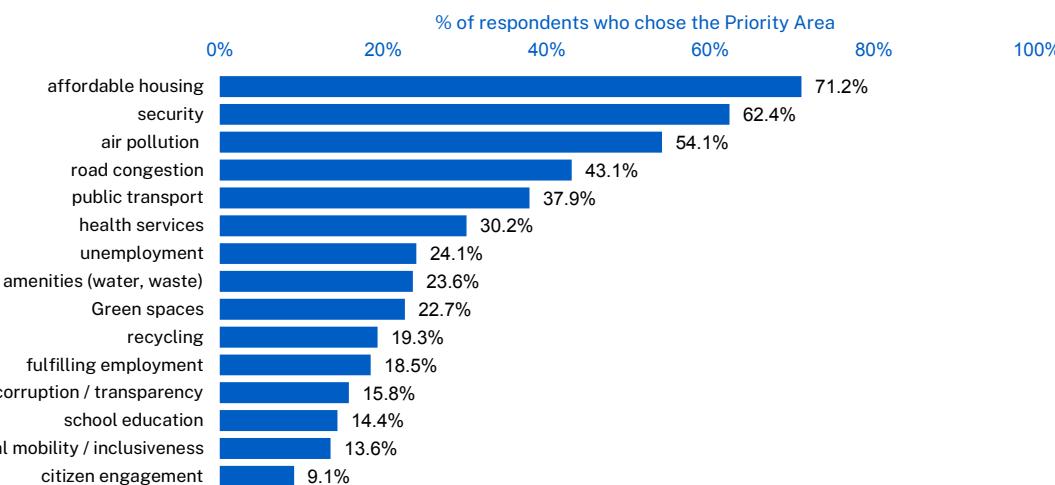
HDI 0.956  
(Global Data Lab)



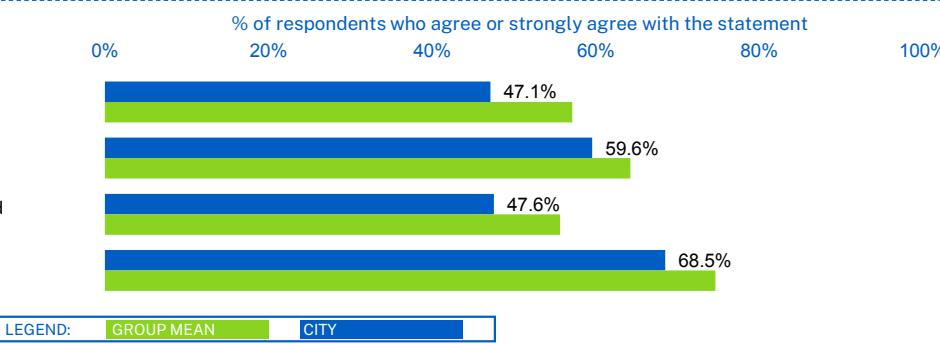
### Country

| France                      | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.893  | 0.896  | 0.899  | 0.903  | +0.004      |
| Life expectancy at birth    | 82.7   | 82.2   | 82.5   | 83.2   | +0.7        |
| Expected years of schooling | 15.9   | 15.9   | 16.0   | 16.0   | +0.0        |
| Mean years of schooling     | 11.6   | 11.7   | 11.7   | 11.7   | +0.0        |
| GNI per capita (PPP \$)     | 46,907 | 42,891 | 46,322 | 47,379 | +1,057      |

## PRIORITY AREAS



## ATTITUDES



LEGEND: GROUP MEAN CITY

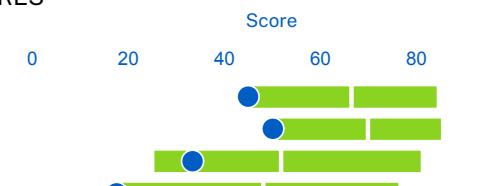
## STRUCTURES

### STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

#### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem

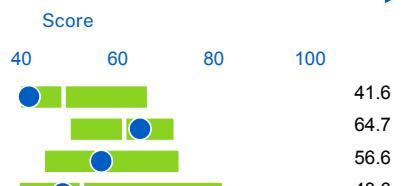


#### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access

Score

### TECHNOLOGIES



#### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory



#### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones



#### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory



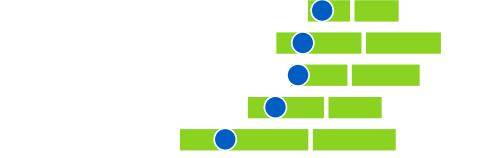
#### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend



#### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome



#### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs



#### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects



#### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times



# Philadelphia

SMART  
CITY  
RANKING  
**100**  
Out of 146

90 in 2024  
Out of 142

SMART  
CITY RATING

**CCC**

B in 2024

FACTOR  
RATINGS

**CCC**

STRUCTURES

**CCC**

TECHNOLOGIES

GROUP

**2**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 1,530,000  
(UN World Urbanization Prospects)

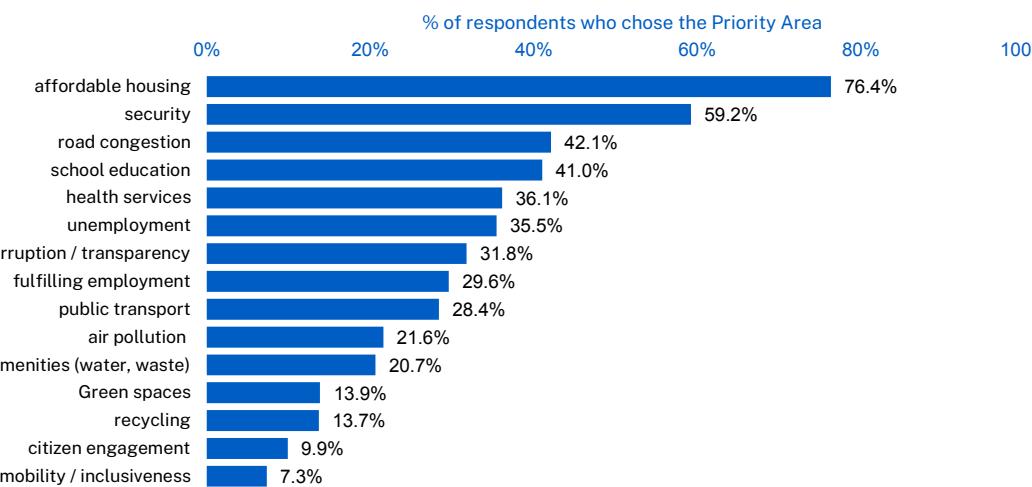
HDI 0.928  
(Global Data Lab)



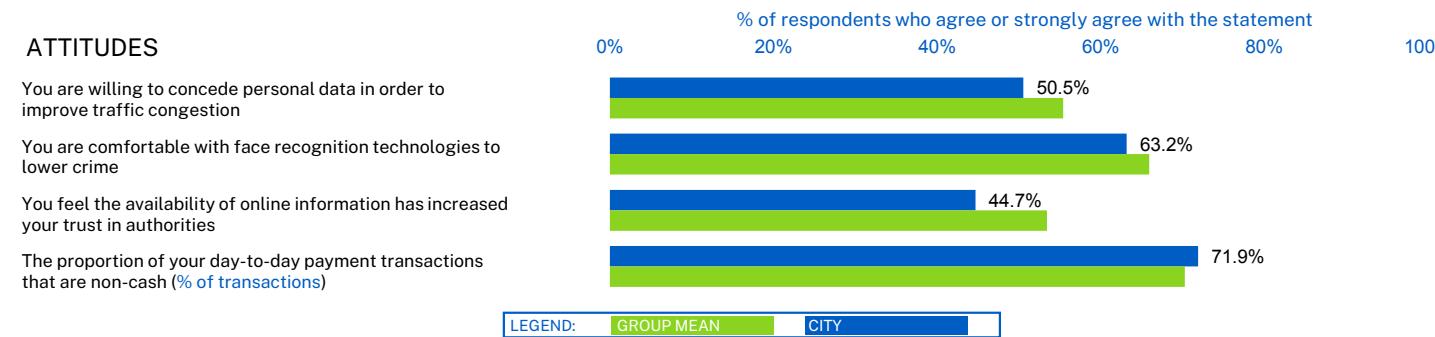
### Country

| United States               | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.924  | 0.926  | 0.928  | 0.930  | +0.002      |
| Life expectancy at birth    | 79.1   | 77.4   | 77.2   | 78.2   | +1.0        |
| Expected years of schooling | 16.6   | 16.6   | 16.4   | 16.4   | +0.0        |
| Mean years of schooling     | 13.6   | 13.7   | 13.6   | 13.6   | +0.0        |
| GNI per capita (PPP \$)     | 63,654 | 61,077 | 64,484 | 65,565 | +1,081      |

## PRIORITY AREAS



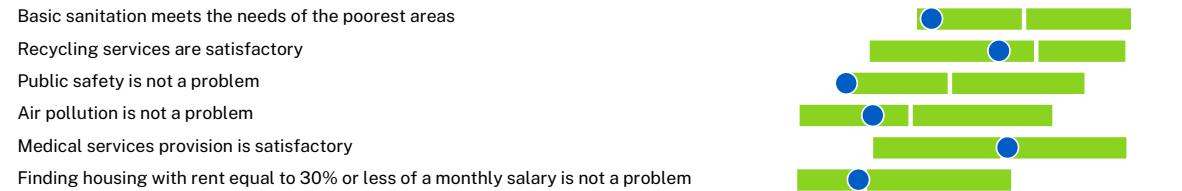
## ATTITUDES



## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



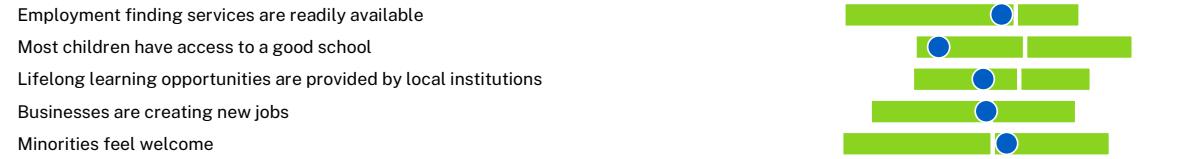
### Mobility



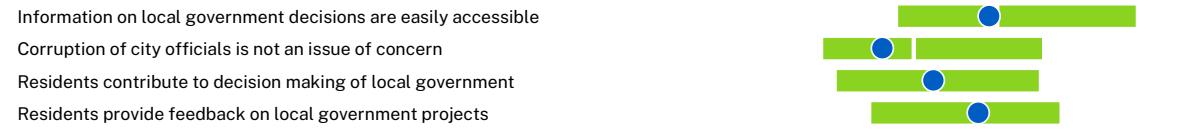
### Activities



### Opportunities (Work & School)



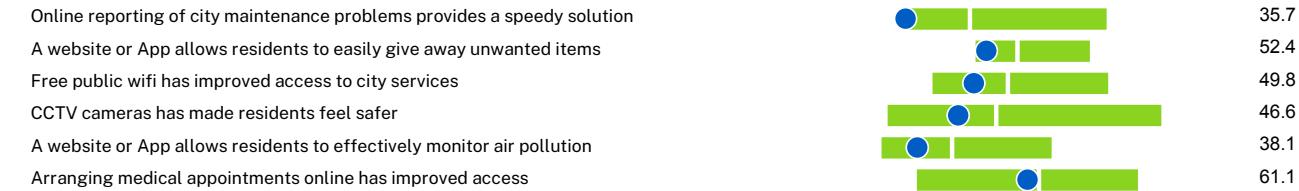
### Governance



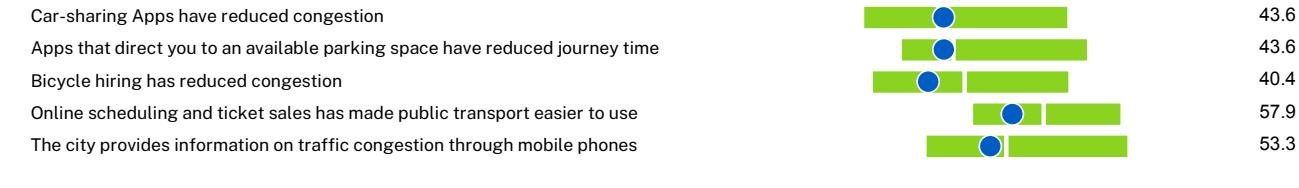
## TECHNOLOGIES

Score

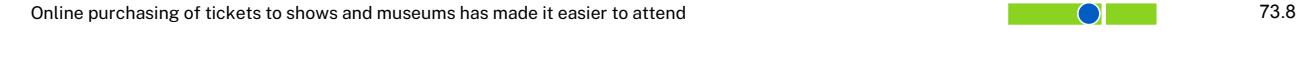
### Health & Safety



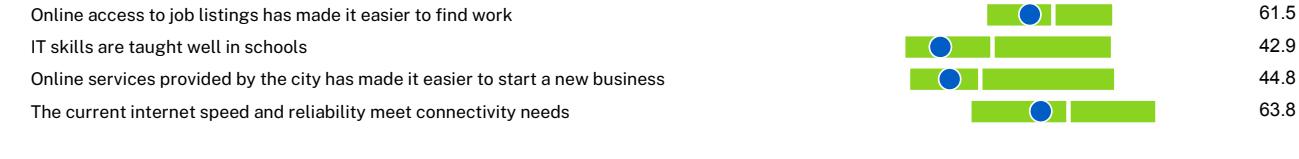
### Mobility



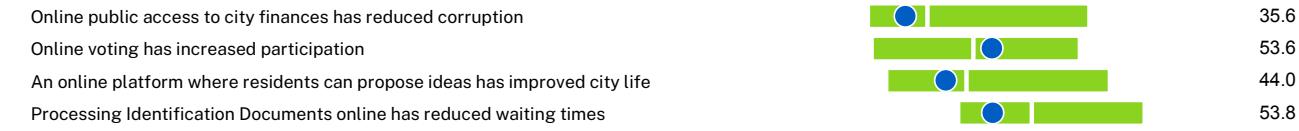
### Activities



### Opportunities (Work & School)



### Governance



# Phoenix

SMART  
CITY  
RANKING  
**105**  
Out of 146

98 in 2024  
Out of 142

SMART  
CITY RATING

**CCC**

CC in 2024

FACTOR  
RATINGS

**CC**

STRUCTURES

**C**

TECHNOLOGIES

GROUP

**3**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

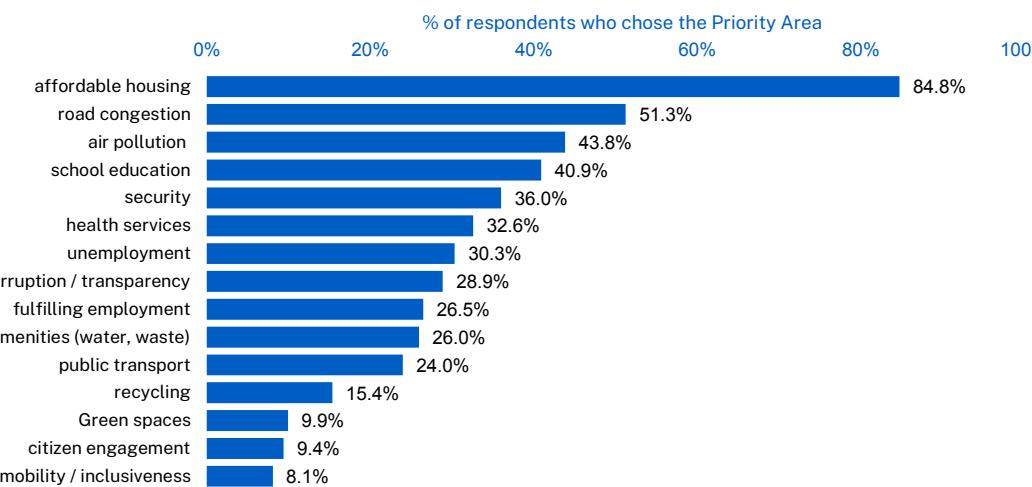
|            |  |
|------------|--|
| Population | 1,660,000<br>(UN World Urbanization Prospects) |
| HDI        | 0.906<br>(Global Data Lab)                     |



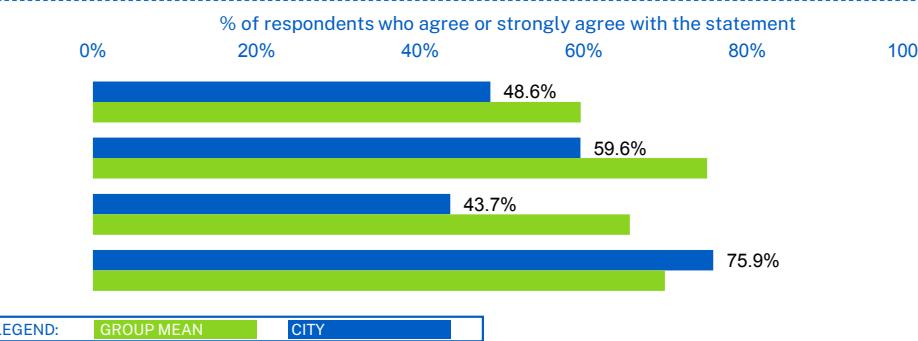
### Country

| United States               | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.924  | 0.926  | 0.928  | 0.930  | +0.002      |
| Life expectancy at birth    | 79.1   | 77.4   | 77.2   | 78.2   | +1.0        |
| Expected years of schooling | 16.6   | 16.6   | 16.4   | 16.4   | +0.0        |
| Mean years of schooling     | 13.6   | 13.7   | 13.6   | 13.6   | +0.0        |
| GNI per capita (PPP \$)     | 63,654 | 61,077 | 64,484 | 65,565 | +1,081      |

## PRIORITY AREAS



## ATTITUDES



LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety

|   | Score |  |
|---|-------|--|
| Basic sanitation meets the needs of the poorest areas                               | 57.2  |  |
| Recycling services are satisfactory   | 65.1  |  |
| Public safety is not a problem  | 36.6  |  |
| Air pollution is not a problem  | 29.9  |  |
| Medical services provision is satisfactory  | 63.5  |  |
| Finding housing with rent equal to 30% or less of a monthly salary is not a problem | 24.4  |  |

### Mobility

|                                     | Score |  |
|-------------------------------------|-------|--|
| Traffic congestion is not a problem | 18.6  |  |
| Public transport is satisfactory    | 46.6  |  |

### Activities

|   | Score |  |
|---|-------|--|
| Green spaces are satisfactory                                   | 55.0  |  |
| Cultural activities (shows, bars, and museums) are satisfactory | 75.2  |  |

### Opportunities (Work & School)

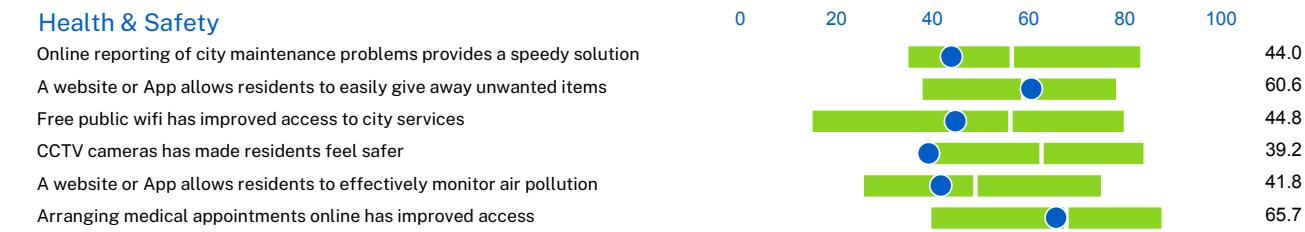
|  | Score |  |
|--|-------|--|
| Employment finding services are readily available                  | 63.5  |  |
| Most children have access to a good school                         | 58.3  |  |
| Lifelong learning opportunities are provided by local institutions | 59.4  |  |
| Businesses are creating new jobs                                   | 63.6  |  |
| Minorities feel welcome  | 60.7  |  |

### Governance

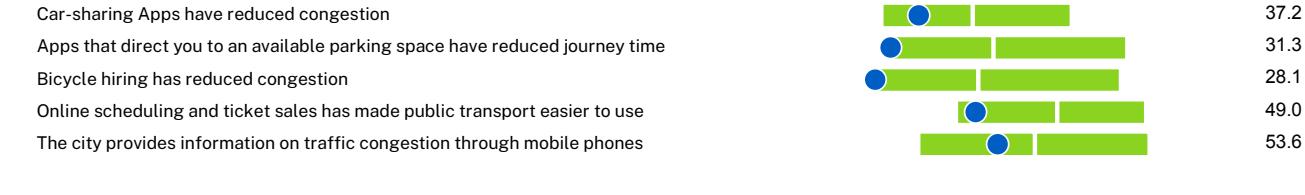
|   | Score |  |
|---|-------|--|
| Information on local government decisions are easily accessible | 57.6  |  |
| Corruption of city officials is not an issue of concern         | 38.9  |  |
| Residents contribute to decision making of local government     | 45.2  |  |
| Residents provide feedback on local government projects         | 54.8  |  |

## TECHNOLOGIES

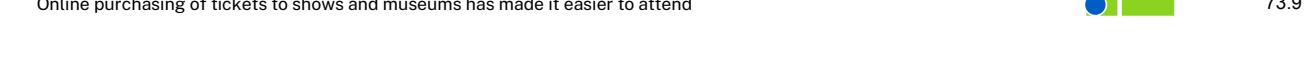
Score



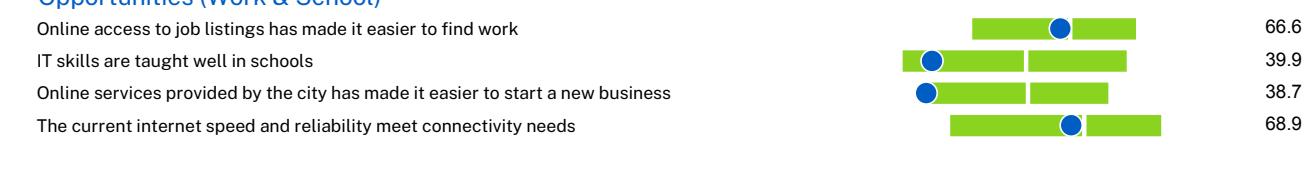
### Mobility



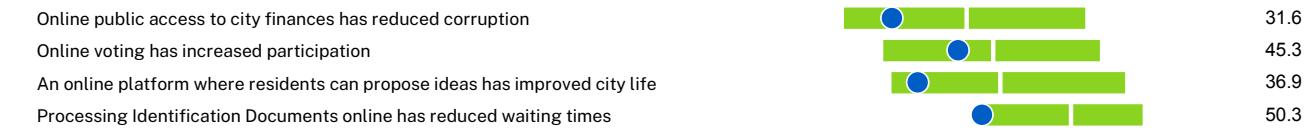
### Activities



### Opportunities (Work & School)



### Governance



# Prague

SMART  
CITY  
RANKING

**12**

Out of 146



15 in 2024  
Out of 142

SMART  
CITY RATING

**AA**

A in 2024

FACTOR  
RATINGS

**AA**

STRUCTURES

**AA**

TECHNOLOGIES

**1**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 1,330,000  
(UN World Urbanization Prospects)

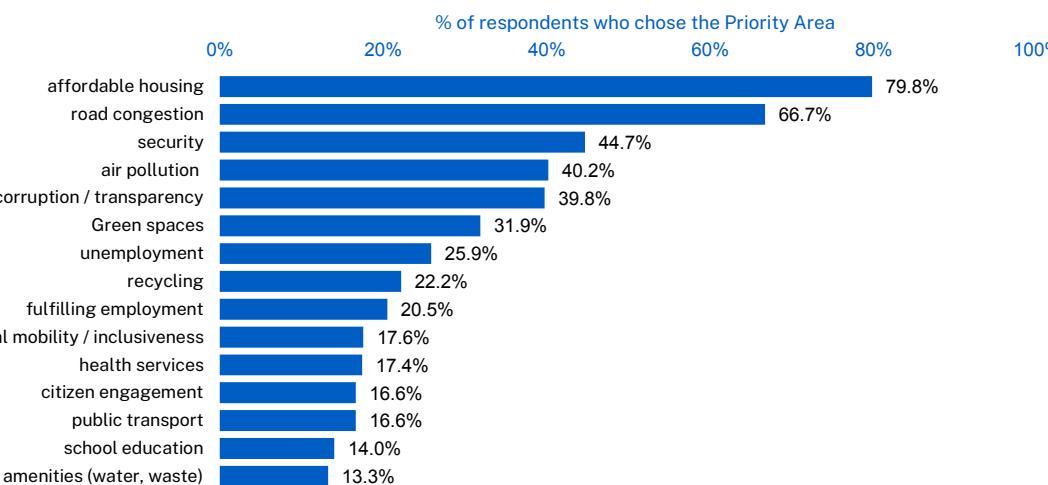
HDI 0.965  
(Global Data Lab)



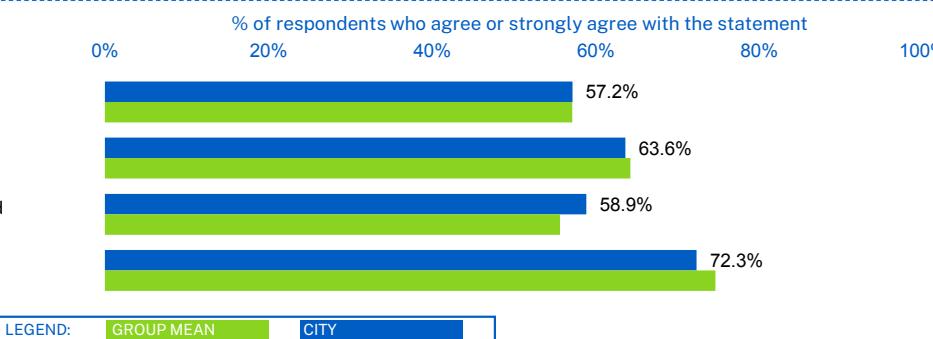
### Country

| Czechia                     | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.891  | 0.894  | 0.896  | 0.893  | -0.003      |
| Life expectancy at birth    | 79.2   | 78.6   | 77.7   | 78.1   | +0.4        |
| Expected years of schooling | 16.1   | 16.1   | 16.3   | 16.3   | +0.0        |
| Mean years of schooling     | 12.9   | 12.9   | 12.9   | 12.9   | +0.0        |
| GNI per capita (PPP \$)     | 38,512 | 36,696 | 39,061 | 39,945 | +884        |

## PRIORITY AREAS



## ATTITUDES

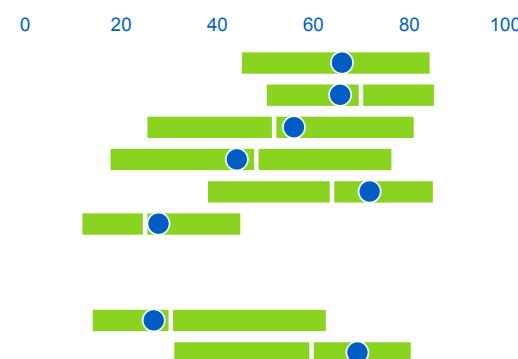


LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

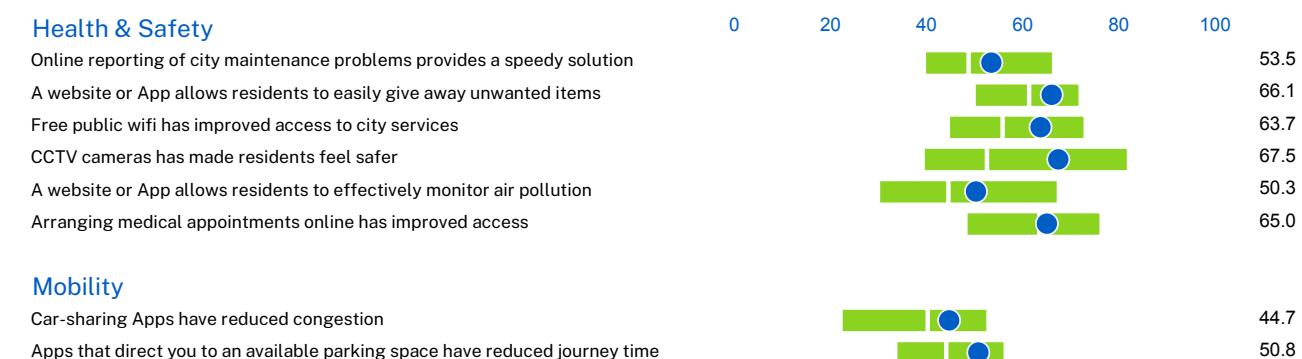
## STRUCTURES

### Score



## TECHNOLOGIES

### Score



### Mobility

Traffic congestion is not a problem  
Public transport is satisfactory



### Mobility

Car-sharing Apps have reduced congestion  
Apps that direct you to an available parking space have reduced journey time  
Bicycle hiring has reduced congestion  
Online scheduling and ticket sales has made public transport easier to use  
The city provides information on traffic congestion through mobile phones



### Activities

Green spaces are satisfactory  
Cultural activities (shows, bars, and museums) are satisfactory



### Activities

Online purchasing of tickets to shows and museums has made it easier to attend



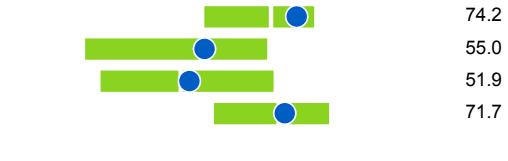
### Opportunities (Work & School)

Employment finding services are readily available  
Most children have access to a good school  
Lifelong learning opportunities are provided by local institutions  
Businesses are creating new jobs  
Minorities feel welcome



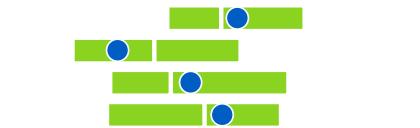
### Opportunities (Work & School)

Online access to job listings has made it easier to find work  
IT skills are taught well in schools  
Online services provided by the city has made it easier to start a new business  
The current internet speed and reliability meet connectivity needs



### Governance

Information on local government decisions are easily accessible  
Corruption of city officials is not an issue of concern  
Residents contribute to decision making of local government  
Residents provide feedback on local government projects



### Governance

Online public access to city finances has reduced corruption  
Online voting has increased participation  
An online platform where residents can propose ideas has improved city life  
Processing Identification Documents online has reduced waiting times



# Rabat

SMART  
CITY  
RANKING  
**123**

Out of 146



126 in 2024  
Out of 142

SMART  
CITY RATING

**CC**

C in 2024

FACTOR  
RATINGS

**C**

STRUCTURES

**C**

TECHNOLOGIES

GROUP

**4**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

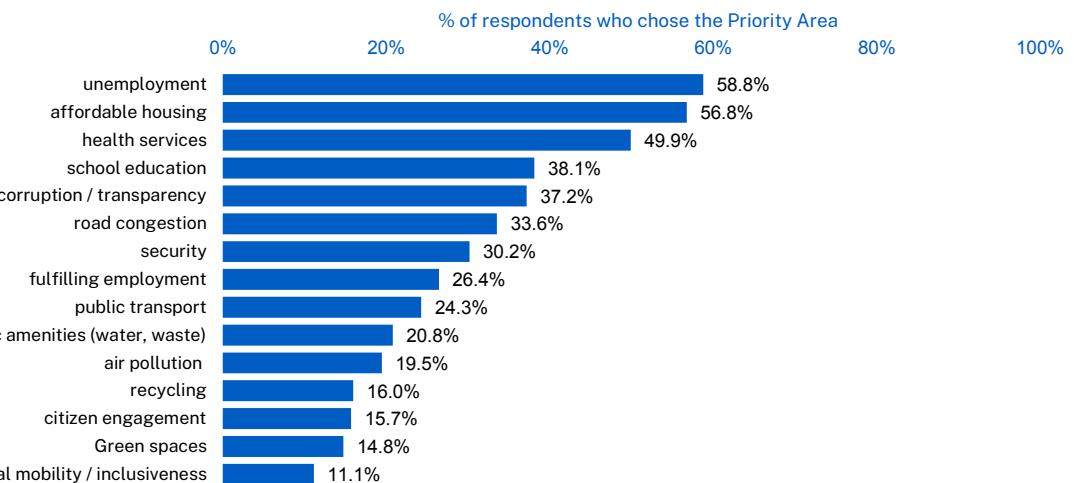
Population 1,990,000  
(UN World Urbanization Prospects)

HDI 0.717  
(Global Data Lab)



## PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. The higher the percentage of responses per area, the greater the priority for the city.



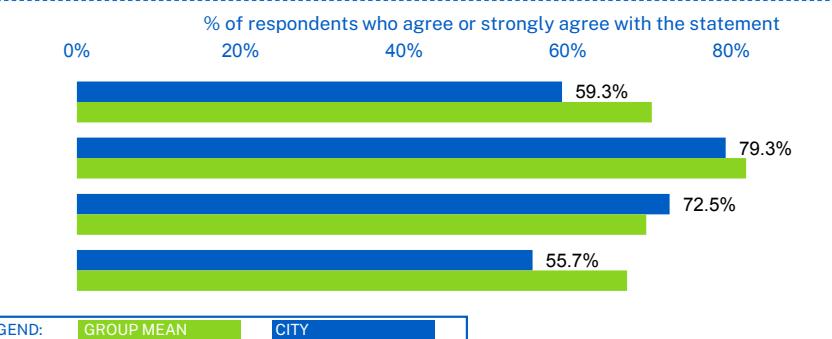
## ATTITUDES

You are willing to concede personal data in order to improve traffic congestion

You are comfortable with face recognition technologies to lower crime

You feel the availability of online information has increased your trust in authorities

The proportion of your day-to-day payment transactions that are non-cash (% of transactions)



LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

Score

### Health & Safety

Basic sanitation meets the needs of the poorest areas



### Health & Safety

Online reporting of city maintenance problems provides a speedy solution



### Mobility

Traffic congestion is not a problem



### Mobility

Car-sharing Apps have reduced congestion



### Activities

Green spaces are satisfactory



### Activities

Online purchasing of tickets to shows and museums has made it easier to attend



### Opportunities (Work & School)

Employment finding services are readily available



### Opportunities (Work & School)

Online access to job listings has made it easier to find work



### Governance

Information on local government decisions are easily accessible



### Governance

Online public access to city finances has reduced corruption



All ratings range  
from AAA to D

# Reykjavik

SMART  
CITY  
RANKING  
**21**

Out of 146



26 in 2024  
Out of 142

SMART  
CITY RATING

**AA**

BBB in 2024

FACTOR  
RATINGS

**A**  
STRUCTURES

**A**  
TECHNOLOGIES

GROUP  
**1**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

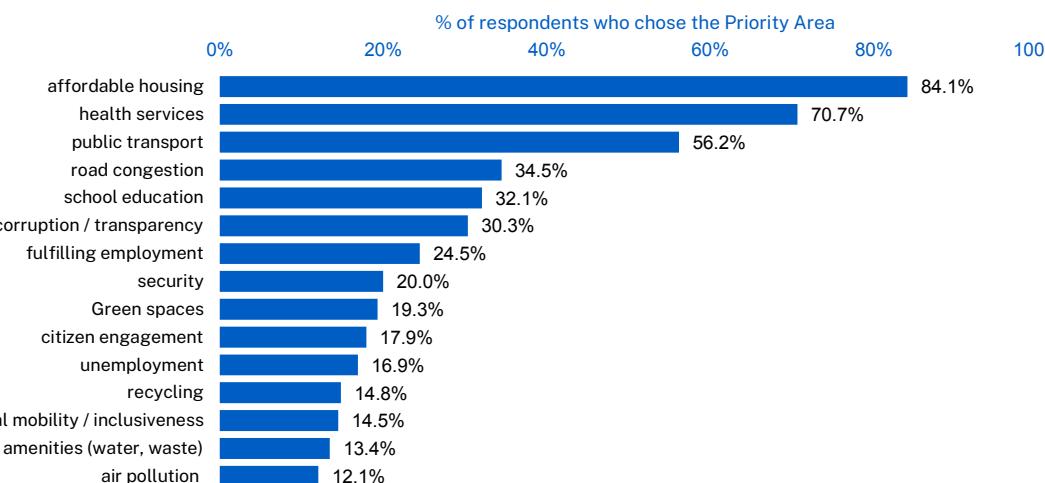
Population 240,000  
(Eurostat)



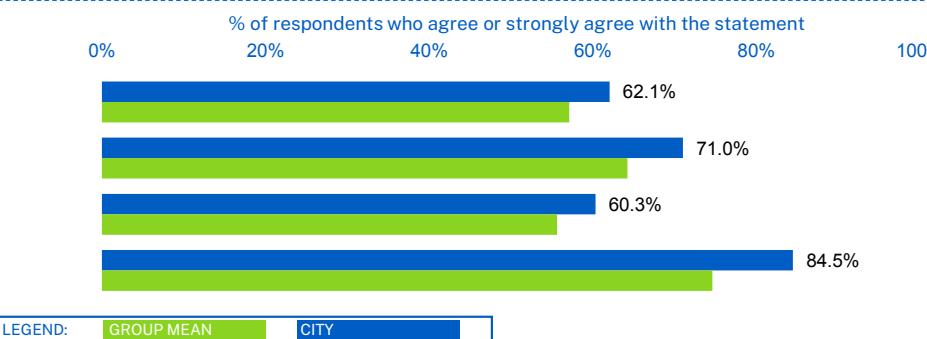
### Country

| Iceland                     | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.948  | 0.951  | 0.955  | 0.958  | +0.003      |
| Life expectancy at birth    | 82.4   | 82.6   | 82.7   | 82.8   | +0.1        |
| Expected years of schooling | 18.2   | 18.2   | 19.1   | 19.1   | +0.0        |
| Mean years of schooling     | 13.7   | 13.8   | 13.8   | 13.8   | +0.0        |
| GNI per capita (PPP \$)     | 56,453 | 51,984 | 52,671 | 54,688 | +2,017      |

## PRIORITY AREAS



## ATTITUDES



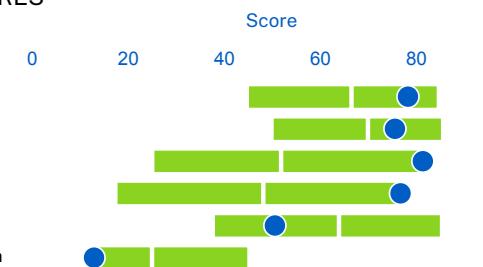
LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem



### Health & Safety

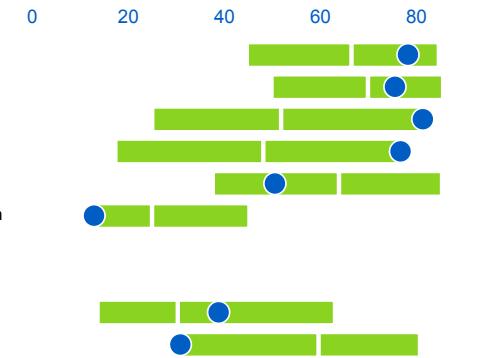
- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access

Score

## TECHNOLOGIES

### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory



### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones

Score

### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory



### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend

Score

### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome



### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs

Score

### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects



### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times

Score

## SMART CITY RANKING

**46**

Out of 146



59 in 2024  
Out of 142

## SMART CITY RATING

**BBB**

BB in 2024

## FACTOR RATINGS

**BBB**

STRUCTURES

**BBB**

TECHNOLOGIES

**2**

All ratings range from AAA to D

### BACKGROUND INFORMATION

#### City

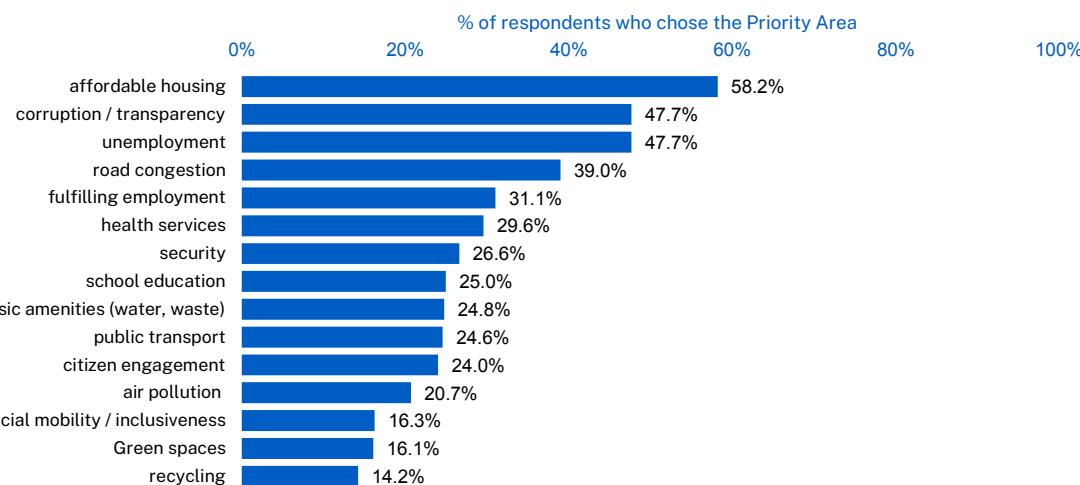
Population 740,000  
(UN World Urbanization Prospects)



