

IMD Smart City Index 2024

IMD / World Competitiveness
Center

In partnership with
WeGO
World Smart Sustainable Cities Organization



“I have never felt salvation in nature. I love cities above all.”

— Michelangelo

“The mark of a great city isn’t how it treats its special places – everybody does that right – but how it treats its ordinary ones.”

— Aaron M. Renn
(The Urban State of Mind:
Meditations on the City)

IMD Smart City Index

2024

Introduction

A stable and mature dataset

IMD Smart City Index 2024

Introduction: a stable and mature dataset

Welcome to the 2024 edition of the IMD Smart City Index.

Following the methodological changes made last year, the IMD Smart City Index (SCI) has now reached what can be considered as its stable configuration – its cruising altitude. Analysts and users of the SCI can now use reliable time series (across five years) to make meaningful comparisons between the performance of specific cities across time. As we have often underlined before – and as is always true with any kind of complex composite index – one should be careful not to read too much into year-to-year comparisons. We are proud that the SCI has now reached the stage at which comparisons can be made on a moving average basis, which is much more meaningful from a number of perspectives, as will be illustrated below.

We are delighted to continue working in partnership with WeGO. In 2023, it allowed us to further our thinking about the composition, architecture, and methodology of the index. It also provided opportunities to heighten the index's visibility and bring it closer to the concerns and strategies of city leaders around the world, a central part of this being the Seoul Smart City Prize meeting of September 2023.

This year's ranking is characterized by a high degree of stability. The index's coverage remains practically the same (142 cities are included, as opposed to 141 in the previous edition), and its list of leading cities (the top 20) remains very much the same as last year. The cities that continue to perform highly (i.e. that edge up the rankings or barely shift¹) are also very much the same as last year's. The SCI methodology has also entered its age of maturity, and as such the data used in 2024 is very much the same as that used in 2023.²

The SCI was designed as a tool for action. Since it is based on people's perceptions (captured via surveys), it is critical that the answers are calibrated to the specific context of the cities assessed. Until the 2021 edition of the report, we relied on country-level HDI data (provided by the UNDP, or United Nations Development Programme). In 2022, we explored the possibility of using city-level HDI data, which provides a more granular, and therefore realistic, vision of the socio-economic environment of specific cities. In 2023, we 'built back' the SCI time series based on this updated methodology to allow for meaningful time comparisons. The 2024 edition is the first ever in which moving averages – typically calculated over three consecutive editions of the SCI report – can be analyzed.

Against this background of stability and maturity of the SCI, several important messages emerge from this year's data, as well as from the enhanced capabilities the index offers to compare them across time:

1

The global landscape of smart cities continues to change, but such changes are more spectacular among middle-ranking cities than among the top performers.

2

The experience of SCI champions (now enriched by the new analytical possibilities offered by a mature SCI³) continues to be a possible source of inspiration for all cities across the world.

3

Globally, as the world continues to change rapidly in the face of increased uncertainties, cities are places where new solutions and ways to be future-ready are emerging. In such a world, digital inequalities take on a new meaning.

¹ Given the new possibility offered by SCI to use moving averages, this continuous level of high performance has been redefined on the basis of average ranking on three-year periods (2019-2021, 2020-2023, and 2021-2024), as explained later in this section.

² For a complete description of the SCI methodology, please see the relevant section of the report's website.

³ In particular, the way we can now look at the dynamic performance of such champions through three-year moving averages.

IMD Smart City Index 2024

Introduction: a stable and mature dataset

1

The global landscape of smart cities continues to change but at a slower pace than in recent years. At the top, it is becoming even more of an Asia-Europe game.

One of the signs that the Smart City Index has reached maturity can be found in its ability to call on significant time series, spanning the 2019-2024 period. This new situation also allows observers and analysts to take a step back from 'year-to-year' comparisons, which can be both perilous and misleading.

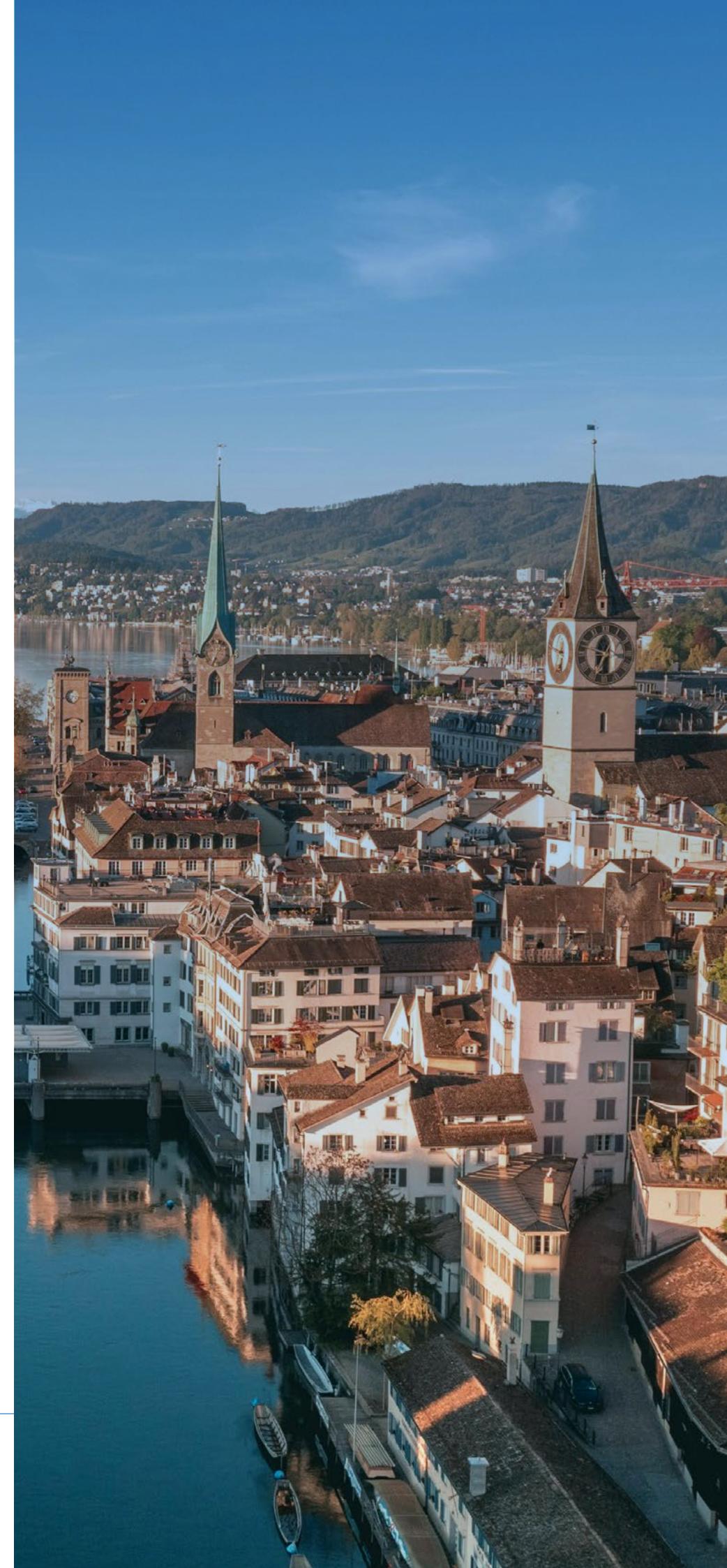
Regarding 2024 data, the top 20 cities remain largely those seen in 2023.

1	Zurich
2	Oslo
3	Canberra
4	Geneva
5	Singapore
6	Copenhagen
7	Lausanne
8	London
9	Helsinki
10	Abu Dhabi

11	Stockholm
12	Dubai
13	Beijing
14	Hamburg
15	Prague
16	Taipei City
17	Seoul
18	Amsterdam
19	Shanghai
20	Hong Kong

Apart from the rather spectacular progression of Taipei City (which enters the top 20 for the first time), most other SCI leaders remain largely where they were in 2023. However, the absence of any North American city in the top 20 is conspicuous. Using three-year moving averages (i.e. comparing a city's average ranking for the period 2021-24 to that of the period 2020-23), a significant number of US cities have been losing ground. This is the case in particular for Washington DC, Denver, and Los Angeles (-12, -12, and -11 respectively), but also for San Francisco (-9), New York City (-7), and Chicago (-4).

Canadian cities seem to follow the same movement, with Ottawa moving down three positions and Montreal nine. A more detailed look into the data shows that several key areas of concern have grown in most Northern American cities, especially infrastructure and safety. On the contrary, overall quality of life has played a positive role in an increasing number of European cities.



IMD Smart City Index 2024

Introduction: a stable and mature dataset

2

SCI super-champions continue to show the way by maintaining high performance levels.
A few fast-moving contenders are on their heels.

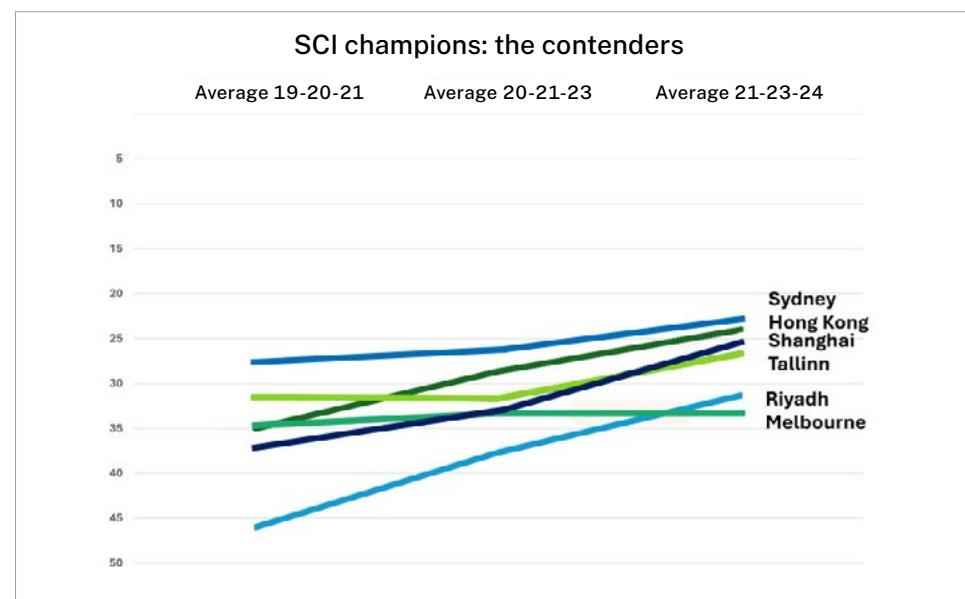
Using a definition of ‘SCI champions’ as those cities that (since the creation of the SCI in 2019) have never dropped in terms of average rankings established for three years (moving average), twelve cities stand out.

Within that group of 12, we can further distinguish two sub-groups, namely (1) that of the ‘super-champions’ (currently members of the SCI top 20), and (2) that of the ‘fast-moving contenders’ (currently ranked between 20 and 35).

Based on the period covered by all previous editions of the SCI Report, super-champions (ranked in the top 20) include six cities: Zurich, Oslo, Singapore, Abu Dhabi, Beijing, and Seoul.



On the same basis, the group of fast-moving contenders (ranked between 20 and 40) is also composed of six cities: Sydney, Hong Kong, Shanghai, Tallinn⁴, Riyadh and Melbourne.



What do these champions have in common? With very few exceptions, cities in the top 20 are geographically located in areas where social and economic environments are relatively predictable, even against the overall climate of global uncertainties. They are also cities in which visible initiatives have been taken to facilitate the lives of citizens (e.g., by developing public transportation networks or eco-compatible mobilities), and to improve the overall ‘quality of life’ associated with their respective names.

Relative to specific local conditions, culture, and history, such initiatives have focused on developing green spaces and broadening opportunities for cultural events and social bonding, for example. In the majority of these leading cities, such efforts have been combined with innovative strategies to attract and retain talent, foster investment in a selective fashion (e.g. pro-sustainability), and tackle longstanding issues regarding geographical inequalities and inclusion.

⁴ Tallinn started to be included in the index in 2020. The first data point hence reflects only a two-editions moving average.

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Introduction: a stable and mature dataset

3

Faced with growing uncertainties, cities are on new paths toward future readiness.
Addressing digital divides is a priority.

Like most other economic agents, cities have to design and adopt strategies that will resist the test of a future plagued with growing uncertainties. As was underlined in previous editions of the Smart City Index Report – as well as in the accompanying book ‘Cities in Times of Global Emergencies’ (2022) – it is vital that such strategies should increase the resilience of cities, without compromising their fundamental goals, aspirations, and principles. Health-related concerns remain high, while climate-related ones grow even larger. This combination is now compounded by the emergence of renewed international tensions, both economic and geopolitical.

What can cities do in such a context? In other words, how can they remain future-ready if they cannot link their efforts to any credible scenario? The examples set by SCI champions suggest a few possible innovative paths in this respect. Three major principles seem to emerge as effective ways to keep cities at the forefront of future readiness. They can be summarized as follows:

1

Identify and consolidate existing comparative advantages: geographical situation, natural environment, and particular strengths based on history and culture. Incidentally, such advantages and strengths can just as likely be linked to those of the country where a particular city happens to be, or –on the contrary– have a different branding strategy vis-à-vis that country.

2

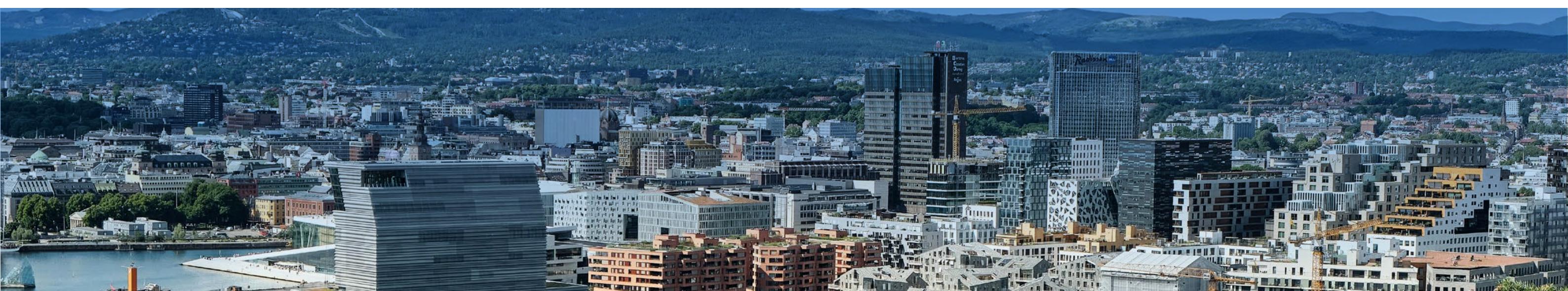
Single out the particular strengths existing locally that match key emerging trends likely to shape the future. The existence of a high-quality education system (possibly with the presence of one or several first-tier universities or business schools) would be one key example, as assets allowing a city to be labeled as ‘globally connected’ (airports, road/rail networks, for example).

3

Align (or re-align) resources to fit local strategies to emerging trends (sustainability, inclusion, digital).

A special note on the digital transformation of cities. It is clear that – whatever the level of surrounding uncertainties – the future of cities will be increasingly digital. The rapid spread of artificial intelligence across municipal services (traffic, surveillance, energy consumption, for instance) has raised both new hopes and new concerns. Trust and governance will be key ingredients in making cities both future-ready and human-centric. In other words, to make tomorrow’s cities green, digital, and human-centric we will need to give more attention to talent strategies, education, and openness (for instance, for trade, investment, and exchanges of experiences).

In that context, combining inclusion and digitalization will remain a challenge for all kinds of cities. It will be even more visible in those that claim to be (or become) smart cities: not leaving anyone behind (though design, infrastructure, education, and policies will remain a motto for those who want to be – or remain – at the top of SCI rankings). Giving special attention to vulnerable groups (aging people, people with disabilities, marginalized groups, but also small enterprises and startups) will require strategic approaches, and possibly a redefinition of ‘digital divides’.



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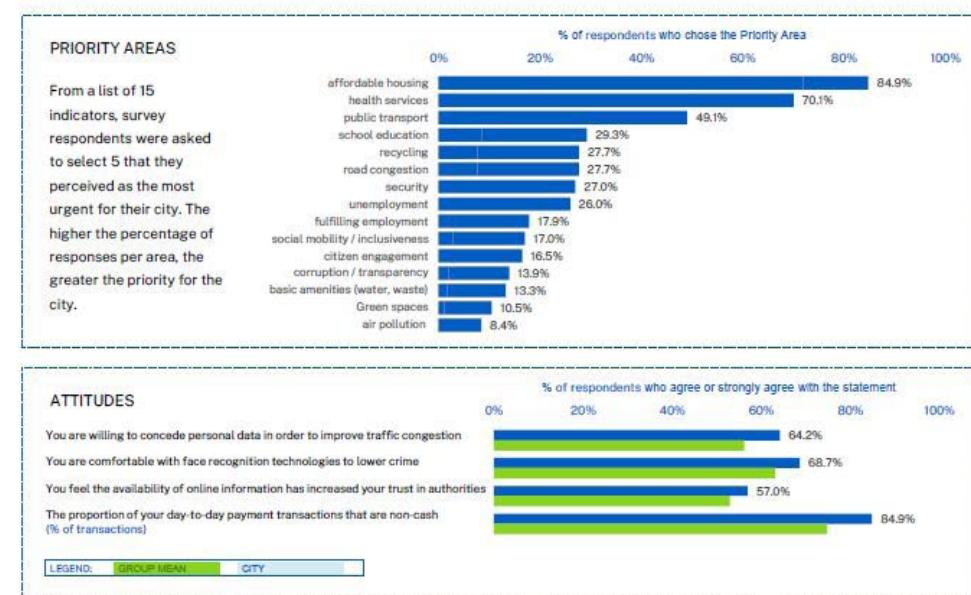
Introduction: a stable and mature dataset

Continuing to improve the SCI

As underlined earlier, and contrary to last year, this edition of the Smart City Index does not include any significant change in the index's methodology or coverage. Reaching an age of maturity however should be no reason for complacency, and we continue to strive to uncover new data that may increase the value of SCI.

In parallel, we also try to improve the readability and usability of the index by developing new visual tools to help decision-makers and analysts make sense of the complex sets of data involved. This year, SCI users will find new displays and tools on the index's website, thanks to new ways of presenting the data therefore enhancing its operational value.

Canberra



We would also like to encourage our readers to use and disseminate the infographics that have been produced for this edition of the SCI report.

We hope that you enjoy reading and using this report and we look forward to your feedback.



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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

2024

City Performance Overview:
A Series of Tables Showcasing the Results

IMD Smart City Index 2024: Results

In 2024 City Ranking Order and 2023 Comparison

City	Smart City Rank 2024	Smart City Rating 2024	Structure 2024	Technology 2024	Smart City Rank 2023	Change
Zurich	1	AAA	AAA	AA	1	—
Oslo	2	AA	AA	A	2	—
Canberra	3	AA	AAA	A	3	—
Geneva	4	AAA	AAA	AA	9	+5▲
Singapore	5	A	A	A	7	+2▲
Copenhagen	6	AA	AA	A	4	-2▼
Lausanne	7	AA	AA	A	5	-2▼
London	8	A	BBB	AA	6	-2▼
Helsinki	9	AA	AA	A	8	-1▼
Abu Dhabi	10	BB	BB	BB	13	+3▲
Stockholm	11	A	A	A	10	-1▼
Dubai	12	BB	BB	BB	17	+5▲
Beijing	13	BB	BB	BB	12	-1▼
Hamburg	14	BBB	BBB	BBB	11	-3▼
Prague	15	A	A	A	14	-1▼
Taipei City	16	A	BBB	A	29	+13▲
Seoul	17	AA	BBB	AAA	16	-1▼
Amsterdam	18	A	BBB	A	15	-3▼
Shanghai	19	BB	BB	BB	25	+6▲
Hong Kong	20	A	BBB	AAA	19	-1▼
Munich	21	A	A	A	20	-1▼
Sydney	22	A	BBB	A	18	-4▼

City	Smart City Rank 2024	Smart City Rating 2024	Structure 2024	Technology 2024	Smart City Rank 2023	Change
Vienna	23	AA	AA	A	28	+5▲
Tallinn	24	BBB	BBB	BBB	32	+8▲
Riyadh	25	B	B	B	30	+5▲
Reykjavik	26	BBB	A	BBB	26	—
Luxembourg	27	BBB	A	BB	45	+18▲
Wellington	28	BBB	A	BBB	23	-5▼
Bilbao	29	BBB	BBB	BB	27	-2▼
Brisbane	30	A	A	A	24	-6▼
Auckland	31	BBB	BBB	A	22	-9▼
Ljubljana	32	BBB	BBB	A	47	+15▲
Melbourne	33	A	BBB	A	31	-2▼
New York	34	BB	BB	BB	21	-13▼
Madrid	35	BB	BB	BBB	37	+2▲
Boston	36	BBB	BBB	A	34	-2▼
Berlin	37	BBB	BBB	BBB	33	-4▼
Warsaw	38	BBB	BBB	BBB	44	+6▲
Gothenburg	39	A	BBB	A	36	-3▼
Brussels	40	BBB	BB	A	35	-5▼
Rotterdam	41	A	BBB	A	41	—
The Hague	42	A	BBB	A	43	+1▲
Vancouver	43	BBB	BBB	BBB	42	-1▼
Dusseldorf	44	BB	BBB	B	38	-6▼

IMD Smart City Index 2024: Results

In 2024 City Ranking Order and 2023 Comparison

City	Smart City Rank 2024	Smart City Rating 2024	Structure 2024	Technology 2024	Smart City Rank 2023	Change
Busan	45	BB	BB	BBB	49	+4▲
Ottawa	46	BBB	A	BBB	40	-6▼
Vilnius	47	BBB	BBB	BBB	65	+18▲
Doha	48	B	BB	B	59	+11▲
Paris	49	BBB	BB	A	46	-3▼
Washington D.C.	50	BB	BB	BB	39	-11▼
Toronto	51	BBB	BBB	A	48	-3▼
Mecca	52	B	B	B	52	—
Hanover	53	BB	BBB	B	57	+4▲
Tianjin	54	BB	BB	BB	67	+13▲
Jeddah	55	B	B	B	56	+1▲
Bratislava	56	BBB	BB	A	62	+6▲
Zaragoza	57	CCC	B	CC	54	-3▼
Zhuhai	58	CCC	CCC	CCC	60	+2▲
Riga	59	BB	BB	BB	83	+24▲
Shenzhen	60	CCC	CCC	CCC	66	+6▲
Lyon	61	BB	BB	BBB	64	+3▲
Nanjing	62	CCC	CCC	CCC	58	-4▼
Seattle	63	BB	BB	B	55	-8▼
Hangzhou	64	CCC	CCC	CCC	70	+6▲
Guangzhou	65	CCC	CCC	CCC	71	+6▲
Denver	66	BBB	BBB	BBB	53	-13▼

City	Smart City Rank 2024	Smart City Rating 2024	Structure 2024	Technology 2024	Smart City Rank 2023	Change
Chicago	67	BB	BB	BB	61	-6▼
Los Angeles	68	BB	BB	BB	50	-18▼
Dublin	69	BB	BB	BBB	63	-6▼
Bordeaux	70	CCC	CCC	CC	78	+8▲
Manchester	71	BB	BB	BB	73	+2▲
Leeds	72	CC	CCC	CC	76	+4▲
Kuala Lumpur	73	B	B	CCC	89	+16▲
Medina	74	CCC	B	CCC	85	+11▲
San Francisco	75	BB	BB	B	68	-7▼
Krakow	76	CCC	CCC	CC	79	+3▲
Newcastle	77	CC	B	CC	77	—
Bologna	78	BB	BB	B	51	-27▼
Kiel	79	BB	BBB	CCC	81	+2▲
Montreal	80	BB	BB	B	69	-11▼
Barcelona	81	BB	BB	BB	75	-6▼
Chongqing	82	CCC	CCC	CCC	86	+4▲
Birmingham	83	BB	BB	BB	74	-9▼
Bangkok	84	CCC	CCC	B	88	+4▲
Lille	85	CCC	CCC	CC	84	-1▼
Tokyo	86	BB	BB	BB	72	-14▼
Glasgow	87	B	BB	B	80	-7▼
Muscat	88	B	B	CCC	96	+8▲

IMD Smart City Index 2024: Results

In 2024 City Ranking Order and 2023 Comparison

City	Smart City Rank 2024	Smart City Rating 2024	Structure 2024	Technology 2024	Smart City Rank 2023	Change
Budapest	89	B	B	BB	87	-2▼
Philadelphia	90	B	B	B	92	+2▲
Milan	91	B	B	B	82	-9▼
Cardiff	92	CC	CCC	CC	94	+2▲
Chengdu	93	CCC	CCC	CCC	97	+4▲
Tel Aviv	94	B	B	B	91	-3▼
Osaka	95	B	BB	CCC	98	+3▲
Ankara	96	CCC	CCC	CCC	90	-6▼
Hanoi	97	CCC	CCC	CCC	100	+3▲
Phoenix	98	CC	CCC	C	93	-5▼
Al-Khobar	99	CCC	CCC	CC		NEW
Bucharest	100	B	B	B	104	+4▲
Belfast	101	CC	CCC	C	95	-6▼
Zagreb	102	B	B	B	106	+4▲
Jakarta	103	CC	CC	CCC	102	-1▼
Marseille	104	CC	CC	CC	101	-3▼
Ho Chi Minh City	105	CC	CC	CCC	103	-2▼
Delhi	106	CC	CC	CC	105	-1▼
Mumbai	107	CC	CC	CCC	109	+2▲
Lisbon	108	C	CC	CC	99	-9▼
Bengaluru	109	CCC	CCC	CCC	110	+1▲

City	Smart City Rank 2024	Smart City Rating 2024	Structure 2024	Technology 2024	Smart City Rank 2023	Change
Istanbul	110	CC	C	CC	107	-3▼
Hyderabad	111	CC	CC	CC	116	+5▲
Medan	112	CC	CC	CC	112	—
Sofia	113	C	CC	CC	111	-2▼
Cairo	114	C	C	CC	108	-6▼
Makassar	115	CC	CC	CC	114	-1▼
Islamabad	116	CC	CC	CC	120	+4▲
Santiago	117	C	C	C	119	+2▲
Nicosia	118	C	CC	C	117	-1▼
Medellin	119	C	C	C	118	-1▼
Athens	120	C	C	C	113	-7▼
Manila	121	C	C	C	115	-6▼
Mexico City	122	C	D	C	121	-1▼
Buenos Aires	123	C	C	C	124	+1▲
Algiers	124	C	C	C	123	-1▼
San José	125	C	CC	C	127	+2▲
Rabat	126	C	C	C	126	—
Bogota	127	D	D	D	129	+2▲
Amman	128	D	D	C	135	+7▲
Cape Town	129	D	D	D	125	-4▼
Brasilia	130	C	C	C	128	-2▼

IMD Smart City Index 2024: Results

In 2024 City Ranking Order and 2023 Comparison

City	Smart City Rank 2024	Smart City Rating 2024	Structure 2024	Technology 2024	Smart City Rank 2023	Change
Nairobi	131	C	C	C	131	-
Sao Paulo	132	D	D	C	130	-2▼
Rome	133	CCC	CCC	CCC	122	-11▼
Lima	134	C	C	C	134	-
Abuja	135	D	C	D	133	-2▼
Lagos	136	D	D	D	132	-4▼
Tunis	137	D	D	D	137	-
Accra	138	D	D	D	138	-
Rio de Janeiro	139	D	D	D	136	-3▼
Beirut	140	D	D	D	139	-1▼
Sana'a	141	D	D	D	140	-1▼
Guatemala City	142	D	D	D	141	-1▼

IMD Smart City Index 2024: Results

In Alphabetical Order by City and 2023 Comparison

City	Smart City Rank 2024	Smart City Rating 2024	Structure 2024	Technology 2024	Smart City Rank 2023	Change
Abu Dhabi	10	BB	BB	BB	13	+3▲
Abuja	135	D	C	D	133	-2▼
Accra	138	D	D	D	138	—
Algiers	124	C	C	C	123	-1▼
Al-Khobar	99	CCC	CCC	CC	NEW	NEW
Amman	128	D	D	C	135	+7▲
Amsterdam	18	A	BBB	A	15	-3▼
Ankara	96	CCC	CCC	CCC	90	-6▼
Athens	120	C	C	C	113	-7▼
Auckland	31	BBB	BBB	A	22	-9▼
Bangkok	84	CCC	CCC	B	88	+4▲
Barcelona	81	BB	BB	BB	75	-6▼
Beijing	13	BB	BB	BB	12	-1▼
Beirut	140	D	D	D	139	-1▼
Belfast	101	CC	CCC	C	95	-6▼
Bengaluru	109	CCC	CCC	CCC	110	+1▲
Berlin	37	BBB	BBB	BBB	33	-4▼
Bilbao	29	BBB	BBB	BB	27	-2▼
Birmingham	83	BB	BB	BB	74	-9▼
Bogota	127	D	D	D	129	+2▲
Bologna	78	BB	BB	B	51	-27▼
Bordeaux	70	CCC	CCC	CC	78	+8▲

City	Smart City Rank 2024	Smart City Rating 2024	Structure 2024	Technology 2024	Smart City Rank 2023	Change
Boston	36	BBB	BBB	A	34	-2▼
Brasilia	130	C	C	C	128	-2▼
Bratislava	56	BBB	BB	A	62	+6▲
Brisbane	30	A	A	A	24	-6▼
Brussels	40	BBB	BB	A	35	-5▼
Bucharest	100	B	B	B	104	+4▲
Budapest	89	B	B	BB	87	-2▼
Buenos Aires	123	C	C	C	124	+1▲
Busan	45	BB	BB	BBB	49	+4▲
Cairo	114	C	C	CC	108	-6▼
Canberra	3	AA	AAA	A	3	—
Cape Town	129	D	D	D	125	-4▼
Cardiff	92	CC	CCC	CC	94	+2▲
Chengdu	93	CCC	CCC	CCC	97	+4▲
Chicago	67	BB	BB	BB	61	-6▼
Chongqing	82	CCC	CCC	CCC	86	+4▲
Copenhagen	6	AA	AA	A	4	-2▼
Delhi	106	CC	CC	CC	105	-1▼
Denver	66	BBB	BBB	BBB	53	-13▼
Doha	48	B	BB	B	59	+11▲
Dubai	12	BB	BB	BB	17	+5▲
Dublin	69	BB	BB	BBB	63	-6▼

IMD Smart City Index 2024: Results

In Alphabetical Order by City and 2023 Comparison

City	Smart City Rank 2024	Smart City Rating 2024	Structure 2024	Technology 2024	Smart City Rank 2023	Change
Dusseldorf	44	BB	BBB	B	38	-6▼
Geneva	4	AAA	AAA	AA	9	+5▲
Glasgow	87	B	BB	B	80	-7▼
Gothenburg	39	A	BBB	A	36	-3▼
Guangzhou	65	CCC	CCC	CCC	71	+6▲
Guatemala City	142	D	D	D	141	-1▼
Hamburg	14	BBB	BBB	BBB	11	-3▼
Hangzhou	64	CCC	CCC	CCC	70	+6▲
Hanoi	97	CCC	CCC	CCC	100	+3▲
Hanover	53	BB	BBB	B	57	+4▲
Helsinki	9	AA	AA	A	8	-1▼
Ho Chi Minh City	105	CC	CC	CCC	103	-2▼
Hong Kong	20	A	BBB	AAA	19	-1▼
Hyderabad	111	CC	CC	CC	116	+5▲
Islamabad	116	CC	CC	CC	120	+4▲
Istanbul	110	CC	C	CC	107	-3▼
Jakarta	103	CC	CC	CCC	102	-1▼
Jeddah	55	B	B	B	56	+1▲
Kiel	79	BB	BBB	CCC	81	+2▲
Krakow	76	CCC	CCC	CC	79	+3▲
Kuala Lumpur	73	B	B	CCC	89	+16▲
Lagos	136	D	D	D	132	-4▼