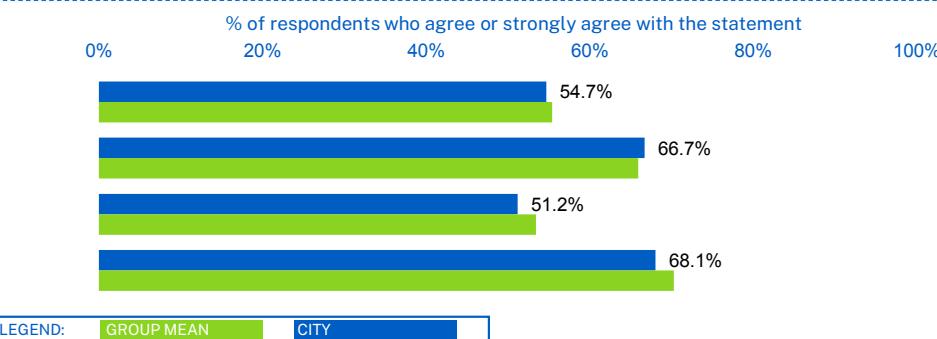
#### Country

| Latvia                      | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.853  | 0.858  | 0.863  | 0.868  | +0.005      |
| Life expectancy at birth    | 75.5   | 75.5   | 73.6   | 75.9   | +2.3        |
| Expected years of schooling | 16.5   | 16.5   | 16.6   | 16.6   | +0.0        |
| Mean years of schooling     | 13.3   | 13.3   | 13.3   | 13.3   | +0.0        |
| GNI per capita (PPP \$)     | 30,570 | 30,562 | 31,443 | 32,083 | +640        |

### PRIORITY AREAS



### ATTITUDES

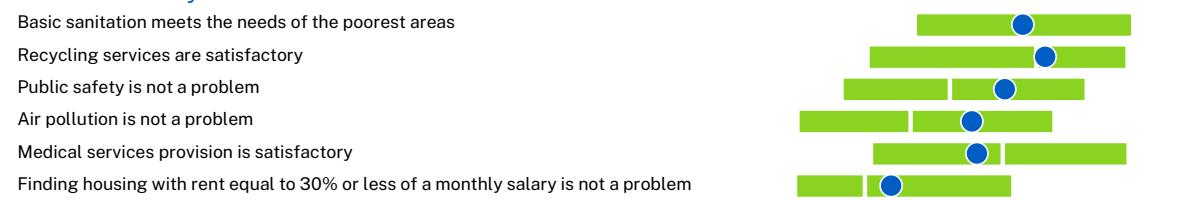


LEGEND: GROUP MEAN CITY

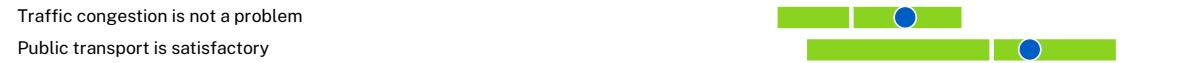
### STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

#### Health & Safety



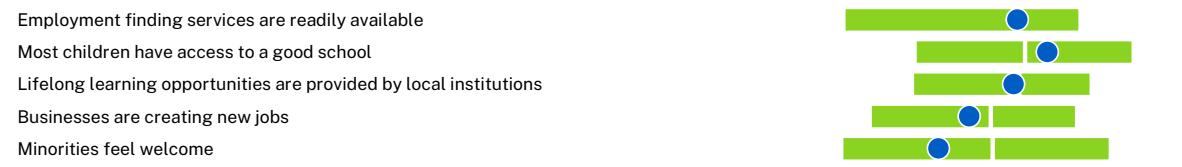
#### Mobility



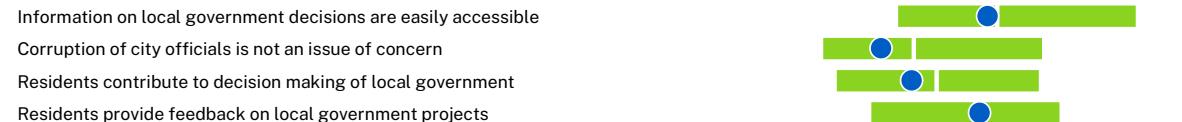
#### Activities



#### Opportunities (Work & School)



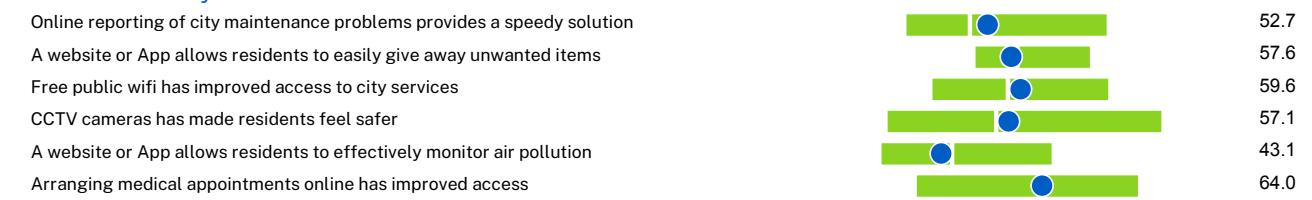
#### Governance



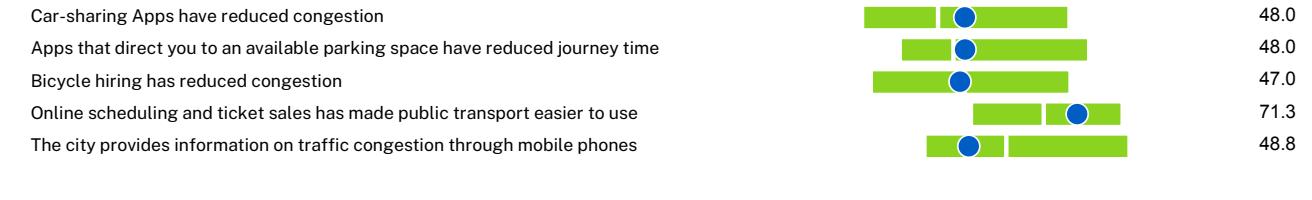
### TECHNOLOGIES

LEGEND: MIN CITY MEAN GROUP MAX

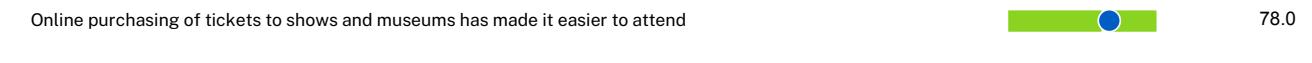
#### Health & Safety



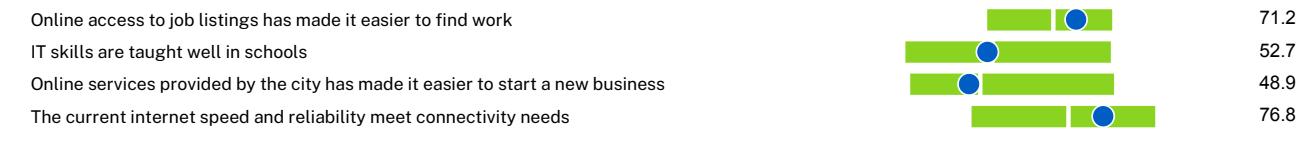
#### Mobility



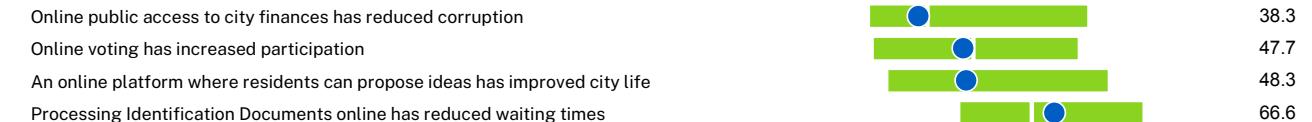
#### Activities



#### Opportunities (Work & School)



#### Governance



# Rio de Janeiro

SMART  
CITY  
RANKING  
**146**  
Out of 146

139 in 2024  
Out of 142

SMART  
CITY RATING

**D**

D in 2024

FACTOR  
RATINGS

**D**

STRUCTURES  
TECHNOLOGIES  
**D**

**4**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 13,820,000  
(UN World Urbanization Prospects)

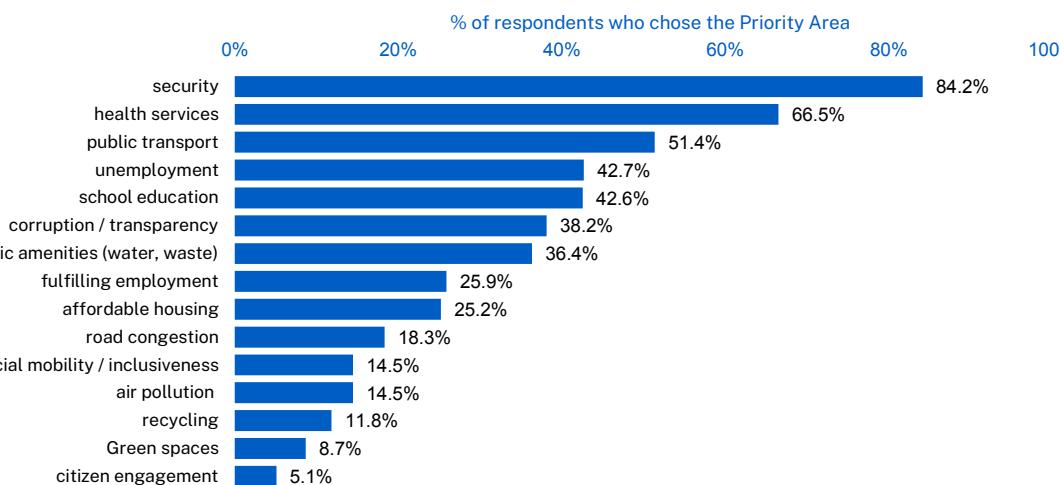
HDI 0.789  
(Global Data Lab)



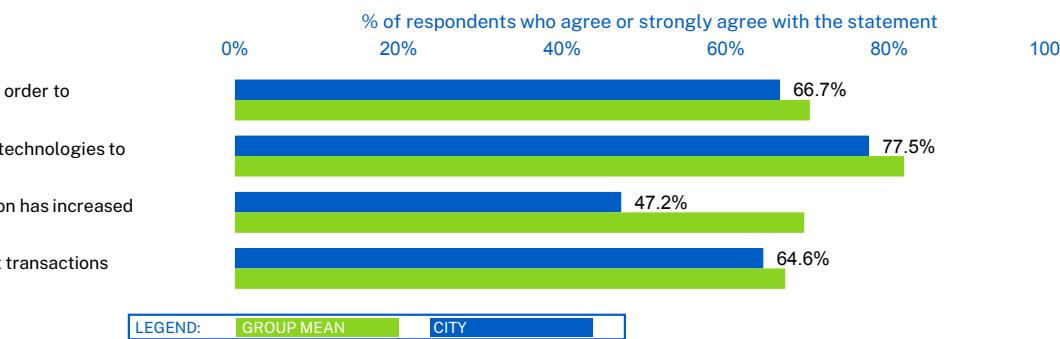
### Country

| Brazil                      | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.752  | 0.753  | 0.758  | 0.762  | +0.004      |
| Life expectancy at birth    | 75.3   | 74.0   | 72.8   | 73.4   | +0.7        |
| Expected years of schooling | 15.4   | 15.4   | 15.6   | 15.6   | +0.0        |
| Mean years of schooling     | 8.1    | 8.3    | 8.3    | 8.3    | +0.0        |
| GNI per capita (PPP \$)     | 14,291 | 13,815 | 14,342 | 14,616 | +274        |

## PRIORITY AREAS



## ATTITUDES



LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem

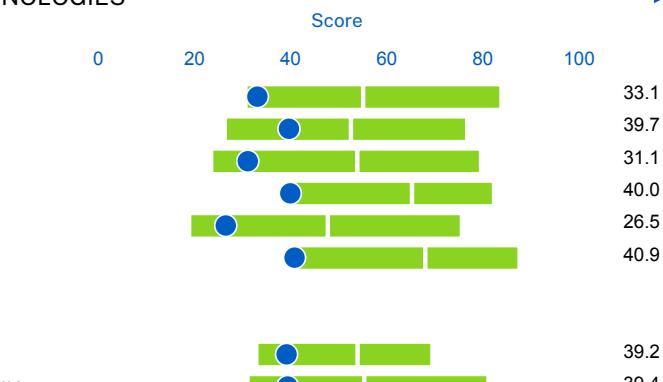


## TECHNOLOGIES

LEGEND: MIN CITY MEAN GROUP MAX

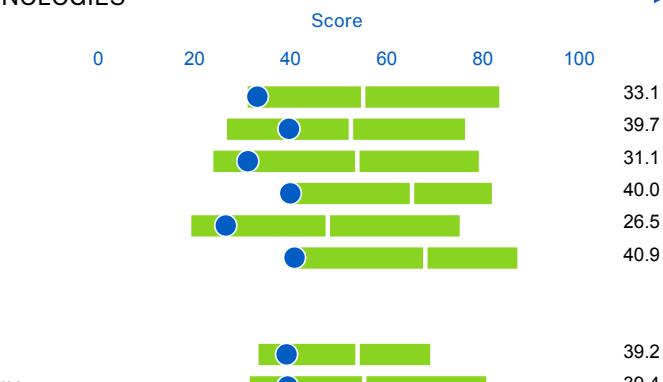
### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access



### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory

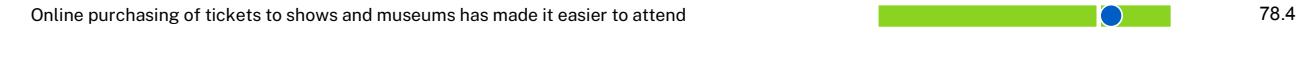


### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory

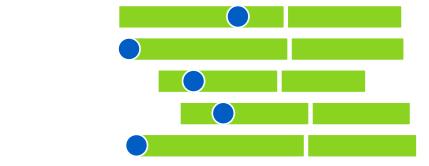


## Activities



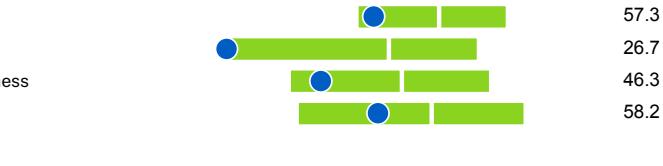
### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome



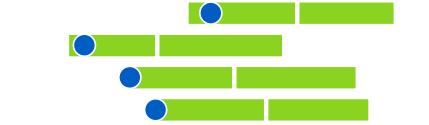
### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs

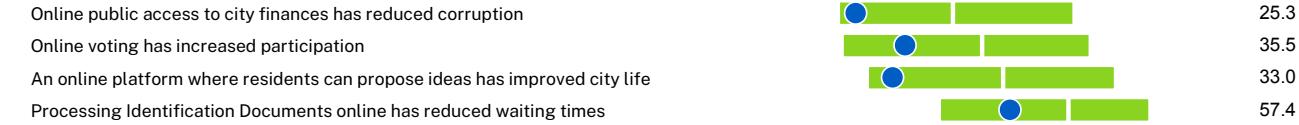


### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects



## Governance



# Riyadh

SMART  
CITY  
RANKING

**27**

Out of 146



25 in 2024  
Out of 142

SMART  
CITY RATING

**BB**

B in 2024

FACTOR  
RATINGS

**BB**

STRUCTURES

**BB**

TECHNOLOGIES

**3**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 7,820,000  
(UN World Urbanization Prospects)

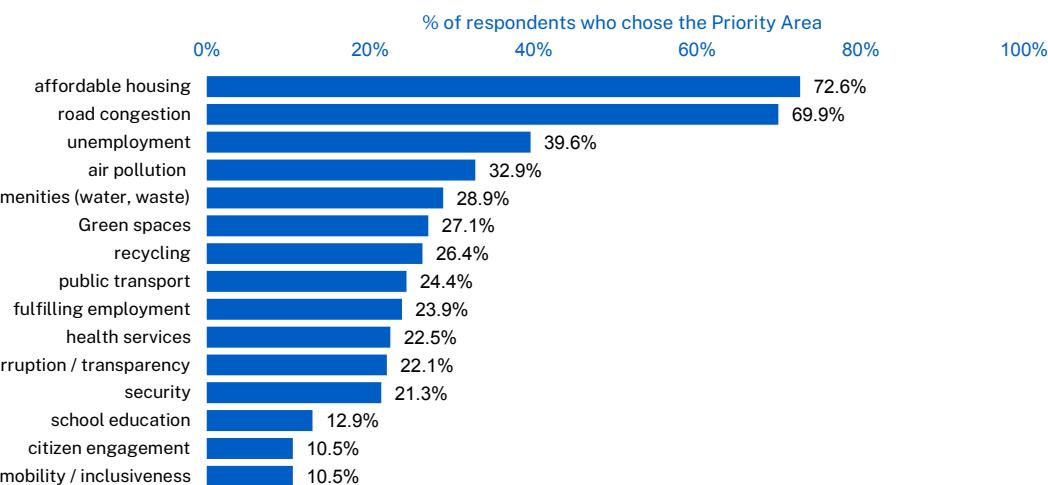


HDI 0.899  
(Global Data Lab)

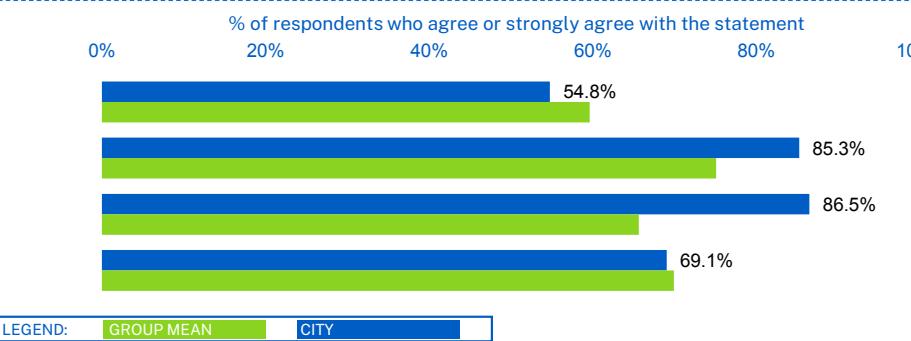
### Country

| Saudi Arabia                | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.842  | 0.846  | 0.849  | 0.856  | +0.007      |
| Life expectancy at birth    | 77.3   | 76.2   | 76.9   | 77.9   | +1.0        |
| Expected years of schooling | 15.0   | 15.2   | 15.2   | 15.2   | +0.0        |
| Mean years of schooling     | 10.9   | 11.3   | 11.3   | 11.3   | +0.0        |
| GNI per capita (PPP \$)     | 47,529 | 45,563 | 47,441 | 50,620 | +3,179      |

## PRIORITY AREAS



## ATTITUDES



LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

Score

### Health & Safety

|   |      |
|---|------|
| Basic sanitation meets the needs of the poorest areas                               | 84.6 |
| Recycling services are satisfactory   | 76.0 |
| Public safety is not a problem  | 49.3 |
| Air pollution is not a problem  | 31.0 |
| Medical services provision is satisfactory  | 83.9 |
| Finding housing with rent equal to 30% or less of a monthly salary is not a problem | 47.1 |

### Mobility

|                                     |      |
|-------------------------------------|------|
| Traffic congestion is not a problem | 19.6 |
| Public transport is satisfactory    | 68.8 |

### Activities

|   |      |
|---|------|
| Green spaces are satisfactory                                   | 71.9 |
| Cultural activities (shows, bars, and museums) are satisfactory | 83.0 |

### Opportunities (Work & School)

|  |      |
|--|------|
| Employment finding services are readily available                  | 61.3 |
| Most children have access to a good school                         | 78.7 |
| Lifelong learning opportunities are provided by local institutions | 72.2 |
| Businesses are creating new jobs                                   | 68.8 |
| Minorities feel welcome  | 70.5 |

### Governance

|   |      |
|---|------|
| Information on local government decisions are easily accessible | 82.0 |
| Corruption of city officials is not an issue of concern         | 48.3 |
| Residents contribute to decision making of local government     | 57.6 |
| Residents provide feedback on local government projects         | 61.0 |

## TECHNOLOGIES

Score

### Health & Safety

|  |      |
|--|------|
| Online reporting of city maintenance problems provides a speedy solution | 79.1 |
| A website or App allows residents to easily give away unwanted items     | 70.7 |
| Free public wifi has improved access to city services                    | 63.3 |
| CCTV cameras has made residents feel safer                               | 81.6 |
| A website or App allows residents to effectively monitor air pollution   | 57.3 |
| Arranging medical appointments online has improved access                | 85.8 |

### Mobility

|  |      |
|--|------|
| Car-sharing Apps have reduced congestion                                     | 61.3 |
| Apps that direct you to an available parking space have reduced journey time | 66.2 |
| Bicycle hiring has reduced congestion  | 53.3 |
| Online scheduling and ticket sales has made public transport easier to use   | 78.6 |
| The city provides information on traffic congestion through mobile phones    | 71.1 |

### Activities

|  |      |
|--|------|
| Online purchasing of tickets to shows and museums has made it easier to attend | 86.2 |
|--|------|

### Opportunities (Work & School)

|   |      |
|---|------|
| Online access to job listings has made it easier to find work                   | 78.0 |
| IT skills are taught well in schools  | 74.7 |
| Online services provided by the city has made it easier to start a new business | 77.0 |
| The current internet speed and reliability meet connectivity needs              | 80.0 |

### Governance

|   |      |
|---|------|
| Online public access to city finances has reduced corruption                | 71.3 |
| Online voting has increased participation                                   | 71.7 |
| An online platform where residents can propose ideas has improved city life | 74.4 |
| Processing Identification Documents online has reduced waiting times        | 84.2 |

All ratings range from AAA to D

# Rome

SMART  
CITY  
RANKING  
**139**

Out of 146

133 in 2024  
Out of 142

SMART  
CITY RATING

**CCC**

CCC in 2024

FACTOR  
RATINGS

**CCC**

STRUCTURES

**CCC**

TECHNOLOGIES

GROUP

**2**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 4,330,000  
(UN World Urbanization Prospects)

HDI 0.929  
(Global Data Lab)

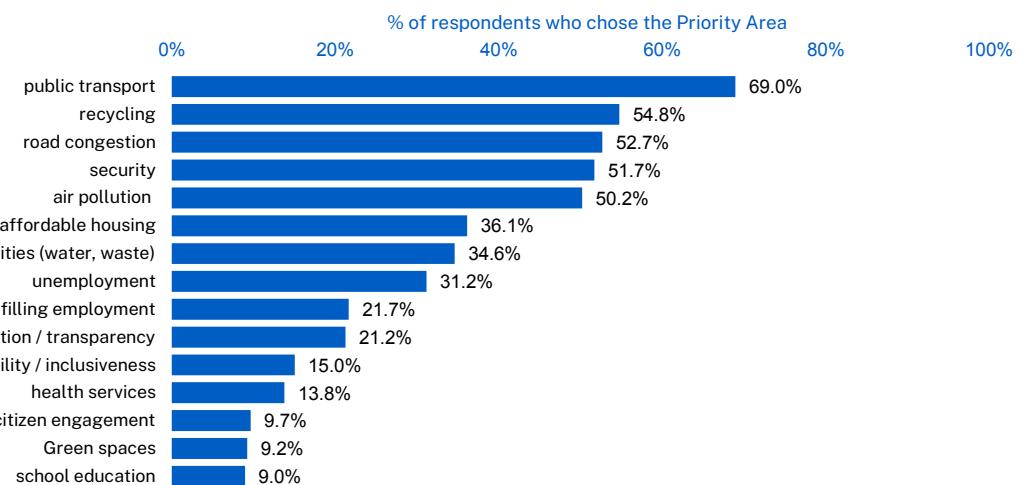


### Country

| Italy                       | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.881  | 0.886  | 0.889  | 0.894  | +0.005      |
| Life expectancy at birth    | 83.6   | 82.4   | 82.9   | 84.1   | +1.2        |
| Expected years of schooling | 16.4   | 16.5   | 16.7   | 16.7   | +0.0        |
| Mean years of schooling     | 10.7   | 10.7   | 10.7   | 10.7   | +0.0        |
| GNI per capita (PPP \$)     | 43,102 | 39,587 | 42,856 | 44,284 | +1,428      |

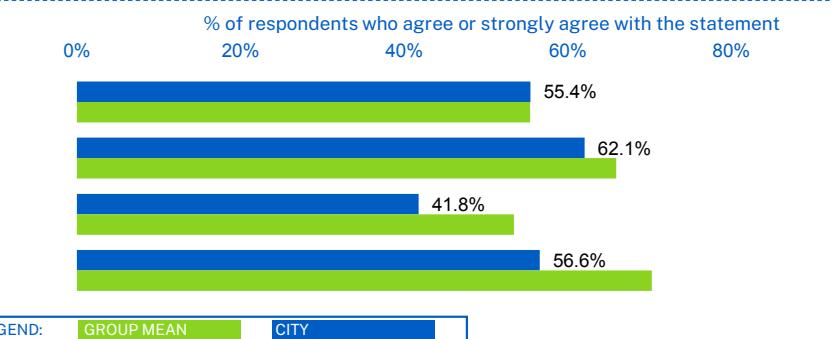
## PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. The higher the percentage of responses per area, the greater the priority for the city.



## ATTITUDES

- You are willing to concede personal data in order to improve traffic congestion
- You are comfortable with face recognition technologies to lower crime
- You feel the availability of online information has increased your trust in authorities
- The proportion of your day-to-day payment transactions that are non-cash (% of transactions)



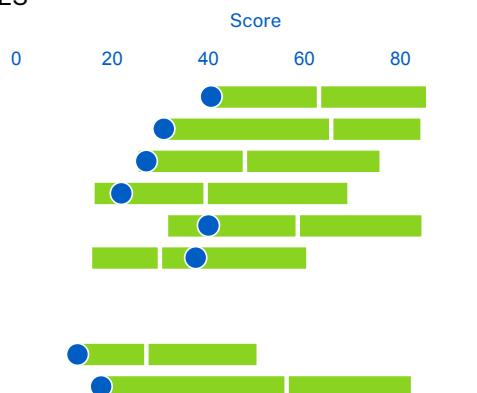
LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety

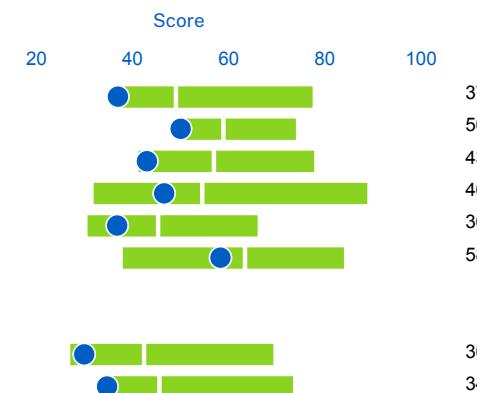
- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem



### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access

## TECHNOLOGIES



### Mobility

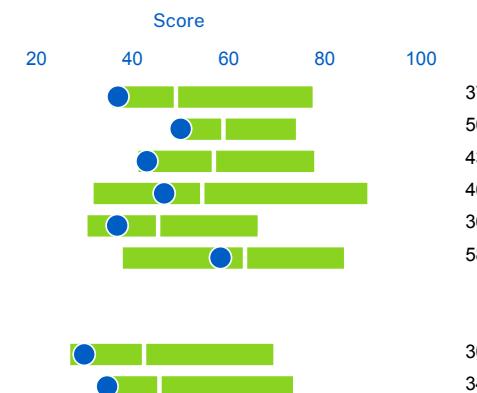
- Traffic congestion is not a problem
- Public transport is satisfactory



### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones

## STRUCTURES



### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory



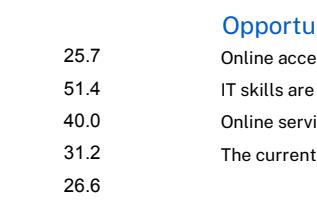
### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend



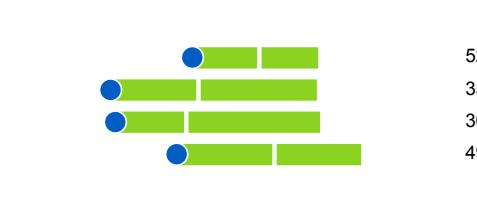
### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome



### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs



### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects



### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times



# Rotterdam

SMART  
CITY  
RANKING

**41**

Out of 146

41 in 2024  
Out of 142

SMART  
CITY RATING

**BB**

A in 2024

FACTOR  
RATINGS

**BBB**

STRUCTURES

**BBB**

TECHNOLOGIES

GROUP  
**1**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 1,020,000  
(UN World Urbanization Prospects)

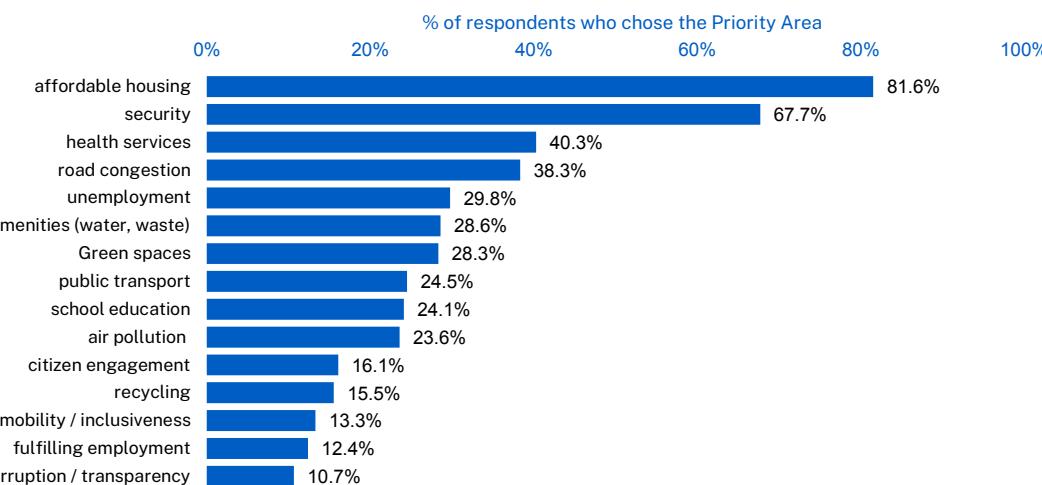
HDI 0.946  
(Global Data Lab)



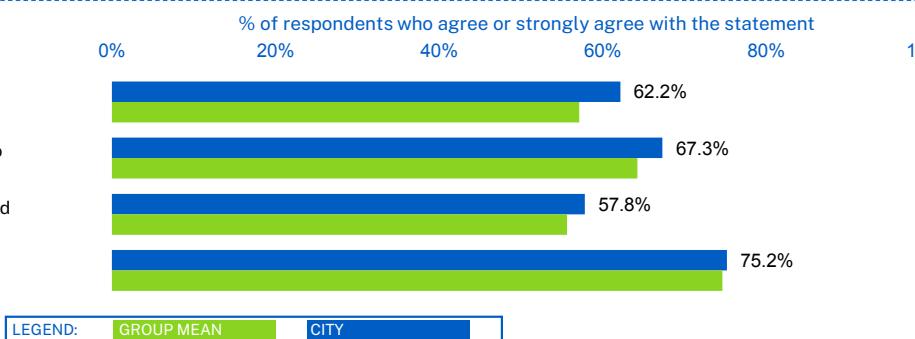
### Country

| Netherlands                 | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.932  | 0.933  | 0.936  | 0.939  | +0.003      |
| Life expectancy at birth    | 82.0   | 81.6   | 81.7   | 82.5   | +0.8        |
| Expected years of schooling | 18.4   | 18.4   | 18.6   | 18.6   | +0.0        |
| Mean years of schooling     | 12.5   | 12.6   | 12.6   | 12.6   | +0.0        |
| GNI per capita (PPP \$)     | 55,628 | 52,500 | 55,355 | 57,278 | +1,923      |

## PRIORITY AREAS



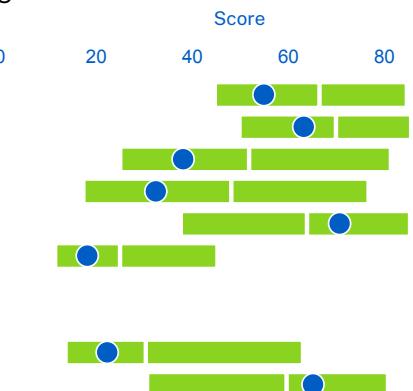
## ATTITUDES



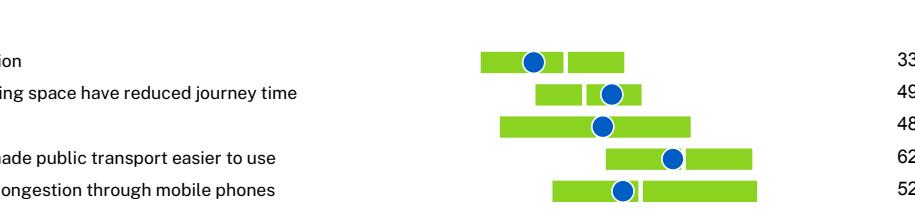
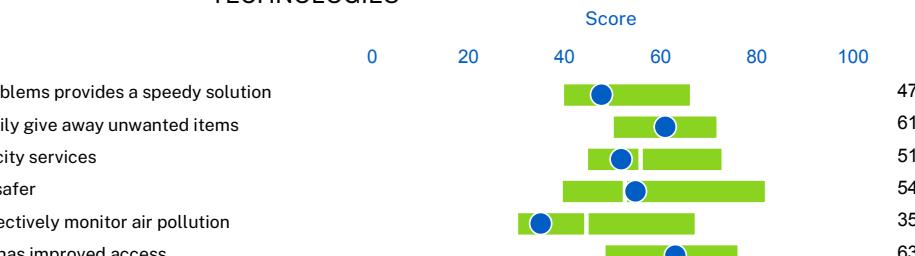
LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES



## TECHNOLOGIES



# San Francisco

SMART  
CITY  
RANKING  
**82**

Out of 146



75 in 2024  
Out of 142

SMART  
CITY RATING

**BB**

BB in 2024

FACTOR  
RATINGS

**B**  
STRUCTURES

**B**  
TECHNOLOGIES

GROUP  
**2**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 790,000  
(UN World Urbanization Prospects)

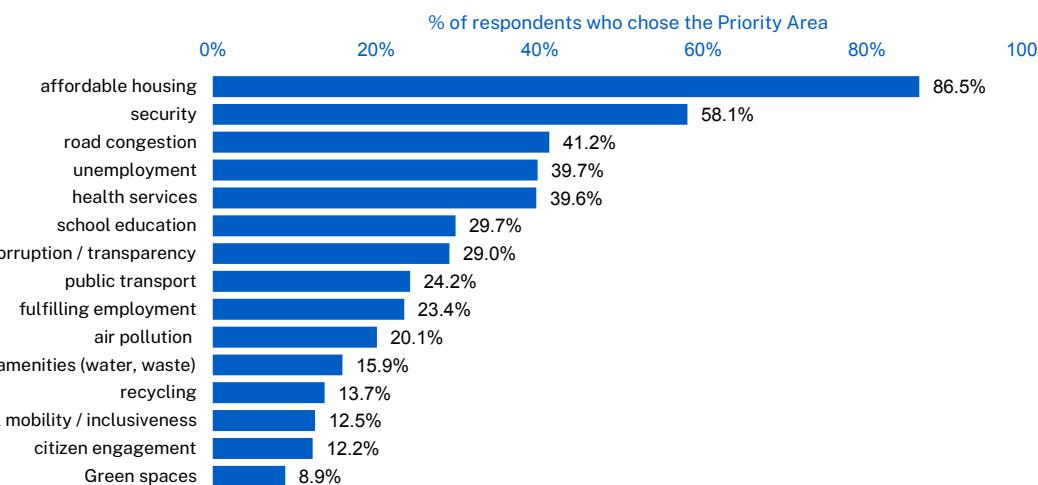
HDI 0.935  
(Global Data Lab)



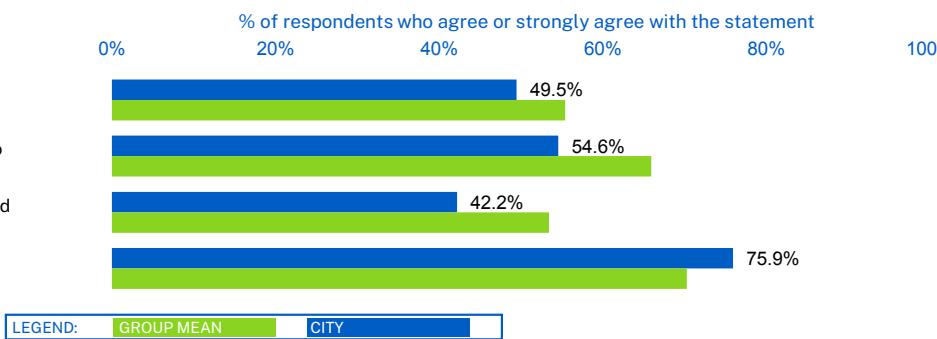
### Country

| United States               | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.924  | 0.926  | 0.928  | 0.930  | +0.002      |
| Life expectancy at birth    | 79.1   | 77.4   | 77.2   | 78.2   | +1.0        |
| Expected years of schooling | 16.6   | 16.6   | 16.4   | 16.4   | +0.0        |
| Mean years of schooling     | 13.6   | 13.7   | 13.6   | 13.6   | +0.0        |
| GNI per capita (PPP \$)     | 63,654 | 61,077 | 64,484 | 65,565 | +1,081      |

## PRIORITY AREAS



## ATTITUDES

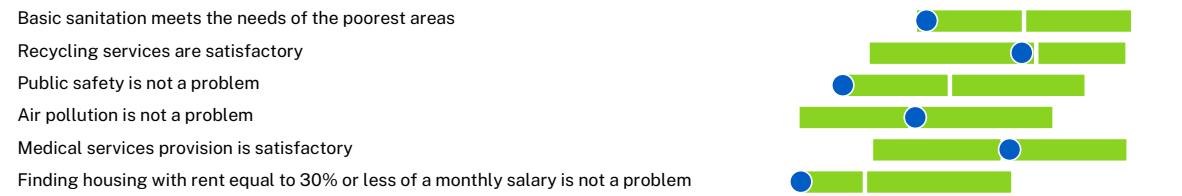


LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



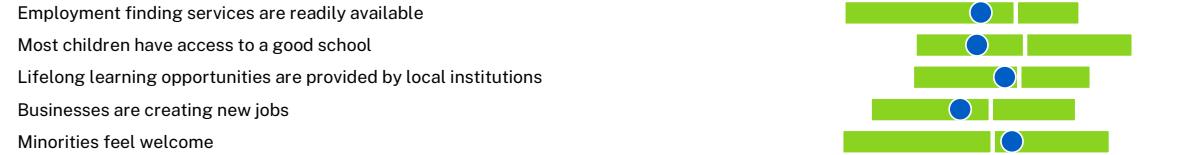
### Mobility



### Activities



### Opportunities (Work & School)



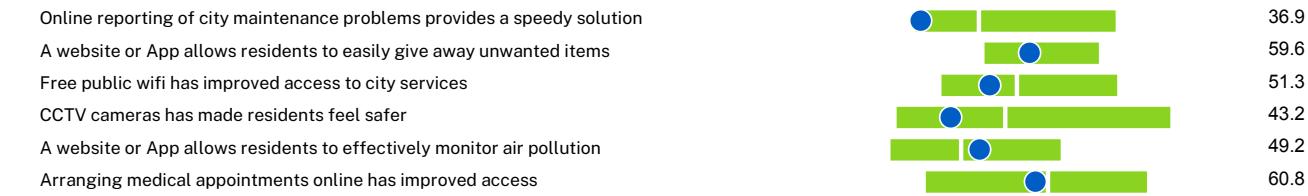
### Governance



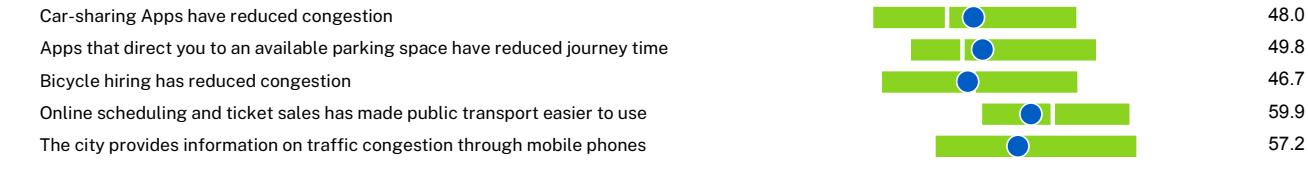
## TECHNOLOGIES

Score

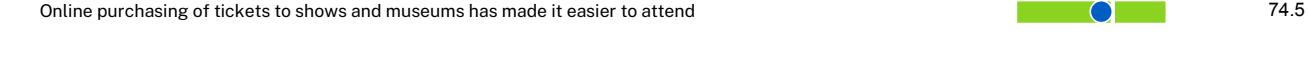
### Health & Safety



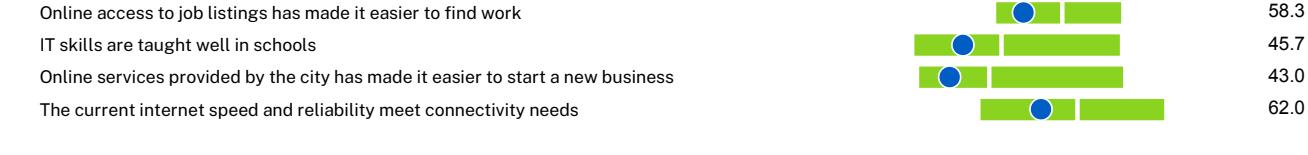
### Mobility



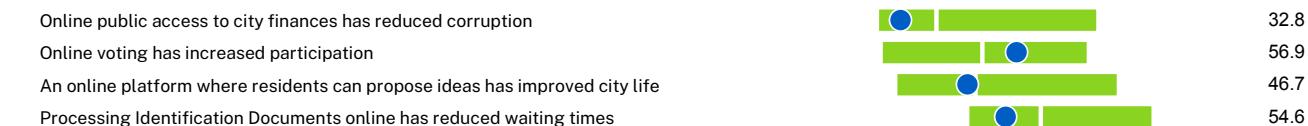
### Activities



### Opportunities (Work & School)



### Governance



# San José

SMART  
CITY  
RANKING  
**126**

Out of 146



125 in 2024  
Out of 142

SMART  
CITY RATING

**CC**

C in 2024

FACTOR  
RATINGS

**C**

STRUCTURES

**C**

TECHNOLOGIES

**3**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 1,480,000  
(UN World Urbanization Prospects)

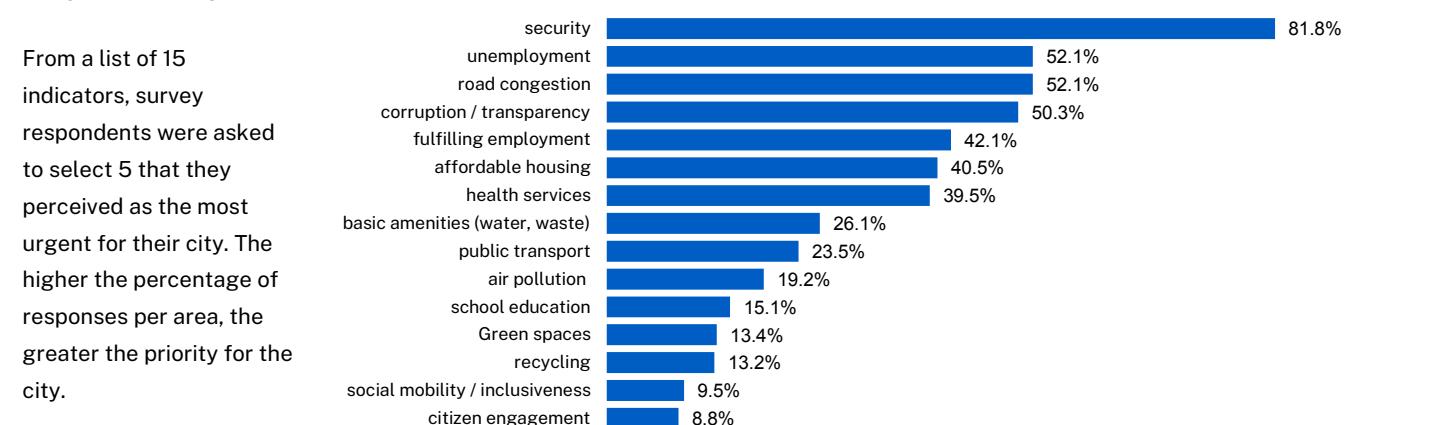
HDI 0.824  
(Global Data Lab)