City	Smart City Rank 2024	Smart City Rating 2024	Structure 2024	Technology 2024	Smart City Rank 2023	Change
Lausanne	7	AA	AA	A	5	-2▼
Leeds	72	CC	CCC	CC	76	+4▲
Lille	85	CCC	CCC	CC	84	-1▼
Lima	134	C	C	C	134	—
Lisbon	108	C	CC	CC	99	-9▼
Ljubljana	32	BBB	BBB	A	47	+15▲
London	8	A	BBB	AA	6	-2▼
Los Angeles	68	BB	BB	BB	50	-18▼
Luxembourg	27	BBB	A	BB	45	+18▲
Lyon	61	BB	BB	BBB	64	+3▲
Madrid	35	BB	BB	BBB	37	+2▲
Makassar	115	CC	CC	CC	114	-1▼
Manchester	71	BB	BB	BB	73	+2▲
Manila	121	C	C	C	115	-6▼
Marseille	104	CC	CC	CC	101	-3▼
Mecca	52	B	B	B	52	—
Medan	112	CC	CC	CC	112	—
Medellin	119	C	C	C	118	-1▼
Medina	74	CCC	B	CCC	85	+11▲
Melbourne	33	A	BBB	A	31	-2▼
Mexico City	122	C	D	C	121	-1▼
Milan	91	B	B	B	82	-9▼

IMD Smart City Index 2024: Results

In Alphabetical Order by City and 2023 Comparison

City	Smart City Rank 2024	Smart City Rating 2024	Structure 2024	Technology 2024	Smart City Rank 2023	Change
Montreal	80	BB	BB	B	69	-11▼
Mumbai	107	CC	CC	CCC	109	+2▲
Munich	21	A	A	A	20	-1▼
Muscat	88	B	B	CCC	96	+8▲
Nairobi	131	C	C	C	131	—
Nanjing	62	CCC	CCC	CCC	58	-4▼
New York	34	BB	BB	BB	21	-13▼
Newcastle	77	CC	B	CC	77	—
Nicosia	118	C	CC	C	117	-1▼
Osaka	95	B	BB	CCC	98	+3▲
Oslo	2	AA	AA	A	2	—
Ottawa	46	BBB	A	BBB	40	-6▼
Paris	49	BBB	BB	A	46	-3▼
Philadelphia	90	B	B	B	92	+2▲
Phoenix	98	CC	CCC	C	93	-5▼
Prague	15	A	A	A	14	-1▼
Rabat	126	C	C	C	126	—
Reykjavik	26	BBB	A	BBB	26	—
Riga	59	BB	BB	BB	83	+24▲
Rio de Janeiro	139	D	D	D	136	-3▼
Riyadh	25	B	B	B	30	+5▲
Rome	133	CCC	CCC	CCC	122	-11▼

City	Smart City Rank 2024	Smart City Rating 2024	Structure 2024	Technology 2024	Smart City Rank 2023	Change
Rotterdam	41	A	BBB	A	41	—
San Francisco	75	BB	BB	B	68	-7▼
San José	125	C	CC	C	127	+2▲
Sana'a	141	D	D	D	140	-1▼
Santiago	117	C	C	C	119	+2▲
Sao Paulo	132	D	D	C	130	-2▼
Seattle	63	BB	BB	B	55	-8▼
Seoul	17	AA	BBB	AAA	16	-1▼
Shanghai	19	BB	BB	BB	25	+6▲
Shenzhen	60	CCC	CCC	CCC	66	+6▲
Singapore	5	A	A	A	7	+2▲
Sofia	113	C	CC	CC	111	-2▼
Stockholm	11	A	A	A	10	-1▼
Sydney	22	A	BBB	A	18	-4▼
Taipei City	16	A	BBB	A	29	+13▲
Tallinn	24	BBB	BBB	BBB	32	+8▲
Tel Aviv	94	B	B	B	91	-3▼
The Hague	42	A	BBB	A	43	+1▲
Tianjin	54	BB	BB	BB	67	+13▲
Tokyo	86	BB	BB	BB	72	-14▼
Toronto	51	BBB	BBB	A	48	-3▼
Tunis	137	D	D	D	137	—

IMD Smart City Index 2024: Results

In Alphabetical Order by City and 2023 Comparison

City	Smart City Rank 2024	Smart City Rating 2024	Structure 2024	Technology 2024	Smart City Rank 2023	Change
Vancouver	43	BBB	BBB	BBB	42	-1▼
Vienna	23	AA	AA	A	28	+5▲
Vilnius	47	BBB	BBB	BBB	65	+18▲
Warsaw	38	BBB	BBB	BBB	44	+6▲
Washington D.C.	50	BB	BB	BB	39	-11▼
Wellington	28	BBB	A	BBB	23	-5▼
Zagreb	102	B	B	B	106	+4▲
Zaragoza	57	CCC	B	CC	54	-3▼
Zhuhai	58	CCC	CCC	CCC	60	+2▲
Zurich	1	AAA	AAA	AA	1	—

IMD Smart City Index 2024: Results

In Alphabetical Order by Country with HDI Context and
2019-2024 Rankings (2023 Methodology Applied)

Country	Country HDI	City	HDI city	2024 Smart City Ranking
Algeria	0.745	Algiers	0.767	124
Argentina	0.849	Buenos Aires	0.844	123
Australia	0.946	Brisbane	0.944	30
Australia	0.946	Canberra	0.980	3
Australia	0.946	Melbourne	0.948	33
Australia	0.946	Sydney	0.952	22
Austria	0.926	Vienna	0.942	23
Belgium	0.942	Brussels	0.953	40
Brazil	0.76	Brasilia	0.816	130
Brazil	0.76	Rio de Janeiro	0.783	139
Brazil	0.76	Sao Paulo	0.780	132
Bulgaria	0.799	Sofia	0.856	113
Canada	0.935	Montreal	0.923	80
Canada	0.935	Ottawa	0.943	46
Canada	0.935	Toronto	0.943	51
Canada	0.935	Vancouver	0.944	43
Chile	0.86	Santiago	0.886	117
China	0.788	Beijing	0.907	13
China	0.788	Chengdu	0.740	93
China	0.788	Chongqing	0.774	82
China	0.788	Guangzhou	0.799	65
China	0.788	Hangzhou	0.801	64
China	0.788	Nanjing	0.810	62
China	0.788	Shanghai	0.880	19

AVERAGE 19-20-21	AVERAGE 20-21-23	AVERAGE 21-23-24
-	123	124
95	107	117
36	30	31
-	3	3
35	33	33
28	26	23
17	22	24
37	32	40
-	128	129
110	121	131
107	118	126
92	100	109
52	59	68
-	40	43
35	42	43
29	37	38
96	109	114
23	17	14
78	86	91
69	75	81
66	67	67
63	64	66
60	58	59
37	33	25

IMD Smart City Index 2024: Results

In Alphabetical Order by Country with HDI Context and
2019-2024 Rankings

Country	Country HDI	City	HDI city	2024 Smart City Ranking
China	0.788	Shenzhen	0.799	60
China	0.788	Tianjin	0.844	54
China	0.788	Zhuhai	0.799	58
Colombia	0.758	Bogota	0.797	127
Colombia	0.758	Medellin	0.757	119
Costa Rica	0.806	San José	0.826	125
Croatia	0.878	Zagreb	0.916	102
Cyprus	0.907	Nicosia	0.896	118
Czech Rep.	0.895	Prague	0.960	15
Denmark	0.952	Copenhagen	0.967	6
Egypt	0.728	Cairo	0.779	114
Estonia	0.899	Tallinn	0.932	24
Finland	0.942	Helsinki	0.960	9
France	0.91	Bordeaux	0.900	70
France	0.91	Lille	0.880	85
France	0.91	Lyon	0.914	61
France	0.91	Marseille	0.899	104
France	0.91	Paris	0.949	49
Germany	0.95	Berlin	0.959	37
Germany	0.95	Dusseldorf	0.939	44
Germany	0.95	Hamburg	0.972	14
Germany	0.95	Hanover	0.930	53
Germany	0.95	Kiel	0.921	79
Germany	0.95	Munich	0.950	21

AVERAGE 19-20-21	AVERAGE 20-21-23	AVERAGE 21-23-24
62	64	62
48	54	57
54	56	57
103	115	123
90	102	112
112	120	121
-	106	104
-	117	118
7	9	13
4	4	5
100	104	109
32	32	27
7	7	9
68	73	72
82	83	84
59	62	62
87	92	99
45	47	48
20	25	30
27	34	36
7	8	11
49	54	54
72	77	77
16	17	19

IMD Smart City Index 2024: Results

In Alphabetical Order by Country with HDI Context and
2019-2024 Rankings

Country	Country HDI	City	HDI city	2024 Smart City Ranking
Ghana	0.602	Accra	0.707	138
Greece	0.893	Athens	0.909	120
Guatemala	0.629	Guatemala City	0.722	142
Hong Kong	0.956	Hong Kong	0.950	20
Hungary	0.851	Budapest	0.922	89
Iceland	0.959	Reykjavik	0.959	26
India	0.644	Bengaluru	0.667	109
India	0.644	Delhi	0.730	106
India	0.644	Hyderabad	0.647	111
India	0.644	Mumbai	0.688	107
Indonesia	0.713	Jakarta	0.759	103
Indonesia	0.713	Makassar	0.699	115
Indonesia	0.713	Medan	0.711	112
Ireland	0.95	Dublin	0.950	69
Israel	0.915	Tel Aviv	0.919	94
Italy	0.906	Bologna	0.924	78
Italy	0.906	Milan	0.915	91
Italy	0.906	Rome	0.917	133
Japan	0.92	Osaka	0.928	95
Japan	0.92	Tokyo	0.951	86
Jordan	0.736	Amman	0.737	128
Kenya	0.601	Nairobi	0.636	131
Korea, South	0.929	Busan	0.936	45
Korea, South	0.929	Seoul	0.952	17

AVERAGE 19-20-21	AVERAGE 20-21-23	AVERAGE 21-23-24
-	138	138
100	106	114
-	141	142
35	29	24
68	76	85
-	26	26
93	101	105
86	95	102
91	103	109
89	98	104
84	92	99
93	102	110
93	101	107
31	45	59
54	68	81
46	50	59
64	74	81
102	110	122
81	91	94
62	71	75
-	135	132
107	118	126
40	42	47
20	18	17

IMD Smart City Index 2024: Results

In Alphabetical Order by Country with HDI Context and
2019-2024 Rankings

Country	Country HDI	City	HDI city	2024 Smart City Ranking
Latvia	0.879	Riga	0.929	59
Lebanon	0.723	Beirut	0.677	140
Lithuania	0.879	Vilnius	0.913	47
Luxembourg	0.927	Luxembourg	0.930	27
Malaysia	0.807	Kuala Lumpur	0.858	73
Mexico	0.781	Mexico City	0.815	122
Morocco	0.698	Rabat	0.702	126
Netherlands	0.946	Amsterdam	0.962	18
Netherlands	0.946	Rotterdam	0.941	41
Netherlands	0.946	The Hague	0.941	42
New Zealand	0.939	Auckland	0.951	31
New Zealand	0.939	Wellington	0.958	28
Nigeria	0.548	Abuja	0.646	135
Nigeria	0.548	Lagos	0.681	136
Norway	0.966	Oslo	0.980	2
Oman	0.819	Muscat	0.816	88
Pakistan	0.54	Islamabad	0.659	116
Peru	0.762	Lima	0.820	134
Philippines	0.71	Manila	0.760	121
Poland	0.881	Krakow	0.888	76
Poland	0.881	Warsaw	0.926	38
Portugal	0.874	Lisbon	0.900	108
Qatar	0.875	Doha	0.855	48
Romania	0.827	Bucharest	0.926	100

AVERAGE 19-20-21	AVERAGE 20-21-23	AVERAGE 21-23-24
-	83	71
-	139	140
-	65	56
-	45	36
70	80	81
101	111	118
103	112	120
12	13	15
39	40	42
36	39	40
12	18	23
-	23	26
106	118	127
107	118	128
2	2	2
-	96	92
-	120	118
-	134	134
96	103	112
64	75	77
34	44	41
73	85	96
-	59	54
74	89	97

IMD Smart City Index 2024: Results

In Alphabetical Order by Country with HDI Context and
2019-2024 Rankings

Country	Country HDI	City	HDI city	2024 Smart City Ranking
Saudi Arabia	0.875	Al-Khobar	0.862	99
Saudi Arabia	0.875	Jeddah	0.871	55
Saudi Arabia	0.875	Mecca	0.871	52
Saudi Arabia	0.875	Medina	0.871	74
Saudi Arabia	0.875	Riyadh	0.900	25
Singapore	0.949	Singapore	0.939	5
Slovakia	0.855	Bratislava	0.944	56
Slovenia	0.926	Ljubljana	0.953	32
South Africa	0.717	Cape Town	0.751	129
Spain	0.911	Barcelona	0.916	81
Spain	0.911	Bilbao	0.932	29
Spain	0.911	Madrid	0.940	35
Spain	0.911	Zaragoza	0.912	57
Sweden	0.952	Gothenburg	0.944	39
Sweden	0.952	Stockholm	0.972	11
Switzerland	0.967	Geneva	0.966	4
Switzerland	0.967	Lausanne	0.966	7
Switzerland	0.967	Zurich	0.989	1
Taiwan	0.926	Taipei City	0.930	16
Thailand	0.803	Bangkok	0.839	84
Tunisia	0.732	Tunis	0.775	137
Turkey	0.855	Ankara	0.854	96
Turkey	0.855	Istanbul	0.867	110
United Arab Emirates	0.937	Abu Dhabi	0.911	10

AVERAGE 19-20-21	AVERAGE 20-21-23	AVERAGE 21-23-24
-	-	-
-	56	56
-	52	52
79	82	79
46	38	31
8	7	6
33	43	53
-	47	40
99	110	120
61	68	75
22	25	26
31	35	36
54	53	54
41	42	40
10	10	11
7	8	6
4	5	5
1	1	1
24	26	23
80	84	86
-	137	137
74	80	87
88	98	102
14	13	12

IMD Smart City Index 2024: Results

In Alphabetical Order by Country with HDI Context and
2019-2024 Rankings

Country	Country HDI	City	HDI city	2024 Smart City Ranking
United Arab Emirates	0.937	Dubai	0.911	12
United Kingdom	0.94	Belfast	0.896	101
United Kingdom	0.94	Birmingham	0.913	83
United Kingdom	0.94	Glasgow	0.921	87
United Kingdom	0.94	Leeds	0.908	72
United Kingdom	0.94	London	0.973	8
United Kingdom	0.94	Manchester	0.915	71
United Kingdom	0.94	Newcastle	0.901	77
United Kingdom	0.94	Cardiff	0.898	92
USA	0.927	Boston	0.949	36
USA	0.927	Chicago	0.929	67
USA	0.927	Denver	0.942	66
USA	0.927	Los Angeles	0.931	68
USA	0.927	New York	0.938	34
USA	0.927	Philadelphia	0.923	90
USA	0.927	Phoenix	0.908	98
USA	0.927	San Francisco	0.931	75
USA	0.927	Seattle	0.940	63
USA	0.927	Washington D.C.	0.940	50
Vietnam	0.726	Hanoi	0.744	97
Vietnam	0.726	Ho Chi Minh City	0.714	105
Yemen	0.424	Sana'a	0.521	141

AVERAGE 19-20-21	AVERAGE 20-21-23	AVERAGE 21-23-24
15	17	14
-	95	98
68	72	77
65	73	77
64	70	71
5	6	6
58	63	67
62	67	72
-	94	93
20	27	31
56	57	61
31	39	51
37	39	49
22	17	25
78	85	89
75	81	89
44	57	66
37	45	52
22	26	38
83	90	95
85	94	100
-	140	141

IMD Smart City Index

2024

A User's Guide

IMD Smart City Index 2024

A User's Guide

SMART
CITY

10

Out of 142



13 in 2023
Out of 141

SMART
CITY RATING

BB

BB in 2023

FACTOR
RATINGS

BB

STRUCTURES

BB

TECHNOLOGIES

GROUP

3

All ratings range
from AAA to D

Smart City Ranking

Smart City Ranking: The Ranking position of the city amongst the 142 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 2023 Ranking and Rating are also shown for the 141 cities included in the last edition's index.

BACKGROUND INFORMATION

City

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

HDI 0.911
(Global Data Lab)



Country

United Arab Emirates

	2019	2020	2021	2022	1 yr change
HDI	0.933	0.930	0.931	0.937	+0.006
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

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.