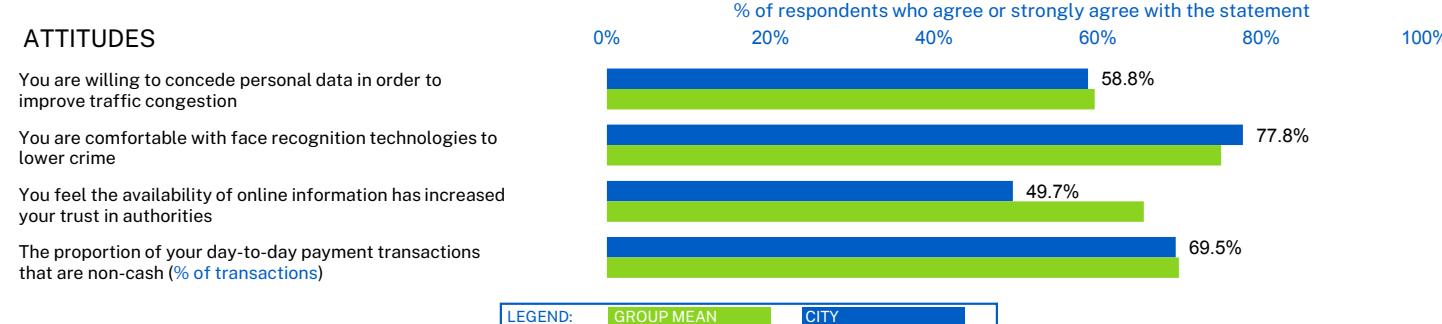
### Country

| Costa Rica                  | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.792  | 0.796  | 0.800  | 0.804  | +0.004      |
| Life expectancy at birth    | 79.4   | 79.3   | 77.0   | 77.3   | +0.3        |
| Expected years of schooling | 15.8   | 16.1   | 16.1   | 16.1   | +0.0        |
| Mean years of schooling     | 8.8    | 8.8    | 8.8    | 8.8    | +0.0        |
| GNI per capita (PPP \$)     | 19,585 | 18,632 | 19,913 | 20,248 | +335        |

## PRIORITY AREAS



## ATTITUDES

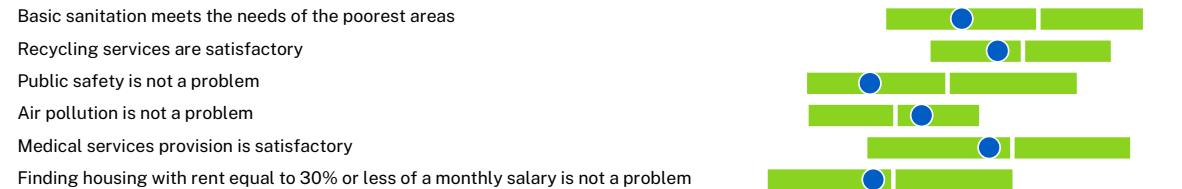


LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

### Health & Safety



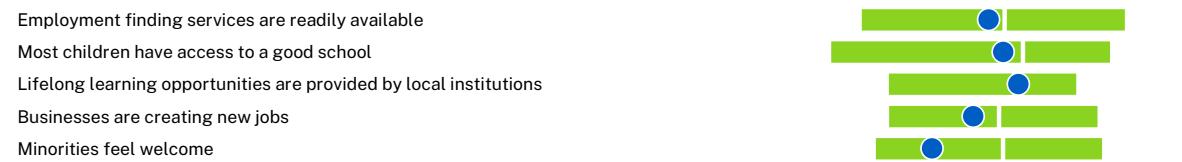
### Mobility



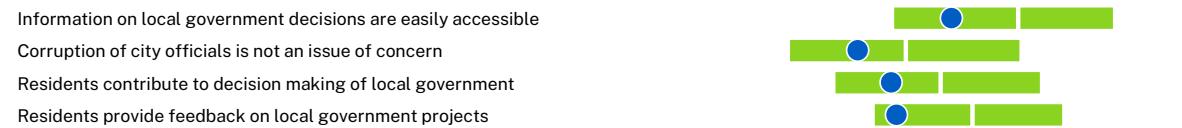
### Activities



### Opportunities (Work & School)

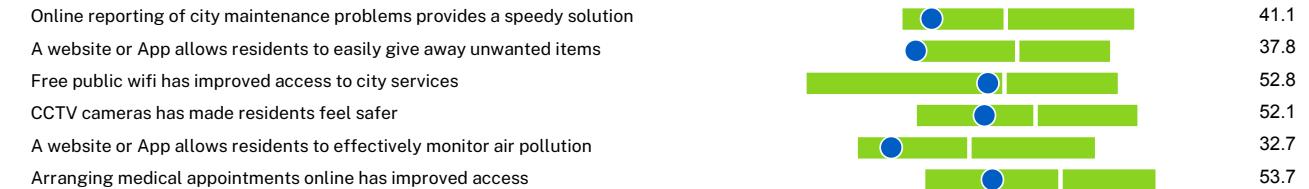


### Governance

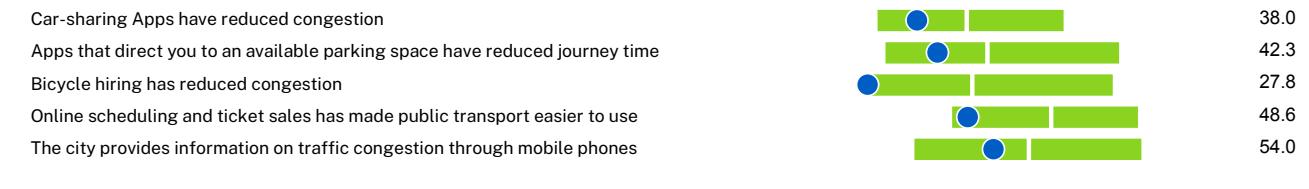


## TECHNOLOGIES

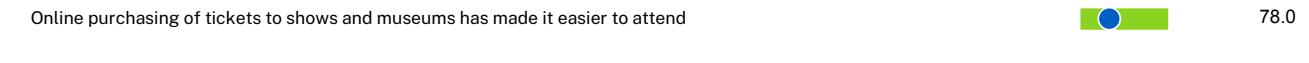
### Health & Safety



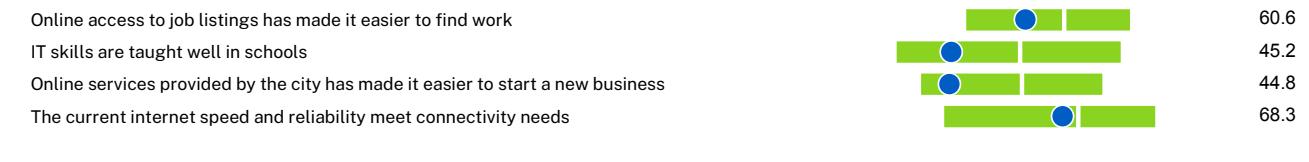
### Mobility



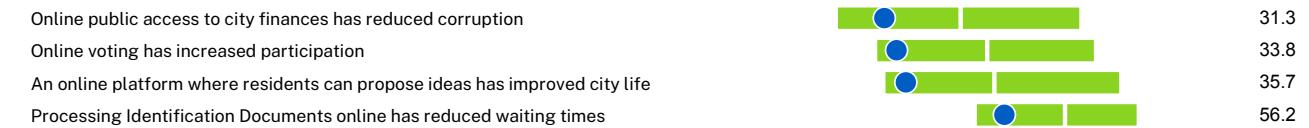
### Activities



### Opportunities (Work & School)



### Governance



# San Juan

SMART  
CITY  
RANKING  
**132**  
Out of 146

not in 2024

SMART  
CITY RATING

**C**

not in 2024

FACTOR  
RATINGS

**C**

STRUCTURES

**C**

TECHNOLOGIES

GROUP  
**3**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 2,440,000  
(UN World Urbanization Prospects)

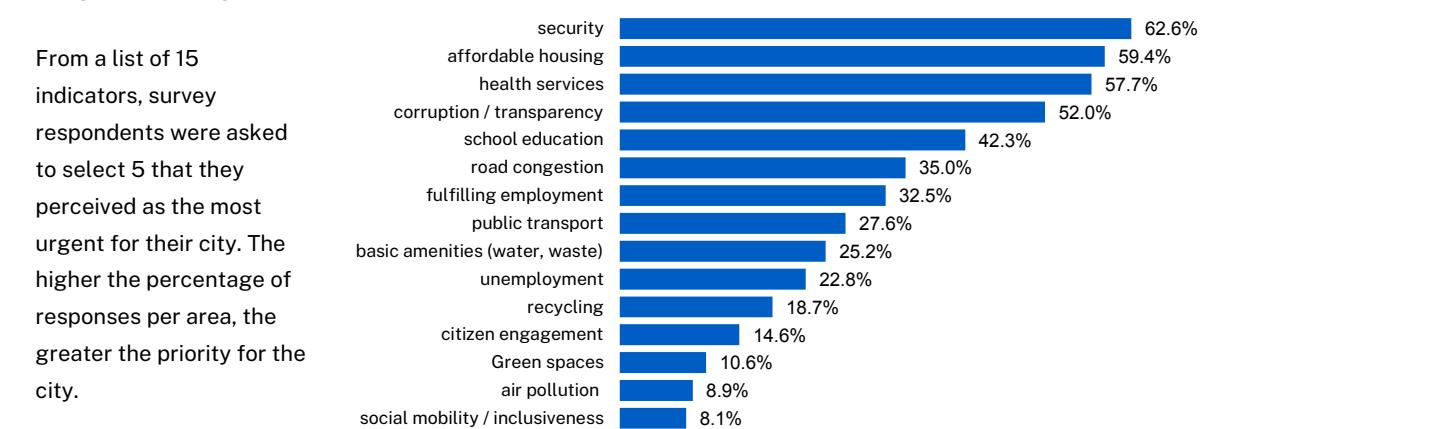
HDI 0.880  
(Global Data Lab)



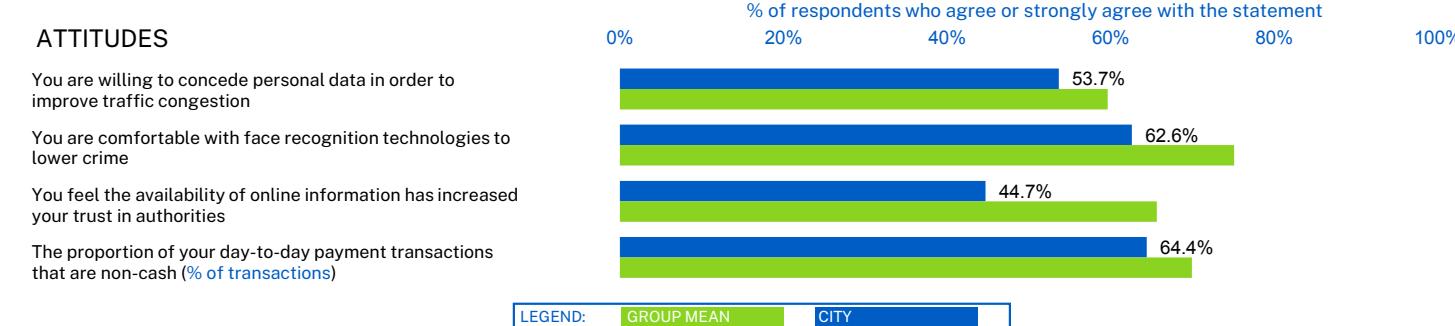
### Country

| Puerto Rico                 | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | NA     | NA     | 0.880  | 0.880  | +0.000      |
| Life expectancy at birth    | 79.1   | 78.0   | 80.2   | 79.7   | -0.5        |
| Expected years of schooling | 17.6   | -      | -      | 16.6   | -           |
| Mean years of schooling     | 12.9   | -      | -      | -      | -           |
| GNI per capita (PPP \$)     | 25,210 | 25,140 | 22,590 | 24,780 | +2,190      |

## PRIORITY AREAS



## ATTITUDES

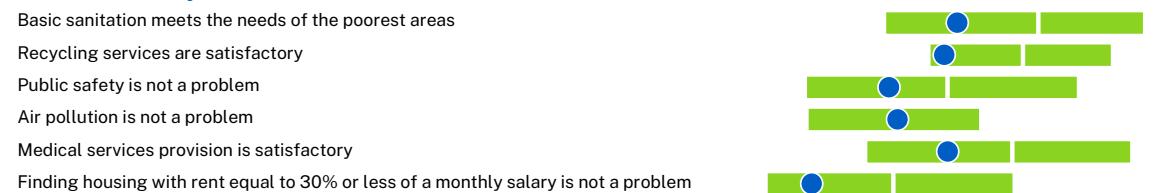


LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

### Health & Safety



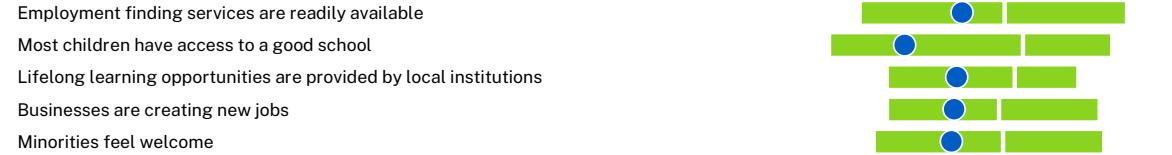
### Mobility



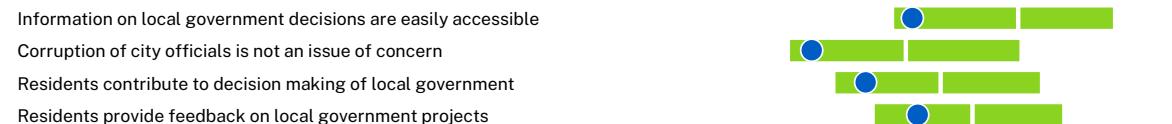
### Activities



### Opportunities (Work & School)

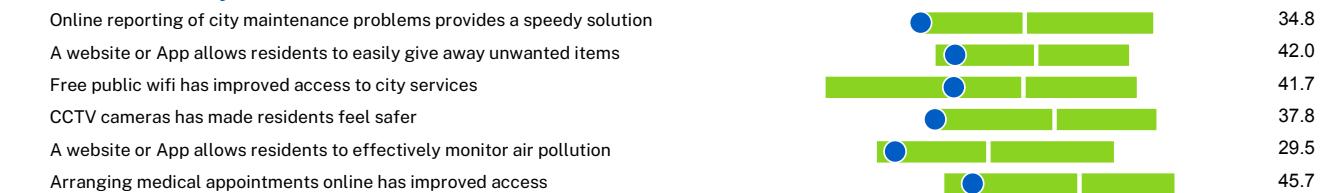


### Governance

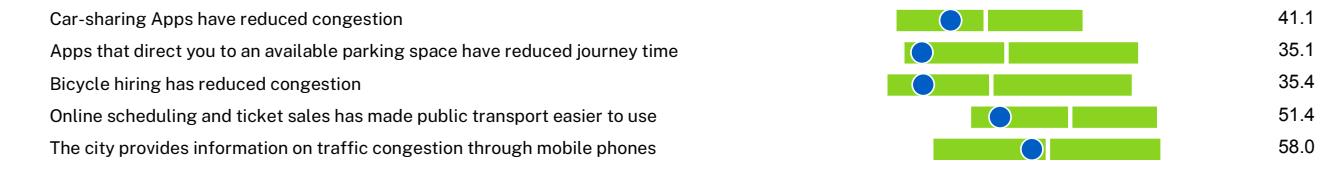


## TECHNOLOGIES

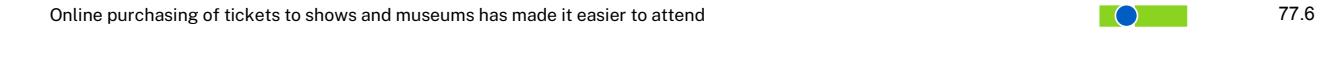
### Health & Safety



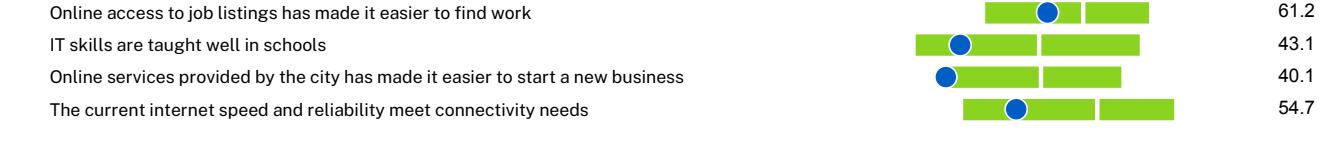
### Mobility



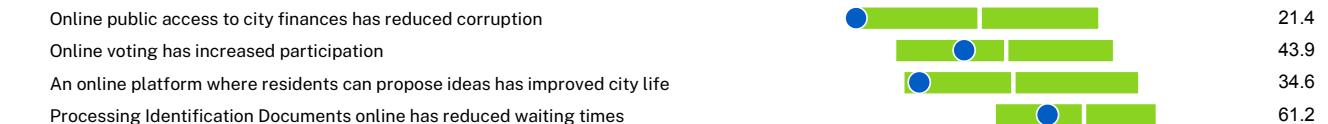
### Activities



### Opportunities (Work & School)



### Governance



SMART  
CITY  
RANKING  
**145**

Out of 146

141 in 2024  
Out of 142

SMART  
CITY RATING

**D**

D in 2024

FACTOR  
RATINGS

**D**

STRUCTURES

**D**

TECHNOLOGIES

**4**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 3,410,000  
(UN World Urbanization Prospects)

HDI 0.466  
(Global Data Lab)

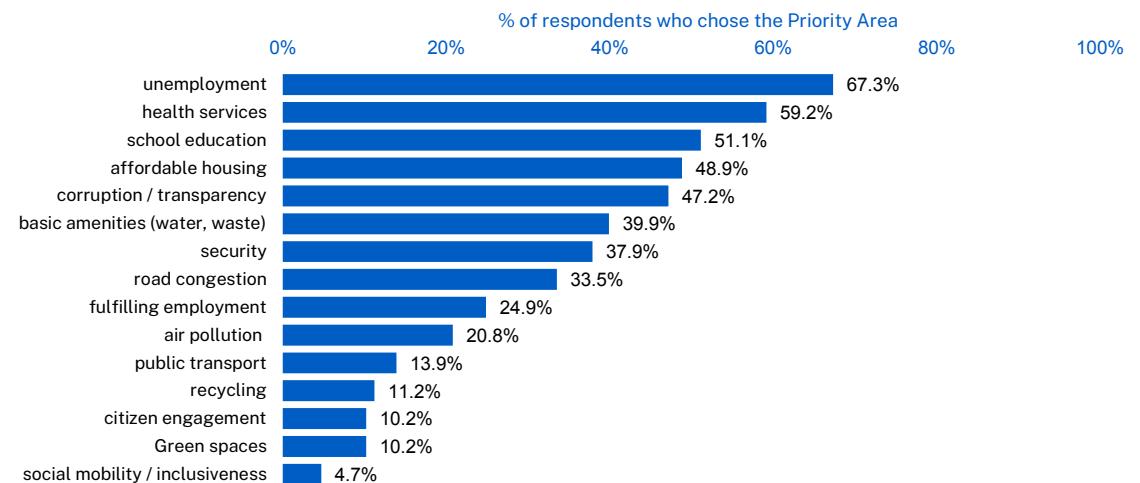


### Country

| Yemen                       | 2019  | 2020  | 2021  | 2022  | 1 yr change |
|-----------------------------|-------|-------|-------|-------|-------------|
| HDI                         | 0.455 | 0.443 | 0.432 | 0.427 | -0.005      |
| Life expectancy at birth    | 65.1  | 64.7  | 63.8  | 63.7  | -0.0        |
| Expected years of schooling | 7.9   | 7.9   | 7.9   | 7.9   | +0.0        |
| Mean years of schooling     | 2.7   | 2.8   | 2.8   | 2.8   | +0.0        |
| GNI per capita (PPP \$)     | 1,165 | 1,152 | 1,112 | 1,106 | -6          |

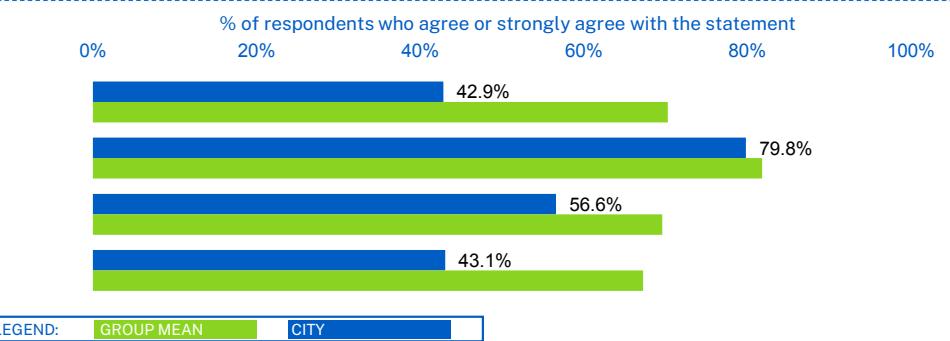
## PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. The higher the percentage of responses per area, the greater the priority for the city.



## ATTITUDES

- You are willing to concede personal data in order to improve traffic congestion
- You are comfortable with face recognition technologies to lower crime
- You feel the availability of online information has increased your trust in authorities
- The proportion of your day-to-day payment transactions that are non-cash (% of transactions)



LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem



### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory



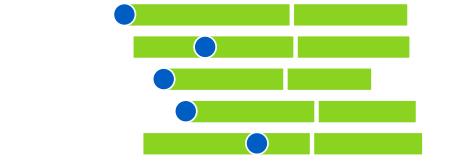
### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory



### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome



### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects



## TECHNOLOGIES



### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones



### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend



### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs



### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times



# Santiago

SMART  
CITY  
RANKING  
**120**  
Out of 146

117 in 2024  
Out of 142

SMART  
CITY RATING

**C**

C in 2024

FACTOR  
RATINGS

**CC**

STRUCTURES

**CC**

TECHNOLOGIES

**GROUP**

**3**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

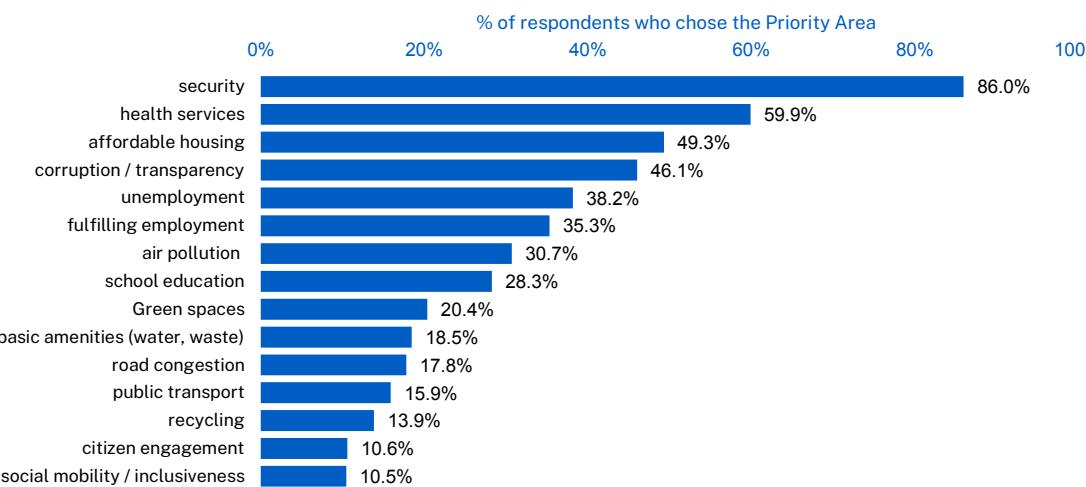
### City

Population 6,950,000  
(UN World Urbanization Prospects)

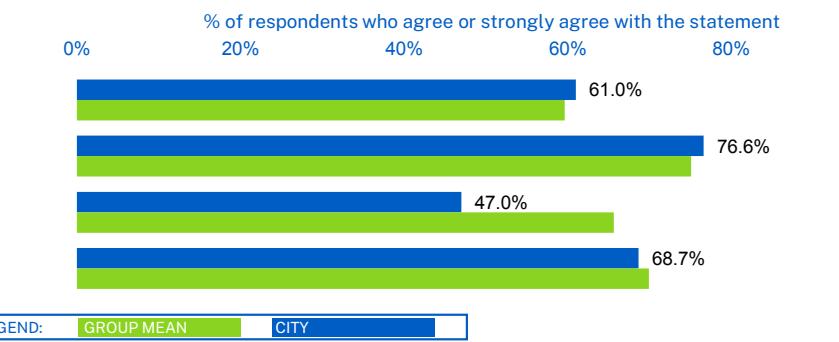
HDI 0.890  
(Global Data Lab)



## PRIORITY AREAS



## ATTITUDES



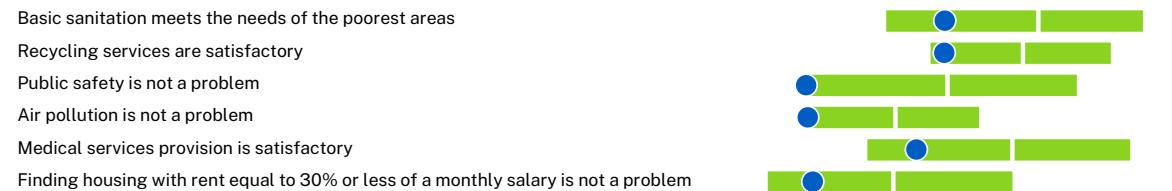
LEGEND: GROUP MEAN CITY

**STRUCTURES**

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



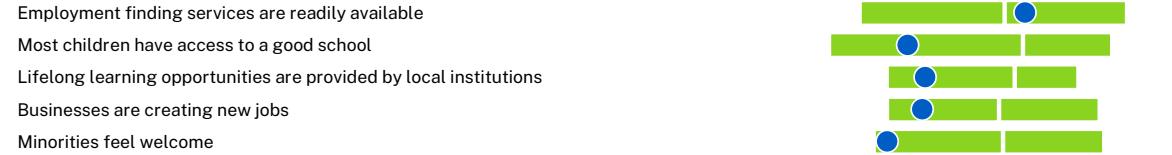
### Mobility



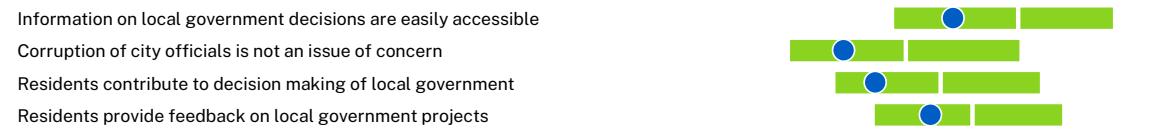
### Activities



### Opportunities (Work & School)



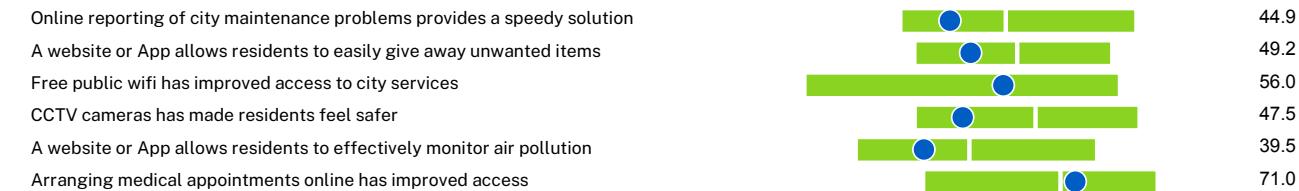
### Governance



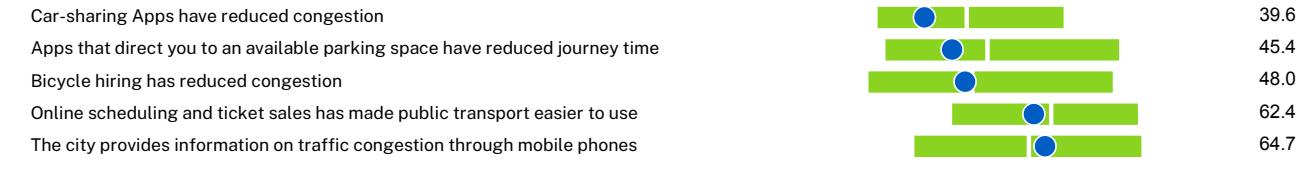
## TECHNOLOGIES

Score

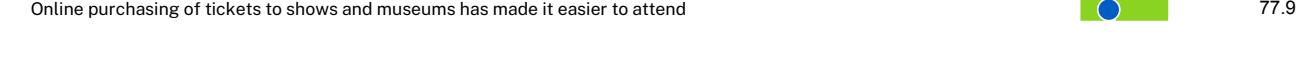
### Health & Safety



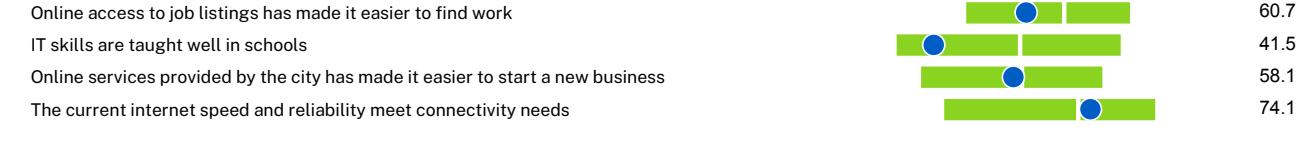
### Mobility



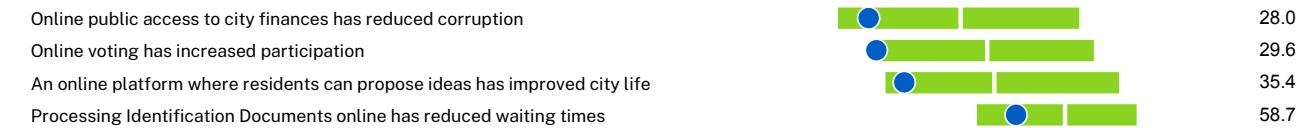
### Activities



### Opportunities (Work & School)



### Governance



# Sao Paulo

SMART  
CITY  
RANKING  
**137**

Out of 146



132 in 2024  
Out of 142

SMART  
CITY RATING



D in 2024

FACTOR  
RATINGS



STRUCTURES



TECHNOLOGIES



All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

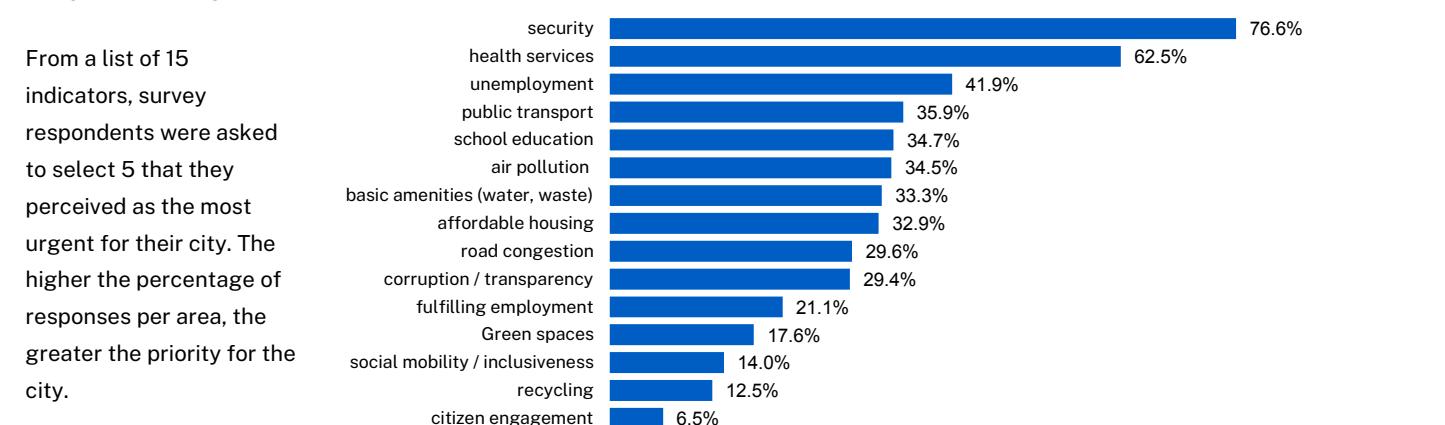
Population 22,810,000  
(UN World Urbanization Prospects)



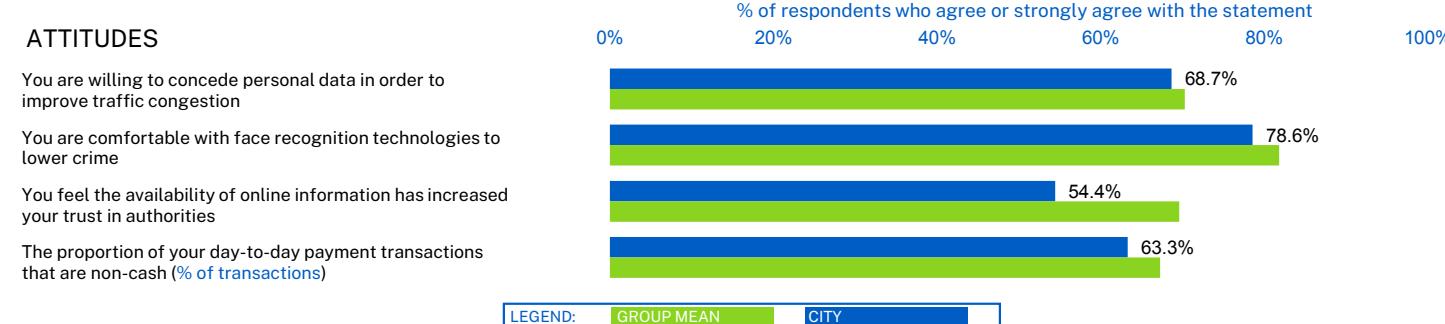
### Country

| Brazil                      | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.752  | 0.753  | 0.758  | 0.762  | +0.004      |
| Life expectancy at birth    | 75.3   | 74.0   | 72.8   | 73.4   | +0.7        |
| Expected years of schooling | 15.4   | 15.4   | 15.6   | 15.6   | +0.0        |
| Mean years of schooling     | 8.1    | 8.3    | 8.3    | 8.3    | +0.0        |
| GNI per capita (PPP \$)     | 14,291 | 13,815 | 14,342 | 14,616 | +274        |

## PRIORITY AREAS



## ATTITUDES

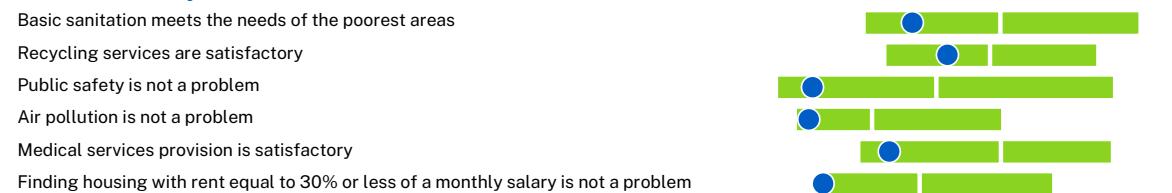


LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

### Health & Safety



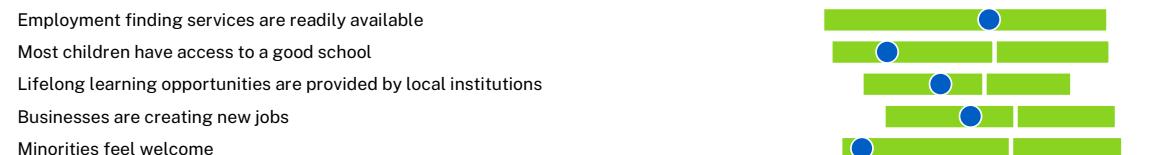
### Mobility



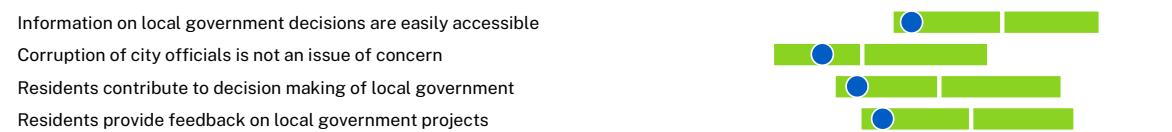
### Activities



### Opportunities (Work & School)

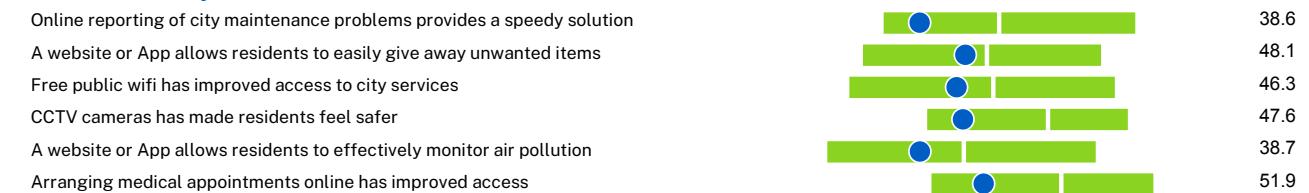


### Governance

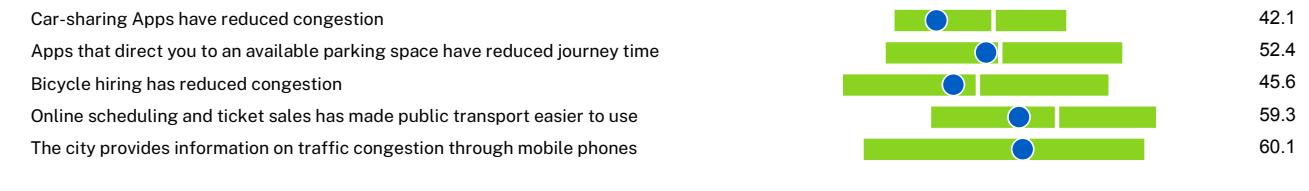


## TECHNOLOGIES

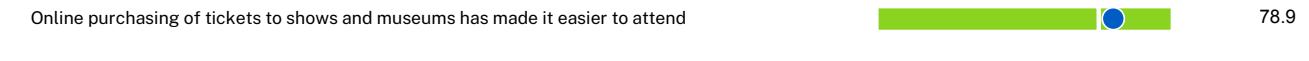
### Health & Safety



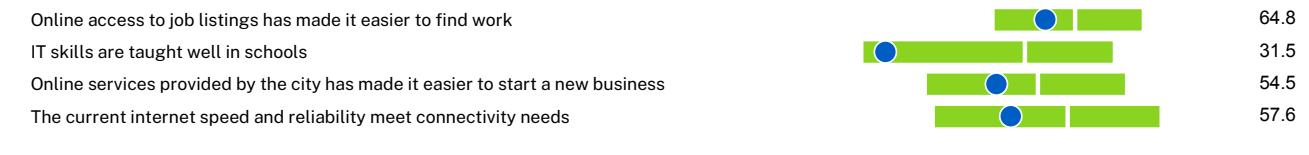
### Mobility



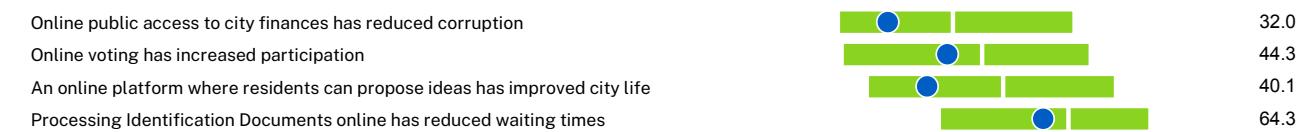
### Activities



### Opportunities (Work & School)



### Governance



# Seattle

SMART  
CITY  
RANKING  
**56**

Out of 146



63 in 2024  
Out of 142

SMART  
CITY RATING

**BBB**

BB in 2024

FACTOR  
RATINGS

**BB**

STRUCTURES

**BB**

TECHNOLOGIES

GROUP  
**1**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 760,000  
(UN World Urbanization Prospects)

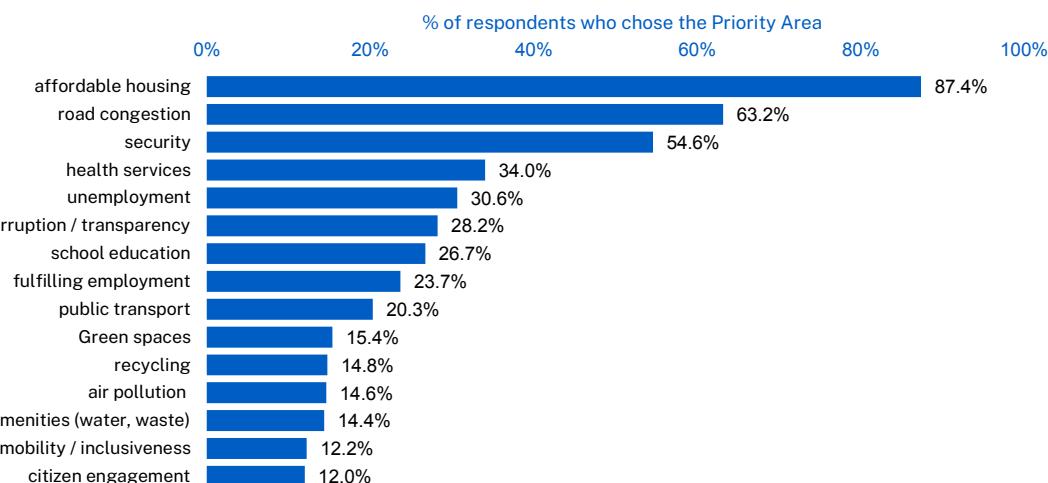
HDI 0.952  
(Global Data Lab)



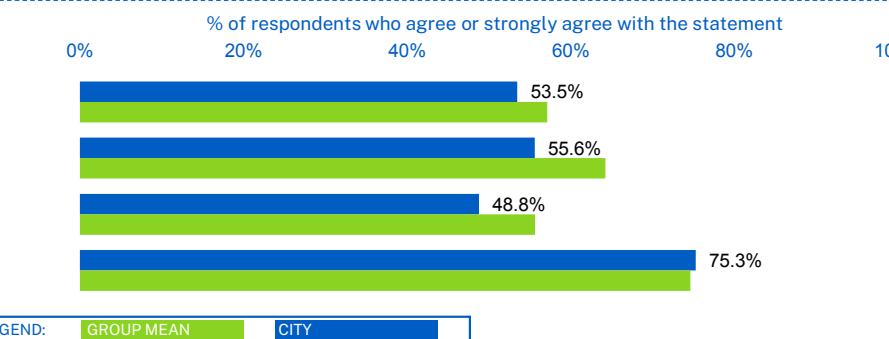
### Country

| United States               | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.924  | 0.926  | 0.928  | 0.930  | +0.002      |
| Life expectancy at birth    | 79.1   | 77.4   | 77.2   | 78.2   | +1.0        |
| Expected years of schooling | 16.6   | 16.6   | 16.4   | 16.4   | +0.0        |
| Mean years of schooling     | 13.6   | 13.7   | 13.6   | 13.6   | +0.0        |
| GNI per capita (PPP \$)     | 63,654 | 61,077 | 64,484 | 65,565 | +1,081      |

## PRIORITY AREAS



## ATTITUDES

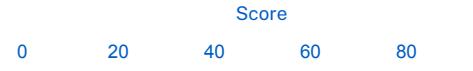


## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem



### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access

## TECHNOLOGIES



### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory



### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones

### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory



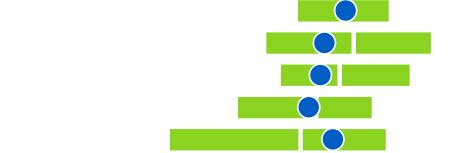
### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend



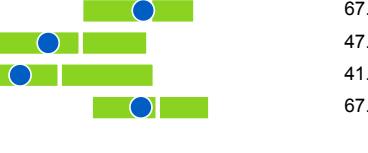
### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome



### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs



### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects



### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times



# Seoul

SMART  
CITY  
RANKING  
**13**

Out of 146



17 in 2024  
Out of 142

SMART  
CITY RATING

**BBB**

AA in 2024

FACTOR  
RATINGS

**AA**

STRUCTURES

**AAA**

TECHNOLOGIES

GROUP

**1**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 10,000,000  
(UN World Urbanization Prospects)

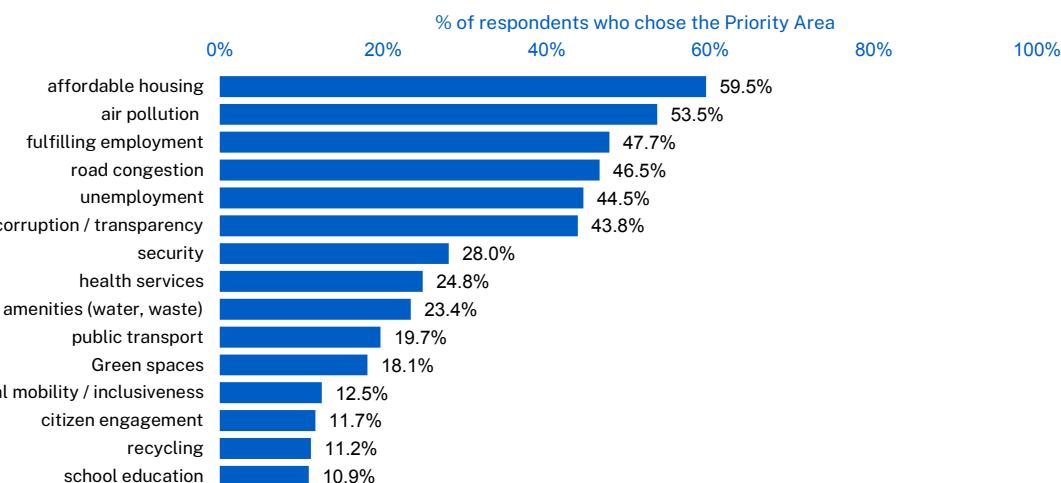
HDI 0.961  
(Global Data Lab)



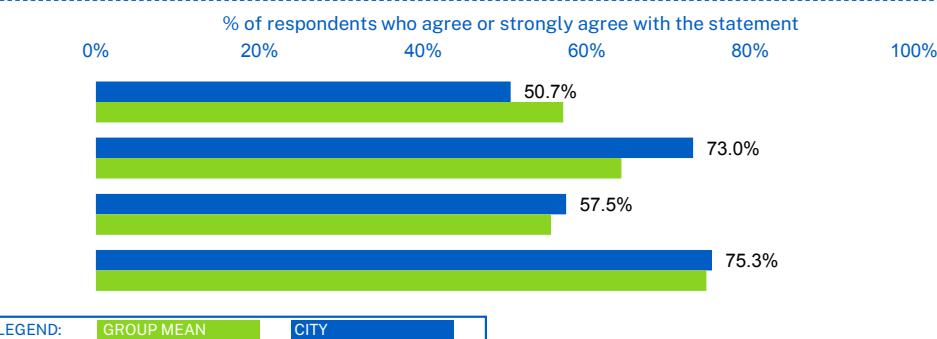
### Country

| Korea (Republic of)         | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.908  | 0.912  | 0.915  | 0.918  | +0.003      |
| Life expectancy at birth    | 83.7   | 83.6   | 83.7   | 84.0   | +0.3        |
| Expected years of schooling | 16.4   | 16.4   | 16.5   | 16.5   | +0.0        |
| Mean years of schooling     | 12.5   | 12.6   | 12.6   | 12.6   | +0.0        |
| GNI per capita (PPP \$)     | 43,117 | 42,757 | 44,710 | 46,026 | +1,317      |

## PRIORITY AREAS



## ATTITUDES



LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

### Health & Safety

|   | Score |  |
|---|-------|--|
| Basic sanitation meets the needs of the poorest areas                               | 76.6  |  |
| Recycling services are satisfactory   | 72.7  |  |
| Public safety is not a problem  | 71.4  |  |
| Air pollution is not a problem  | 20.0  |  |
| Medical services provision is satisfactory  | 72.5  |  |
| Finding housing with rent equal to 30% or less of a monthly salary is not a problem | 28.8  |  |

### Mobility

|                                     | Score |  |
|-------------------------------------|-------|--|
| Traffic congestion is not a problem | 22.7  |  |
| Public transport is satisfactory    | 74.8  |  |

### Activities

|   | Score |  |
|---|-------|--|
| Green spaces are satisfactory                                   | 54.8  |  |
| Cultural activities (shows, bars, and museums) are satisfactory | 69.5  |  |

### Opportunities (Work & School)

|  | Score |  |
|--|-------|--|
| Employment finding services are readily available                  | 63.3  |  |
| Most children have access to a good school                         | 58.7  |  |
| Lifelong learning opportunities are provided by local institutions | 64.6  |  |
| Businesses are creating new jobs                                   | 46.8  |  |
| Minorities feel welcome  | 30.6  |  |

### Governance

|   | Score |  |
|---|-------|--|
| Information on local government decisions are easily accessible | 66.3  |  |
| Corruption of city officials is not an issue of concern         | 30.5  |  |
| Residents contribute to decision making of local government     | 51.3  |  |
| Residents provide feedback on local government projects         | 51.8  |  |

## TECHNOLOGIES

### Health & Safety

|  | Score |  |
|--|-------|--|
| Online reporting of city maintenance problems provides a speedy solution | 60.8  |  |
| A website or App allows residents to easily give away unwanted items     | 66.9  |  |
| Free public wifi has improved access to city services                    | 73.1  |  |
| CCTV cameras has made residents feel safer                               | 82.1  |  |
| A website or App allows residents to effectively monitor air pollution   | 67.6  |  |
| Arranging medical appointments online has improved access                | 72.2  |  |

### Mobility

|  | Score |  |
|--|-------|--|
| Car-sharing Apps have reduced congestion                                     | 41.5  |  |
| Apps that direct you to an available parking space have reduced journey time | 53.3  |  |
| Bicycle hiring has reduced congestion  | 48.1  |  |
| Online scheduling and ticket sales has made public transport easier to use   | 74.7  |  |
| The city provides information on traffic congestion through mobile phones    | 80.5  |  |

### Activities

|  | Score |  |
|--|-------|--|
| Online purchasing of tickets to shows and museums has made it easier to attend | 80.4  |  |

### Opportunities (Work & School)

|   | Score |  |
|---|-------|--|
| Online access to job listings has made it easier to find work                   | 67.8  |  |
| IT skills are taught well in schools  | 65.1  |  |
| Online services provided by the city has made it easier to start a new business | 55.9  |  |
| The current internet speed and reliability meet connectivity needs              | 81.3  |  |

### Governance

|   | Score |  |
|---|-------|--|
| Online public access to city finances has reduced corruption                | 47.2  |  |
| Online voting has increased participation                                   | 58.3  |  |
| An online platform where residents can propose ideas has improved city life | 58.9  |  |
| Processing Identification Documents online has reduced waiting times        | 78.5  |  |

# Shanghai

SMART  
CITY  
RANKING  
**15**

Out of 146



19 in 2024  
Out of 142

SMART  
CITY RATING

**BB**

BB in 2024

FACTOR  
RATINGS

**BB**

STRUCTURES

**BB**

TECHNOLOGIES

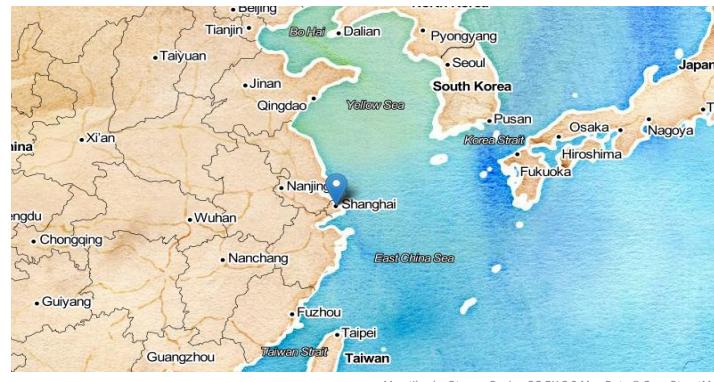
**3**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

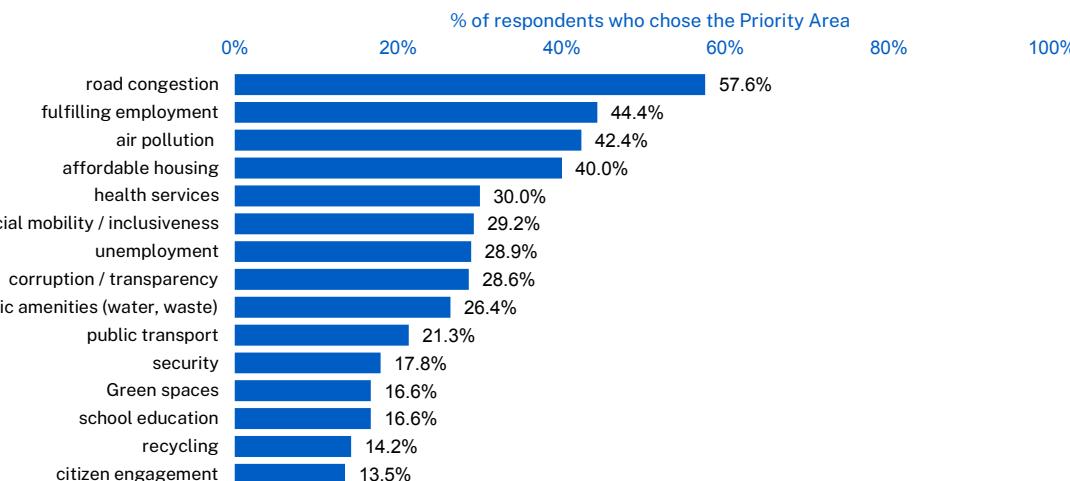
Population 29,870,000  
(UN World Urbanization Prospects)



### Country

| China                       | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.741  | 0.749  | 0.757  | 0.766  | +0.009      |
| Life expectancy at birth    | 78.0   | 78.1   | 78.2   | 78.6   | +0.4        |
| Expected years of schooling | 15.0   | 15.2   | 15.2   | 15.2   | +0.0        |
| Mean years of schooling     | 8.0    | 8.1    | 8.1    | 8.1    | +0.0        |
| GNI per capita (PPP \$)     | 15,934 | 16,168 | 17,499 | 18,025 | +526        |

## PRIORITY AREAS



## ATTITUDES



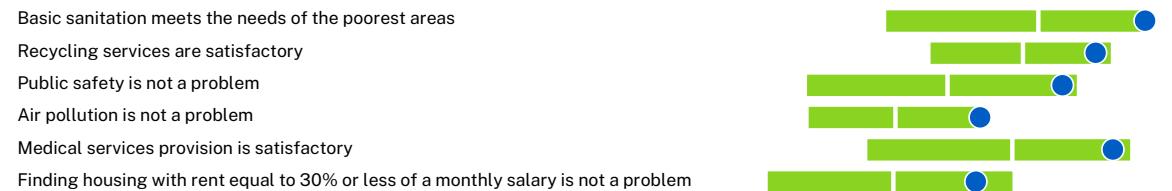
LEGEND: GROUP MEAN CITY

STRUCTURES

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



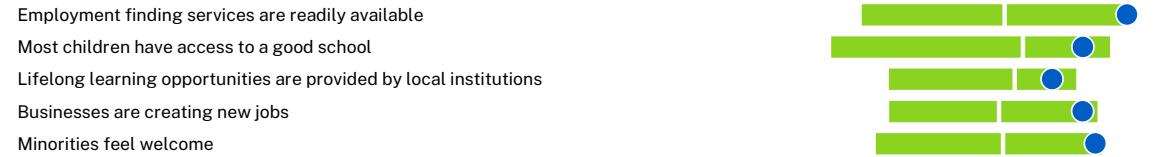
### Mobility



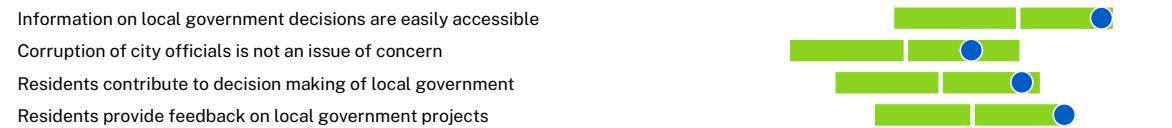
### Activities



### Opportunities (Work & School)



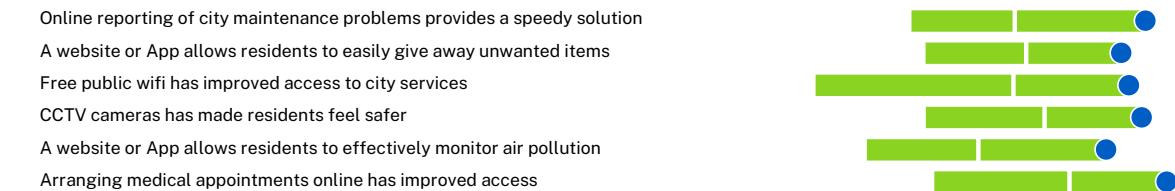
### Governance



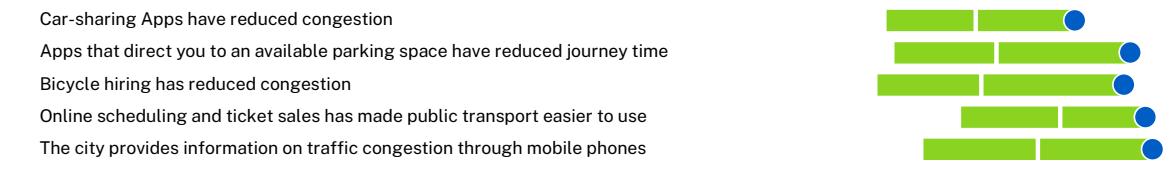
## TECHNOLOGIES

Score

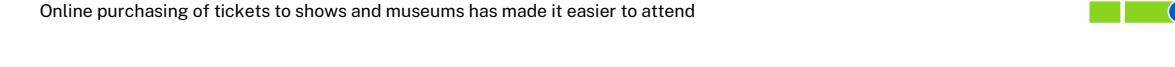
### Health & Safety



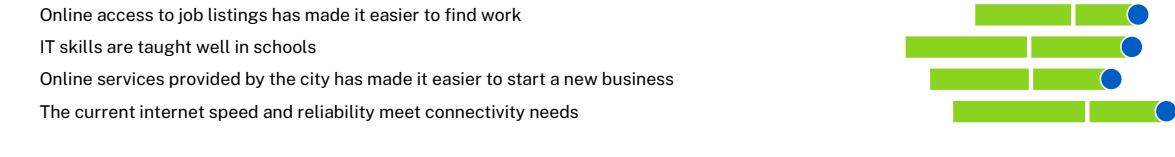
### Mobility



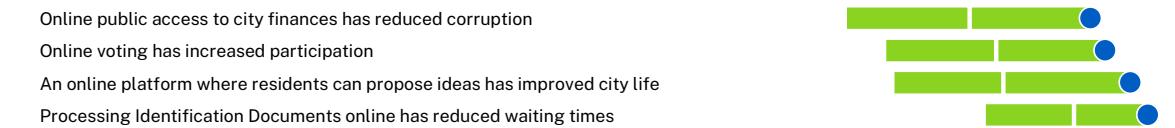
### Activities



### Opportunities (Work & School)



### Governance



# Shenzhen

SMART  
CITY  
RANKING  
**50**

Out of 146



60 in 2024  
Out of 142

SMART  
CITY RATING

**CCC**

CCC in 2024

FACTOR  
RATINGS

**CCC**

STRUCTURES

**CCC**

TECHNOLOGIES

GROUP



All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 13,310,000  
(UN World Urbanization Prospects)

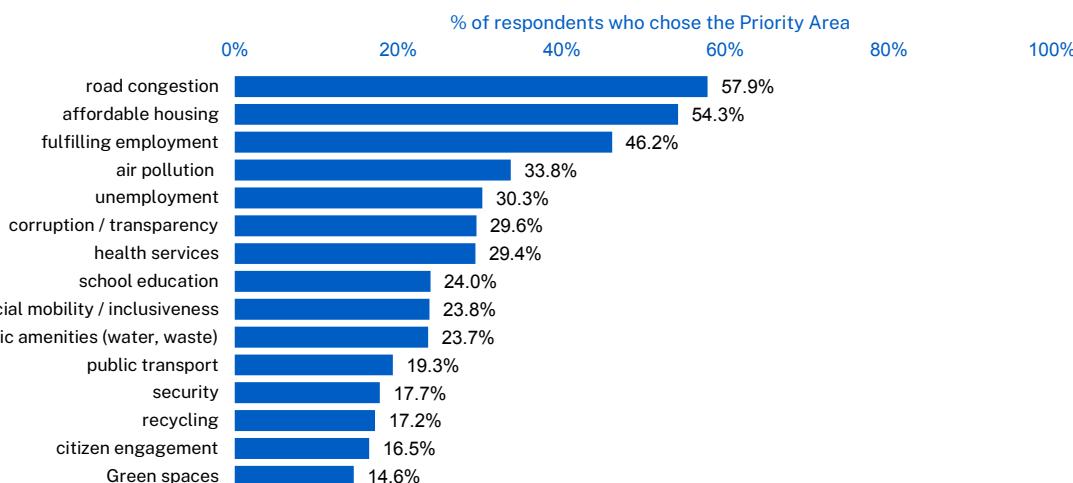
HDI 0.813  
(Global Data Lab)



### Country

| China                       | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.741  | 0.749  | 0.757  | 0.766  | +0.009      |
| Life expectancy at birth    | 78.0   | 78.1   | 78.2   | 78.6   | +0.4        |
| Expected years of schooling | 15.0   | 15.2   | 15.2   | 15.2   | +0.0        |
| Mean years of schooling     | 8.0    | 8.1    | 8.1    | 8.1    | +0.0        |
| GNI per capita (PPP \$)     | 15,934 | 16,168 | 17,499 | 18,025 | +526        |

## PRIORITY AREAS



## ATTITUDES

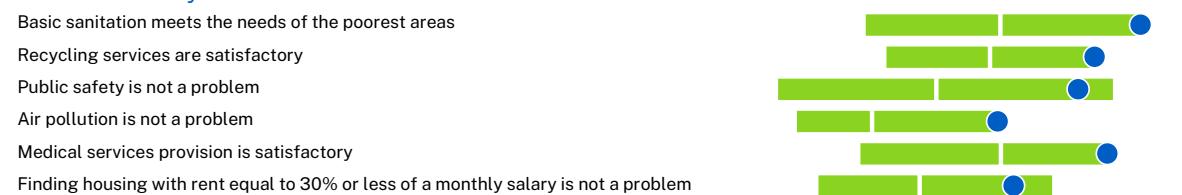


LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



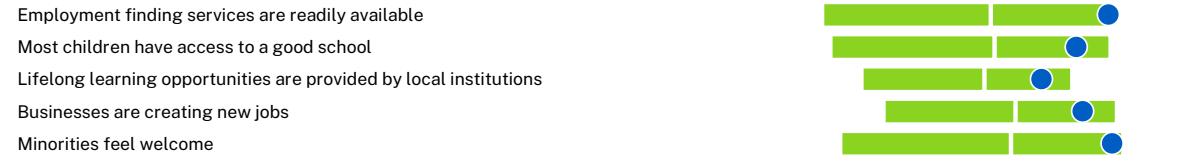
### Mobility



### Activities



### Opportunities (Work & School)



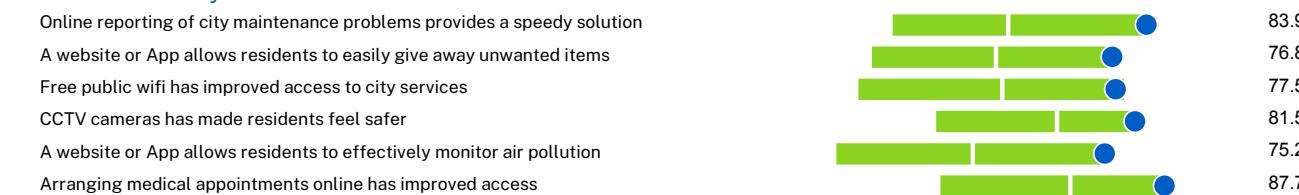
### Governance



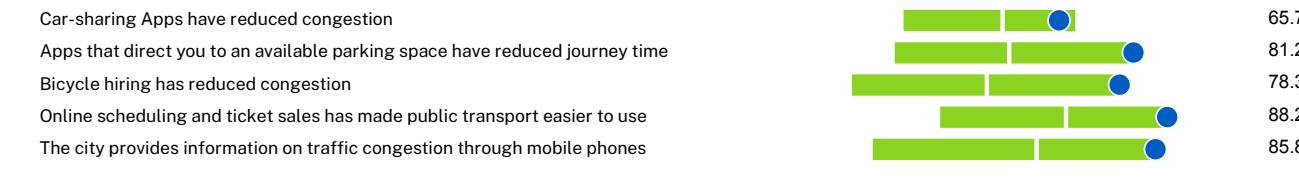
## TECHNOLOGIES

Score

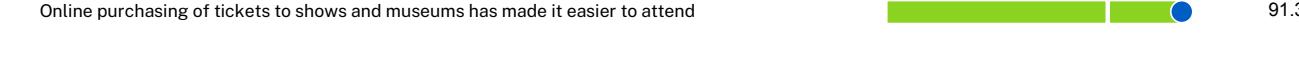
### Health & Safety



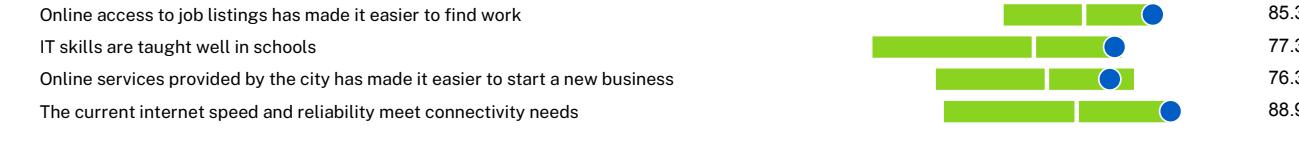
### Mobility



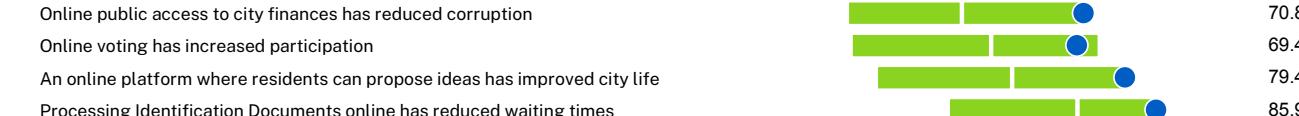
### Activities



### Opportunities (Work & School)



### Governance



# Singapore

SMART  
CITY  
RANKING

**9**

Out of 146



5 in 2024  
Out of 142

SMART  
CITY RATING

**AAA**

A in 2024

FACTOR  
RATINGS

**AAA**

STRUCTURES

**AAA**

TECHNOLOGIES

**GROUP**

**1**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 6,120,000  
(UN World Urbanization Prospects)

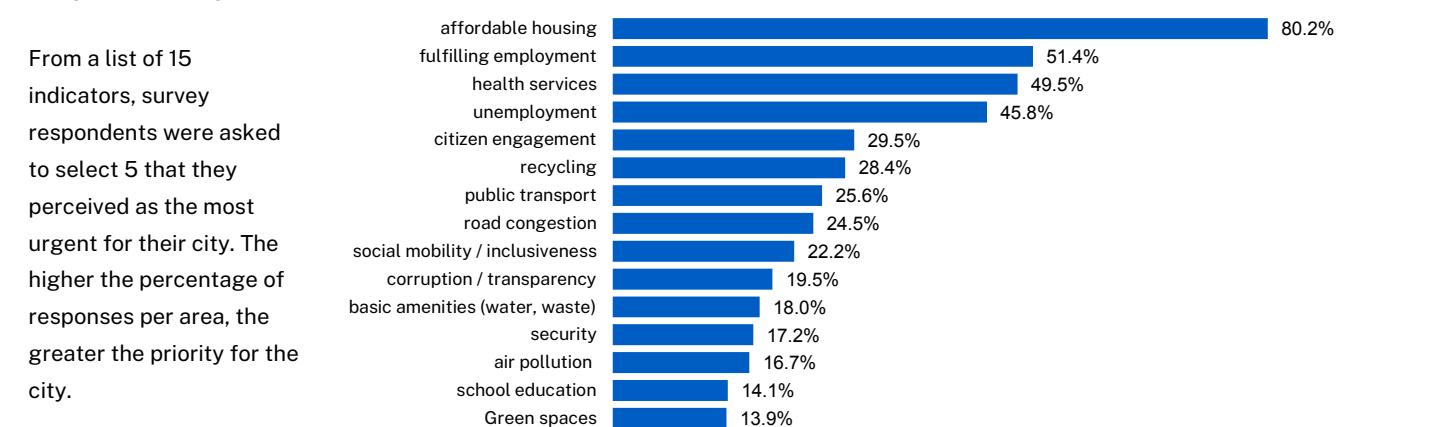
HDI 0.949  
(Global Data Lab)



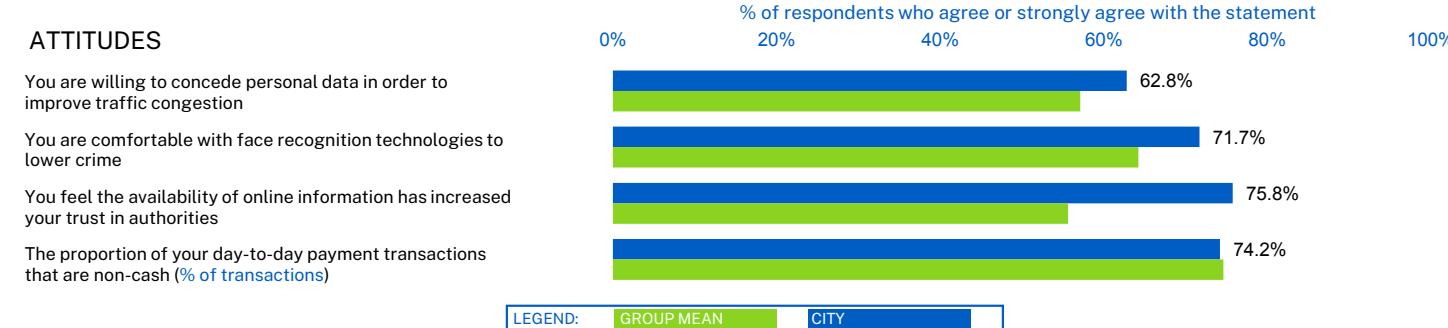
### Country

| Singapore                   | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.935  | 0.937  | 0.938  | 0.942  | +0.004      |
| Life expectancy at birth    | 83.8   | 82.9   | 82.8   | 84.1   | +1.4        |
| Expected years of schooling | 16.7   | 16.8   | 16.9   | 16.9   | +0.0        |
| Mean years of schooling     | 11.9   | 11.9   | 11.9   | 11.9   | +0.0        |
| GNI per capita (PPP \$)     | 86,456 | 81,431 | 88,519 | 88,761 | +242        |

## PRIORITY AREAS



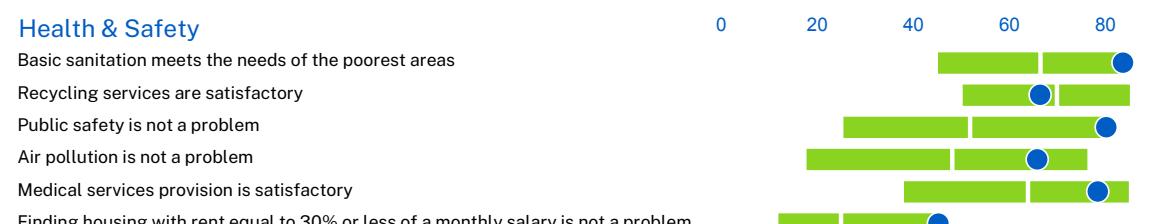
## ATTITUDES



LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

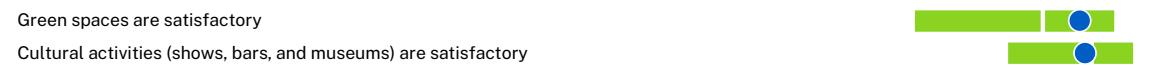
## STRUCTURES



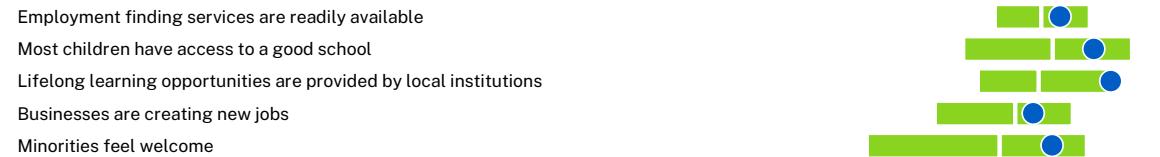
## Mobility



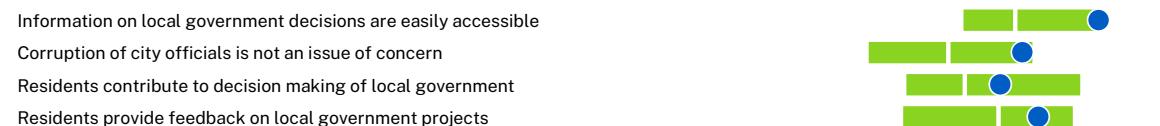
## Activities



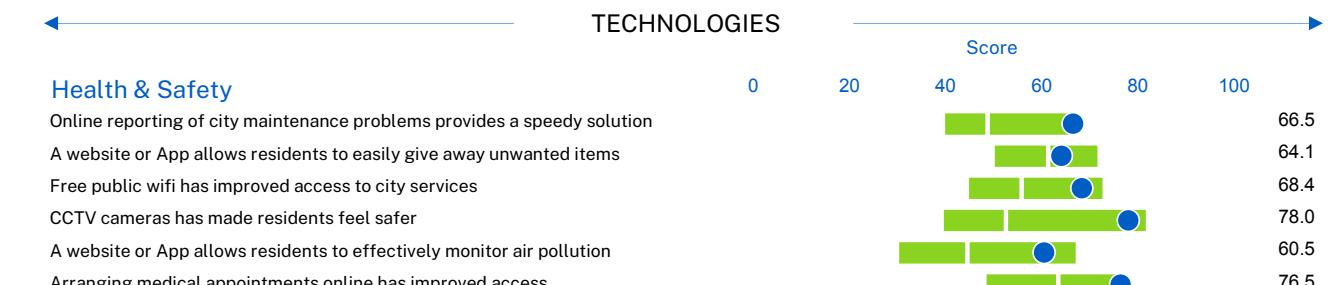
## Opportunities (Work & School)



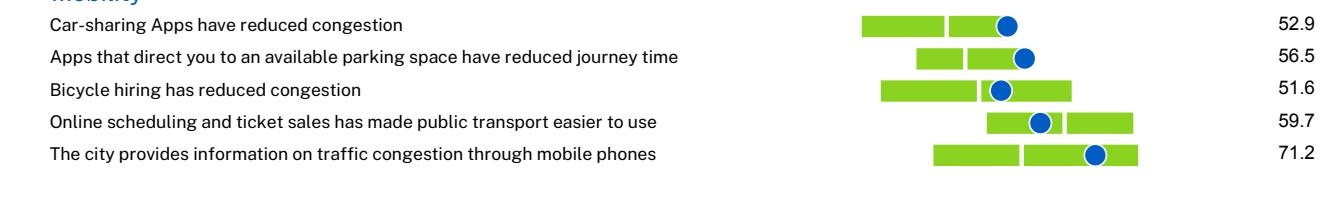
## Governance



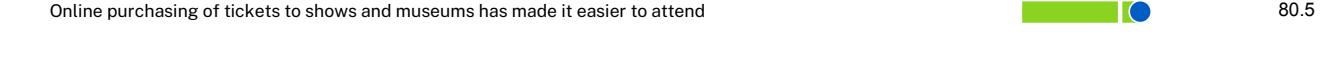
## TECHNOLOGIES



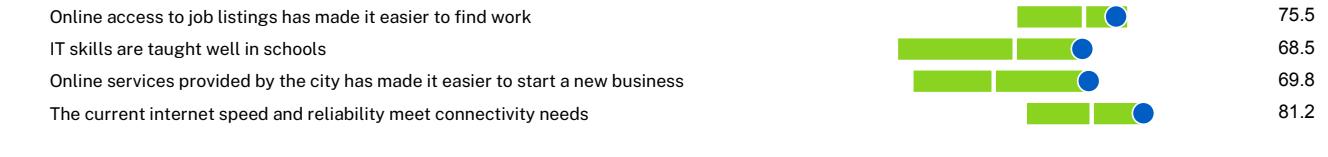
## Mobility



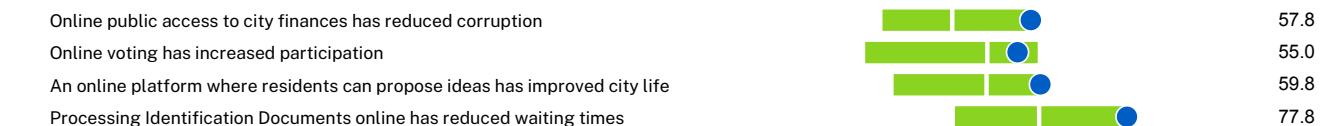
## Activities



## Opportunities (Work & School)



## Governance



# Sofia

SMART  
CITY  
RANKING  
**121**

Out of 146

113 in 2024  
Out of 142

SMART  
CITY RATING

**CC**

C in 2024

FACTOR  
RATINGS

**C**

STRUCTURES

**CC**

TECHNOLOGIES

GROUP  
**3**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 1,290,000  
(UN World Urbanization Prospects)

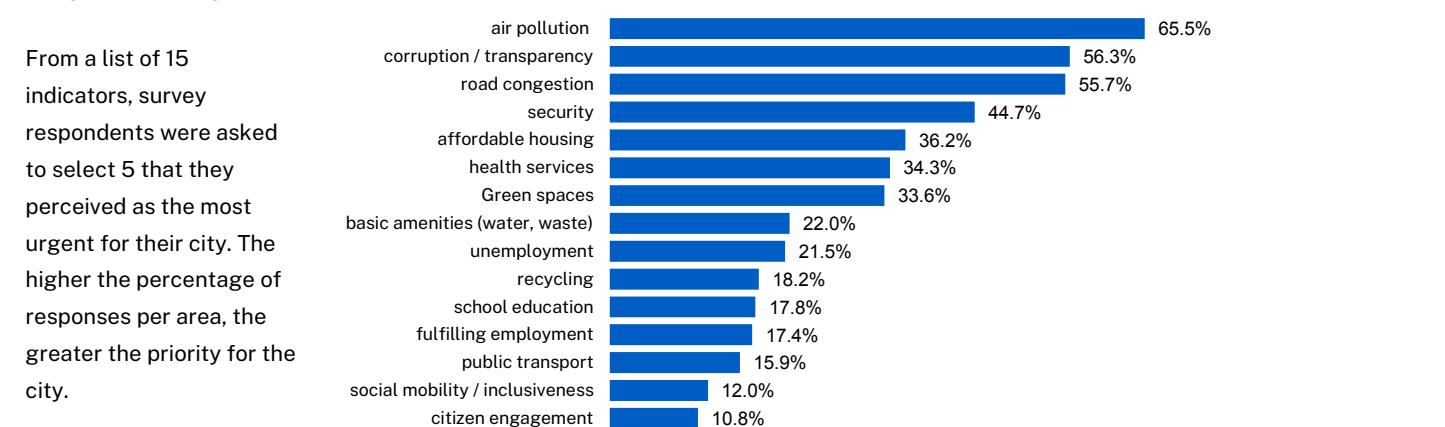
HDI 0.856  
(Global Data Lab)