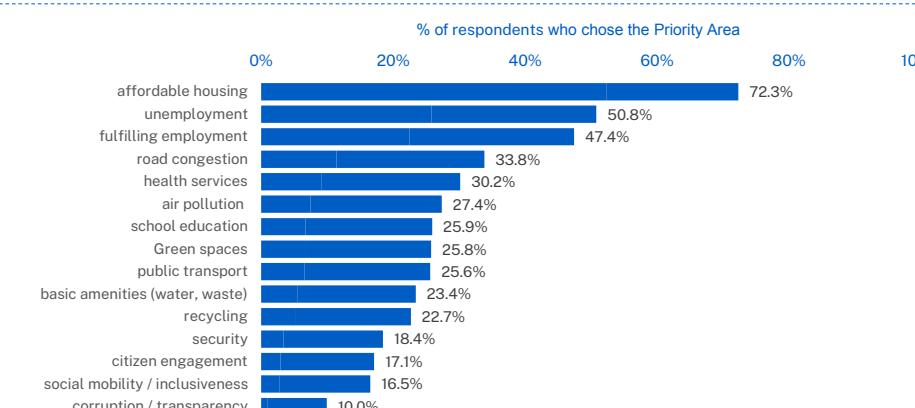
It also presents the United Nations HDI (country-level - for the parent economy of a given city) and its four components, as well as the city's position on the map. Please note: for Taipei City only, the data is calculated using the same methodology and comparable data.

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.

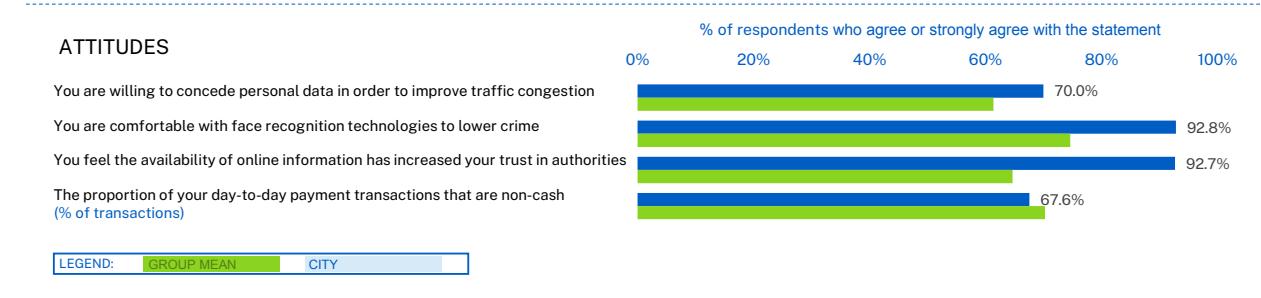


IMD Smart City Index 2024

A User's Guide

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 light red 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 (light red 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.



IMD Smart City Index

2024

Methodology

IMD Smart City Index 2024

Methodology

1

The IMD Smart City Index 2024 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 142 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 2024:2023:2021.

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 Human Development Index (HDI) score of the city they are part of.

6

Within each HDI 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 HDI quartile), scale

AAA-AA-A-BBB-BB

For group 2 (second HDI quartile), scale

A-BBB-BB-B-CCC

For group 3 (third HDI quartile), scale

BB-B-CCC-CC-C

For group 4 (lowest HDI quartile), scale

CCC-CC-C-D

7

Rankings are then presented in two formats:

- an overall ranking (1 to 142)
- a rating for each pillar and overall

IMD Smart City Index

2024

City Profiles

Abu Dhabi

SMART
CITY
RANKING
10
Out of 142

13 in 2023
Out of 141

SMART
CITY RATING

BB

BB in 2023

FACTOR
RATINGS

BB

STRUCTURES

BB

TECHNOLOGIES

GROUP

3

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

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

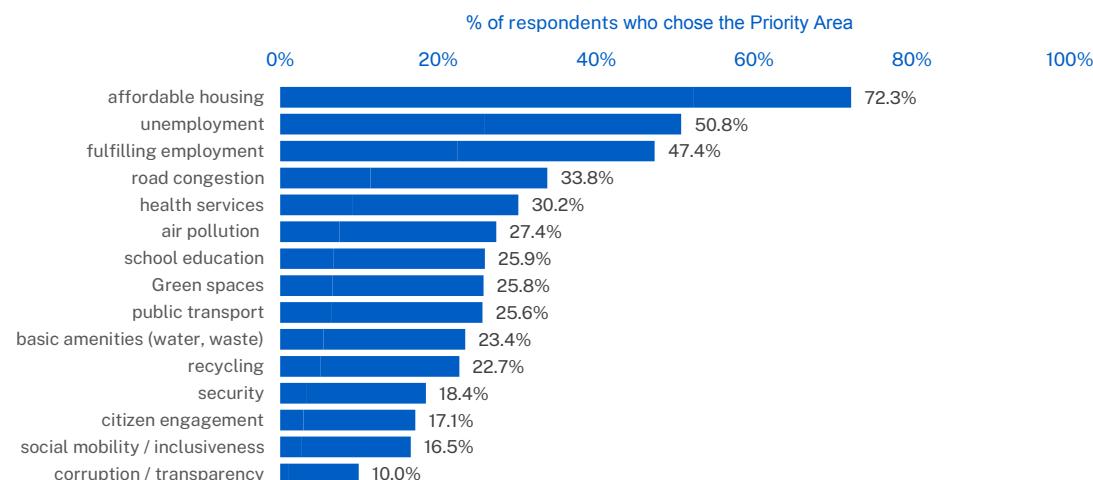
HDI 0.911
(Global Data Lab)



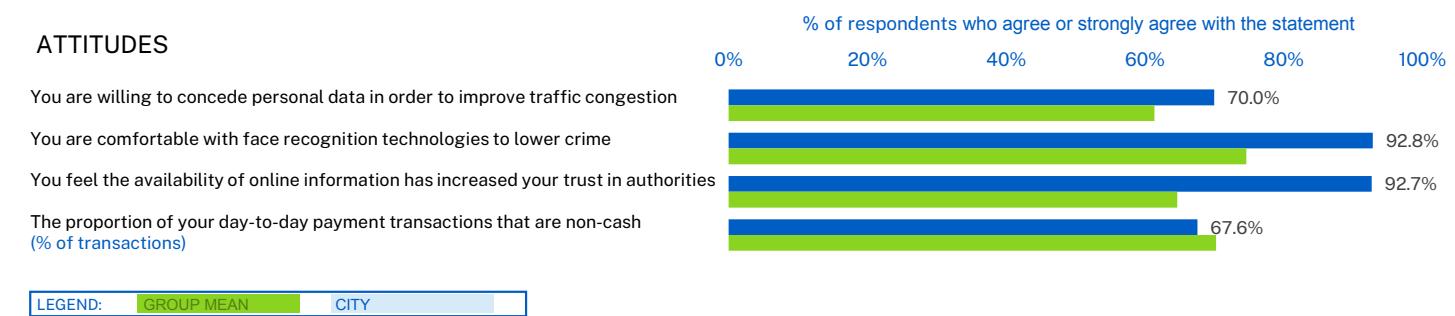
Country

United Arab Emirates	2019	2020	2021	2022	1 yr change
HDI	0.933	0.930	0.931	0.937	+0.006
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: MIN CITY MEAN GROUP MAX

STRUCTURES

Health & Safety

	Score	
Basic sanitation meets the needs of the poorest areas	86.9	
Recycling services are satisfactory	87.6	
Public safety is not a problem	65.9	
Air pollution is not a problem	51.2	
Medical services provision is satisfactory	86.8	
Finding housing with rent equal to 30% or less of a monthly salary is not a problem	49.6	

Mobility

	Score	
Traffic congestion is not a problem	52.9	
Public transport is satisfactory	83.8	

Activities

	Score	
Green spaces are satisfactory	84.7	
Cultural activities (shows, bars, and museums) are satisfactory	85.3	

Opportunities (Work & School)

	Score	
Employment finding services are readily available	61.8	
Most children have access to a good school	74.9	
Lifelong learning opportunities are provided by local institutions	73.9	
Businesses are creating new jobs	65.4	
Minorities feel welcome	81.9	

Governance

	Score	
Information on local government decisions are easily accessible	84.1	
Corruption of city officials is not an issue of concern	63.7	
Residents contribute to decision making of local government	68.5	
Residents provide feedback on local government projects	72.4	

TECHNOLOGIES

Health & Safety

	Score	
Online reporting of city maintenance problems provides a speedy solution	80.9	
A website or App allows residents to easily give away unwanted items	75.8	
Free public wifi has improved access to city services	74.0	
CCTV cameras has made residents feel safer	87.4	
A website or App allows residents to effectively monitor air pollution	60.5	
Arranging medical appointments online has improved access	86.7	

Mobility

	Score	
Car-sharing Apps have reduced congestion	68.7	
Apps that direct you to an available parking space have reduced journey time	71.5	
Bicycle hiring has reduced congestion	66.3	
Online scheduling and ticket sales has made public transport easier to use	80.1	
The city provides information on traffic congestion through mobile phones	80.1	

Activities

	Score	
Online purchasing of tickets to shows and museums has made it easier to attend	88.7	

Opportunities (Work & School)

	Score	
Online access to job listings has made it easier to find work	77.5	
IT skills are taught well in schools	77.7	
Online services provided by the city has made it easier to start a new business	76.6	
The current internet speed and reliability meet connectivity needs	86.4	

Governance

	Score	
Online public access to city finances has reduced corruption	71.9	
Online voting has increased participation	70.8	
An online platform where residents can propose ideas has improved city life	78.0	
Processing Identification Documents online has reduced waiting times	84.4	

All ratings range
from AAA to D

Abuja

SMART
CITY
RANKING
135
Out of 142

133 in 2023
Out of 141

SMART
CITY RATING

D

D in 2023

FACTOR
RATINGS

C

STRUCTURES

D

TECHNOLOGIES

4

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 3,280,000
(UN World Urbanization Prospects)

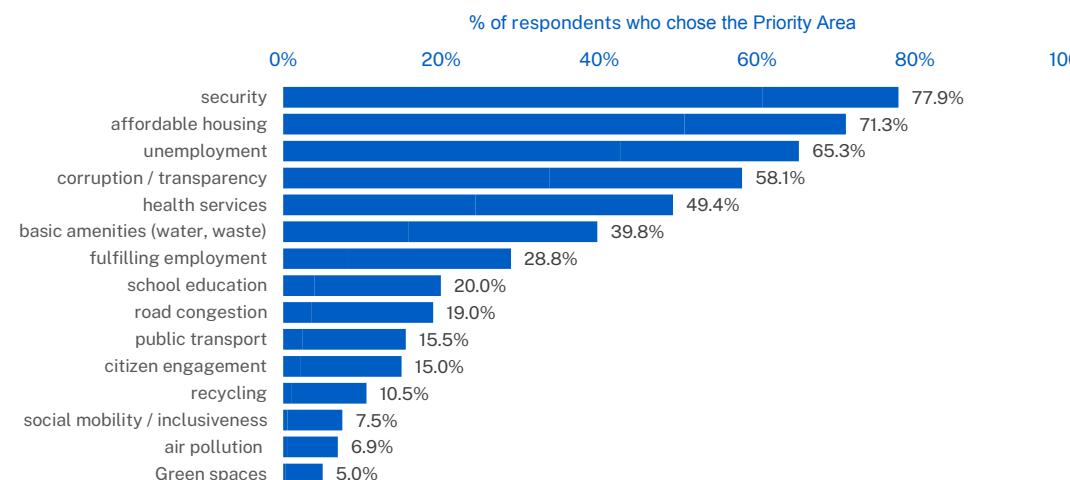
HDI 0.646
(Global Data Lab)



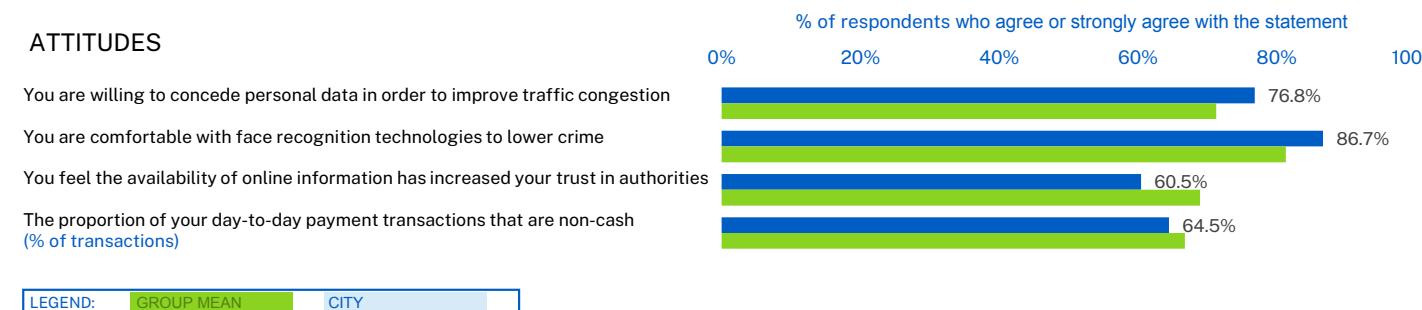
Country

Nigeria	2019	2020	2021	2022	1 yr change
HDI	0.537	0.539	0.542	0.548	+0.006
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

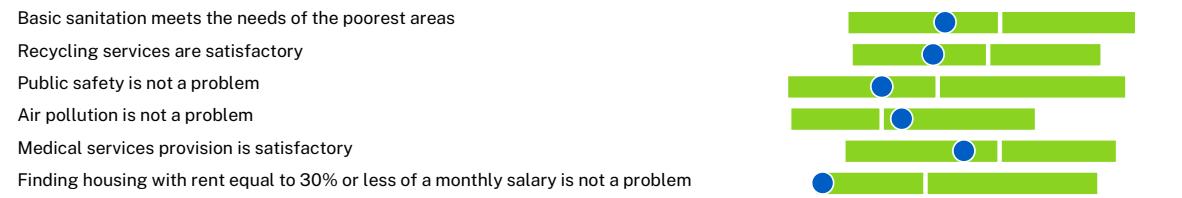


LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



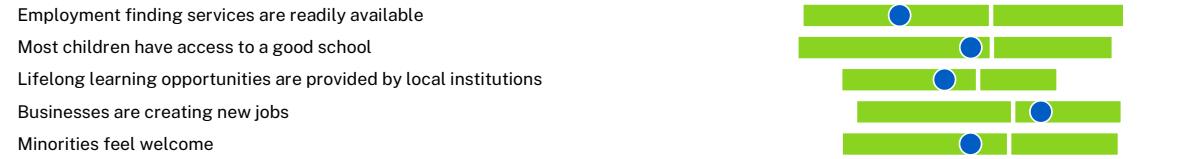
Mobility



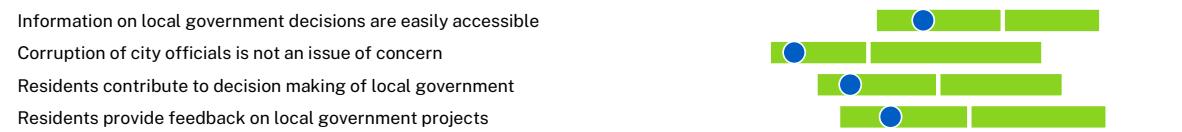
Activities



Opportunities (Work & School)

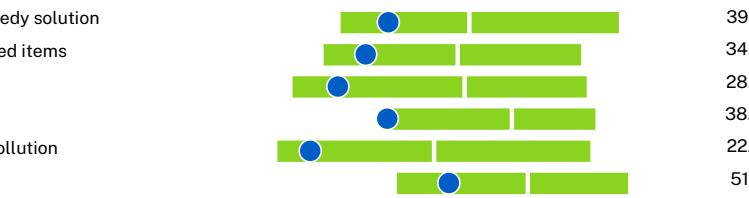


Governance

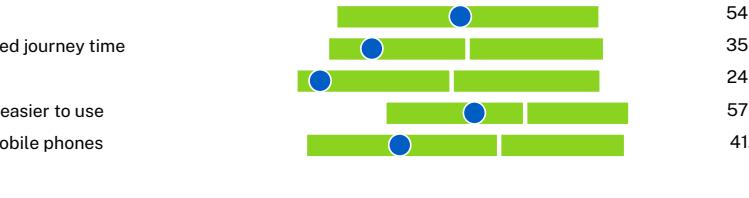


TECHNOLOGIES

Health & Safety



Mobility



Activities



Opportunities (Work & School)