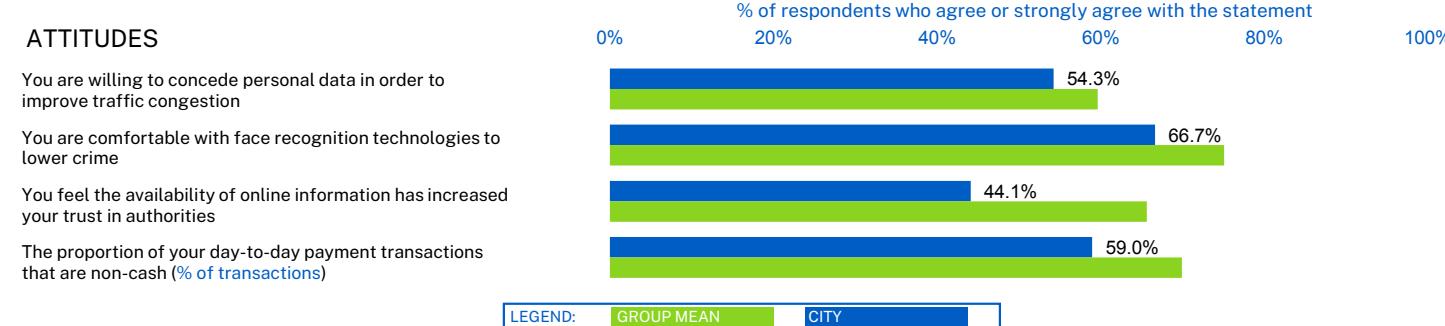
### Country

| Bulgaria                    | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.809  | 0.810  | 0.810  | 0.811  | +0.001      |
| Life expectancy at birth    | 75.1   | 73.6   | 71.8   | 71.5   | -0.3        |
| Expected years of schooling | 14.3   | 14.0   | 13.9   | 13.9   | +0.0        |
| Mean years of schooling     | 11.4   | 11.4   | 11.4   | 11.4   | +0.0        |
| GNI per capita (PPP \$)     | 22,591 | 21,653 | 23,725 | 25,921 | +2,196      |

## PRIORITY AREAS



## ATTITUDES

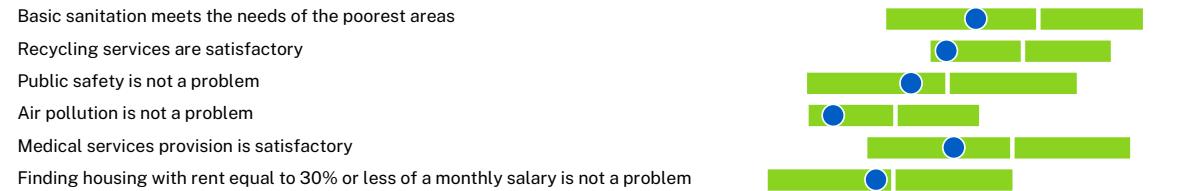


LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

### Health & Safety



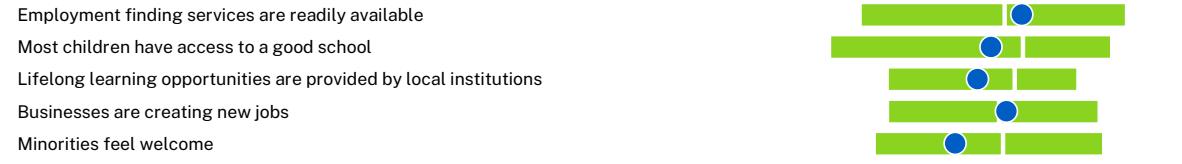
### Mobility



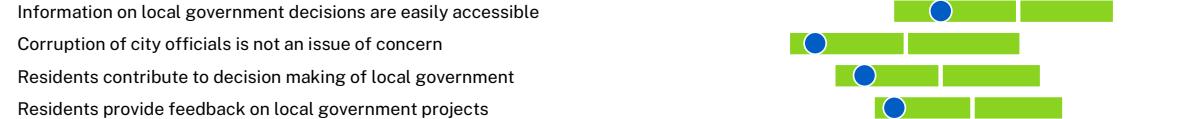
### Activities



### Opportunities (Work & School)

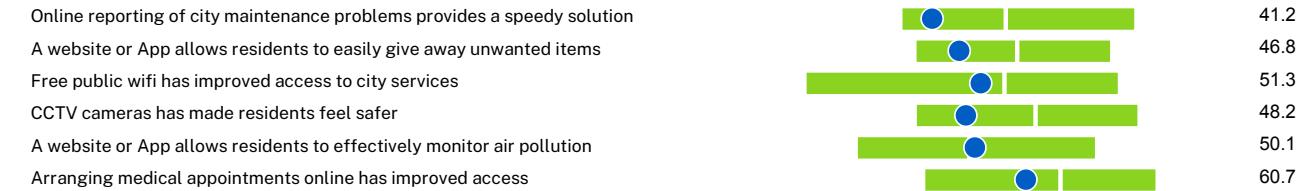


### Governance

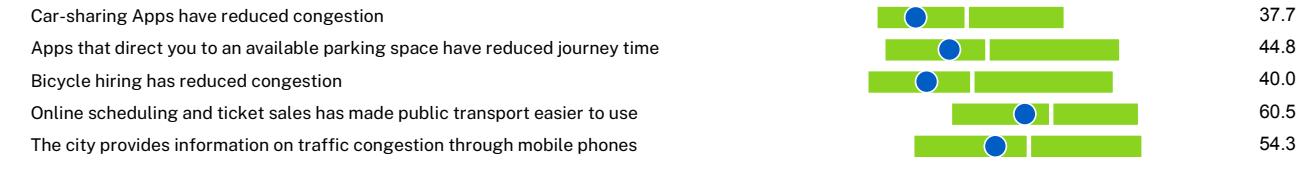


## TECHNOLOGIES

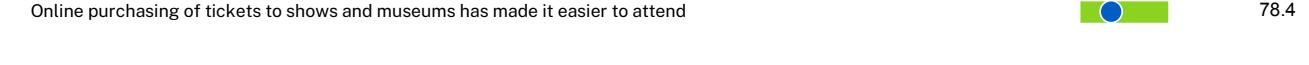
### Health & Safety



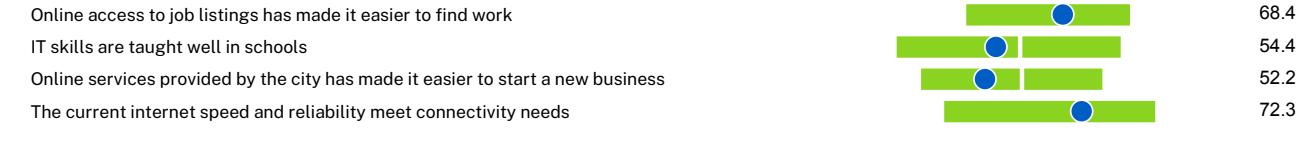
### Mobility



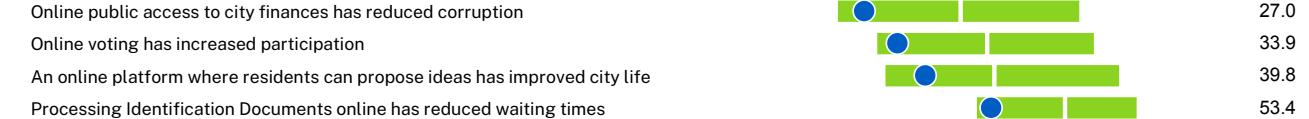
### Activities



### Opportunities (Work & School)



### Governance



# Stockholm

SMART  
CITY  
RANKING  
**18**

Out of 146

11 in 2024  
Out of 142

SMART  
CITY RATING

**AA**  
A in 2024

FACTOR  
RATINGS

**AA**  
STRUCTURES

**A**  
TECHNOLOGIES

**1**  
GROUP

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

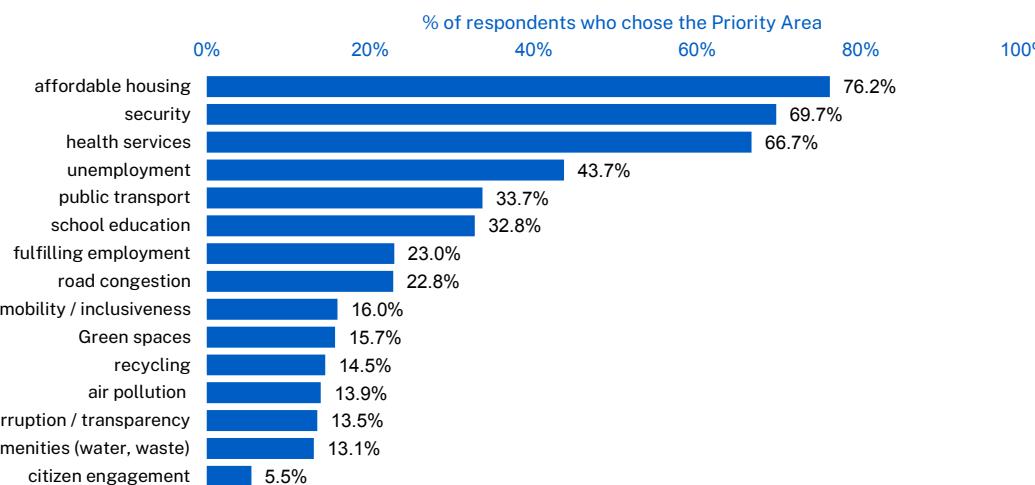
|            |  |
|------------|--|
| Population | 1,720,000<br>(UN World Urbanization Prospects) |
| HDI        | 0.976<br>(Global Data Lab)                     |



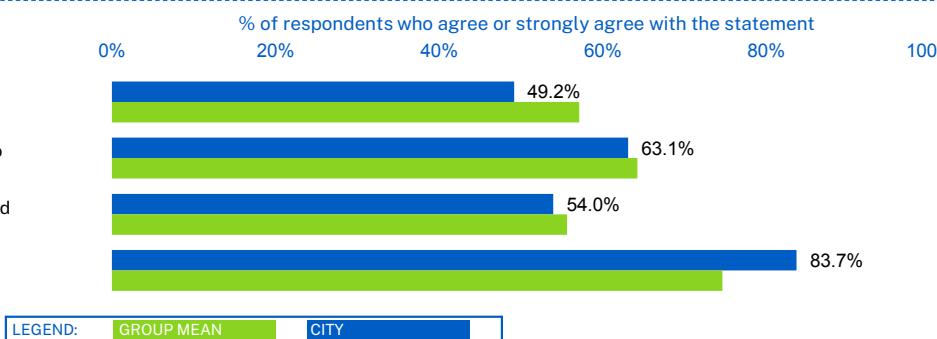
### Country

| Sweden                      | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.937  | 0.939  | 0.941  | 0.943  | +0.002      |
| Life expectancy at birth    | 83.1   | 82.4   | 83.0   | 83.5   | +0.5        |
| Expected years of schooling | 18.5   | 18.7   | 19.0   | 19.0   | +0.0        |
| Mean years of schooling     | 12.6   | 12.7   | 12.7   | 12.7   | +0.0        |
| GNI per capita (PPP \$)     | 54,441 | 53,195 | 55,908 | 56,996 | +1,088      |

## PRIORITY AREAS



## ATTITUDES



LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety

|   | Score |  |
|---|-------|--|
| Basic sanitation meets the needs of the poorest areas                               | 66.5  |  |
| Recycling services are satisfactory   | 69.9  |  |
| Public safety is not a problem  | 41.0  |  |
| Air pollution is not a problem  | 55.4  |  |
| Medical services provision is satisfactory  | 55.7  |  |
| Finding housing with rent equal to 30% or less of a monthly salary is not a problem | 23.8  |  |

### Mobility

|                                     | Score |  |
|-------------------------------------|-------|--|
| Traffic congestion is not a problem | 27.5  |  |
| Public transport is satisfactory    | 53.9  |  |

### Activities

|   | Score |  |
|---|-------|--|
| Green spaces are satisfactory                                   | 76.0  |  |
| Cultural activities (shows, bars, and museums) are satisfactory | 78.8  |  |

### Opportunities (Work & School)

|  | Score |  |
|--|-------|--|
| Employment finding services are readily available                  | 68.6  |  |
| Most children have access to a good school                         | 70.8  |  |
| Lifelong learning opportunities are provided by local institutions | 66.3  |  |
| Businesses are creating new jobs                                   | 63.5  |  |
| Minorities feel welcome  | 49.4  |  |

### Governance

|   | Score |  |
|---|-------|--|
| Information on local government decisions are easily accessible | 65.8  |  |
| Corruption of city officials is not an issue of concern         | 49.0  |  |
| Residents contribute to decision making of local government     | 46.5  |  |
| Residents provide feedback on local government projects         | 51.4  |  |

## TECHNOLOGIES

Score

### Health & Safety

|  | Score |  |
|--|-------|--|
| Online reporting of city maintenance problems provides a speedy solution | 45.2  |  |
| A website or App allows residents to easily give away unwanted items     | 62.1  |  |
| Free public wifi has improved access to city services                    | 56.6  |  |
| CCTV cameras has made residents feel safer                               | 49.5  |  |
| A website or App allows residents to effectively monitor air pollution   | 35.5  |  |
| Arranging medical appointments online has improved access                | 54.0  |  |

### Mobility

|  | Score |  |
|--|-------|--|
| Car-sharing Apps have reduced congestion                                     | 31.4  |  |
| Apps that direct you to an available parking space have reduced journey time | 40.1  |  |
| Bicycle hiring has reduced congestion  | 38.9  |  |
| Online scheduling and ticket sales has made public transport easier to use   | 67.5  |  |
| The city provides information on traffic congestion through mobile phones    | 54.9  |  |

### Activities

|  | Score |  |
|--|-------|--|
| Online purchasing of tickets to shows and museums has made it easier to attend | 76.6  |  |

### Opportunities (Work & School)

|   | Score |  |
|---|-------|--|
| Online access to job listings has made it easier to find work                   | 63.3  |  |
| IT skills are taught well in schools  | 50.2  |  |
| Online services provided by the city has made it easier to start a new business | 49.5  |  |
| The current internet speed and reliability meet connectivity needs              | 68.9  |  |

### Governance

|   | Score |  |
|---|-------|--|
| Online public access to city finances has reduced corruption                | 36.7  |  |
| Online voting has increased participation                                   | 42.0  |  |
| An online platform where residents can propose ideas has improved city life | 46.4  |  |
| Processing Identification Documents online has reduced waiting times        | 51.9  |  |

# Sydney

SMART  
CITY  
RANKING  
**32**

Out of 146

22 in 2024  
Out of 142

SMART  
CITY RATING

**A**

A in 2024

FACTOR  
RATINGS

**A**

STRUCTURES

**A**

TECHNOLOGIES

GROUP

**1**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 5,180,000  
(UN World Urbanization Prospects)

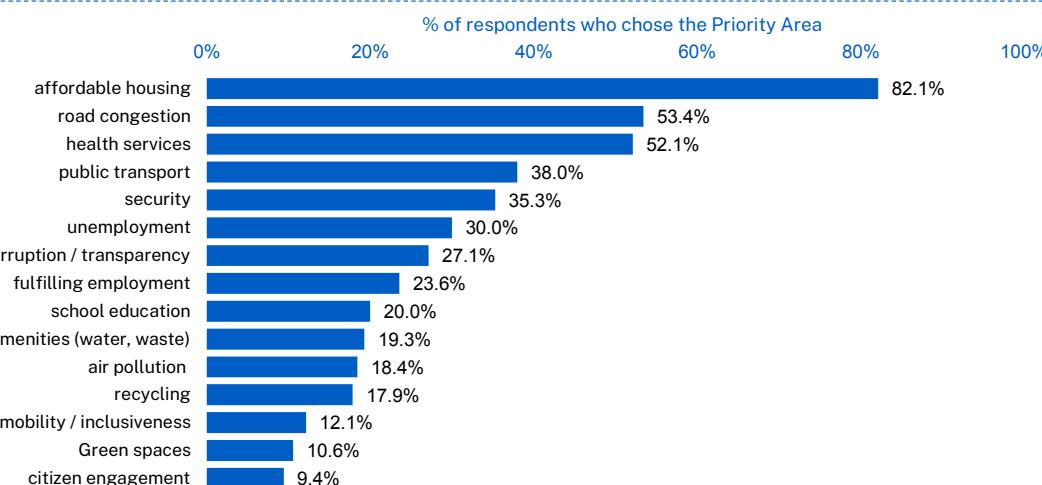
HDI 0.946  
(Global Data Lab)



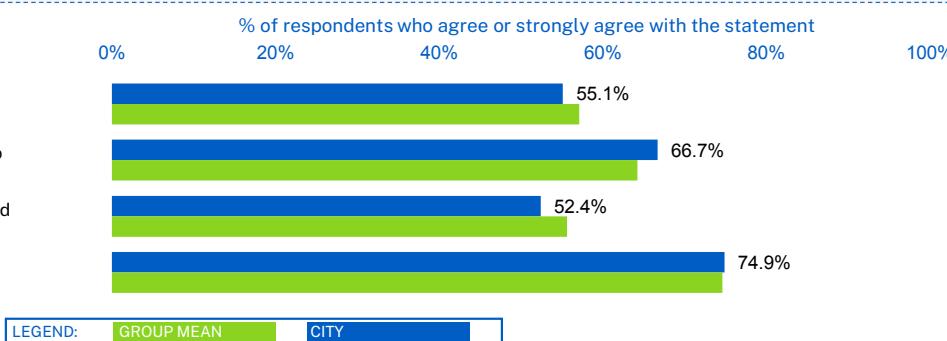
### Country

| Australia                   | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.933  | 0.936  | 0.937  | 0.941  | +0.004      |
| Life expectancy at birth    | 83.1   | 84.3   | 84.5   | 83.6   | -0.9        |
| Expected years of schooling | 21.4   | 20.9   | 21.1   | 21.1   | +0.0        |
| Mean years of schooling     | 12.7   | 12.7   | 12.7   | 12.7   | +0.0        |
| GNI per capita (PPP \$)     | 47,054 | 48,075 | 48,076 | 49,257 | +1,181      |

## PRIORITY AREAS



## ATTITUDES

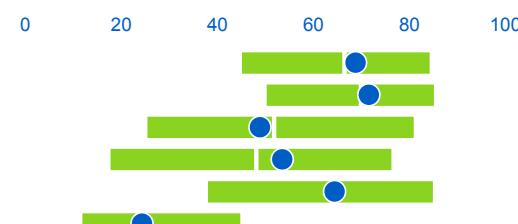


LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

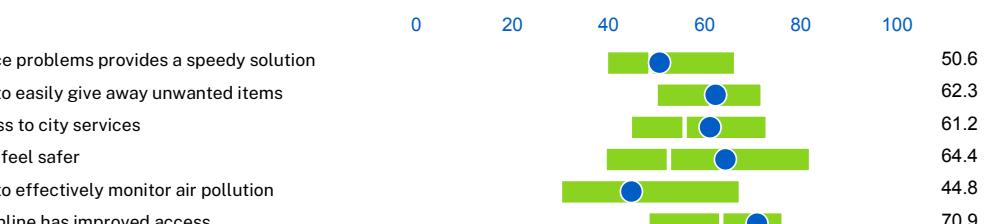
## STRUCTURES

### Score



## TECHNOLOGIES

### Score



### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem

### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory

### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory

### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome

### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects

### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access

### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones

### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend

### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs

### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times

# Taipei City

SMART  
CITY  
RANKING  
**23**

Out of 146

16 in 2024  
Out of 142

SMART  
CITY RATING

**A**

A in 2024

FACTOR  
RATINGS

**A**

STRUCTURES

**A**

TECHNOLOGIES

GROUP  
**2**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 2,770,000  
(UN World Urbanization Prospects)



HDI 0.925

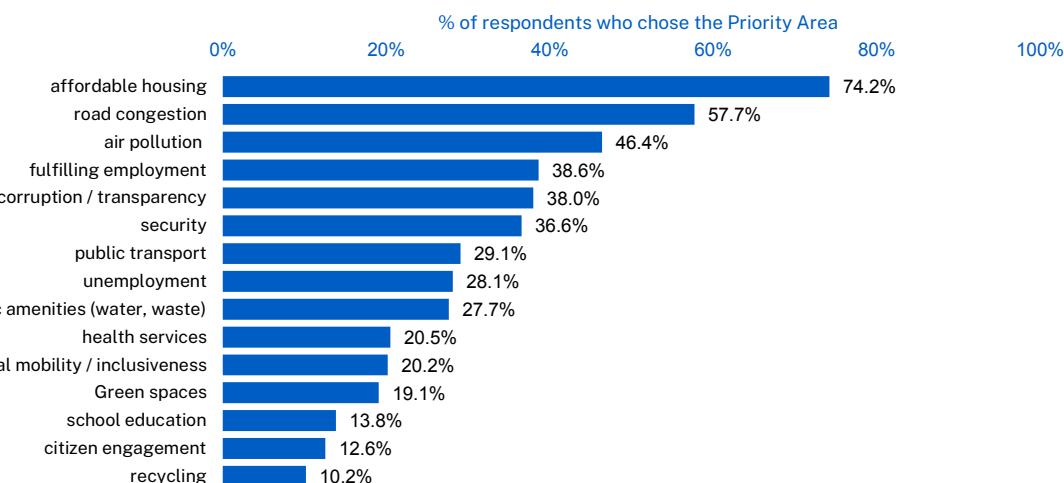
Out of 146

16 in 2024  
Out of 142

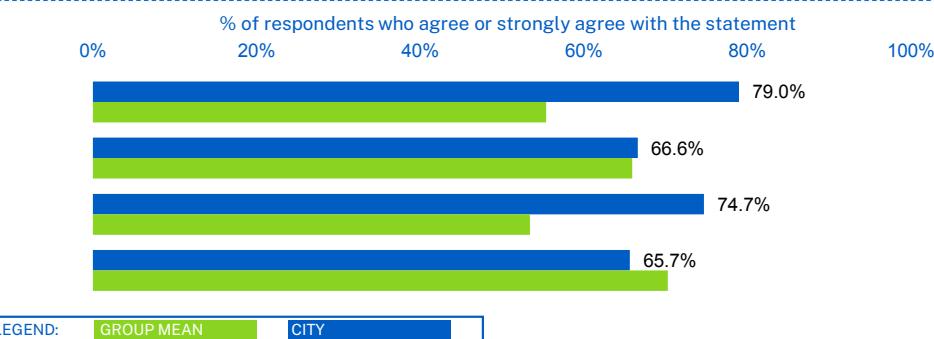
### Country

| Taiwan                      | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.916  | 0.923  | 0.926  | 0.925  | -0.001      |
| Life expectancy at birth    | 80.9   | 81.3   | 80.9   | 79.8   | -1.1        |
| Expected years of schooling | 16.5   | 16.6   | 16.8   | 16.9   | +0.1        |
| Mean years of schooling     | 12.3   | 12.4   | 12.5   | 12.6   | +0.1        |
| GNI per capita (PPP \$)     | 52,625 | 54,622 | 58,379 | 60,535 | +2,156      |

## PRIORITY AREAS



## ATTITUDES

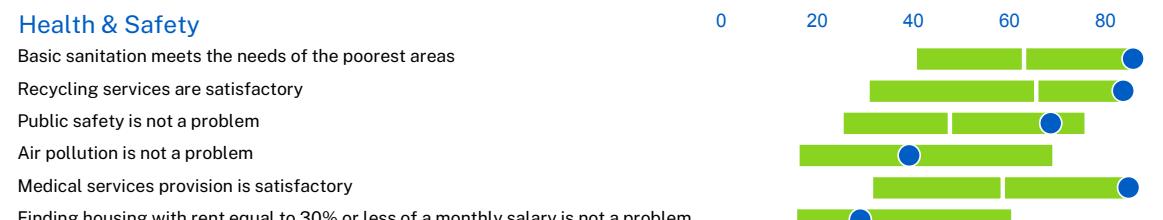


LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

### Score



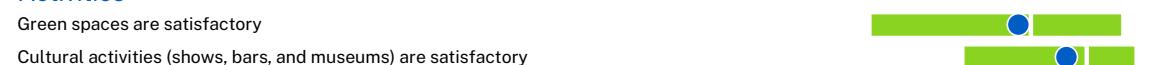
### Mobility

### Score



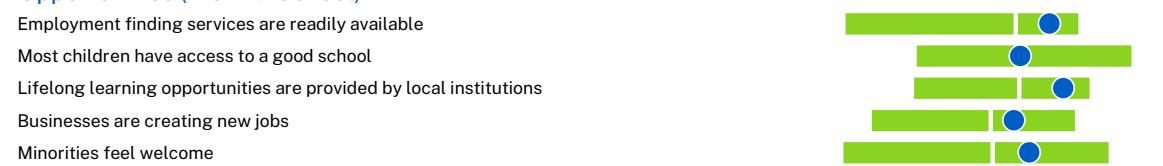
### Activities

### Score



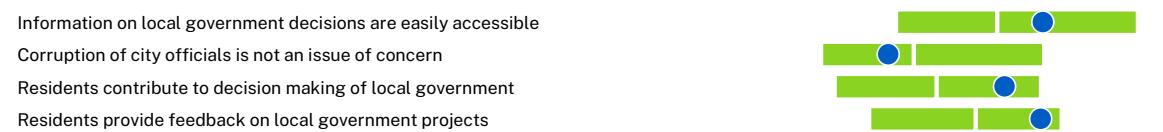
### Opportunities (Work & School)

### Score



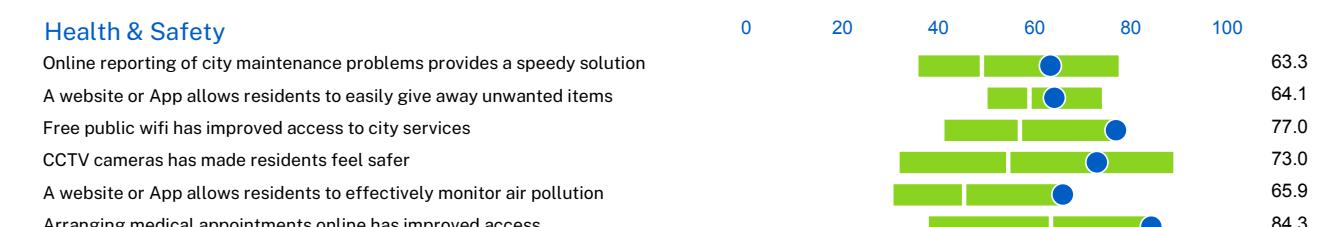
### Governance

### Score



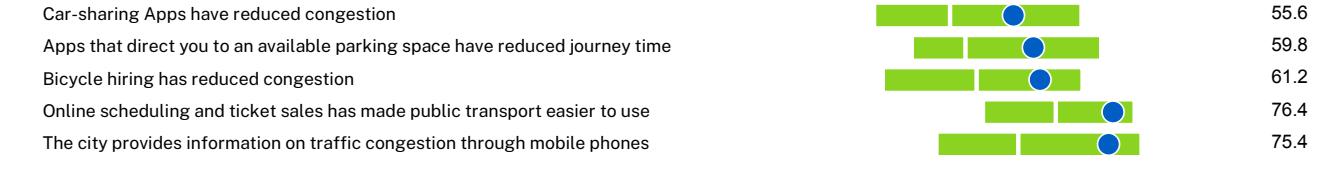
## TECHNOLOGIES

### Score



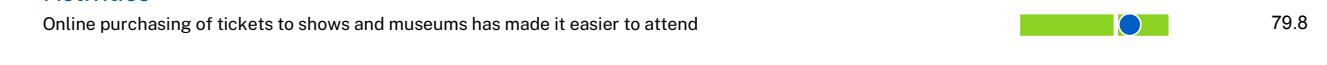
### Mobility

### Score



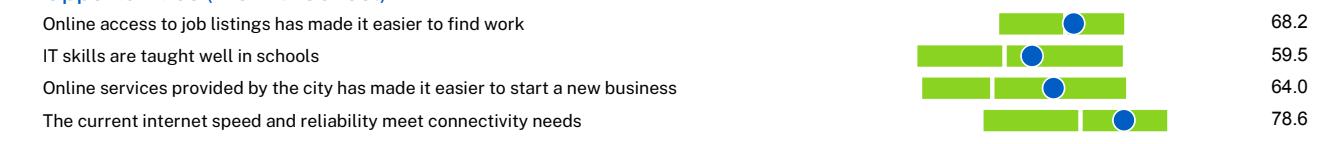
### Activities

### Score



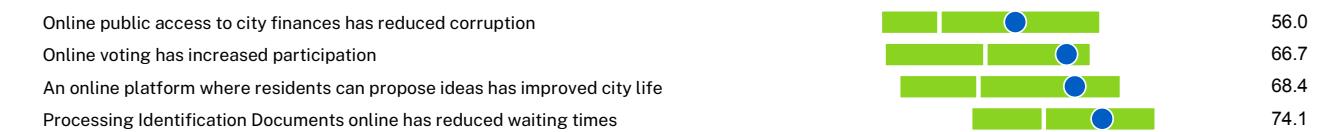
### Opportunities (Work & School)

### Score



### Governance

### Score



## SMART CITY RANKING

**22**

Out of 146



24 in 2024  
Out of 142

## SMART CITY RATING

**A**

BBB in 2024

## FACTOR RATINGS

**A**

STRUCTURES

**A**

## TECHNOLOGIES

**2**

All ratings range from AAA to D

### BACKGROUND INFORMATION

#### City

Population 390,000  
(UN World Urbanization Prospects)

HDI 0.941  
(Global Data Lab)



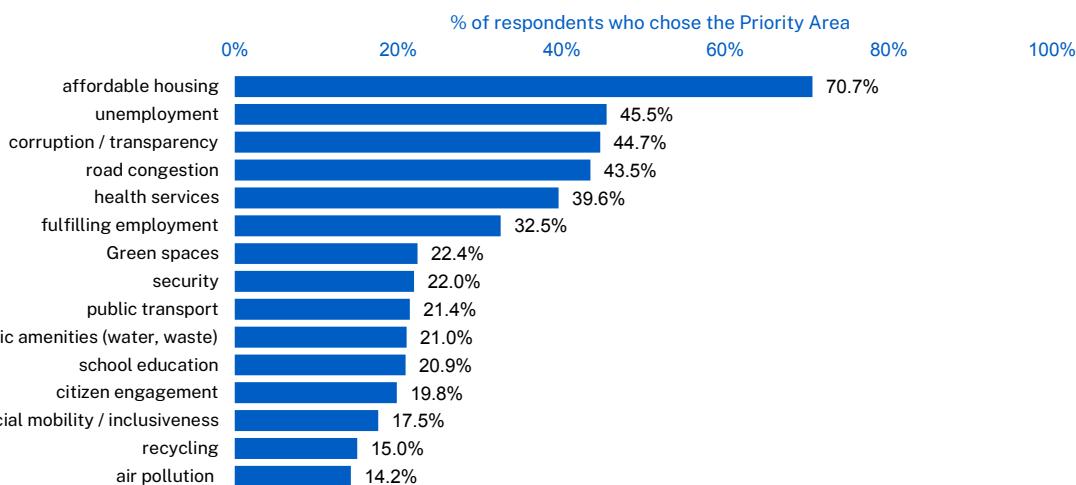
24 in 2024

Out of 142

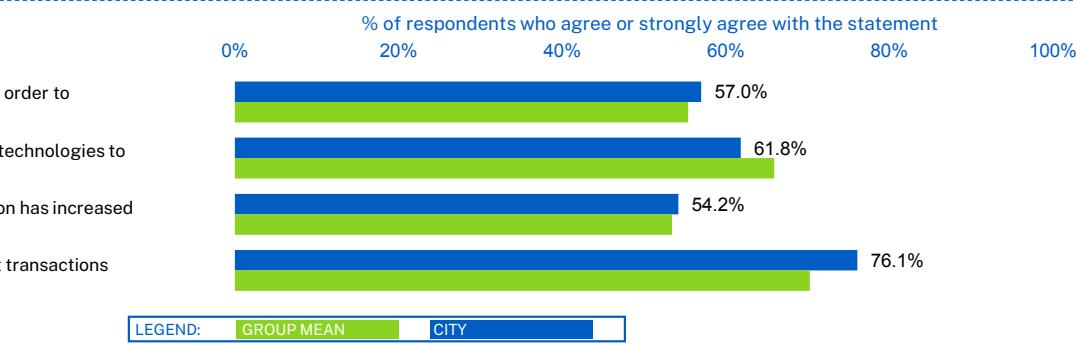
#### Country

| Estonia                     | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.883  | 0.884  | 0.886  | 0.890  | +0.004      |
| Life expectancy at birth    | 78.7   | 78.3   | 77.1   | 79.2   | +2.0        |
| Expected years of schooling | 15.7   | 15.8   | 15.9   | 15.9   | +0.0        |
| Mean years of schooling     | 13.6   | 13.5   | 13.5   | 13.5   | +0.0        |
| GNI per capita (PPP \$)     | 35,472 | 35,481 | 38,027 | 37,152 | -876        |

### PRIORITY AREAS



### ATTITUDES



LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

### STRUCTURES

Score

0 20 40 60 80 100

#### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem

73.5

74.9

76.1

69.4

69.0

37.4

#### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory

32.2

71.8

#### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory

69.0

80.3

#### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome

73.4

73.7

67.0

59.8

55.0

#### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects

63.9

37.7

43.2

55.5

### TECHNOLOGIES

Score

0 20 40 60 80 100

#### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access

60.6

61.2

63.9

61.6

44.6

69.4

#### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones

39.5

47.9

47.4

75.4

39.9

#### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend

81.7

#### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs

79.1

62.9

65.5

71.3

#### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times

37.8

71.9

52.1

76.8

All ratings range from AAA to D

# Tel Aviv

SMART  
CITY  
RANKING  
**96**

Out of 146

94 in 2024  
Out of 142

SMART  
CITY RATING

**B**

B in 2024

FACTOR  
RATINGS  
**CCC**

STRUCTURES

**B**

TECHNOLOGIES

**2**

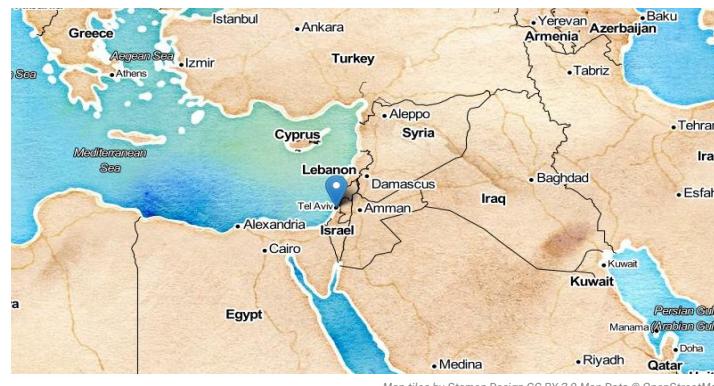
All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 4,500,000  
(UN World Urbanization Prospects)

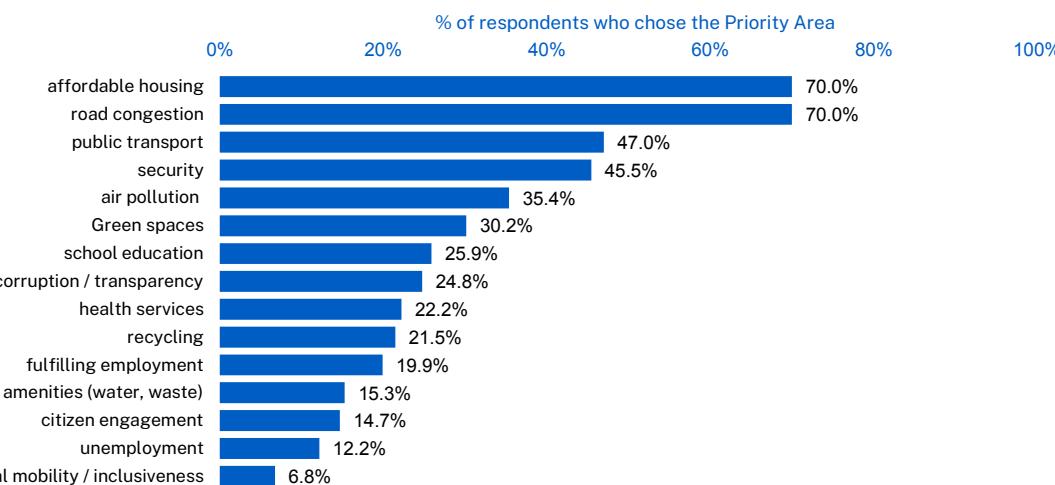
HDI 0.915  
(Global Data Lab)



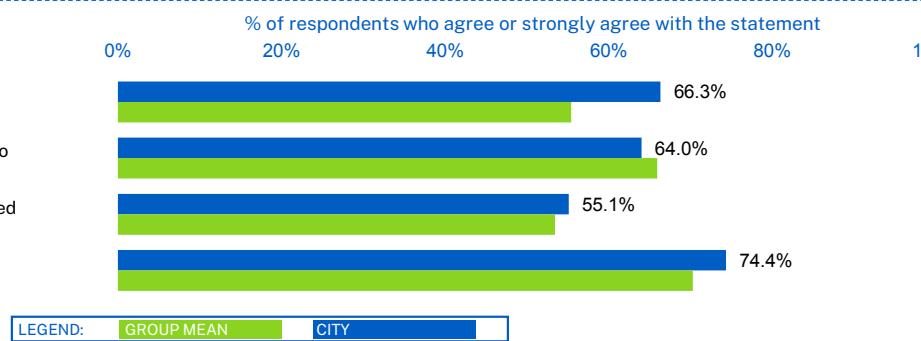
### Country

| Israel                      | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.899  | 0.902  | 0.906  | 0.908  | +0.002      |
| Life expectancy at birth    | 82.8   | 82.4   | 82.3   | 82.6   | +0.3        |
| Expected years of schooling | 14.8   | 14.8   | 15.0   | 15.0   | +0.0        |
| Mean years of schooling     | 13.3   | 13.4   | 13.4   | 13.4   | +0.0        |
| GNI per capita (PPP \$)     | 40,920 | 39,324 | 41,754 | 43,588 | +1,834      |

## PRIORITY AREAS



## ATTITUDES



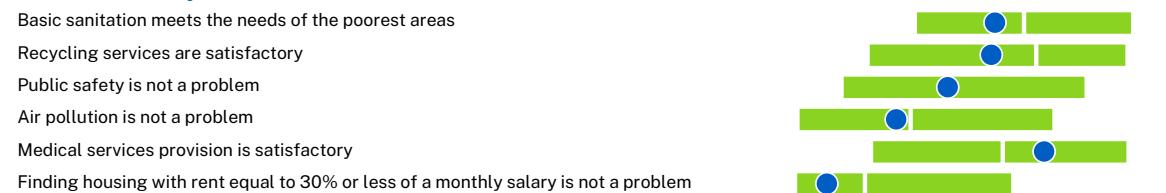
LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