Governance



SMART CITY RANKING

138

Out of 142

138 in 2023
Out of 141

SMART CITY RATING

D

D in 2023

FACTOR RATINGS

D

STRUCTURES

4

TECHNOLOGIES

GROUP

All ratings range from AAA to D

BACKGROUND INFORMATION

City

Population 2,610,000
(UN World Urbanization Prospects)

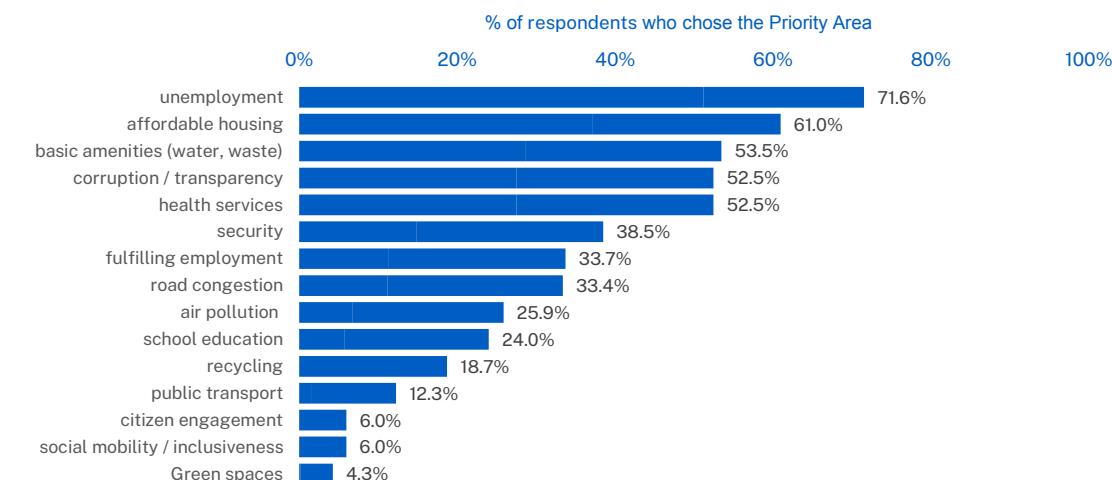
HDI 0.707
(Global Data Lab)



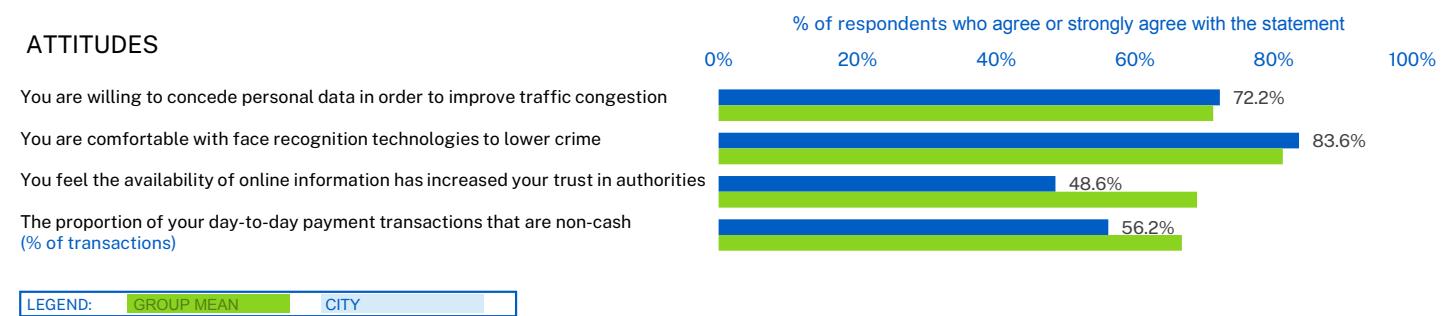
Country

Ghana	2019	2020	2021	2022	1 yr change
HDI	0.599	0.601	0.600	0.602	+0.002
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



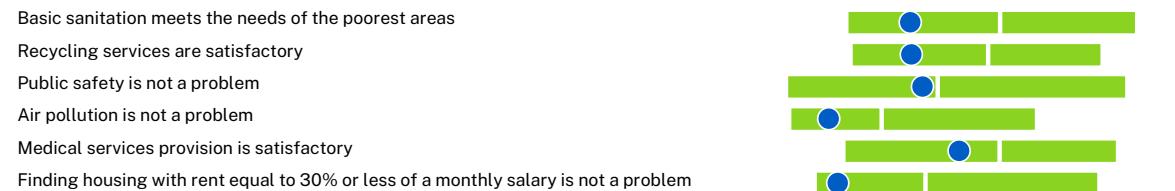
ATTITUDES



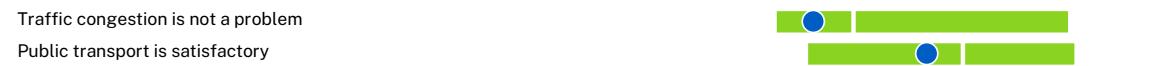
LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

Health & Safety



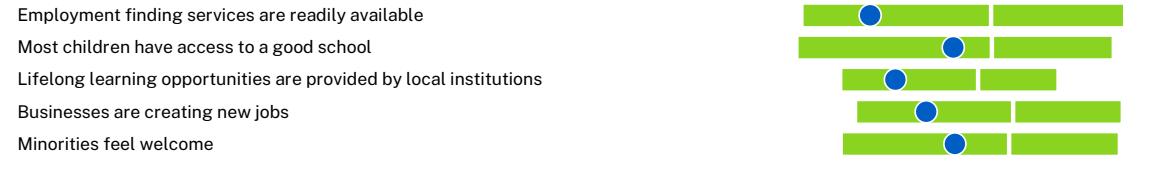
Mobility



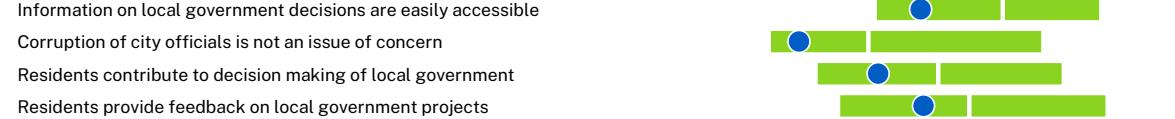
Activities



Opportunities (Work & School)



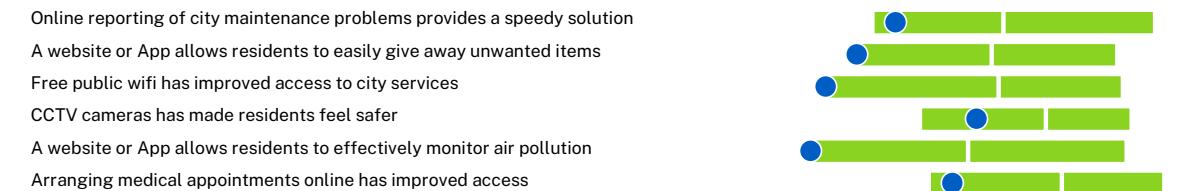
Governance



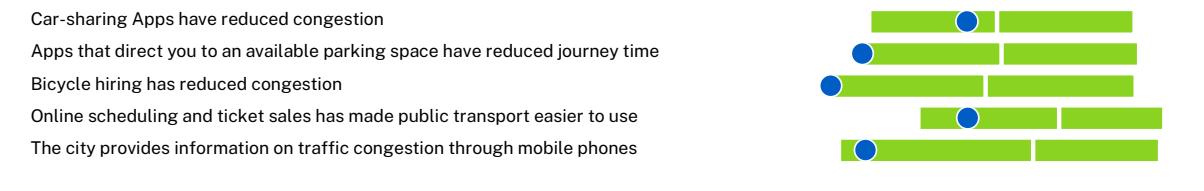
0% 20% 40% 60% 80% 100%

TECHNOLOGIES

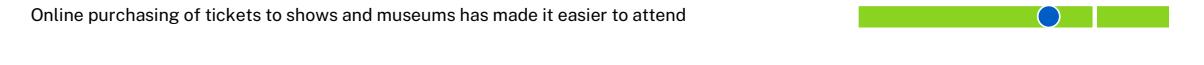
Health & Safety



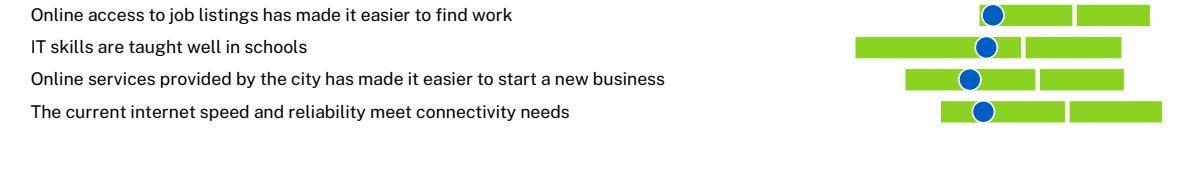
Mobility



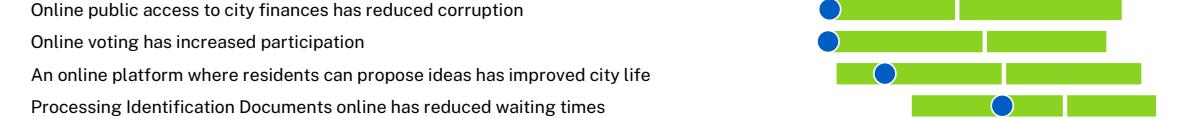
Activities



Opportunities (Work & School)



Governance



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

All ratings range from AAA to D

Algiers

SMART
CITY
RANKING
124

Out of 142



123 in 2023
Out of 141

SMART
CITY RATING

C

C in 2023

FACTOR
RATINGS

C

STRUCTURES

C

TECHNOLOGIES

4

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 2,850,000
(UN World Urbanization Prospects)

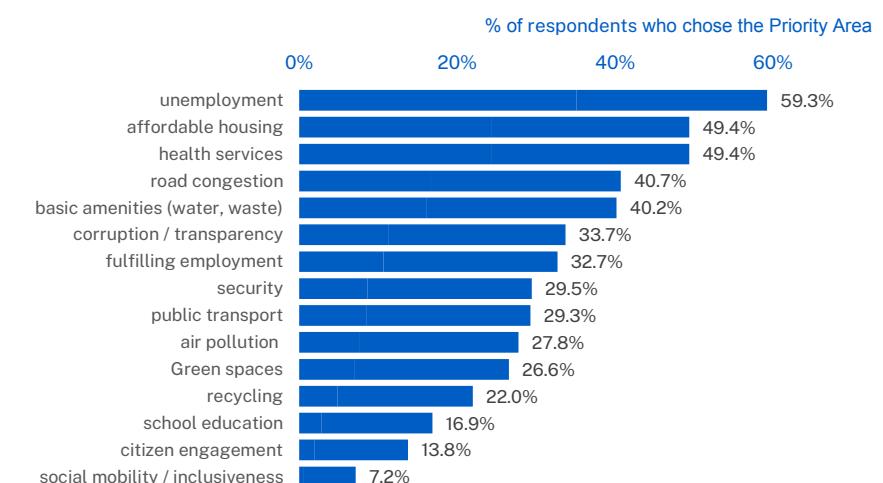
HDI 0.767
(Global Data Lab)



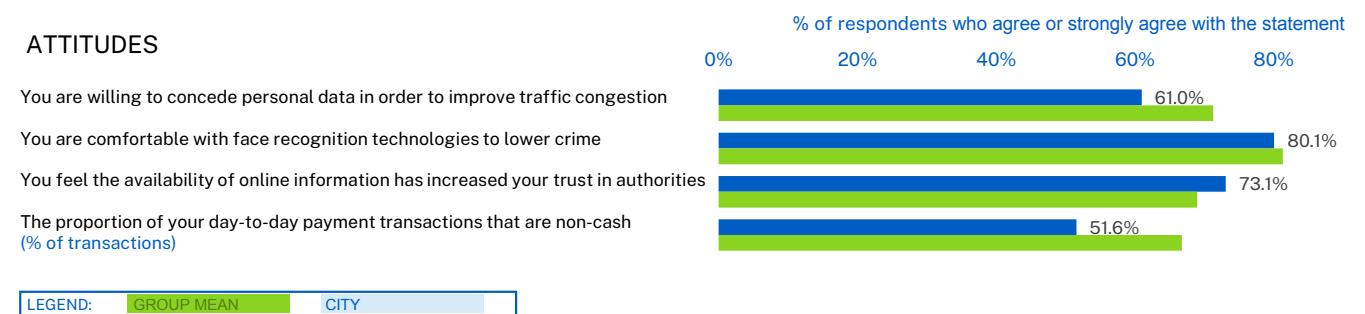
Country

	2019	2020	2021	2022	1 yr change
HDI	0.742	0.730	0.740	0.745	+0.005
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



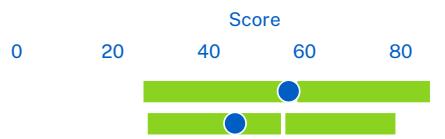
LEGEND: GROUP MEAN CITY

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



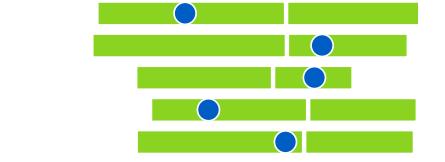
Activities

- 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

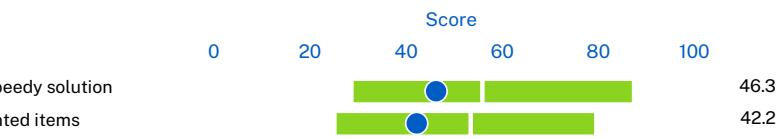


TECHNOLOGIES

% of respondents who agree or strongly agree with the statement

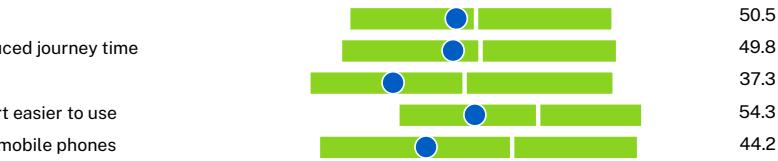
Health & Safety

- 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

Al-Khobar

SMART
CITY
RANKING
99
Out of 142

not in 2023

SMART
CITY RATING

CCC

not in 2023

FACTOR
RATINGS

CCC

STRUCTURES

CC

TECHNOLOGIES

GROUP

3

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 410,000
(Census)

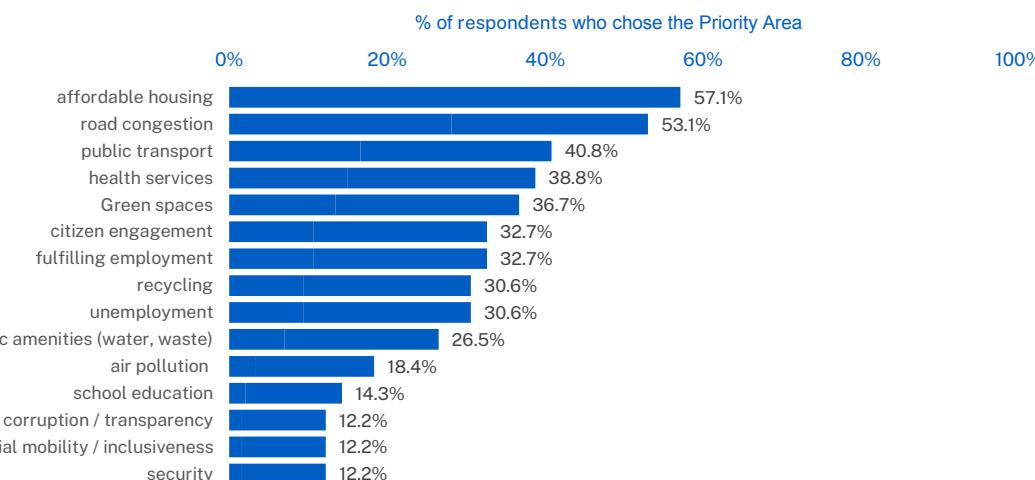
HDI 0.862
(Global Data Lab)



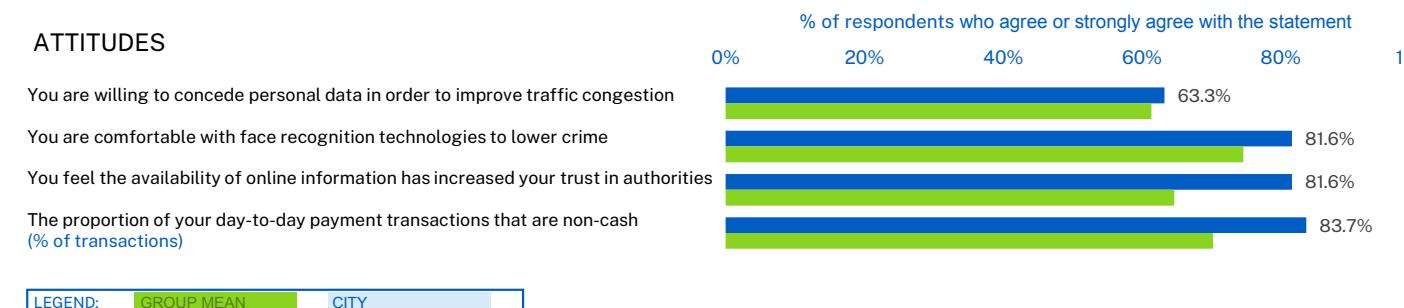
Country

Saudi Arabia	2019	2020	2021	2022	1 yr change
HDI	0.862	0.861	0.867	0.875	+0.008
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

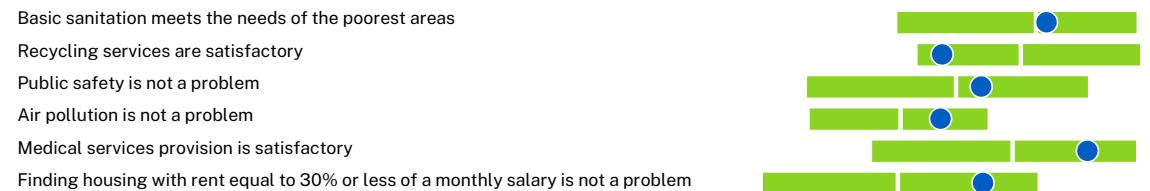


LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



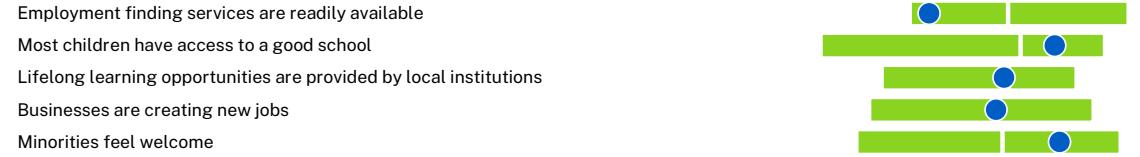
Mobility



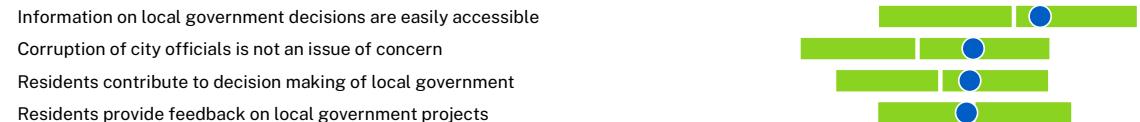
Activities



Opportunities (Work & School)



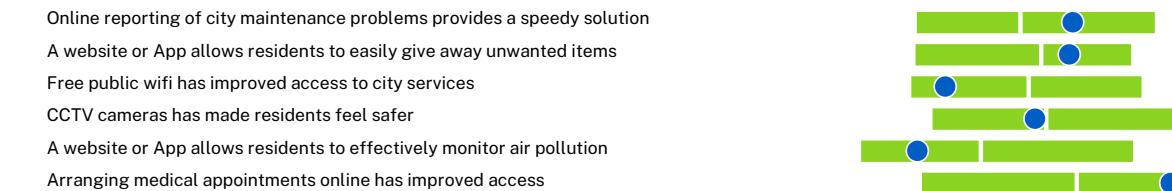
Governance



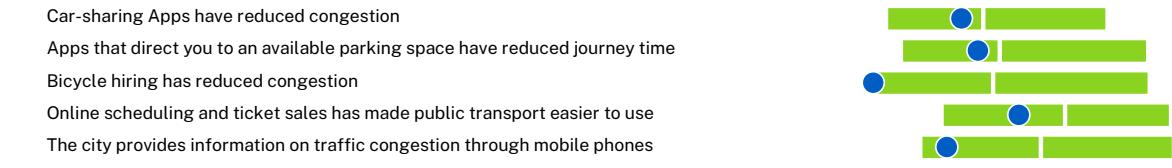
TECHNOLOGIES

LEGEND: MIN CITY MEAN GROUP MAX

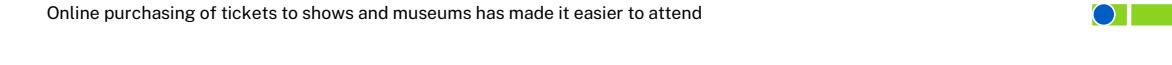
Health & Safety



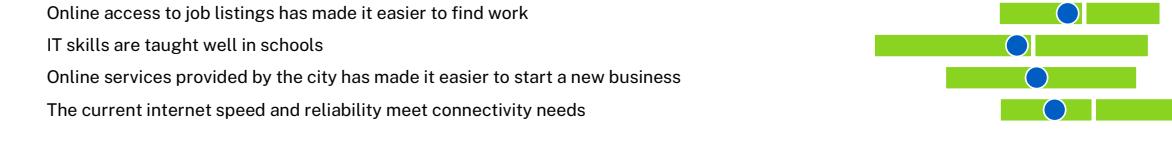
Mobility



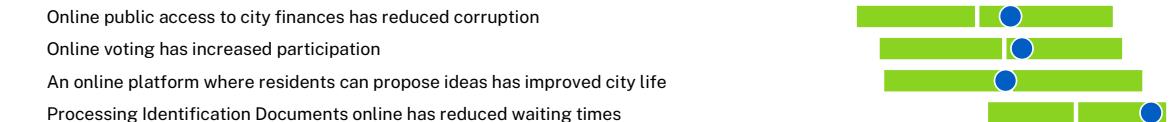
Activities



Opportunities (Work & School)



Governance



Amman

SMART
CITY
RANKING
128
Out of 142



135 in 2023
Out of 141

SMART
CITY RATING

D

D in 2023

FACTOR
RATINGS

D

STRUCTURES

C

TECHNOLOGIES

GROUP

4

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 4,010,000
(UN Data)

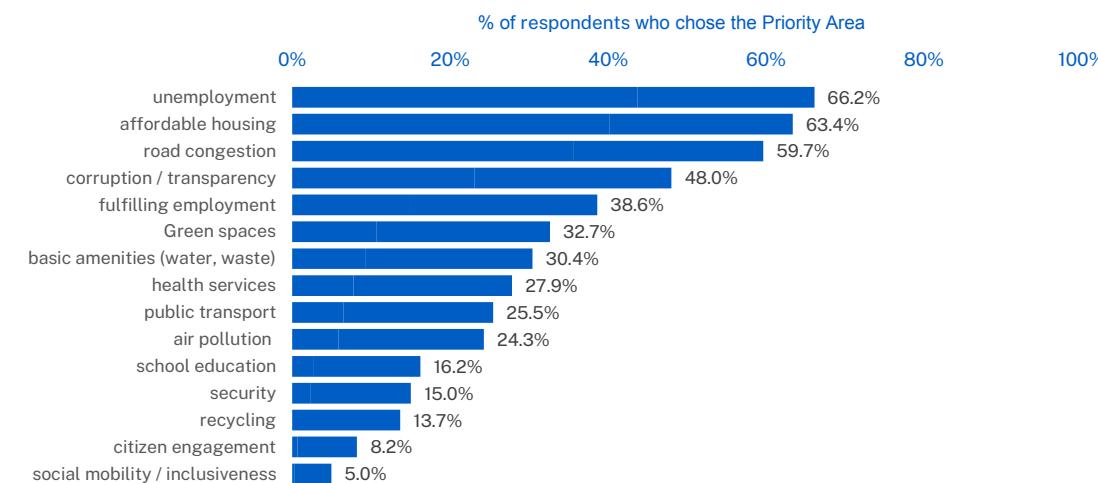
HDI 0.737
(Global Data Lab)



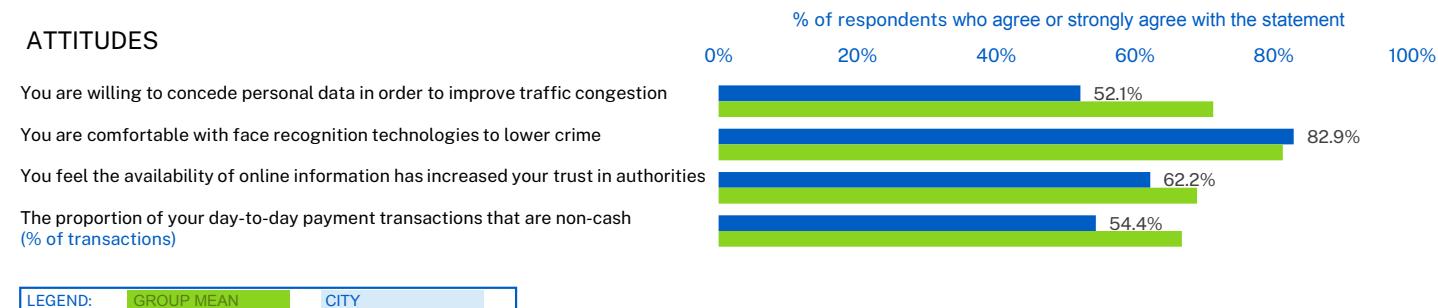
Country

Jordan	2019	2020	2021	2022	1 yr change
HDI	0.744	0.740	0.736	0.736	+0.000
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

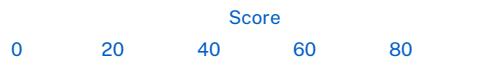


LEGEND: MIN CITY MEAN GROUP MAX

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



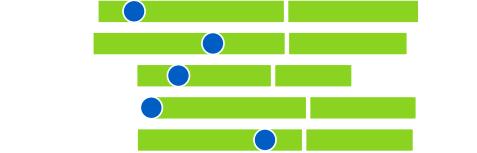
Activities

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



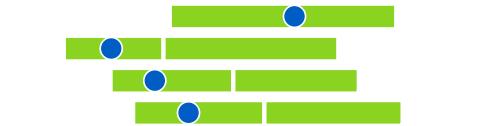
Opportunities (Work & School)

- 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
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- 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

- 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



Amsterdam

SMART
CITY
RANKING
18

Out of 142



15 in 2023
Out of 141

SMART
CITY RATING



A in 2023

FACTOR
RATINGS

BBB

STRUCTURES



TECHNOLOGIES

1

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 1,000,000
(Eurostat)

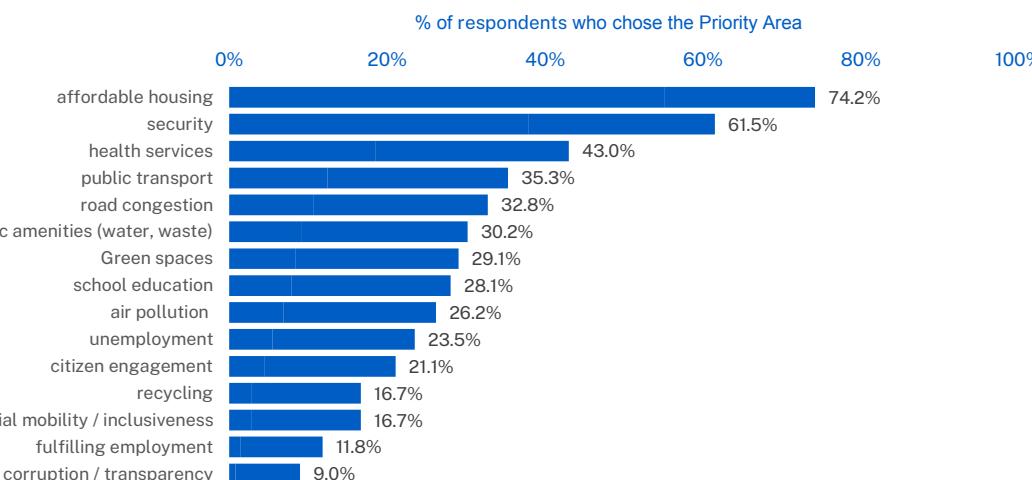


HDI 0.962
(Global Data Lab)

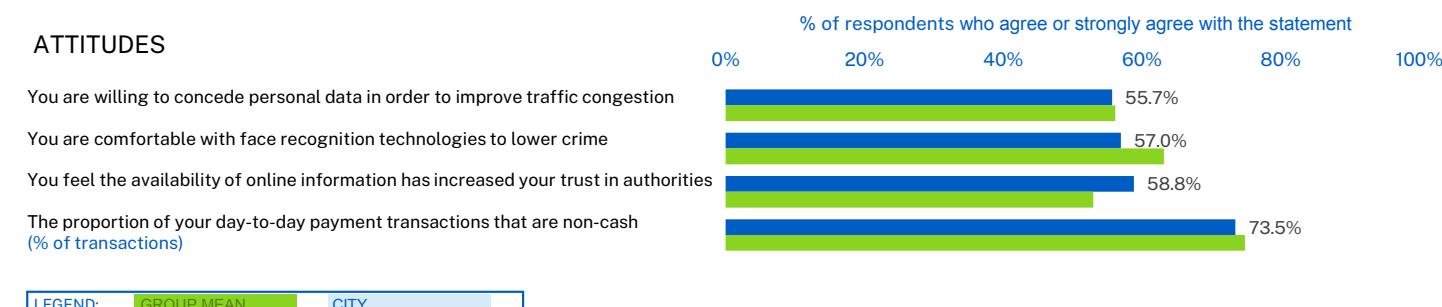
Country

Netherlands	2019	2020	2021	2022	1 yr change
HDI	0.941	0.938	0.941	0.946	+0.005
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

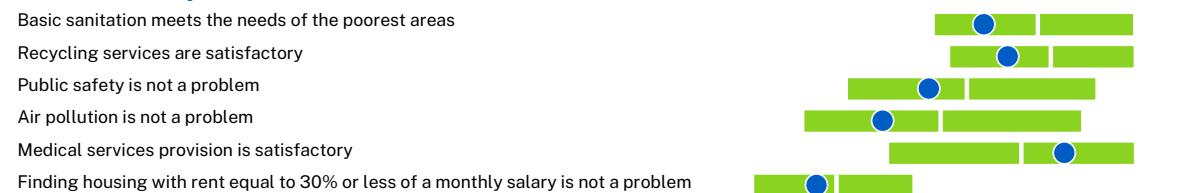


LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



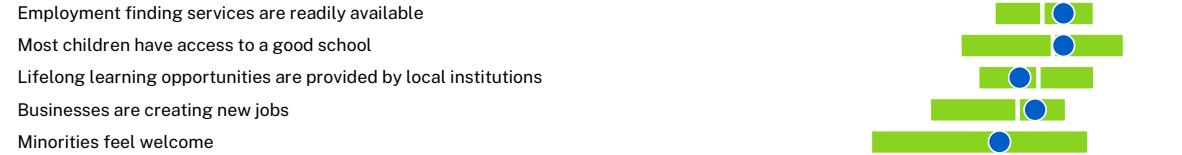
Mobility



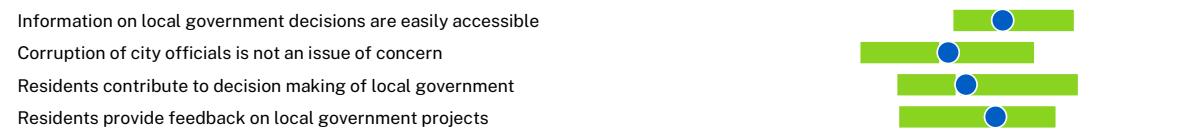
Activities



Opportunities (Work & School)