Score

### Health & Safety



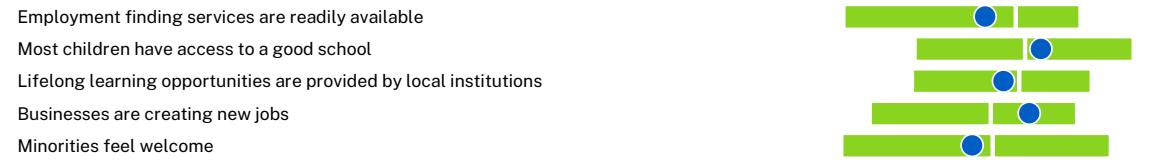
### Mobility



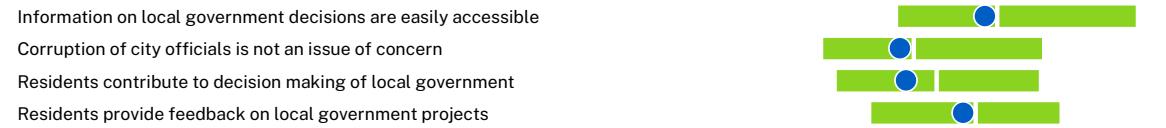
### Activities



### Opportunities (Work & School)



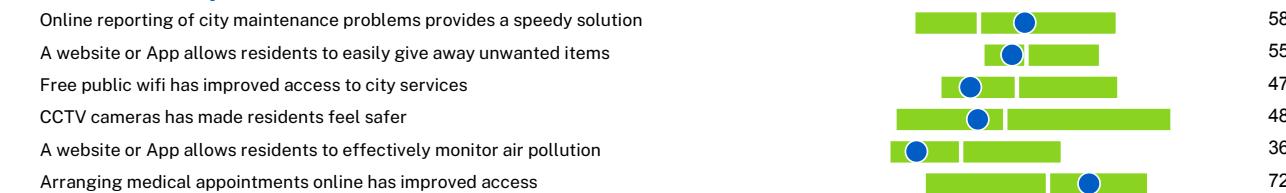
### Governance



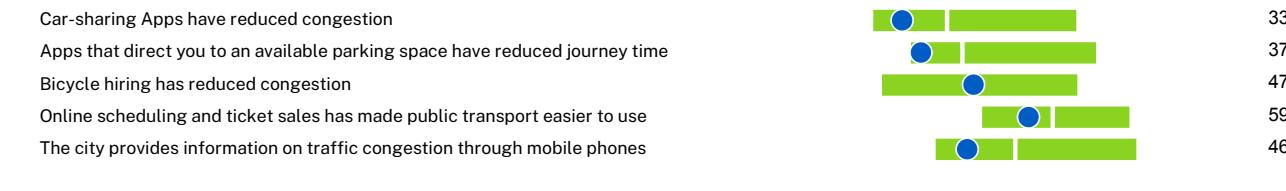
## TECHNOLOGIES

Score

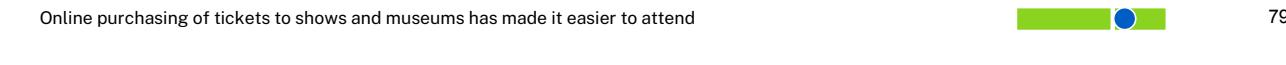
### Health & Safety



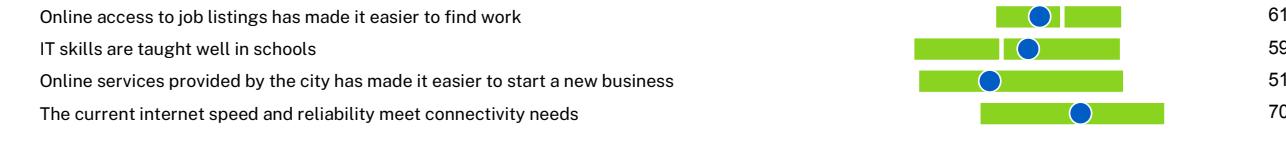
### Mobility



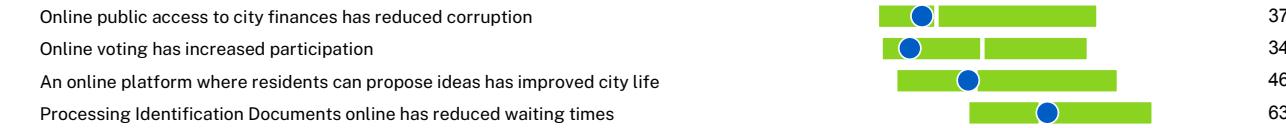
### Activities



### Opportunities (Work & School)



### Governance



# The Hague

SMART  
CITY  
RANKING

**43**

Out of 146



42 in 2024  
Out of 142

SMART  
CITY RATING

**BBB**

A in 2024

FACTOR  
RATINGS

**BBB**

STRUCTURES

**BBB**

TECHNOLOGIES

GROUP

**1**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 470,000  
(UN World Urbanization Prospects)

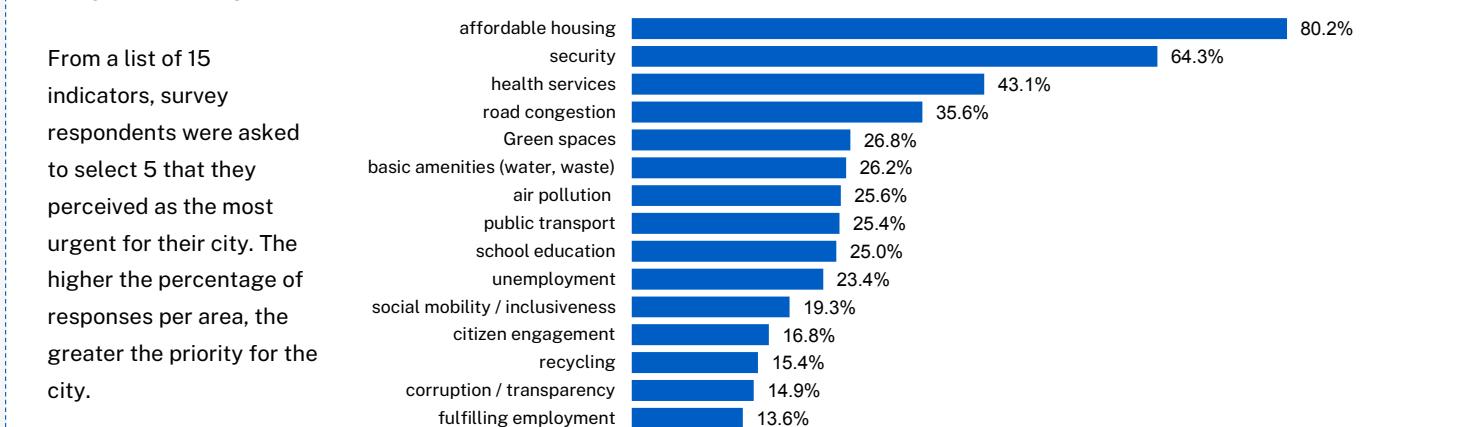
HDI 0.946  
(Global Data Lab)



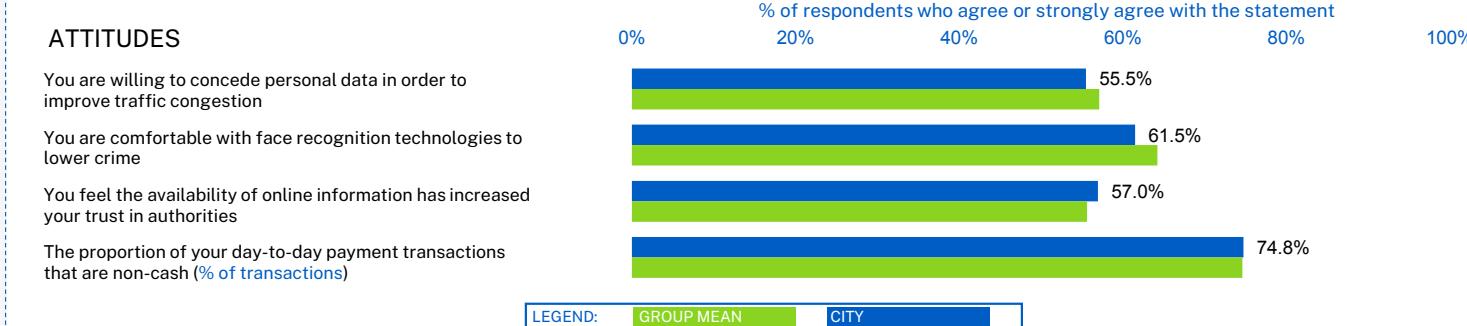
### Country

| Netherlands                 | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.932  | 0.933  | 0.936  | 0.939  | +0.003      |
| Life expectancy at birth    | 82.0   | 81.6   | 81.7   | 82.5   | +0.8        |
| Expected years of schooling | 18.4   | 18.4   | 18.6   | 18.6   | +0.0        |
| Mean years of schooling     | 12.5   | 12.6   | 12.6   | 12.6   | +0.0        |
| GNI per capita (PPP \$)     | 55,628 | 52,500 | 55,355 | 57,278 | +1,923      |

## PRIORITY AREAS



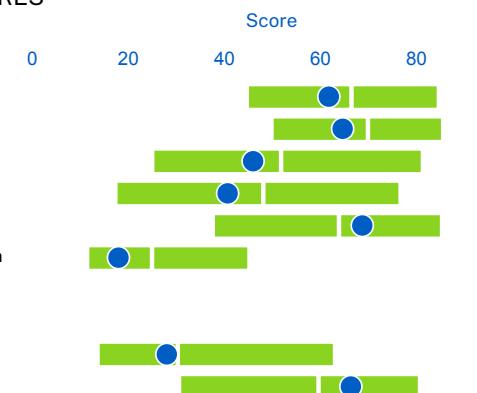
## ATTITUDES



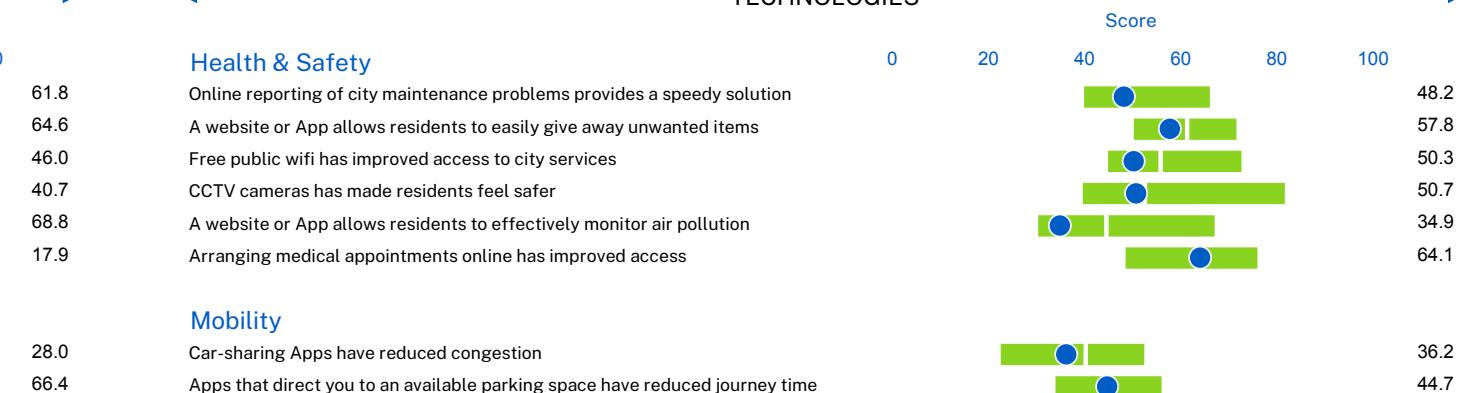
LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES



## TECHNOLOGIES



STRUCTURES

TECHNOLOGIES

GROUP

**1**

All ratings range  
from AAA to D

# Tokyo

SMART  
CITY  
RANKING  
**108**  
Out of 146

86 in 2024  
Out of 142

SMART  
CITY RATING

**BB**

BB in 2024

FACTOR  
RATINGS

**BB**

STRUCTURES

**BB**

TECHNOLOGIES

GROUP

**1**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 37,120,000  
(UN World Urbanization Prospects)



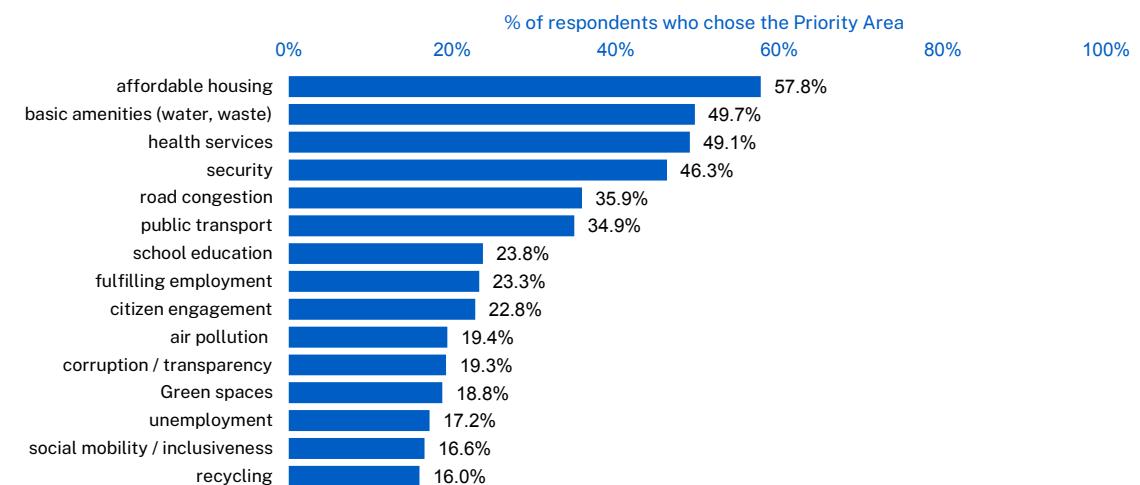
HDI 0.946  
(Global Data Lab)

86 in 2024  
Out of 142

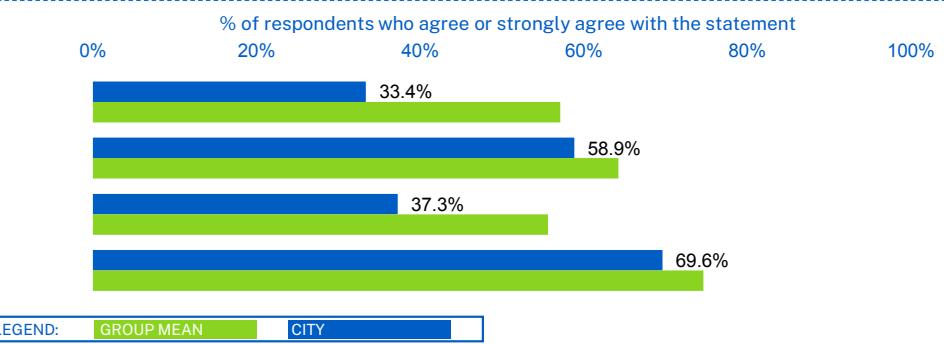
### Country

| Japan                       | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.913  | 0.914  | 0.916  | 0.917  | +0.001      |
| Life expectancy at birth    | 84.4   | 84.7   | 84.8   | 84.8   | +0.0        |
| Expected years of schooling | 15.4   | 15.5   | 15.5   | 15.5   | +0.0        |
| Mean years of schooling     | 12.7   | 12.7   | 12.7   | 12.7   | +0.0        |
| GNI per capita (PPP \$)     | 43,276 | 41,446 | 43,008 | 43,644 | +636        |

## PRIORITY AREAS



## ATTITUDES



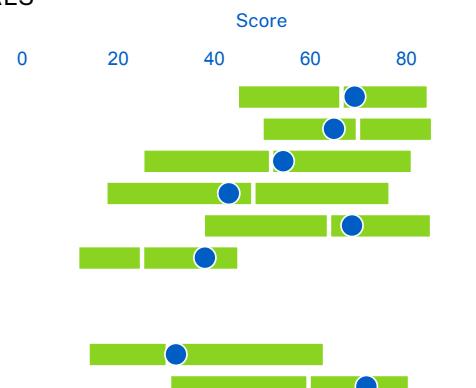
LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety

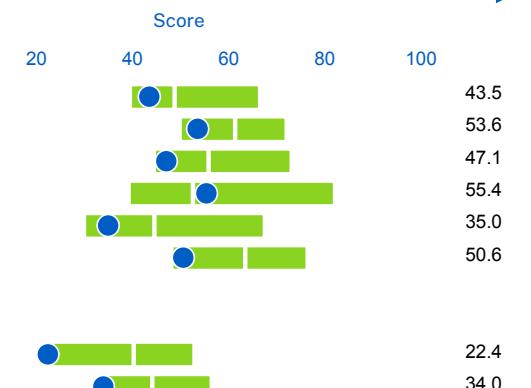
- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem



### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access

## TECHNOLOGIES



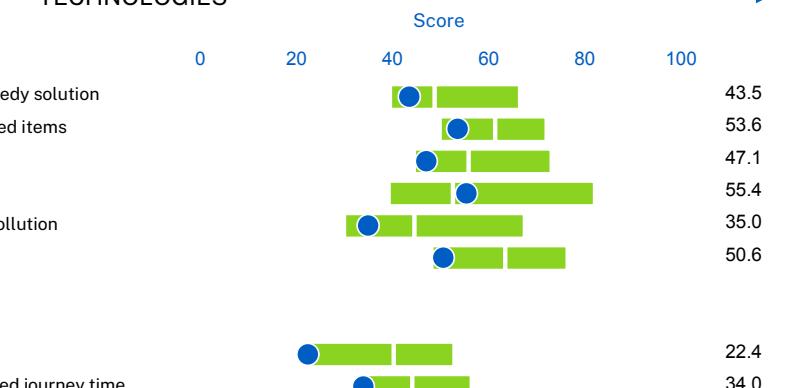
### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory



### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones



### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory



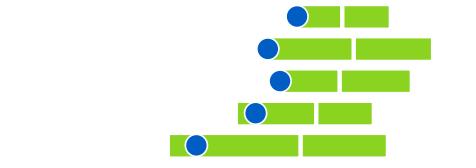
### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend



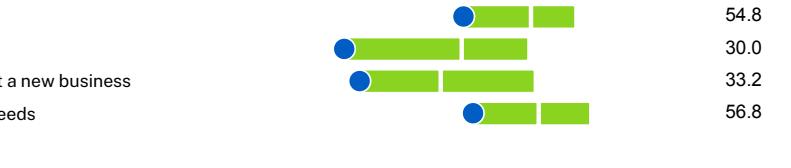
### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome



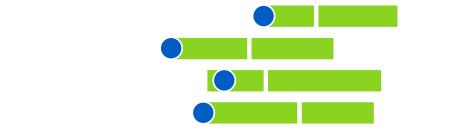
### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs



### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects



### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times



# Toronto

SMART  
CITY  
RANKING  
**63**

Out of 146

51 in 2024  
Out of 142

SMART  
CITY RATING

**BBB**

BBB in 2024

FACTOR  
RATINGS

**BB**

STRUCTURES

**BB**

TECHNOLOGIES

**2**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 6,430,000  
(UN World Urbanization Prospects)

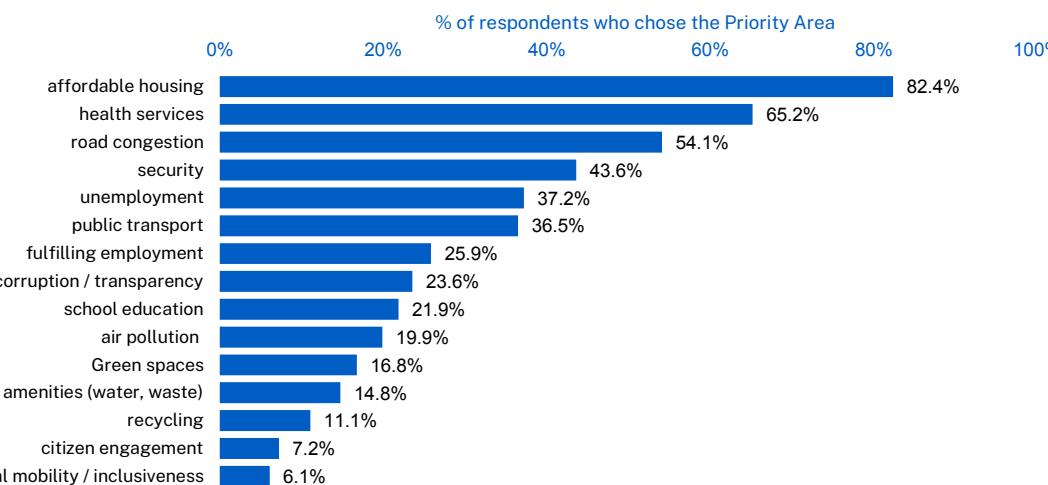
HDI 0.942  
(Global Data Lab)



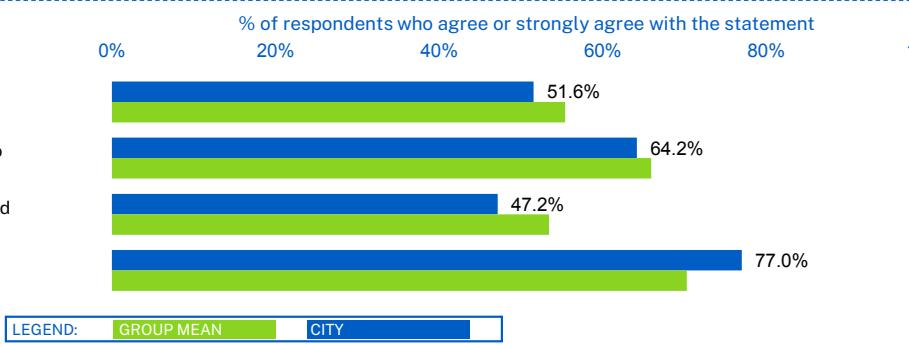
### Country

| Canada                      | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.927  | 0.928  | 0.929  | 0.930  | +0.001      |
| Life expectancy at birth    | 82.4   | 82.0   | 82.7   | 82.8   | +0.2        |
| Expected years of schooling | 15.9   | 15.9   | 16.0   | 16.0   | +0.0        |
| Mean years of schooling     | 13.8   | 13.9   | 13.9   | 13.9   | +0.0        |
| GNI per capita (PPP \$)     | 48,591 | 45,828 | 47,933 | 48,444 | +512        |

## PRIORITY AREAS



## ATTITUDES

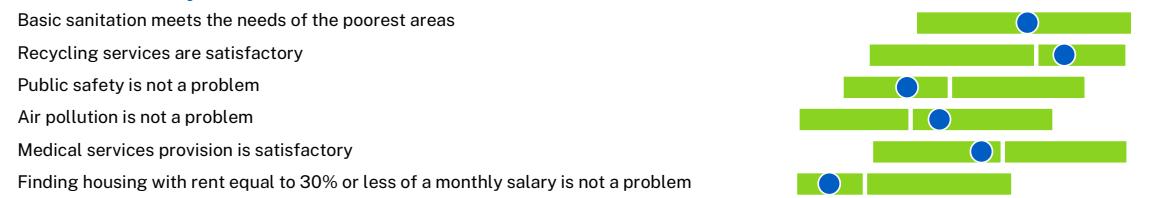


LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



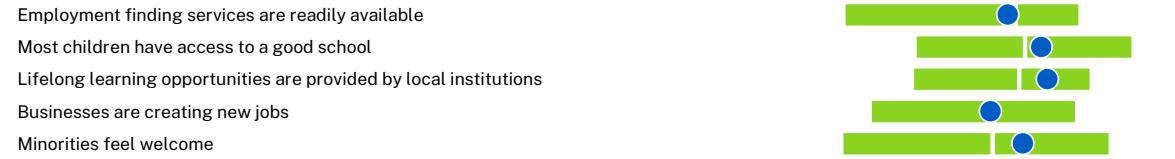
### Mobility



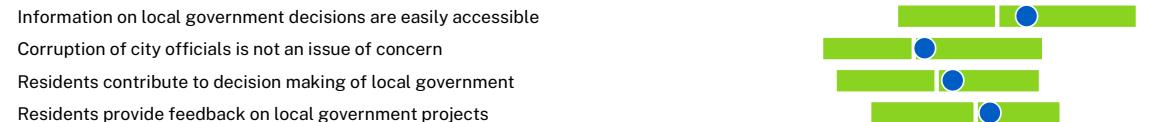
### Activities



### Opportunities (Work & School)



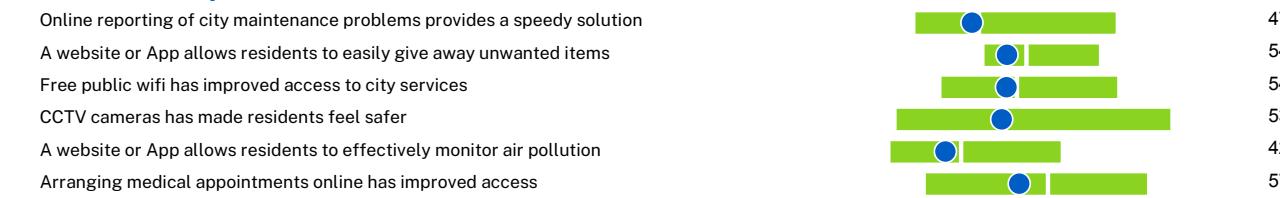
### Governance



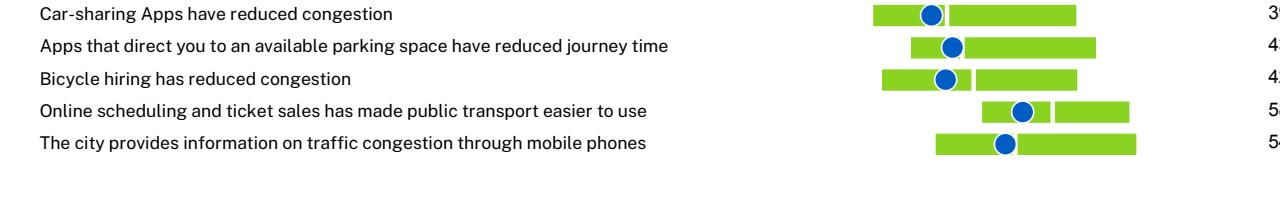
## TECHNOLOGIES

LEGEND: MIN CITY MEAN GROUP MAX

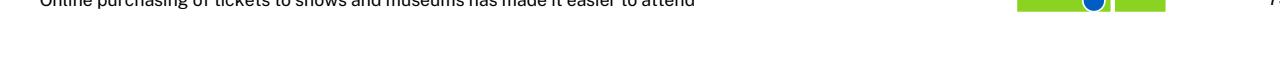
### Health & Safety



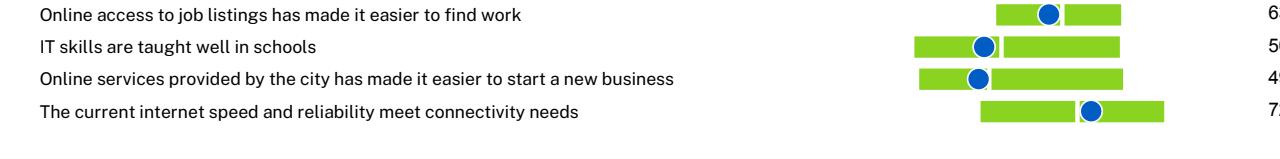
### Mobility



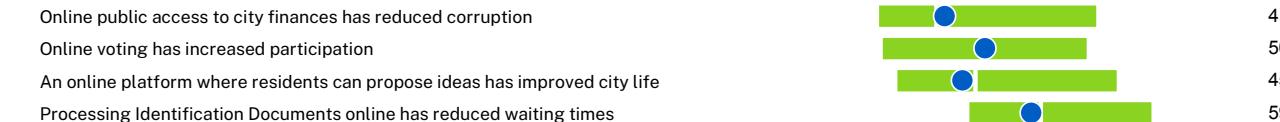
### Activities



### Opportunities (Work & School)



### Governance



# Tunis

SMART  
CITY  
RANKING  
**142**

Out of 146

137 in 2024  
Out of 142

SMART  
CITY RATING

**D**

D in 2024

FACTOR  
RATINGS

**D**

STRUCTURES

**D**

TECHNOLOGIES

**4**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 2,510,000  
(UN World Urbanization Prospects)

HDI 0.777  
(Global Data Lab)



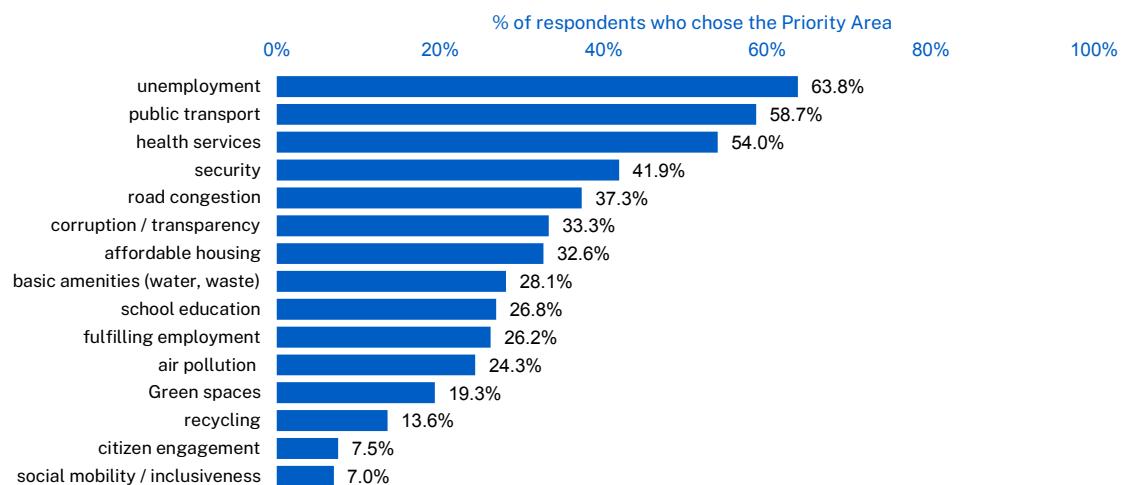
137 in 2024  
Out of 142

### Country

| Tunisia                     | 2019   | 2020  | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|-------|--------|--------|-------------|
| HDI                         | 0.724  | 0.728 | 0.732  | 0.737  | +0.005      |
| Life expectancy at birth    | 76.0   | 75.3  | 73.8   | 74.3   | +0.5        |
| Expected years of schooling | 14.6   | 14.6  | 14.6   | 14.6   | +0.0        |
| Mean years of schooling     | 7.8    | 8.0   | 8.0    | 8.0    | +0.0        |
| GNI per capita (PPP \$)     | 10,821 | 9,710 | 10,123 | 10,297 | +174        |

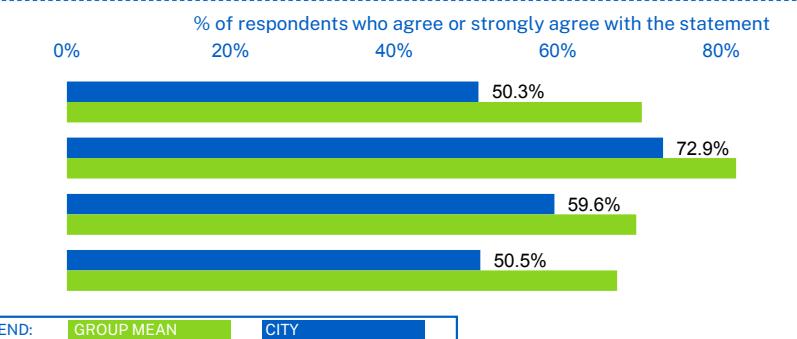
## PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. The higher the percentage of responses per area, the greater the priority for the city.



## ATTITUDES

- You are willing to concede personal data in order to improve traffic congestion
- You are comfortable with face recognition technologies to lower crime
- You feel the availability of online information has increased your trust in authorities
- The proportion of your day-to-day payment transactions that are non-cash (% of transactions)



LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem



### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory



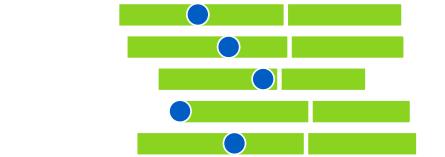
### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory



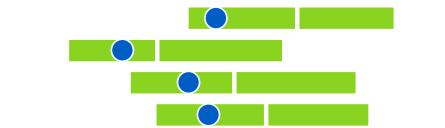
### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome



### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects

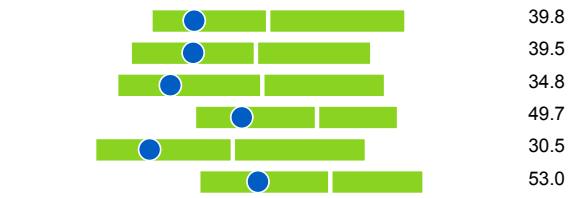


## TECHNOLOGIES

Score

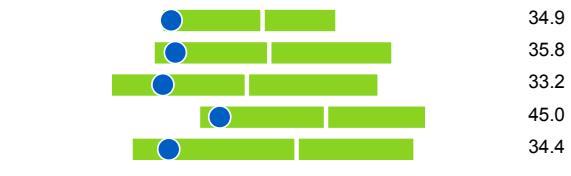
### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access



### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones



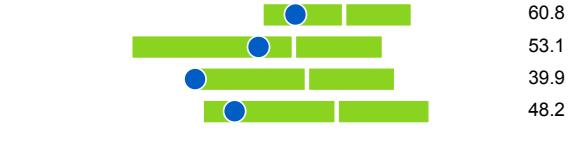
### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend



### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs



### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times



# Vancouver

SMART  
CITY  
RANKING  
**53**

Out of 146



43 in 2024  
Out of 142

SMART  
CITY RATING

**BBB**

BBB in 2024

FACTOR  
RATINGS

**BB**

STRUCTURES

**BB**

TECHNOLOGIES

GROUP

**1**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 2,680,000  
(UN World Urbanization Prospects)

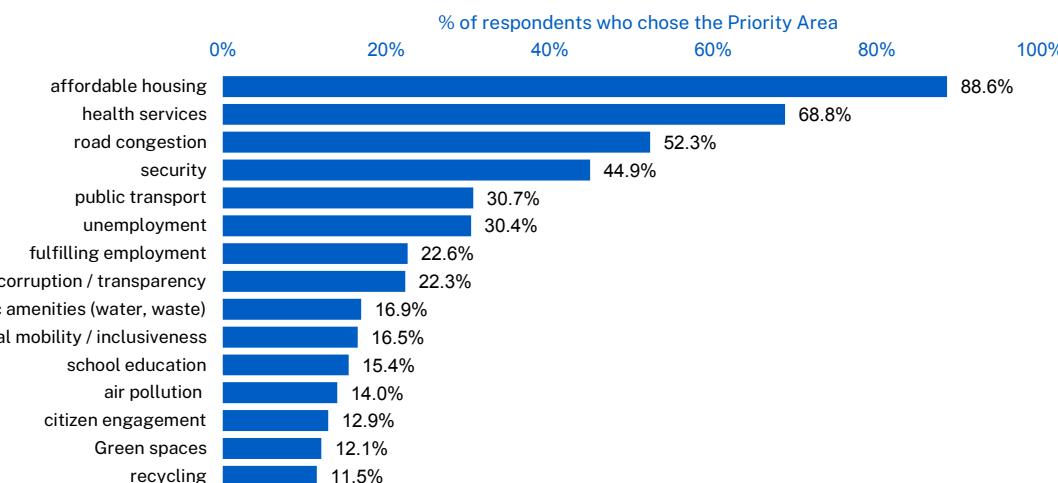
HDI 0.946  
(Global Data Lab)



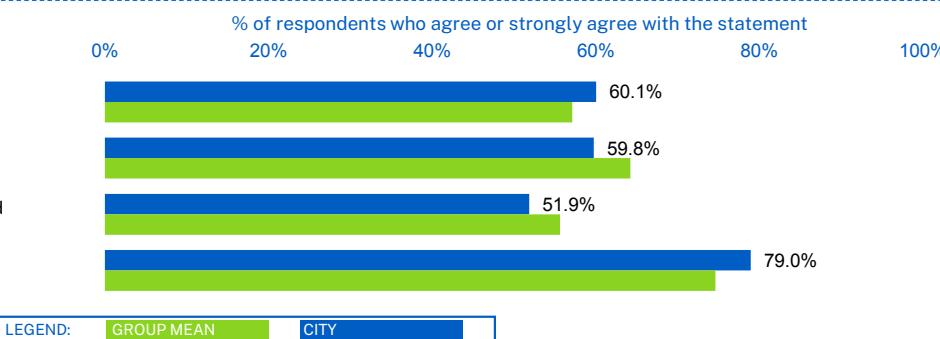
### Country

| Canada                      | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.927  | 0.928  | 0.929  | 0.930  | +0.001      |
| Life expectancy at birth    | 82.4   | 82.0   | 82.7   | 82.8   | +0.2        |
| Expected years of schooling | 15.9   | 15.9   | 16.0   | 16.0   | +0.0        |
| Mean years of schooling     | 13.8   | 13.9   | 13.9   | 13.9   | +0.0        |
| GNI per capita (PPP \$)     | 48,591 | 45,828 | 47,933 | 48,444 | +512        |

## PRIORITY AREAS



## ATTITUDES

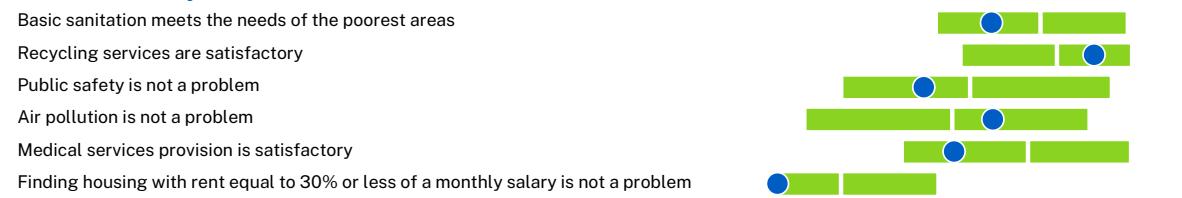


LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



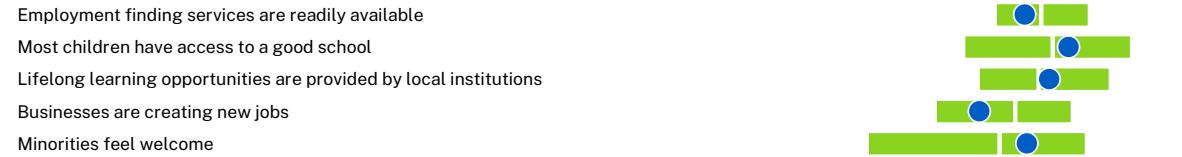
### Mobility



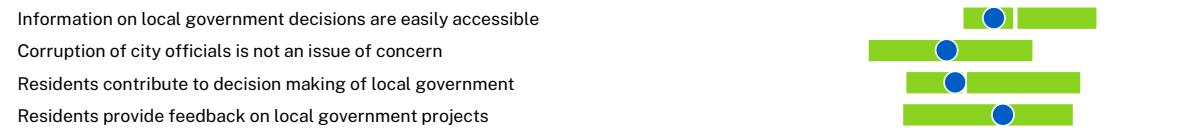
### Activities



### Opportunities (Work & School)



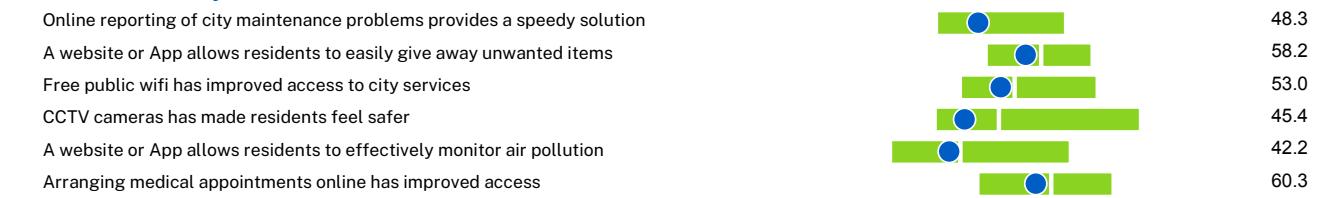
### Governance



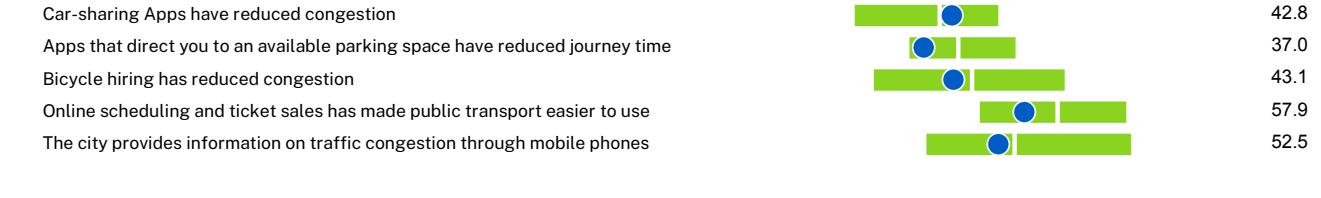
## TECHNOLOGIES

Score

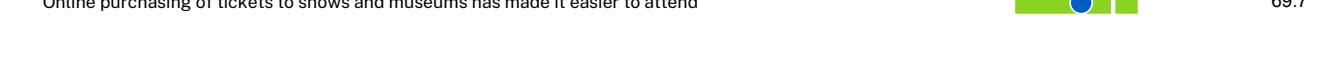
### Health & Safety



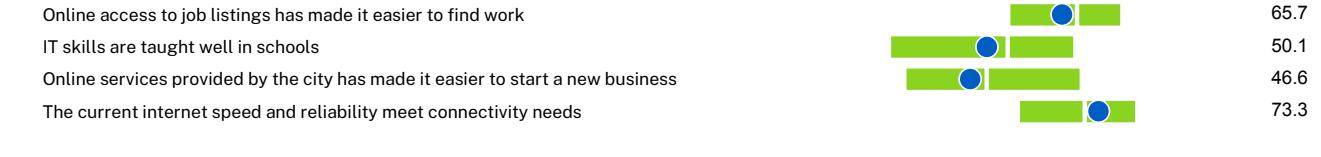
### Mobility



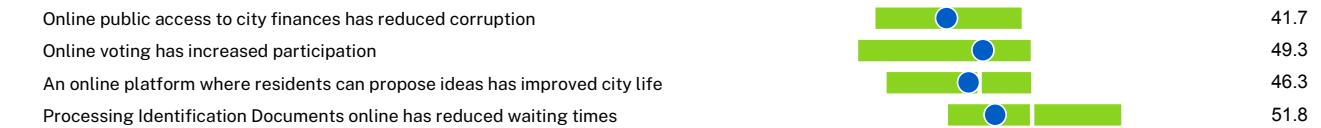
### Activities



### Opportunities (Work & School)



### Governance



# Vienna

SMART  
CITY  
RANKING  
**26**

Out of 146

23 in 2024  
Out of 142

SMART  
CITY RATING

**A**

AA in 2024

FACTOR  
RATINGS

**A**

STRUCTURES

TECHNOLOGIES

GROUP

**1**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

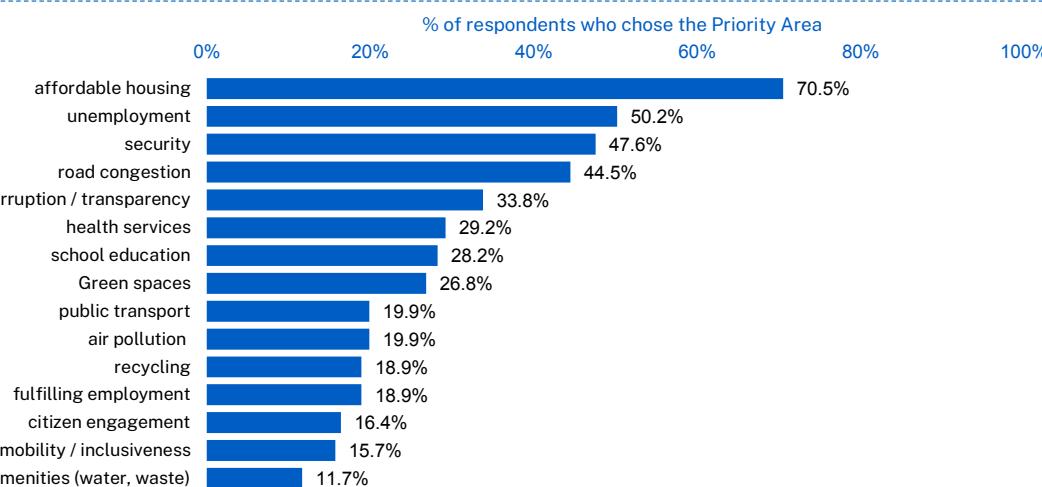
Population 1,990,000  
(UN World Urbanization Prospects)



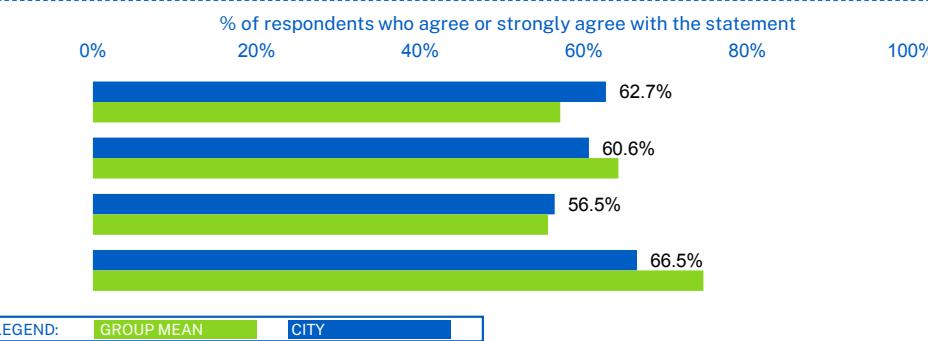
### Country

| Austria                     | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.910  | 0.913  | 0.914  | 0.917  | +0.003      |
| Life expectancy at birth    | 81.9   | 81.5   | 81.6   | 82.4   | +0.8        |
| Expected years of schooling | 16.1   | 16.1   | 16.4   | 16.4   | +0.0        |
| Mean years of schooling     | 12.3   | 12.3   | 12.3   | 12.3   | +0.0        |
| GNI per capita (PPP \$)     | 55,647 | 52,446 | 54,361 | 56,530 | +2,169      |

## PRIORITY AREAS



## ATTITUDES

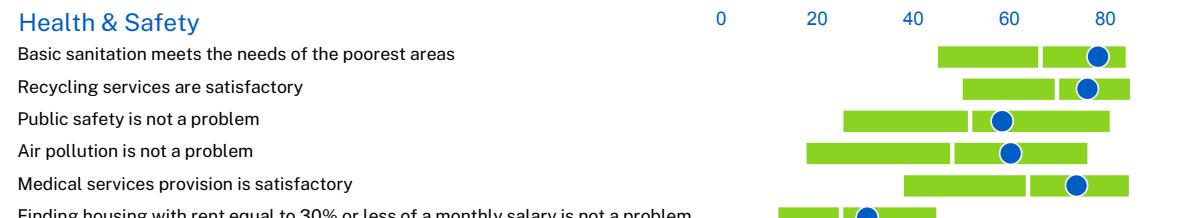


LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

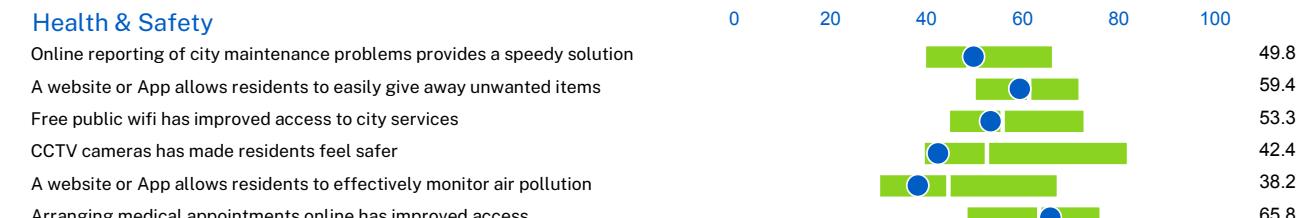
## STRUCTURES

### Score



## TECHNOLOGIES

### Score



## Mobility

### Health & Safety

Traffic congestion is not a problem

41.4

Public transport is satisfactory

74.8

## Activities

### Mobility

Car-sharing Apps have reduced congestion

36.9

Apps that direct you to an available parking space have reduced journey time

41.5

Bicycle hiring has reduced congestion

49.1

Online scheduling and ticket sales has made public transport easier to use

75.6

The city provides information on traffic congestion through mobile phones

61.4

Green spaces are satisfactory

73.5

Cultural activities (shows, bars, and museums) are satisfactory

86.2

## Opportunities (Work & School)

### Activities

Online purchasing of tickets to shows and museums has made it easier to attend

81.1

Employment finding services are readily available

68.0

Most children have access to a good school

67.7

Lifelong learning opportunities are provided by local institutions

64.9

Businesses are creating new jobs

61.3

Minorities feel welcome

56.1

## Governance

### Opportunities (Work & School)

Online access to job listings has made it easier to find work

73.2

IT skills are taught well in schools

54.9

Online services provided by the city has made it easier to start a new business

52.3

The current internet speed and reliability meet connectivity needs

71.0

Information on local government decisions are easily accessible

58.3

Corruption of city officials is not an issue of concern

43.0

Residents contribute to decision making of local government

47.1

Residents provide feedback on local government projects

52.8

### Governance

Online public access to city finances has reduced corruption

37.8

Online voting has increased participation

47.3

An online platform where residents can propose ideas has improved city life

46.8

Processing Identification Documents online has reduced waiting times

59.6

All ratings range  
from AAA to D

## SMART CITY RANKING

**34**

Out of 146



47 in 2024  
Out of 142

## SMART CITY RATING

**BBB**

BBB in 2024

## FACTOR RATINGS

**A**

## STRUCTURES

**A**

## TECHNOLOGIES

**GROUP**

**2**

All ratings range from AAA to D

### BACKGROUND INFORMATION

#### City

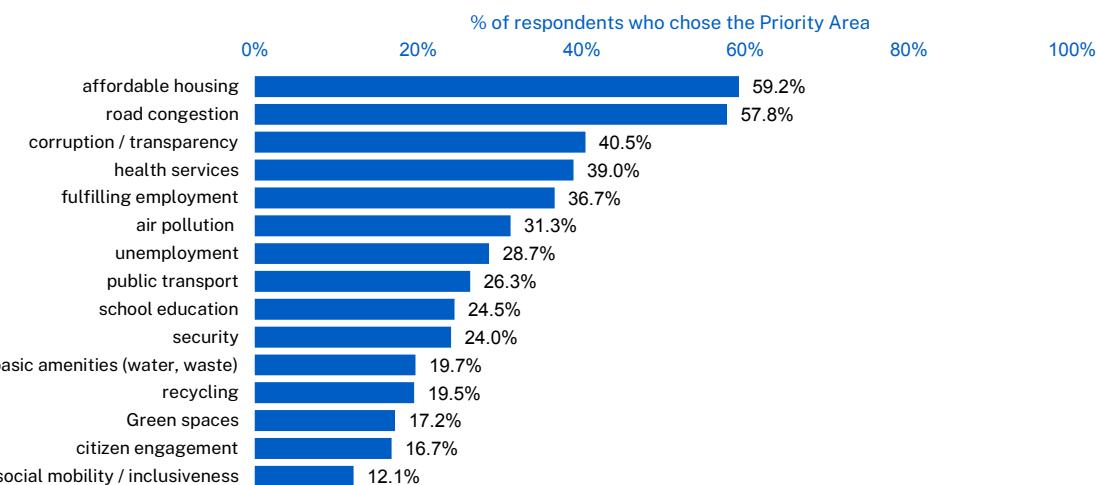
Population 540,000  
(UN World Urbanization Prospects)



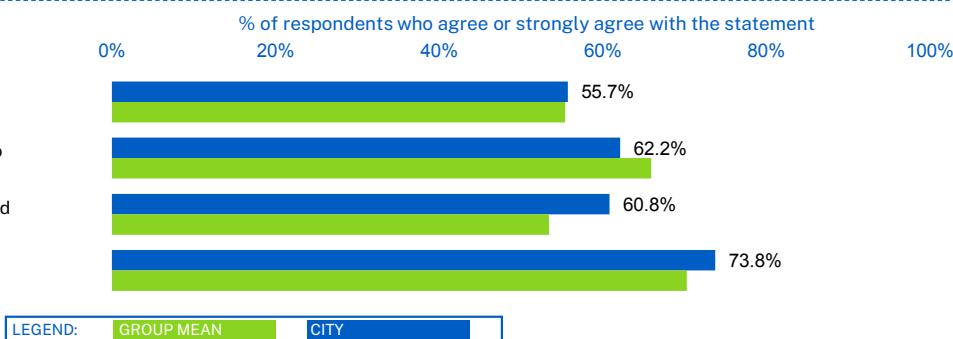
#### Country

| Lithuania                   | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.865  | 0.870  | 0.878  | 0.882  | +0.004      |
| Life expectancy at birth    | 76.2   | 75.1   | 73.7   | 74.3   | +0.6        |
| Expected years of schooling | 16.5   | 16.4   | 16.4   | 16.4   | +0.0        |
| Mean years of schooling     | 13.4   | 13.5   | 13.5   | 13.5   | +0.0        |
| GNI per capita (PPP \$)     | 35,897 | 36,103 | 37,854 | 38,131 | +277        |

### PRIORITY AREAS



### ATTITUDES



### STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

#### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem



#### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory



#### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory



#### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome

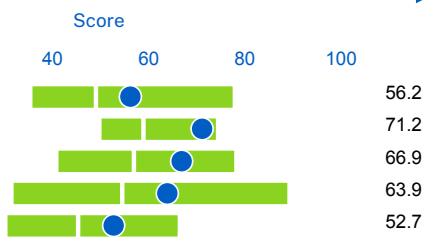


#### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects

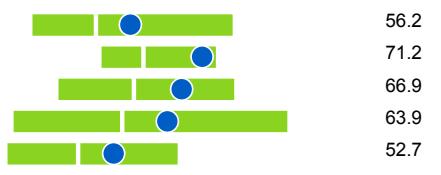


### TECHNOLOGIES



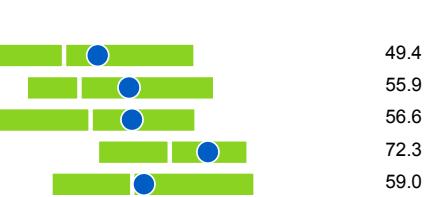
#### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access



#### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones



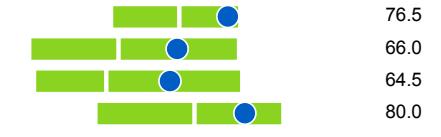
#### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend



#### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs



#### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times



# Warsaw

SMART  
CITY  
RANKING

**28**

Out of 146



38 in 2024  
Out of 142

SMART  
CITY RATING

**BBB**

BBB in 2024

FACTOR  
RATINGS

**A**

STRUCTURES

**A**

TECHNOLOGIES

GROUP

**2**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

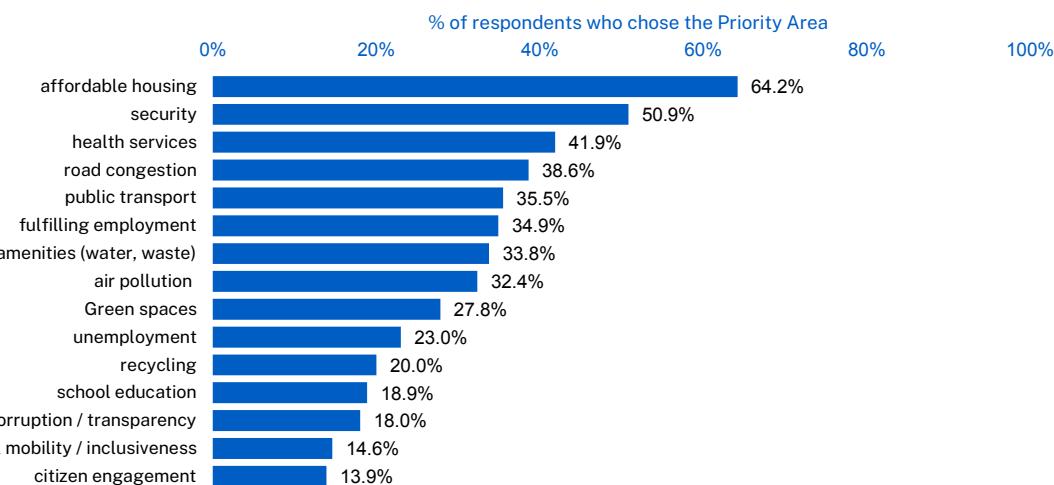
Population 1,800,000  
(UN World Urbanization Prospects)



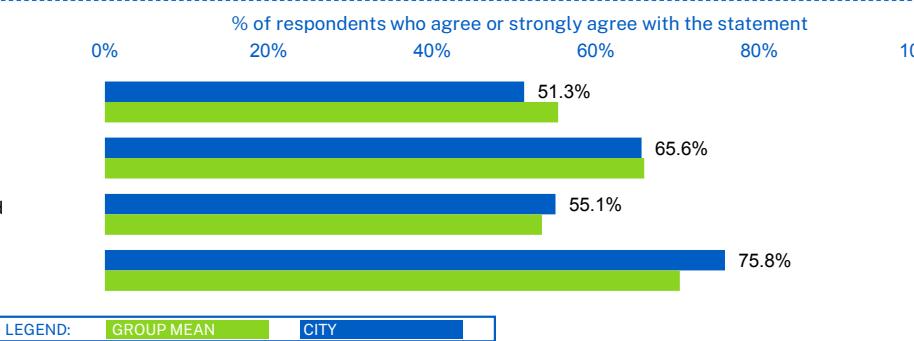
### Country

| Poland                      | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.869  | 0.872  | 0.874  | 0.876  | +0.002      |
| Life expectancy at birth    | 77.9   | 76.9   | 76.5   | 77.0   | +0.5        |
| Expected years of schooling | 15.9   | 15.8   | 15.9   | 15.9   | +0.0        |
| Mean years of schooling     | 13.1   | 13.2   | 13.2   | 13.2   | +0.0        |
| GNI per capita (PPP \$)     | 31,772 | 31,293 | 33,264 | 35,151 | +1,887      |

## PRIORITY AREAS



## ATTITUDES



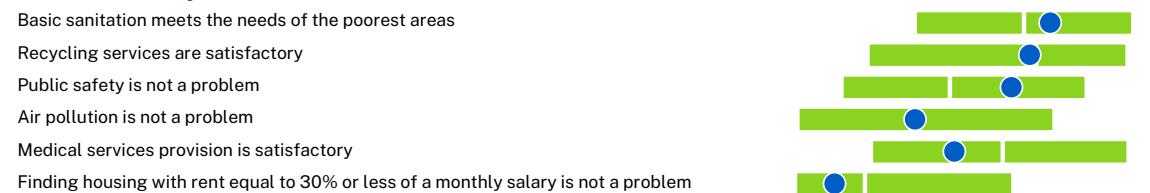
LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

Score

### Health & Safety



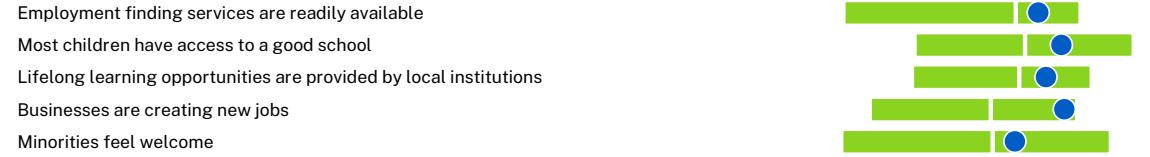
### Mobility



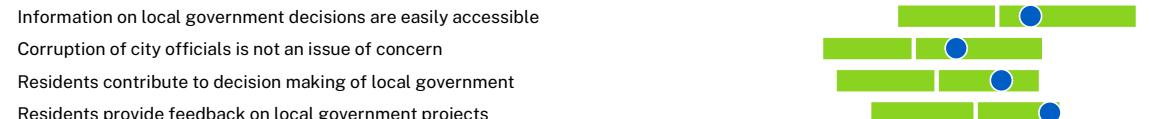
### Activities



### Opportunities (Work & School)



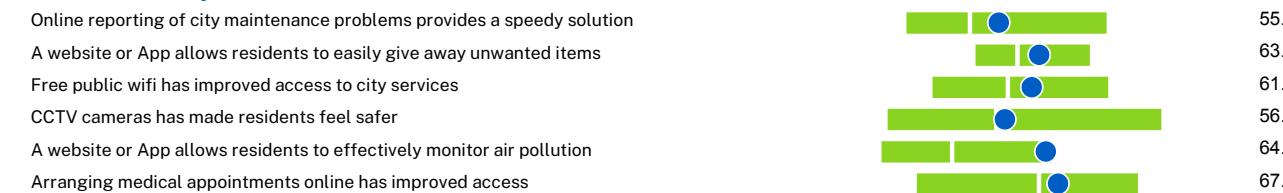
### Governance



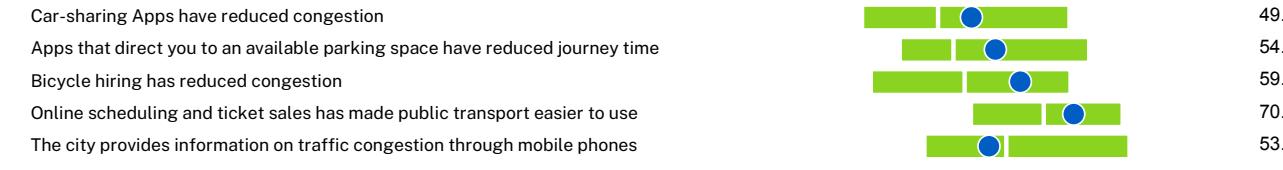
## TECHNOLOGIES

Score

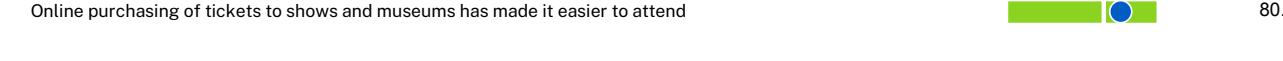
### Health & Safety



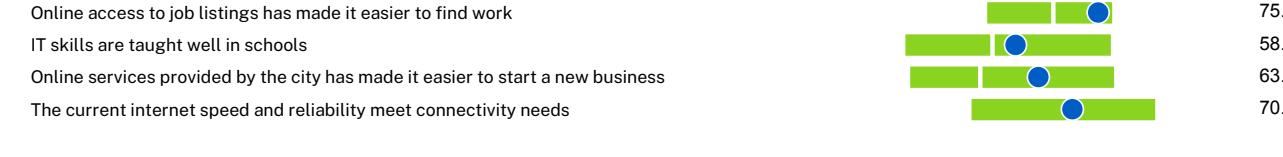
### Mobility



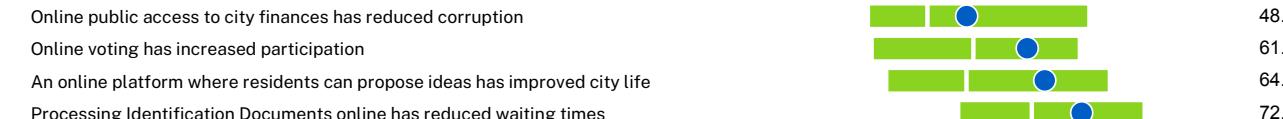
### Activities



### Opportunities (Work & School)



### Governance



# Washington D.C.

SMART  
CITY  
RANKING  
**62**

Out of 146



50 in 2024  
Out of 142

SMART  
CITY RATING

**BB**

BB in 2024

FACTOR  
RATINGS

**BB**

STRUCTURES

**BB**

TECHNOLOGIES

**1**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 600,000  
(UN World Urbanization Prospects)

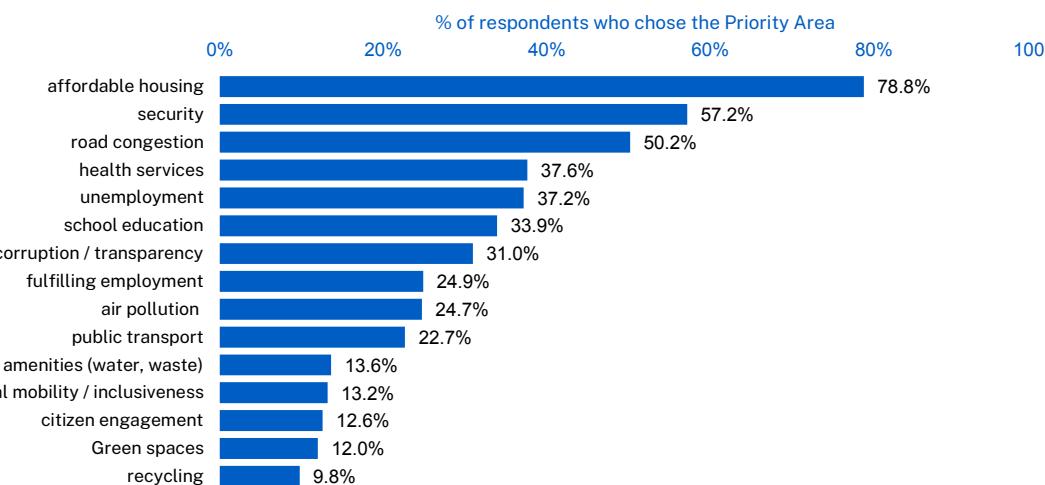
HDI 0.947  
(Global Data Lab)



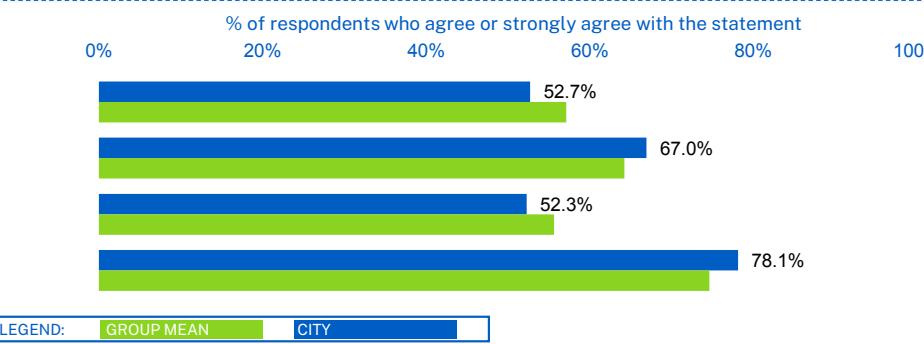
### Country

| United States               | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.924  | 0.926  | 0.928  | 0.930  | +0.002      |
| Life expectancy at birth    | 79.1   | 77.4   | 77.2   | 78.2   | +1.0        |
| Expected years of schooling | 16.6   | 16.6   | 16.4   | 16.4   | +0.0        |
| Mean years of schooling     | 13.6   | 13.7   | 13.6   | 13.6   | +0.0        |
| GNI per capita (PPP \$)     | 63,654 | 61,077 | 64,484 | 65,565 | +1,081      |

## PRIORITY AREAS



## ATTITUDES



LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

## STRUCTURES

Score

| Health & Safety   | Score |
|---|-------|
| Basic sanitation meets the needs of the poorest areas                               | 55.7  |
| Recycling services are satisfactory   | 60.0  |
| Public safety is not a problem  | 31.8  |
| Air pollution is not a problem  | 41.3  |
| Medical services provision is satisfactory  | 60.6  |
| Finding housing with rent equal to 30% or less of a monthly salary is not a problem | 29.5  |

## Mobility

| Mobility                            | Score |
|-------------------------------------|-------|
| Traffic congestion is not a problem | 21.4  |
| Public transport is satisfactory    | 53.0  |

## Activities

| Activities  | Score |
|---|-------|
| Green spaces are satisfactory                                   | 60.1  |
| Cultural activities (shows, bars, and museums) are satisfactory | 80.2  |

## Opportunities (Work & School)

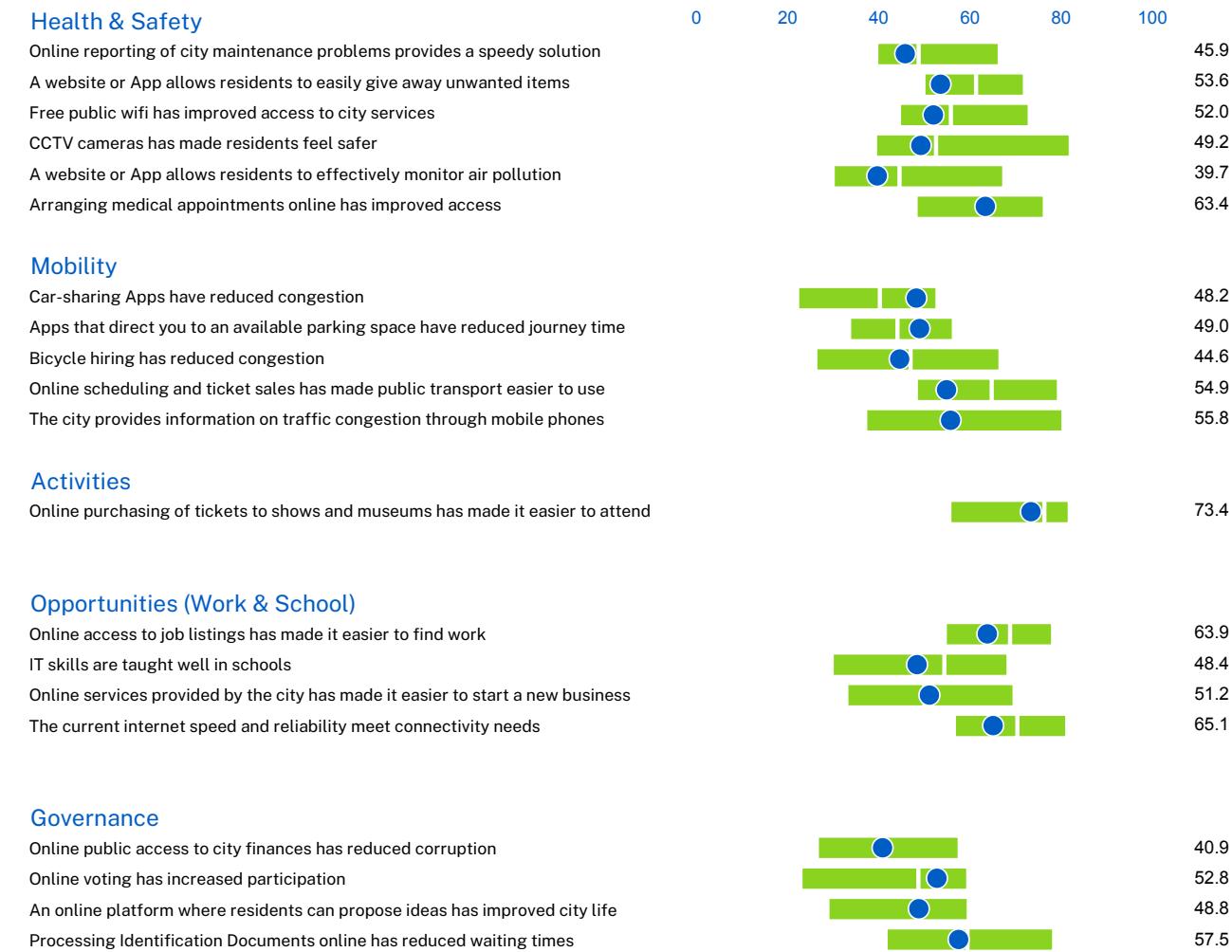
| Opportunities (Work & School)                                      | Score |
|--|-------|
| Employment finding services are readily available                  | 62.7  |
| Most children have access to a good school                         | 50.7  |
| Lifelong learning opportunities are provided by local institutions | 60.4  |
| Businesses are creating new jobs                                   | 61.2  |
| Minorities feel welcome  | 60.9  |

## Governance

| Governance  | Score |
|---|-------|
| Information on local government decisions are easily accessible | 62.8  |
| Corruption of city officials is not an issue of concern         | 35.9  |
| Residents contribute to decision making of local government     | 49.9  |
| Residents provide feedback on local government projects         | 58.3  |

## TECHNOLOGIES

Score



# Wellington

SMART  
CITY  
RANKING  
**30**

Out of 146

28 in 2024  
Out of 142

SMART  
CITY RATING

**A**

BBB in 2024

FACTOR  
RATINGS

**A**

STRUCTURES

**BB**

TECHNOLOGIES

GROUP  
**1**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 380,000  
(UN World Urbanization Prospects)

HDI 0.969  
(Global Data Lab)

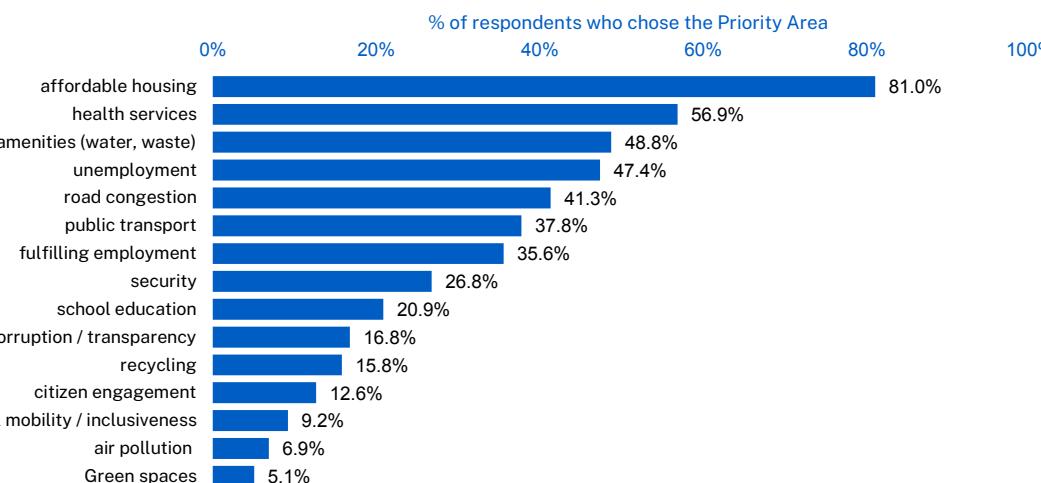


28 in 2024  
Out of 142

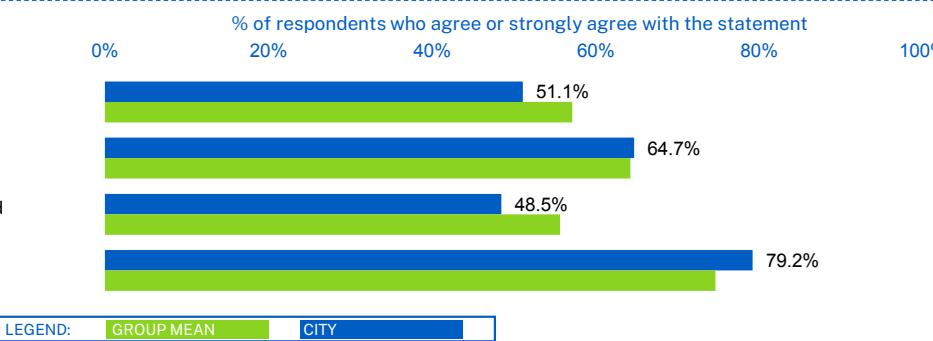
### Country

| New Zealand                 | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.933  | 0.935  | 0.935  | 0.936  | +0.001      |
| Life expectancy at birth    | 82.6   | 82.7   | 82.5   | 83.0   | +0.6        |
| Expected years of schooling | 19.5   | 19.2   | 19.7   | 19.7   | +0.0        |
| Mean years of schooling     | 13.0   | 12.9   | 12.9   | 12.9   | +0.0        |
| GNI per capita (PPP \$)     | 42,210 | 41,225 | 42,850 | 43,665 | +816        |

## PRIORITY AREAS



## ATTITUDES



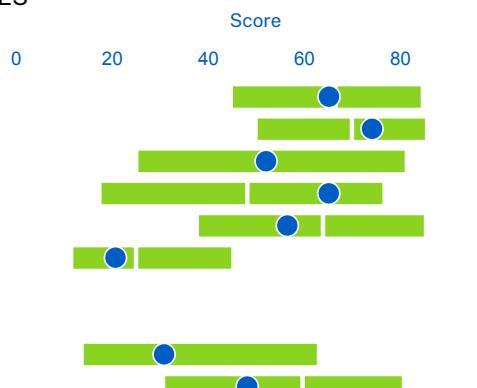
LEGEND: GROUP MEAN CITY

## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem



### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory



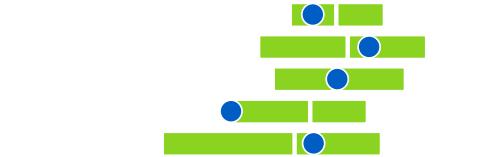
### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory



### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome



### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects



## TECHNOLOGIES



### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access



### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones



### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend



### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs



### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times

## SMART CITY RANKING

**85**

Out of 146



102 in 2024  
Out of 142

## SMART CITY RATING

**B**

B in 2024

## FACTOR RATINGS

**B**

STRUCTURES

## TECHNOLOGIES

**B**

GROUP 2

All ratings range from AAA to D

### BACKGROUND INFORMATION

#### City

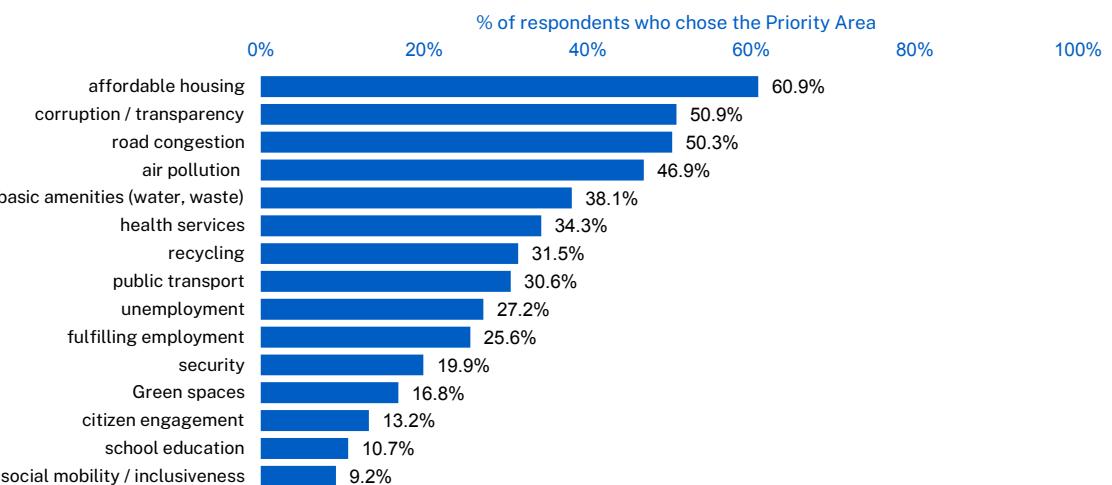
Population 700,000  
(UN World Urbanization Prospects)



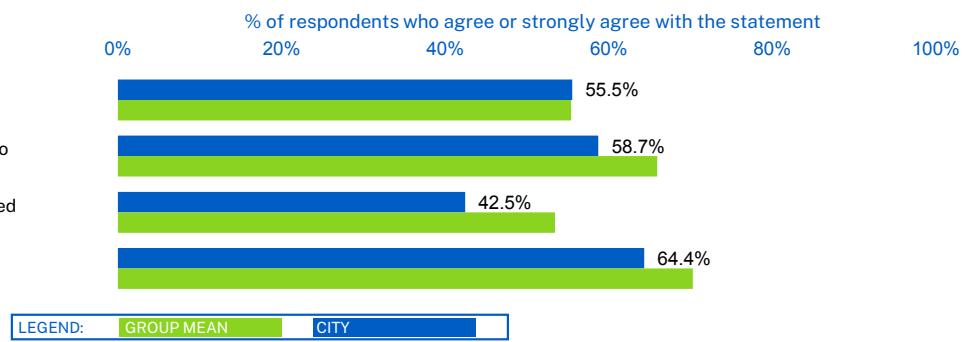
#### Country

| Croatia                     | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.844  | 0.850  | 0.855  | 0.860  | +0.005      |
| Life expectancy at birth    | 78.7   | 78.0   | 77.6   | 79.2   | +1.7        |
| Expected years of schooling | 15.5   | 15.5   | 15.6   | 15.6   | +0.0        |
| Mean years of schooling     | 12.2   | 12.3   | 12.3   | 12.3   | +0.0        |
| GNI per capita (PPP \$)     | 29,373 | 27,624 | 32,073 | 34,324 | +2,251      |

### PRIORITY AREAS



### ATTITUDES



LEGEND: GROUP MEAN CITY

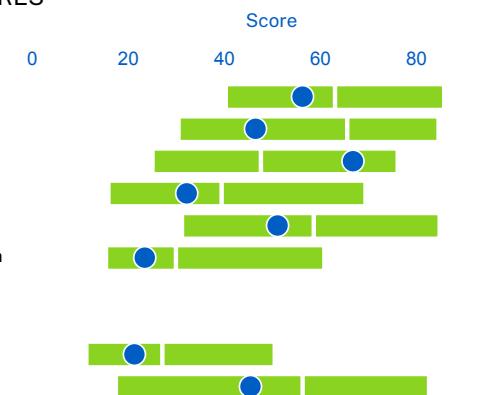
STRUCTURES

### STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

#### Health & Safety

- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem

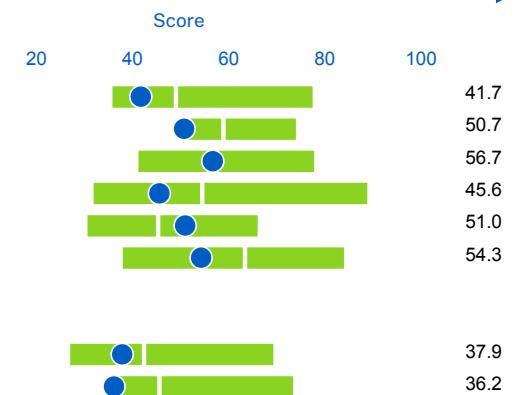


#### Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor air pollution
- Arranging medical appointments online has improved access

### TECHNOLOGIES

### TECHNOLOGIES



#### Mobility

- Traffic congestion is not a problem
- Public transport is satisfactory

21.3  
45.4

#### Mobility

- Car-sharing Apps have reduced congestion
- Apps that direct you to an available parking space have reduced journey time
- Bicycle hiring has reduced congestion
- Online scheduling and ticket sales has made public transport easier to use
- The city provides information on traffic congestion through mobile phones

37.9  
36.2  
43.4  
60.9  
50.5

#### Activities

- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory

62.1  
75.5

#### Activities

- Online purchasing of tickets to shows and museums has made it easier to attend

78.5

#### Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
- Lifelong learning opportunities are provided by local institutions
- Businesses are creating new jobs
- Minorities feel welcome

61.5  
69.9  
57.0  
54.6  
55.2

#### Opportunities (Work & School)

- Online access to job listings has made it easier to find work
- IT skills are taught well in schools
- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs

69.4  
56.2  
52.8  
67.2

#### Governance

- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects

52.2  
27.7  
33.6  
44.3

#### Governance

- Online public access to city finances has reduced corruption
- Online voting has increased participation
- An online platform where residents can propose ideas has improved city life
- Processing Identification Documents online has reduced waiting times

35.9  
33.6  
37.5  
58.6

# Zaragoza

SMART  
CITY  
RANKING  
**52**

Out of 146



57 in 2024  
Out of 142

SMART  
CITY RATING

**BBB**

CCC in 2024

FACTOR  
RATINGS

**BBB**

STRUCTURES

**BBB**

TECHNOLOGIES

**2**

All ratings range  
from AAA to D

## BACKGROUND INFORMATION

### City

Population 670,000  
(UN World Urbanization Prospects)