Governance

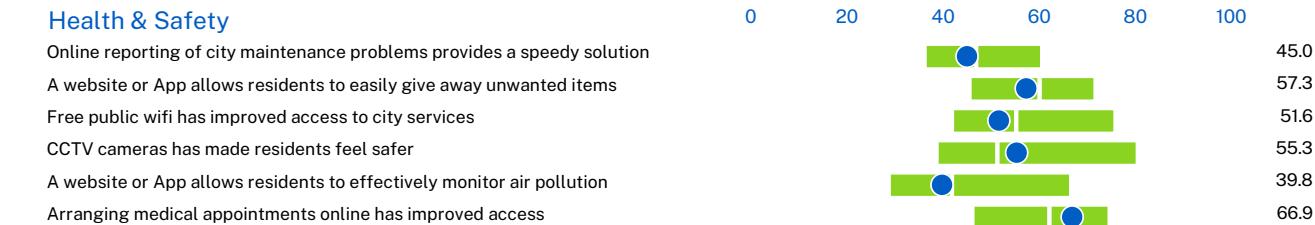


TECHNOLOGIES

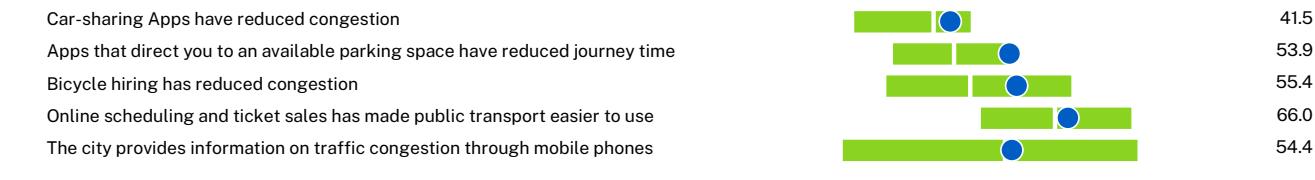
Score

0 20 40 60 80 100

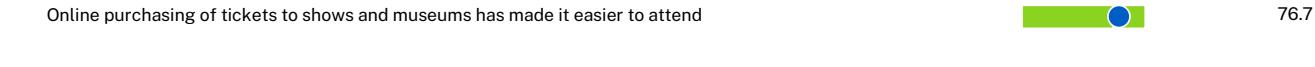
45.0 57.3 51.6 55.3 39.8 66.9



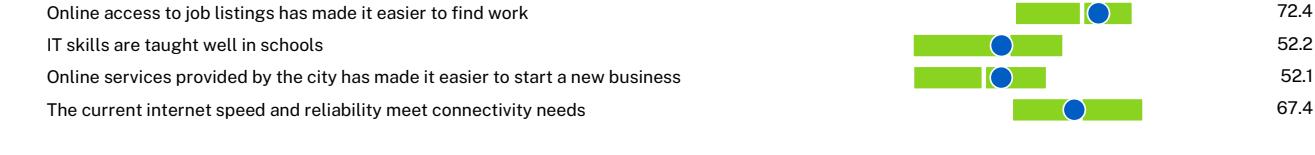
Mobility



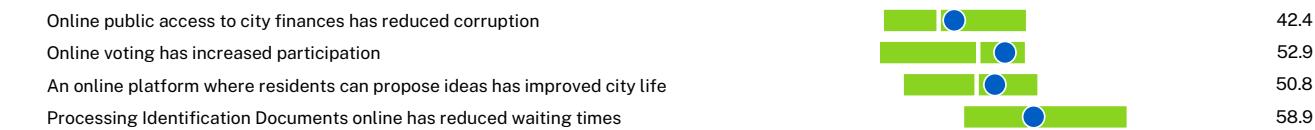
Activities



Opportunities (Work & School)



Governance



Ankara

SMART
CITY
RANKING
96
Out of 142

90 in 2023
Out of 141

SMART
CITY RATING

CCC

CCC in 2023

FACTOR
RATINGS

CCC

STRUCTURES

CCC

TECHNOLOGIES

GROUP

3

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 5,120,000
(UN World Urbanization Prospects)

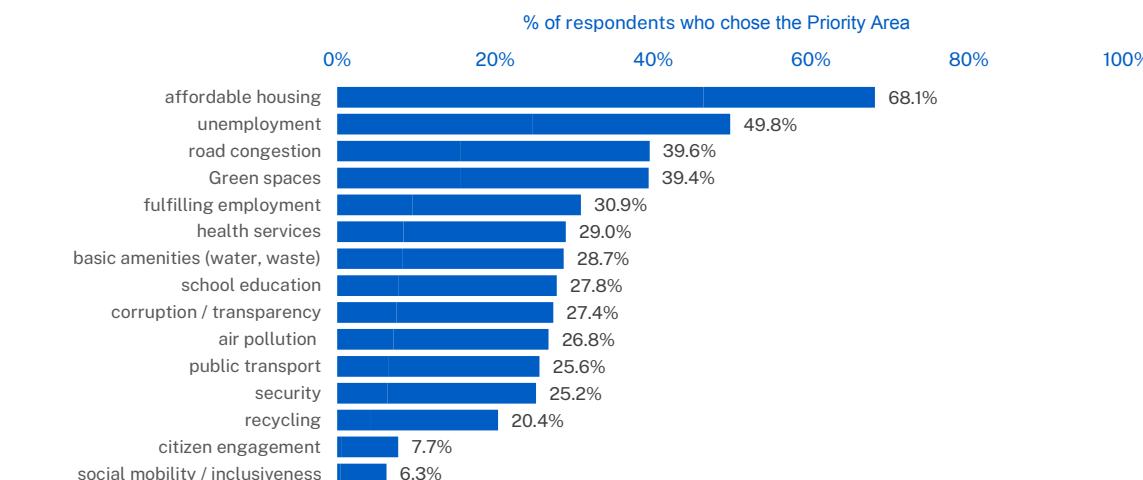
HDI 0.854
(Global Data Lab)



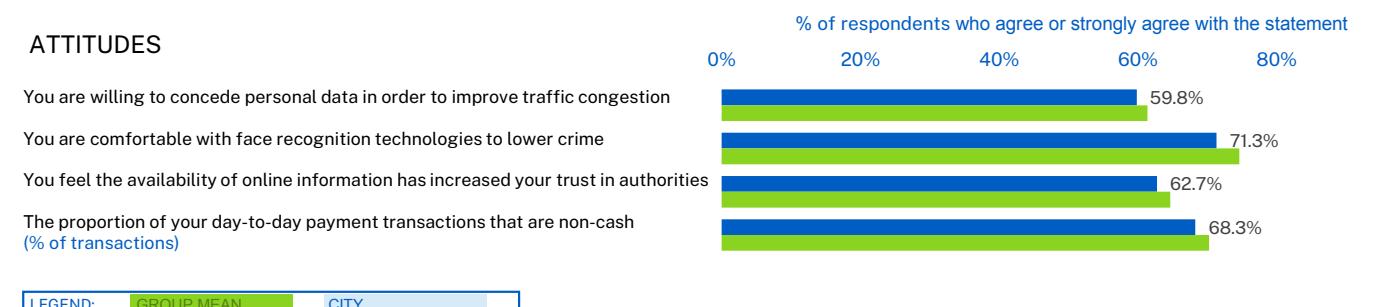
Country

Turkey	2019	2020	2021	2022	1 yr change
HDI	0.842	0.835	0.841	0.855	+0.014
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

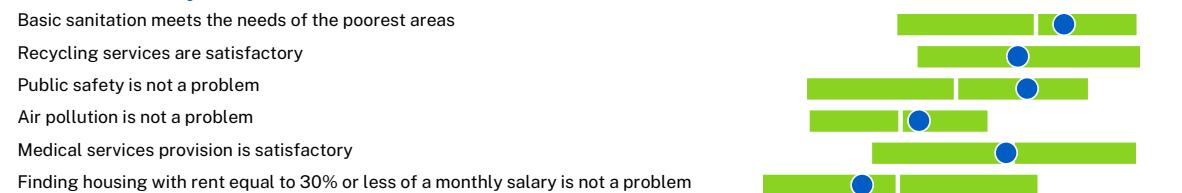


LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



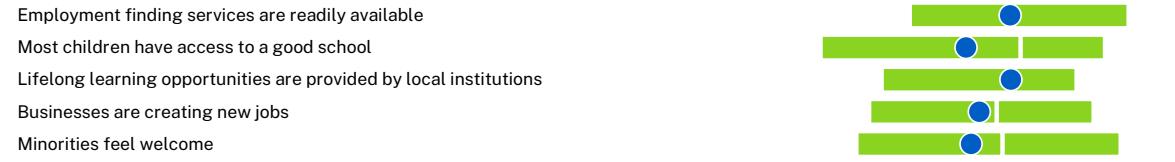
Mobility



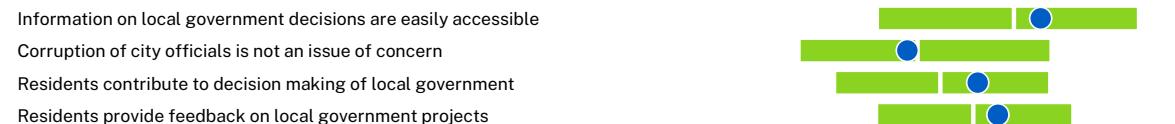
Activities



Opportunities (Work & School)



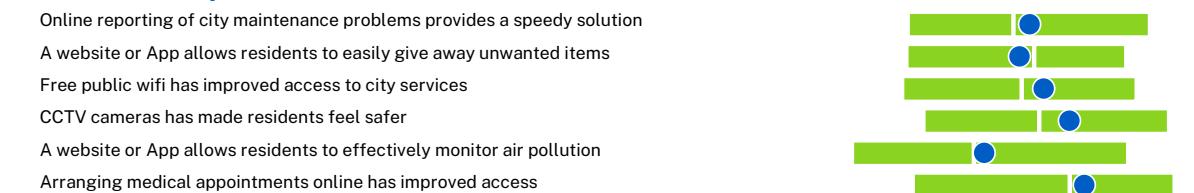
Governance



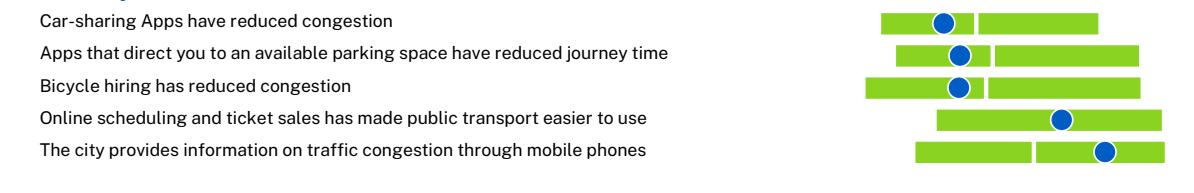
TECHNOLOGIES

LEGEND: MIN CITY MEAN GROUP MAX

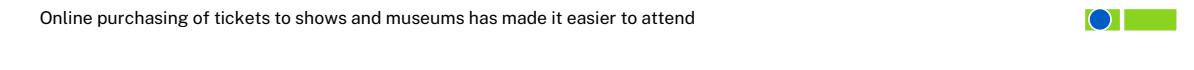
Health & Safety



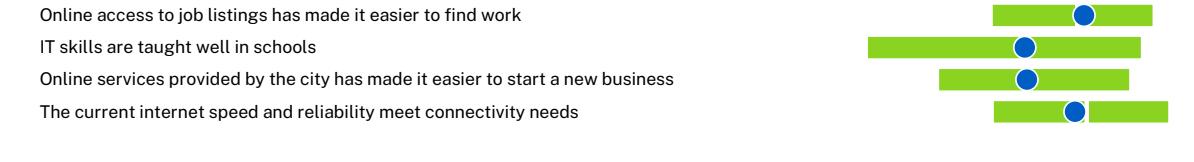
Mobility



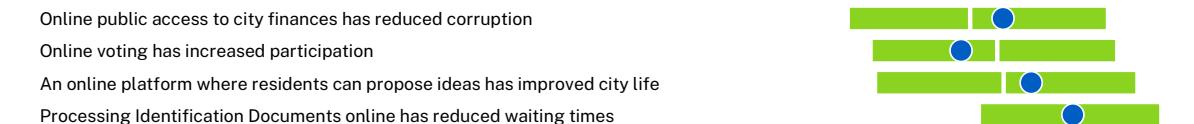
Activities



Opportunities (Work & School)



Governance



Athens

SMART
CITY
RANKING
120
Out of 142

113 in 2023
Out of 141

SMART
CITY RATING

C

C in 2023

FACTOR
RATINGS

C

STRUCTURES

C

TECHNOLOGIES

3

All ratings range
from AAA to D

BACKGROUND INFORMATION

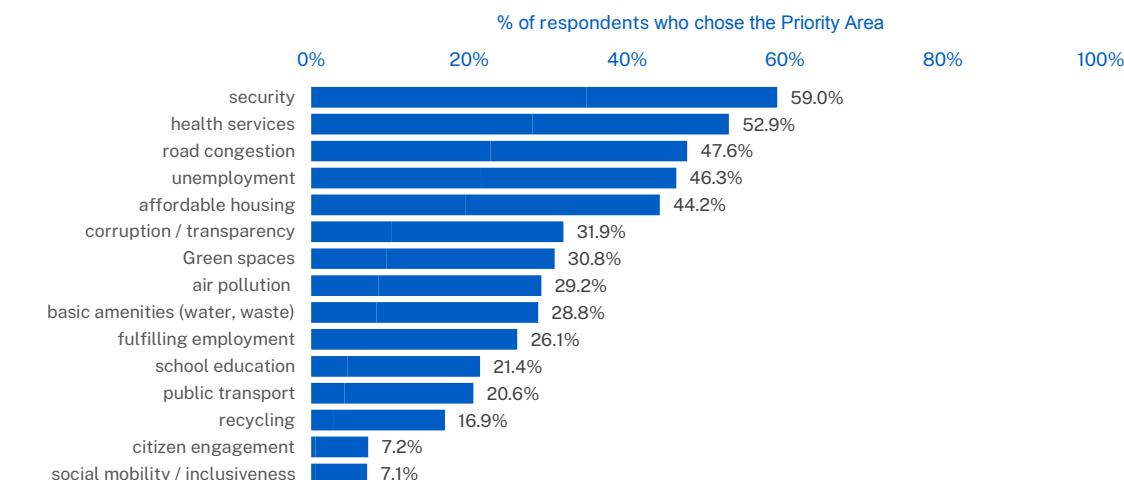
City

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

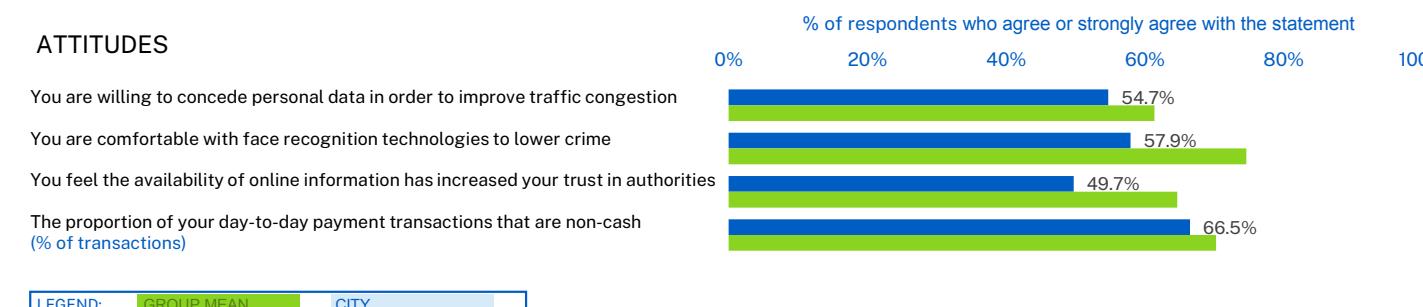
HDI 0.909
(Global Data Lab)