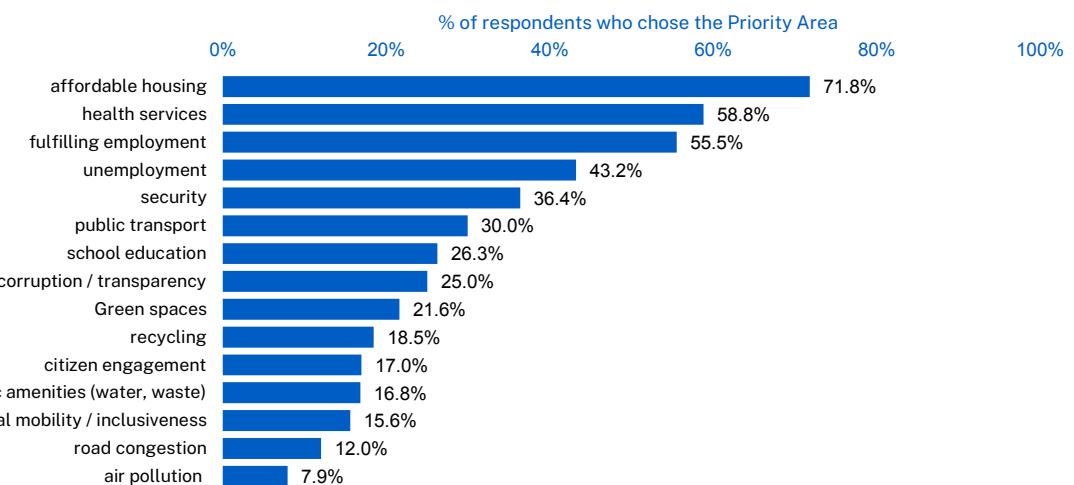
HDI 0.915  
(Global Data Lab)



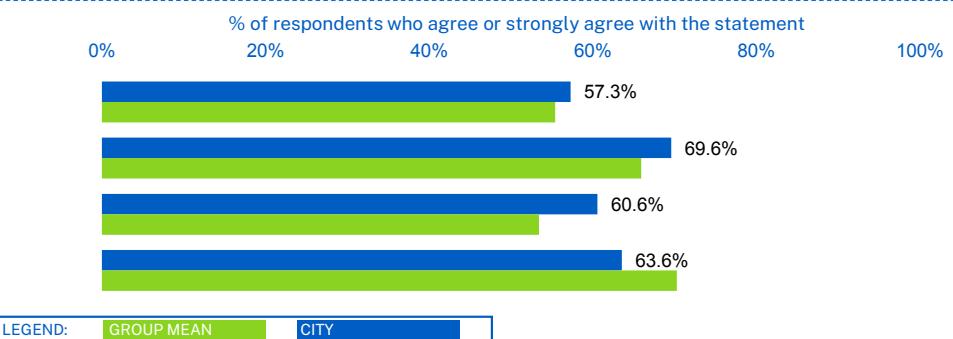
### Country

| Spain                       | 2019   | 2020   | 2021   | 2022   | 1 yr change |
|-----------------------------|--------|--------|--------|--------|-------------|
| HDI                         | 0.889  | 0.894  | 0.896  | 0.899  | +0.003      |
| Life expectancy at birth    | 83.5   | 82.3   | 83.0   | 83.9   | +0.9        |
| Expected years of schooling | 17.5   | 17.5   | 17.8   | 17.8   | +0.0        |
| Mean years of schooling     | 10.4   | 10.6   | 10.6   | 10.6   | +0.0        |
| GNI per capita (PPP \$)     | 40,854 | 36,076 | 38,133 | 40,043 | +1,911      |

## PRIORITY AREAS



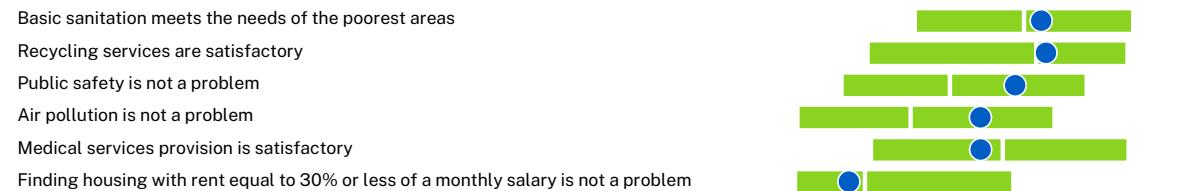
## ATTITUDES



## STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

### Health & Safety



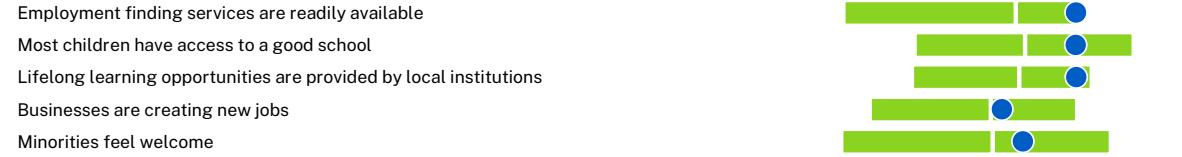
### Mobility



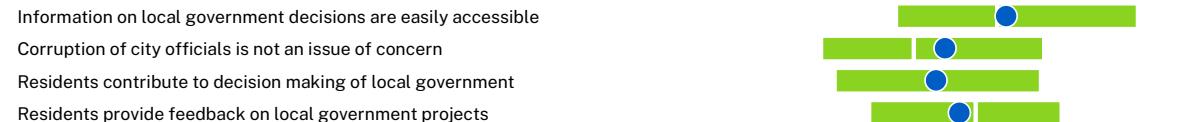
### Activities



### Opportunities (Work & School)



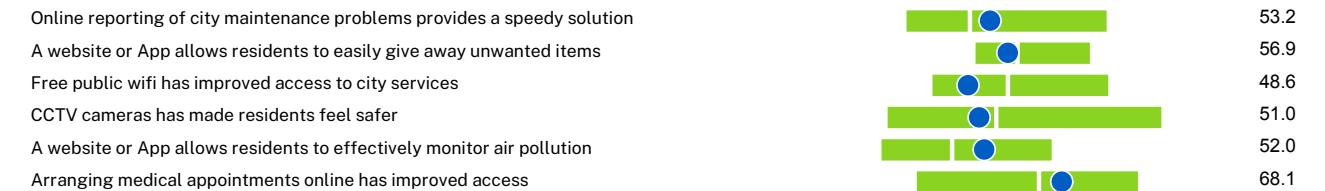
### Governance



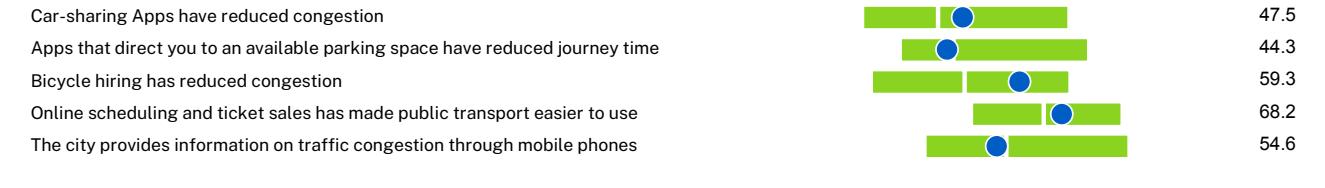
## TECHNOLOGIES

Score

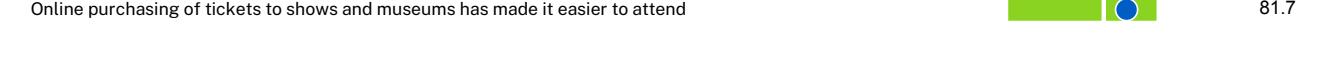
### Health & Safety



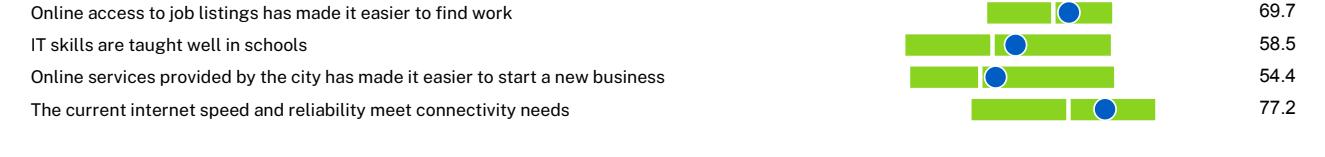
### Mobility



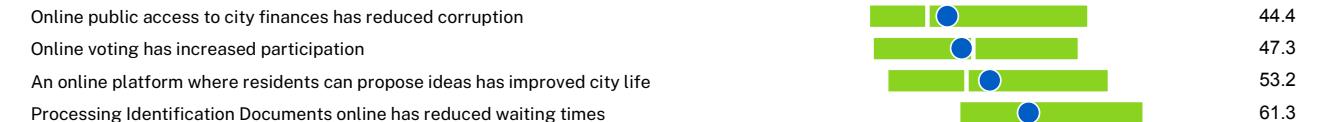
### Activities



### Opportunities (Work & School)



### Governance



## SMART CITY RANKING

**1**

Out of 146

1 in 2024  
Out of 142

## SMART CITY RATING

**AAA**

AAA in 2024

## FACTOR RATINGS

**AAA**

STRUCTURES

**AAA**

TECHNOLOGIES

## GROUP

**1**

All ratings range from AAA to D

### BACKGROUND INFORMATION

#### City

Population 410,000

(Eurostat)

HDI 0.994

(Global Data Lab)



#### Country

Switzerland

| 2019 | 2020 | 2021 | 2022 | 1 yr change |
|------|------|------|------|-------------|
|------|------|------|------|-------------|

HDI 0.952

Life expectancy at birth 83.8

Expected years of schooling 16.3

Mean years of schooling 13.9

GNI per capita (PPP \$) 67,531

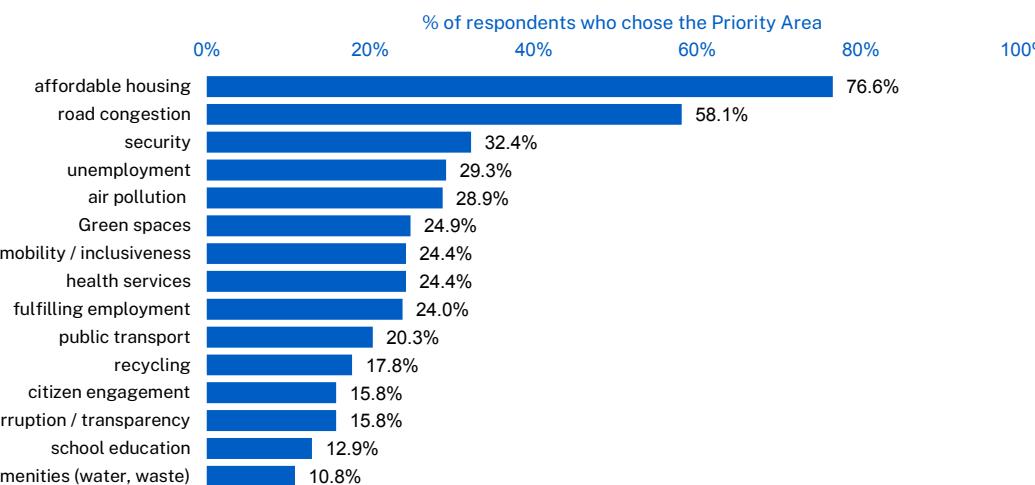
66,267

68,550

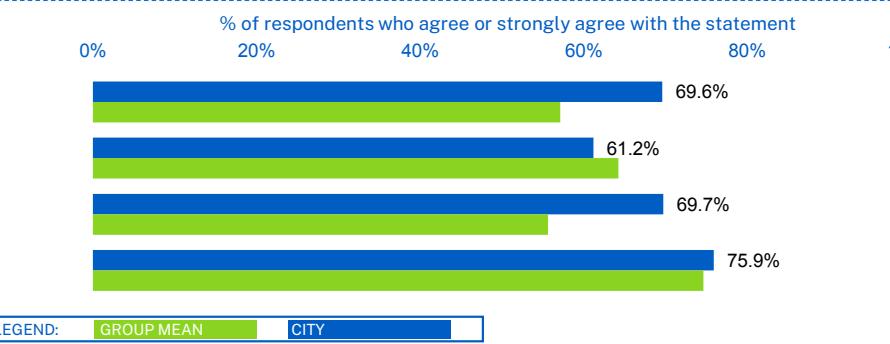
69,433

+882

### PRIORITY AREAS



### ATTITUDES



LEGEND: GROUP MEAN CITY

### STRUCTURES

#### STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

##### Health & Safety

Basic sanitation meets the needs of the poorest areas



Recycling services are satisfactory



Public safety is not a problem



Air pollution is not a problem



Medical services provision is satisfactory



Finding housing with rent equal to 30% or less of a monthly salary is not a problem



##### Mobility

Traffic congestion is not a problem



Public transport is satisfactory



##### Activities

Green spaces are satisfactory



Cultural activities (shows, bars, and museums) are satisfactory



##### Opportunities (Work & School)

Employment finding services are readily available



Most children have access to a good school



Lifelong learning opportunities are provided by local institutions



Businesses are creating new jobs



Minorities feel welcome



##### Governance

Information on local government decisions are easily accessible



Corruption of city officials is not an issue of concern



Residents contribute to decision making of local government



Residents provide feedback on local government projects



### TECHNOLOGIES



##### Health & Safety

Online reporting of city maintenance problems provides a speedy solution



A website or App allows residents to easily give away unwanted items



Free public wifi has improved access to city services



CCTV cameras has made residents feel safer



A website or App allows residents to effectively monitor air pollution

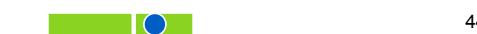


Arranging medical appointments online has improved access



##### Mobility

Car-sharing Apps have reduced congestion



Apps that direct you to an available parking space have reduced journey time



Bicycle hiring has reduced congestion



Online scheduling and ticket sales has made public transport easier to use



The city provides information on traffic congestion through mobile phones



##### Activities

Online purchasing of tickets to shows and museums has made it easier to attend



##### Opportunities (Work & School)

Online access to job listings has made it easier to find work



IT skills are taught well in schools



Online services provided by the city has made it easier to start a new business



The current internet speed and reliability meet connectivity needs



##### Governance

Online public access to city finances has reduced corruption



Online voting has increased participation



An online platform where residents can propose ideas has improved city life



Processing Identification Documents online has reduced waiting times



All ratings range from AAA to D

# IMD Smart City Index

# 2025

Annex

# IMD Smart City Index 2025: Results

In Alphabetical order by city and 2024 comparison

| City       | Smart City Rank 2025 | Smart City Rating 2025 | Structure 2025 | Technology 2025 | Smart City Rank 2024 | Change |
|------------|----------------------|------------------------|----------------|-----------------|----------------------|--------|
| Abu Dhabi  | 5                    | A                      | A              | A               | 10                   | ▲5     |
| Abuja      | 133                  | C                      | C              | D               | 135                  | ▲2     |
| Accra      | 141                  | D                      | D              | D               | 138                  | ▼3     |
| Algiers    | 128                  | C                      | C              | C               | 124                  | ▼4     |
| Al-Khobar  | 61                   | B                      | B              | B               | 99                   | ▲38    |
| AlUla      | 112                  | CC                     | CC             | CC              |                      | NEW    |
| Amman      | 127                  | C                      | C              | C               | 128                  | ▲1     |
| Amsterdam  | 17                   | A                      | AA             | AA              | 18                   | ▲1     |
| Ankara     | 98                   | CCC                    | CCC            | CCC             | 96                   | ▼2     |
| Astana     | 102                  | CC                     | CC             | CCC             |                      | NEW    |
| Athens     | 129                  | CCC                    | CCC            | CCC             | 120                  | ▼9     |
| Auckland   | 25                   | A                      | A              | AA              | 31                   | ▲6     |
| Bangkok    | 86                   | CC                     | CCC            | B               | 84                   | ▼2     |
| Barcelona  | 92                   | CCC                    | B              | BB              | 81                   | ▼11    |
| Beijing    | 14                   | BB                     | BB             | BB              | 13                   | ▼1     |
| Beirut     | 143                  | D                      | D              | D               | 140                  | ▼3     |
| Belfast    | 94                   | CCC                    | CCC            | CC              | 101                  | ▲7     |
| Bengaluru  | 110                  | CC                     | CC             | CC              | 109                  | ▼1     |
| Berlin     | 37                   | A                      | BBB            | BBB             | 37                   | —      |
| Bilbao     | 29                   | A                      | A              | BBB             | 29                   | —      |
| Birmingham | 80                   | B                      | B              | B               | 83                   | ▲3     |
| Bogota     | 134                  | C                      | C              | C               | 127                  | ▼7     |
| Bologna    | 83                   | BB                     | B              | B               | 78                   | ▼5     |
| Bordeaux   | 77                   | B                      | B              | CCC             | 70                   | ▼7     |
| Boston     | 35                   | A                      | BBB            | BBB             | 36                   | ▲1     |

| City         | Smart City Rank 2025 | Smart City Rating 2025 | Structure 2025 | Technology 2025 | Smart City Rank 2024 | Change |
|--------------|----------------------|------------------------|----------------|-----------------|----------------------|--------|
| Brasilia     | 130                  | C                      | C              | C               | 130                  | —      |
| Bratislava   | 57                   | BB                     | BB             | BBB             | 56                   | ▼1     |
| Brisbane     | 51                   | BBB                    | BBB            | BB              | 30                   | ▼21    |
| Brussels     | 48                   | BB                     | BBB            | A               | 40                   | ▼8     |
| Bucharest    | 78                   | CCC                    | BB             | BBB             | 100                  | ▲22    |
| Budapest     | 84                   | CCC                    | B              | BBB             | 89                   | ▲5     |
| Buenos Aires | 131                  | C                      | C              | C               | 123                  | ▼8     |
| Busan        | 60                   | B                      | BB             | A               | 45                   | ▼15    |
| Cairo        | 117                  | C                      | CC             | CC              | 114                  | ▼3     |
| Canberra     | 8                    | AAA                    | AAA            | A               | 3                    | ▼5     |
| Cape Town    | 124                  | C                      | C              | C               | 129                  | ▲5     |
| Caracas      | 140                  | D                      | D              | D               |                      | NEW    |
| Cardiff      | 89                   | B                      | CCC            | CC              | 92                   | ▲3     |
| Chengdu      | 76                   | CCC                    | CCC            | CCC             | 93                   | ▲17    |
| Chicago      | 79                   | B                      | BB             | BB              | 67                   | ▼12    |
| Chongqing    | 69                   | CCC                    | CCC            | CCC             | 82                   | ▲13    |
| Copenhagen   | 7                    | AAA                    | AAA            | AA              | 6                    | ▼1     |
| Delhi        | 104                  | CC                     | CC             | CCC             | 106                  | ▲2     |
| Denver       | 68                   | BB                     | BB             | BB              | 66                   | ▼2     |
| Doha         | 33                   | BB                     | BB             | BB              | 48                   | ▲15    |
| Dubai        | 4                    | A                      | A              | A               | 12                   | ▲8     |
| Dublin       | 66                   | BB                     | BB             | BBB             | 69                   | ▲3     |
| Dusseldorf   | 45                   | BBB                    | BBB            | BB              | 44                   | ▼1     |
| Geneva       | 3                    | AAA                    | AAA            | AAA             | 4                    | ▲1     |
| Glasgow      | 95                   | B                      | CCC            | CCC             | 87                   | ▼8     |

# IMD Smart City Index 2025: Results

In Alphabetical order by city and 2024 comparison

| City             | Smart City Rank 2025 | Smart City Rating 2025 | Structure 2025 | Technology 2025 | Smart City Rank 2024 | Change |
|------------------|----------------------|------------------------|----------------|-----------------|----------------------|--------|
| Gothenburg       | 40                   | BBB                    | BBB            | BB              | 39                   | ▼1     |
| Guangzhou        | 55                   | CCC                    | CCC            | CCC             | 65                   | ▲10    |
| Guatemala City   | 144                  | D                      | D              | D               | 142                  | ▼2     |
| Hamburg          | 20                   | AA                     | A              | BBB             | 14                   | ▼6     |
| Hangzhou         | 54                   | CCC                    | CCC            | CCC             | 64                   | ▲10    |
| Hanoi            | 88                   | CCC                    | CCC            | CCC             | 97                   | ▲9     |
| Hanover          | 59                   | A                      | BBB            | B               | 53                   | ▼6     |
| Helsinki         | 11                   | AA                     | AA             | AA              | 9                    | ▼2     |
| Ho Chi Minh City | 101                  | CCC                    | CCC            | CC              | 105                  | ▲4     |
| Hong Kong        | 19                   | BBB                    | A              | AAA             | 20                   | ▲1     |
| Hyderabad        | 109                  | CCC                    | CC             | CC              | 111                  | ▲2     |
| Islamabad        | 116                  | CC                     | CC             | CC              | 116                  | —      |
| Istanbul         | 111                  | C                      | CC             | CCC             | 110                  | ▼1     |
| Jakarta          | 103                  | CC                     | CCC            | CCC             | 103                  | —      |
| Jeddah           | 47                   | B                      | BB             | BB              | 55                   | ▲8     |
| Kiel             | 74                   | BBB                    | BB             | CCC             | 79                   | ▲5     |
| Krakow           | 70                   | B                      | B              | B               | 76                   | ▲6     |
| Kuala Lumpur     | 65                   | B                      | B              | B               | 73                   | ▲8     |
| Kuwait City      | 90                   | CCC                    | CCC            | B               |                      | NEW    |
| Lagos            | 135                  | C                      | C              | D               | 136                  | ▲1     |
| Lausanne         | 10                   | AAA                    | AA             | AA              | 7                    | ▼3     |
| Leeds            | 72                   | BB                     | BB             | B               | 72                   | —      |
| Lille            | 93                   | CCC                    | CCC            | CCC             | 85                   | ▼8     |
| Lima             | 138                  | C                      | C              | C               | 134                  | ▼4     |
| Lisbon           | 115                  | CC                     | CC             | CC              | 108                  | ▼7     |

| City        | Smart City Rank 2025 | Smart City Rating 2025 | Structure 2025 | Technology 2025 | Smart City Rank 2024 | Change |
|-------------|----------------------|------------------------|----------------|-----------------|----------------------|--------|
| Ljubljana   | 16                   | AA                     | AA             | AA              | 32                   | ▲16    |
| London      | 6                    | AA                     | AAA            | AAA             | 8                    | ▲2     |
| Los Angeles | 91                   | B                      | B              | BB              | 68                   | ▼23    |
| Luxembourg  | 31                   | A                      | A              | BBB             | 27                   | ▼4     |
| Lyon        | 73                   | B                      | BB             | BB              | 61                   | ▼12    |
| Madrid      | 38                   | BB                     | BBB            | A               | 35                   | ▼3     |
| Makassar    | 114                  | CC                     | CC             | CC              | 115                  | ▲1     |
| Manama      | 36                   | BB                     | BB             | BB              |                      | NEW    |
| Manchester  | 64                   | BB                     | BB             | BBB             | 71                   | ▲7     |
| Manila      | 125                  | C                      | C              | C               | 121                  | ▼4     |
| Marseille   | 107                  | CCC                    | CCC            | CCC             | 104                  | ▼3     |
| Mecca       | 39                   | BB                     | BB             | BB              | 52                   | ▲13    |
| Medan       | 113                  | CC                     | CC             | CC              | 112                  | ▼1     |
| Medellin    | 118                  | CC                     | CC             | CC              | 119                  | ▲1     |
| Medina      | 67                   | CCC                    | B              | B               | 74                   | ▲7     |
| Melbourne   | 44                   | BBB                    | BBB            | BB              | 33                   | ▼11    |
| Mexico City | 119                  | C                      | CC             | CC              | 122                  | ▲3     |
| Milan       | 97                   | CCC                    | CCC            | BB              | 91                   | ▼6     |
| Montreal    | 81                   | BB                     | B              | CCC             | 80                   | ▼1     |
| Mumbai      | 106                  | CC                     | CC             | CC              | 107                  | ▲1     |
| Munich      | 24                   | A                      | A              | A               | 21                   | ▼3     |
| Muscat      | 87                   | CCC                    | CCC            | CCC             | 88                   | ▲1     |
| Nairobi     | 136                  | D                      | D              | C               | 131                  | ▼5     |
| Nanjing     | 58                   | B                      | B              | B               | 62                   | ▲4     |
| New York    | 49                   | BB                     | BBB            | BBB             | 34                   | ▼15    |

# IMD Smart City Index 2025: Results

In Alphabetical order by city and 2024 comparison

| City           | Smart City Rank 2025 | Smart City Rating 2025 | Structure 2025 | Technology 2025 | Smart City Rank 2024 | Change |
|----------------|----------------------|------------------------|----------------|-----------------|----------------------|--------|
| Newcastle      | 75                   | BB                     | B              | CCC             | 77                   | ▲2     |
| Nicosia        | 122                  | CC                     | C              | C               | 118                  | ▼4     |
| Osaka          | 99                   | BB                     | CCC            | CCC             | 95                   | ▼4     |
| Oslo           | 2                    | AAA                    | AAA            | AAA             | 2                    | —      |
| Ottawa         | 42                   | A                      | BBB            | B               | 46                   | ▲4     |
| Paris          | 71                   | BB                     | BB             | A               | 49                   | ▼22    |
| Philadelphia   | 100                  | CCC                    | CCC            | CCC             | 90                   | ▼10    |
| Phoenix        | 105                  | CCC                    | CC             | C               | 98                   | ▼7     |
| Prague         | 12                   | AA                     | AA             | AA              | 15                   | ▲3     |
| Rabat          | 123                  | CC                     | C              | C               | 126                  | ▲3     |
| Reykjavik      | 21                   | AA                     | A              | A               | 26                   | ▲5     |
| Riga           | 46                   | BBB                    | BBB            | BBB             | 59                   | ▲13    |
| Rio de Janeiro | 146                  | D                      | D              | D               | 139                  | ▼7     |
| Riyadh         | 27                   | BB                     | BB             | BB              | 25                   | ▼2     |
| Rome           | 139                  | CCC                    | CCC            | CCC             | 133                  | ▼6     |
| Rotterdam      | 41                   | BB                     | BBB            | BBB             | 41                   | —      |
| San Francisco  | 82                   | BB                     | B              | B               | 75                   | ▼7     |
| San José       | 126                  | CC                     | C              | C               | 125                  | ▼1     |
| San Juan       | 132                  | C                      | C              | C               |                      | NEW    |
| Sana'a         | 145                  | D                      | D              | D               | 141                  | ▼4     |
| Santiago       | 120                  | C                      | CC             | CC              | 117                  | ▼3     |
| Sao Paulo      | 137                  | D                      | D              | C               | 132                  | ▼5     |
| Seattle        | 56                   | BBB                    | BB             | BB              | 63                   | ▲7     |

| City            | Smart City Rank 2025 | Smart City Rating 2025 | Structure 2025 | Technology 2025 | Smart City Rank 2024 | Change |
|-----------------|----------------------|------------------------|----------------|-----------------|----------------------|--------|
| Seoul           | 13                   | BBB                    | AA             | AAA             | 17                   | ▲4     |
| Shanghai        | 15                   | BB                     | BB             | BB              | 19                   | ▲4     |
| Shenzhen        | 50                   | CCC                    | CCC            | CCC             | 60                   | ▲10    |
| Singapore       | 9                    | AAA                    | AAA            | AAA             | 5                    | ▼4     |
| Sofia           | 121                  | CC                     | C              | CC              | 113                  | ▼8     |
| Stockholm       | 18                   | AA                     | AA             | A               | 11                   | ▼7     |
| Sydney          | 32                   | A                      | A              | A               | 22                   | ▼10    |
| Taipei City     | 23                   | A                      | A              | A               | 16                   | ▼7     |
| Tallinn         | 22                   | A                      | A              | A               | 24                   | ▲2     |
| Tel Aviv        | 96                   | B                      | CCC            | B               | 94                   | ▼2     |
| The Hague       | 43                   | BBB                    | BBB            | BBB             | 42                   | ▼1     |
| Tokyo           | 108                  | BB                     | BB             | BB              | 86                   | ▼22    |
| Toronto         | 63                   | BBB                    | BB             | BB              | 51                   | ▼12    |
| Tunis           | 142                  | D                      | D              | D               | 137                  | ▼5     |
| Vancouver       | 53                   | BBB                    | BB             | BB              | 43                   | ▼10    |
| Vienna          | 26                   | A                      | A              | A               | 23                   | ▼3     |
| Vilnius         | 34                   | BBB                    | A              | A               | 47                   | ▲13    |
| Warsaw          | 28                   | BBB                    | A              | A               | 38                   | ▲10    |
| Washington D.C. | 62                   | BB                     | BB             | BB              | 50                   | ▼12    |
| Wellington      | 30                   | A                      | A              | BB              | 28                   | ▼2     |
| Zagreb          | 85                   | B                      | B              | B               | 102                  | ▲17    |
| Zaragoza        | 52                   | BBB                    | BBB            | BBB             | 57                   | ▲5     |
| Zurich          | 1                    | AAA                    | AAA            | AAA             | 1                    | —      |

# IMD Smart City Index 2025: Results

In alphabetical order by country with HDI context

| Country   | Country HDI | City           | City HDI | Smart City Rank 2025 |
|-----------|-------------|----------------|----------|----------------------|
| Algeria   | 0.74        | Algiers        | 0.766    | 128                  |
| Argentina | 0.852       | Buenos Aires   | 0.851    | 131                  |
| Australia | 0.941       | Brisbane       | 0.935    | 51                   |
| Australia | 0.941       | Canberra       | 0.976    | 8                    |
| Australia | 0.941       | Melbourne      | 0.942    | 44                   |
| Australia | 0.941       | Sydney         | 0.946    | 32                   |
| Austria   | 0.917       | Vienna         | 0.948    | 26                   |
| Bahrain   | 0.88        | Manama         | 0.888    | 36                   |
| Belgium   | 0.933       | Brussels       | 0.96     | 48                   |
| Brazil    | 0.762       | Brasilia       | 0.822    | 130                  |
| Brazil    | 0.762       | Rio de Janeiro | 0.789    | 146                  |
| Brazil    | 0.762       | Sao Paulo      | 0.786    | 137                  |
| Bulgaria  | 0.811       | Sofia          | 0.856    | 121                  |
| Canada    | 0.93        | Montreal       | 0.926    | 81                   |
| Canada    | 0.93        | Ottawa         | 0.942    | 42                   |
| Canada    | 0.93        | Toronto        | 0.942    | 63                   |
| Canada    | 0.93        | Vancouver      | 0.946    | 53                   |
| Chile     | 0.856       | Santiago       | 0.89     | 120                  |
| China     | 0.766       | Beijing        | 0.905    | 14                   |
| China     | 0.766       | Chengdu        | 0.762    | 76                   |
| China     | 0.766       | Chongqing      | 0.795    | 69                   |
| China     | 0.766       | Guangzhou      | 0.813    | 55                   |
| China     | 0.766       | Hangzhou       | 0.814    | 54                   |
| China     | 0.766       | Nanjing        | 0.827    | 58                   |
| China     | 0.766       | Shanghai       | 0.895    | 15                   |

| Country    | Country HDI | City           | City HDI | Smart City Rank 2025 |
|------------|-------------|----------------|----------|----------------------|
| China      | 0.766       | Shenzhen       | 0.813    | 50                   |
| Colombia   | 0.766       | Bogota         | 0.804    | 134                  |
| Colombia   | 0.766       | Medellin       | 0.763    | 118                  |
| Costa Rica | 0.804       | San José       | 0.824    | 126                  |
| Croatia    | 0.86        | Zagreb         | 0.938    | 85                   |
| Cyprus     | 0.896       | Nicosia        | 0.907    | 122                  |
| Czech Rep. | 0.893       | Prague         | 0.965    | 12                   |
| Denmark    | 0.942       | Copenhagen     | 0.97     | 7                    |
| Egypt      | 0.717       | Cairo          | 0.777    | 117                  |
| Estonia    | 0.89        | Tallinn        | 0.941    | 22                   |
| Finland    | 0.936       | Helsinki       | 0.961    | 11                   |
| France     | 0.903       | Bordeaux       | 0.907    | 77                   |
| France     | 0.903       | Lille          | 0.888    | 93                   |
| France     | 0.903       | Lyon           | 0.923    | 73                   |
| France     | 0.903       | Marseille      | 0.912    | 107                  |
| France     | 0.903       | Paris          | 0.956    | 71                   |
| Germany    | 0.946       | Berlin         | 0.967    | 37                   |
| Germany    | 0.946       | Dusseldorf     | 0.946    | 45                   |
| Germany    | 0.946       | Hamburg        | 0.975    | 20                   |
| Germany    | 0.946       | Hanover        | 0.936    | 59                   |
| Germany    | 0.946       | Kiel           | 0.929    | 74                   |
| Germany    | 0.946       | Munich         | 0.958    | 24                   |
| Ghana      | 0.589       | Accra          | 0.67     | 141                  |
| Greece     | 0.886       | Athens         | 0.918    | 129                  |
| Guatemala  | 0.64        | Guatemala City | 0.723    | 144                  |

# IMD Smart City Index 2025: Results

In alphabetical order by country with HDI context

| Country     | Country HDI | City        | City HDI | Smart City Rank 2025 |
|-------------|-------------|-------------|----------|----------------------|
| Hong Kong   | 0.949       | Hong Kong   | 0.956    | 19                   |
| Hungary     | 0.85        | Budapest    | 0.934    | 84                   |
| Iceland     | 0.958       | Reykjavik   | 0.959    | 21                   |
| India       | 0.636       | Bengaluru   | 0.673    | 110                  |
| India       | 0.636       | Delhi       | 0.734    | 104                  |
| India       | 0.636       | Hyderabad   | 0.66     | 109                  |
| India       | 0.636       | Mumbai      | 0.695    | 106                  |
| Indonesia   | 0.712       | Jakarta     | 0.767    | 103                  |
| Indonesia   | 0.712       | Makassar    | 0.707    | 114                  |
| Indonesia   | 0.712       | Medan       | 0.719    | 113                  |
| Ireland     | 0.938       | Dublin      | 0.954    | 66                   |
| Israel      | 0.908       | Tel Aviv    | 0.915    | 96                   |
| Italy       | 0.894       | Bologna     | 0.935    | 83                   |
| Italy       | 0.894       | Milan       | 0.927    | 97                   |
| Italy       | 0.894       | Rome        | 0.929    | 139                  |
| Japan       | 0.917       | Osaka       | 0.922    | 99                   |
| Japan       | 0.917       | Tokyo       | 0.946    | 108                  |
| Jordan      | 0.742       | Amman       | 0.753    | 127                  |
| Kazakhstan  | 0.804       | Astana      | 0.816    | 102                  |
| Kenya       | 0.598       | Nairobi     | 0.663    | 136                  |
| Korea South | 0.918       | Busan       | 0.926    | 60                   |
| Korea South | 0.918       | Seoul       | 0.961    | 13                   |
| Kuwait      | 0.836       | Kuwait City | 0.845    | 90                   |
| Latvia      | 0.868       | Riga        | 0.937    | 46                   |
| Lebanon     | 0.764       | Beirut      | 0.693    | 143                  |

| Country      | Country HDI | City         | City HDI | Smart City Rank 2025 |
|--------------|-------------|--------------|----------|----------------------|
| Lithuania    | 0.882       | Vilnius      | 0.918    | 34                   |
| Luxembourg   | 0.921       | Luxembourg   | 0.927    | 31                   |
| Malaysia     | 0.802       | Kuala Lumpur | 0.863    | 65                   |
| Mexico       | 0.779       | Mexico City  | 0.839    | 119                  |
| Morocco      | 0.677       | Rabat        | 0.717    | 123                  |
| Netherlands  | 0.939       | Amsterdam    | 0.964    | 17                   |
| Netherlands  | 0.939       | Rotterdam    | 0.946    | 41                   |
| Netherlands  | 0.939       | The Hague    | 0.946    | 43                   |
| New Zealand  | 0.936       | Auckland     | 0.968    | 25                   |
| New Zealand  | 0.936       | Wellington   | 0.969    | 30                   |
| Nigeria      | 0.53        | Abuja        | 0.678    | 133                  |
| Nigeria      | 0.53        | Lagos        | 0.721    | 135                  |
| Norway       | 0.96        | Oslo         | 0.982    | 2                    |
| Oman         | 0.838       | Muscat       | 0.819    | 87                   |
| Pakistan     | 0.535       | Islamabad    | 0.654    | 116                  |
| Peru         | 0.77        | Lima         | 0.82     | 138                  |
| Philippines  | 0.706       | Manila       | 0.743    | 125                  |
| Poland       | 0.876       | Krakow       | 0.891    | 70                   |
| Poland       | 0.876       | Warsaw       | 0.931    | 28                   |
| Portugal     | 0.858       | Lisbon       | 0.907    | 115                  |
| Puerto Rico  | 0.88        | San Juan     | 0.88     | 132                  |
| Qatar        | 0.866       | Doha         | 0.875    | 33                   |
| Romania      | 0.829       | Bucharest    | 0.926    | 78                   |
| Saudi Arabia | 0.856       | Al-Khobar    | 0.862    | 61                   |
| Saudi Arabia | 0.856       | AlUla        | 0.871    | 112                  |

# IMD Smart City Index 2025: Results

In alphabetical order by country with HDI context

| Country              | Country HDI | City        | City HDI | Smart City Rank 2025 |
|----------------------|-------------|-------------|----------|----------------------|
| Saudi Arabia         | 0.856       | Jeddah      | 0.871    | 47                   |
| Saudi Arabia         | 0.856       | Mecca       | 0.871    | 39                   |
| Saudi Arabia         | 0.856       | Medina      | 0.871    | 67                   |
| Saudi Arabia         | 0.856       | Riyadh      | 0.899    | 27                   |
| Singapore            | 0.942       | Singapore   | 0.949    | 9                    |
| Slovakia             | 0.86        | Bratislava  | 0.945    | 57                   |
| Slovenia             | 0.916       | Ljubljana   | 0.97     | 16                   |
| South Africa         | 0.731       | Cape Town   | 0.755    | 124                  |
| Spain                | 0.899       | Barcelona   | 0.922    | 92                   |
| Spain                | 0.899       | Bilbao      | 0.939    | 29                   |
| Spain                | 0.899       | Madrid      | 0.942    | 38                   |
| Spain                | 0.899       | Zaragoza    | 0.915    | 52                   |
| Sweden               | 0.943       | Gothenburg  | 0.951    | 40                   |
| Sweden               | 0.943       | Stockholm   | 0.976    | 18                   |
| Switzerland          | 0.957       | Geneva      | 0.973    | 3                    |
| Switzerland          | 0.957       | Lausanne    | 0.973    | 10                   |
| Switzerland          | 0.957       | Zurich      | 0.994    | 1                    |
| Taiwan               | 0.925       | Taipei City | 0.925    | 23                   |
| Thailand             | 0.796       | Bangkok     | 0.836    | 86                   |
| Tunisia              | 0.737       | Tunis       | 0.777    | 142                  |
| Türkiye              | 0.838       | Ankara      | 0.871    | 98                   |
| Türkiye              | 0.838       | Istanbul    | 0.888    | 111                  |
| United Arab Emirates | 0.917       | Abu Dhabi   | 0.937    | 5                    |

| Country              | Country HDI | City             | City HDI | Smart City Rank 2025 |
|----------------------|-------------|------------------|----------|----------------------|
| United Arab Emirates | 0.917       | Dubai            | 0.937    | 4                    |
| United Kingdom       | 0.928       | Belfast          | 0.907    | 94                   |
| United Kingdom       | 0.928       | Birmingham       | 0.925    | 80                   |
| United Kingdom       | 0.928       | Cardiff          | 0.91     | 89                   |
| United Kingdom       | 0.928       | Glasgow          | 0.933    | 95                   |
| United Kingdom       | 0.928       | Leeds            | 0.92     | 72                   |
| United Kingdom       | 0.928       | London           | 0.984    | 6                    |
| United Kingdom       | 0.928       | Manchester       | 0.927    | 64                   |
| United Kingdom       | 0.928       | Newcastle        | 0.911    | 75                   |
| USA                  | 0.93        | Boston           | 0.956    | 35                   |
| USA                  | 0.93        | Chicago          | 0.932    | 79                   |
| USA                  | 0.93        | Denver           | 0.952    | 68                   |
| USA                  | 0.93        | Los Angeles      | 0.935    | 91                   |
| USA                  | 0.93        | New York         | 0.937    | 49                   |
| USA                  | 0.93        | Philadelphia     | 0.928    | 100                  |
| USA                  | 0.93        | Phoenix          | 0.906    | 105                  |
| USA                  | 0.93        | San Francisco    | 0.935    | 82                   |
| USA                  | 0.93        | Seattle          | 0.952    | 56                   |
| USA                  | 0.93        | Washington D.C.  | 0.947    | 62                   |
| Venezuela            | 0.738       | Caracas          | 0.743    | 140                  |
| Vietnam              | 0.711       | Hanoi            | 0.768    | 88                   |
| Vietnam              | 0.711       | Ho Chi Minh City | 0.737    | 101                  |
| Yemen                | 0.427       | Sana'a           | 0.466    | 145                  |