PRIORITY AREAS



ATTITUDES

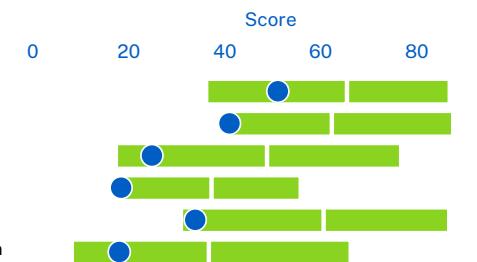


LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

Health & Safety

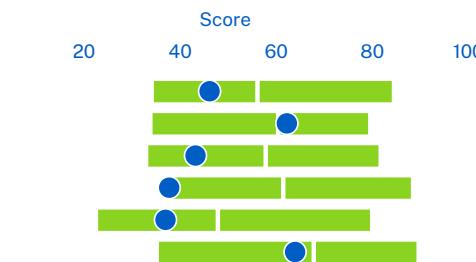
- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem



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



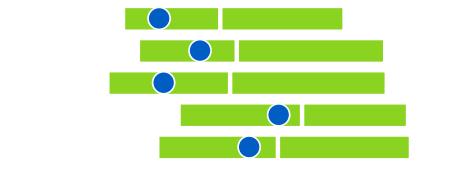
Mobility

- 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



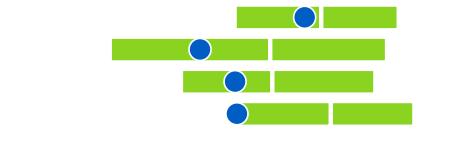
Opportunities (Work & School)

- 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



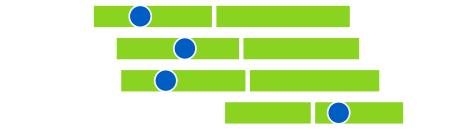
Governance

- 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



Auckland

SMART
CITY
RANKING
31

Out of 142



22 in 2023
Out of 141

SMART
CITY RATING

BBB

A in 2023

FACTOR
RATINGS

BBB

STRUCTURES

A

TECHNOLOGIES

1

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 1,610,000
(UN World Urbanization Prospects)

HDI 0.951
(Global Data Lab)

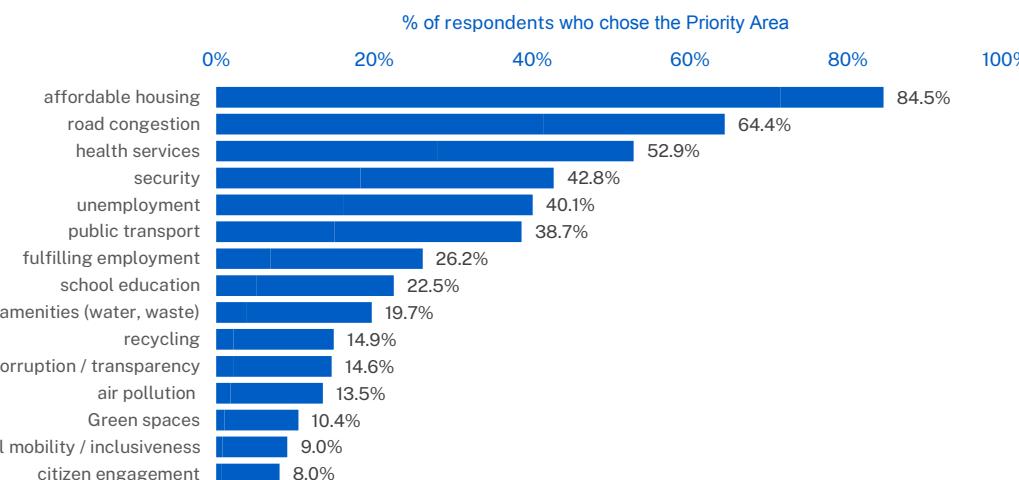


Map tiles by Stamen Design CC BY 3.0 Map Data © OpenStreetMap

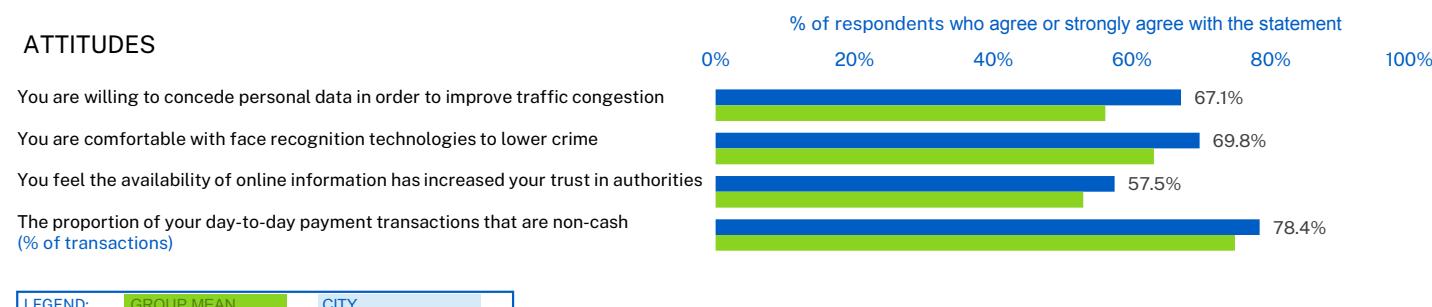
Country

New Zealand	2019	2020	2021	2022	1 yr change
HDI	0.937	0.935	0.936	0.939	+0.003
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

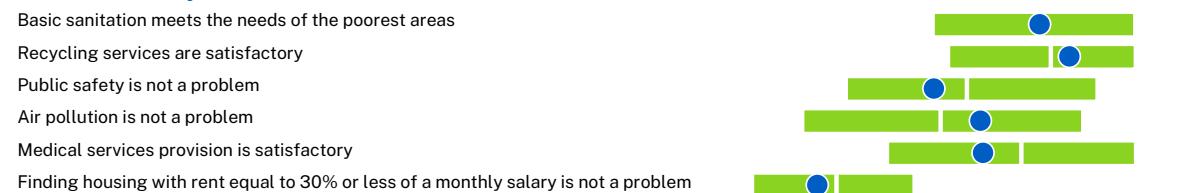


LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



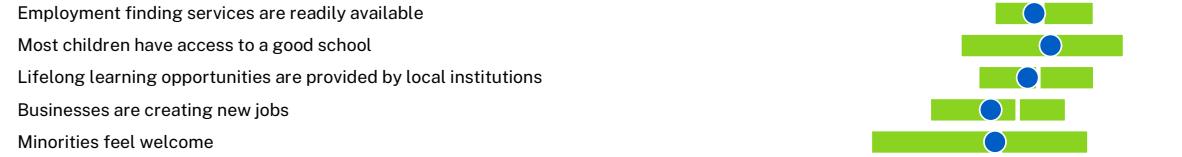
Mobility



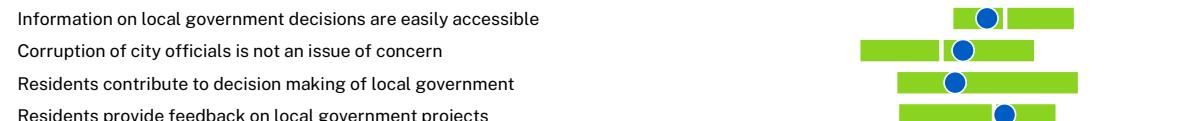
Activities



Opportunities (Work & School)

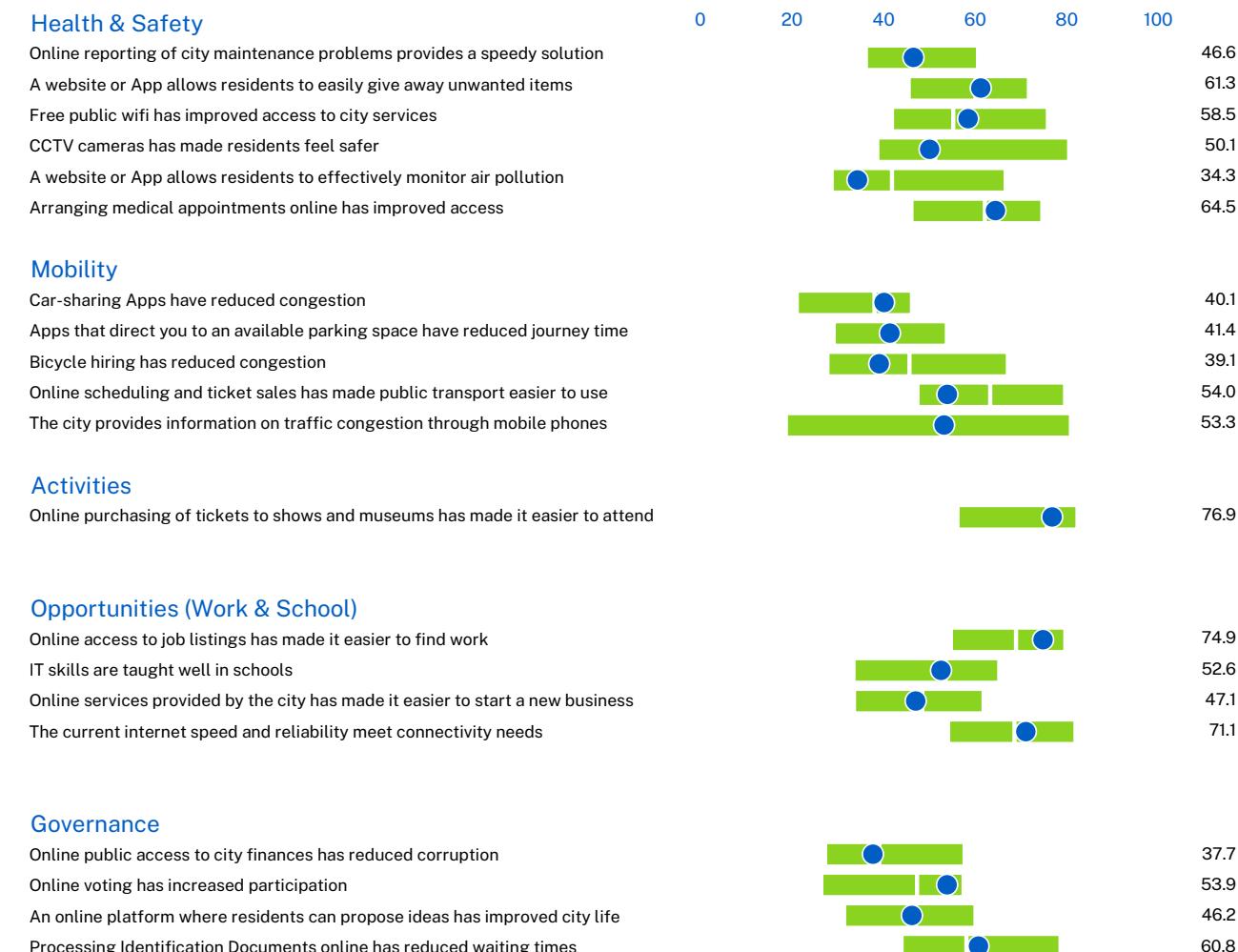


Governance



TECHNOLOGIES

Score



Bangkok

SMART
CITY
RANKING
84

Out of 142



88 in 2023
Out of 141

SMART
CITY RATING

CCC

B in 2023

FACTOR
RATINGS

CCC

STRUCTURES

B

TECHNOLOGIES

GROUP

3

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 10,540,000
(UN World Urbanization Prospects)

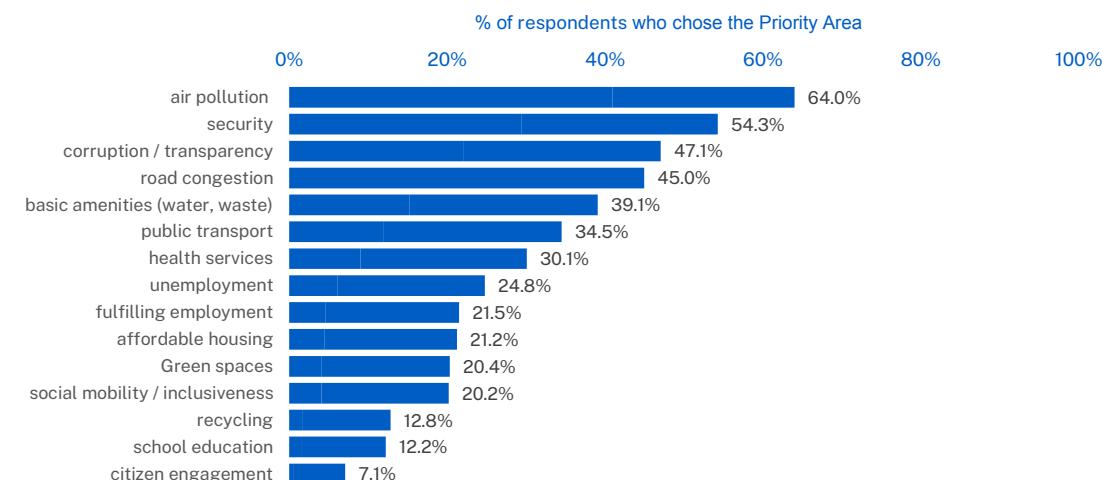
HDI 0.839
(Global Data Lab)



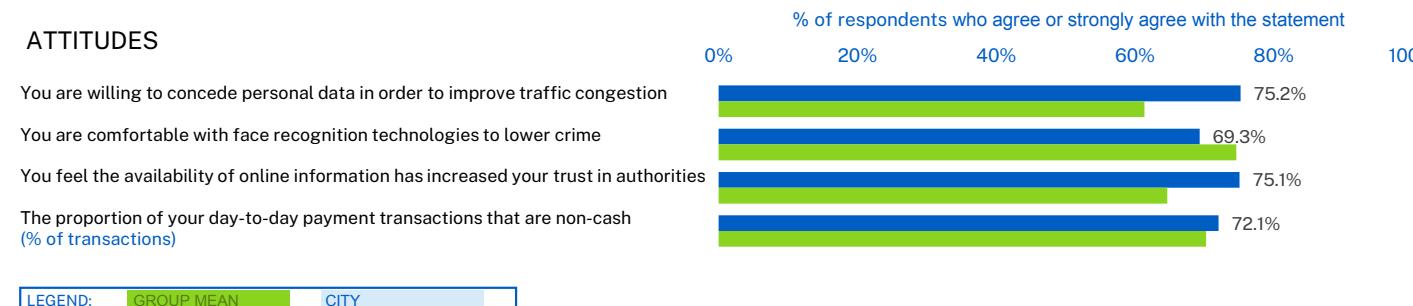
Country

Thailand	2019	2020	2021	2022	1 yr change
HDI	0.801	0.800	0.797	0.803	+0.006
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

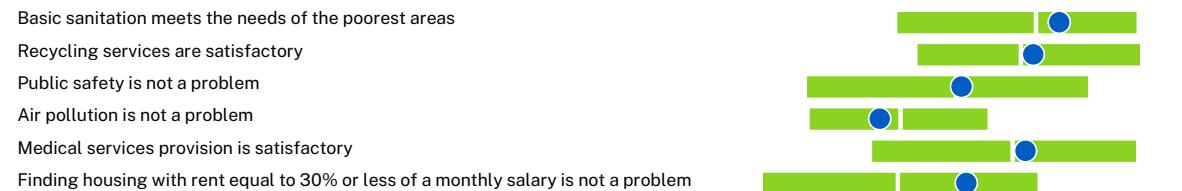


LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



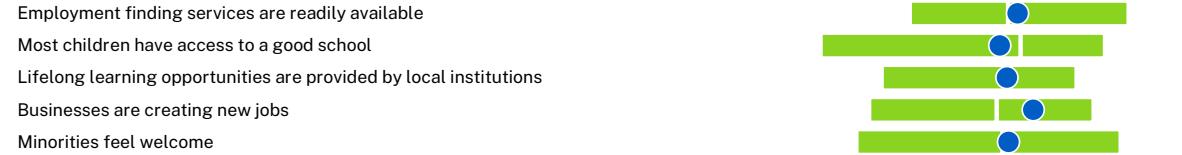
Mobility



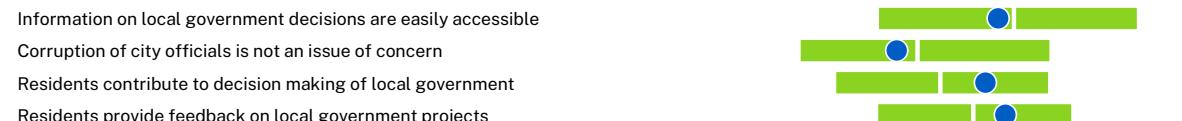
Activities



Opportunities (Work & School)



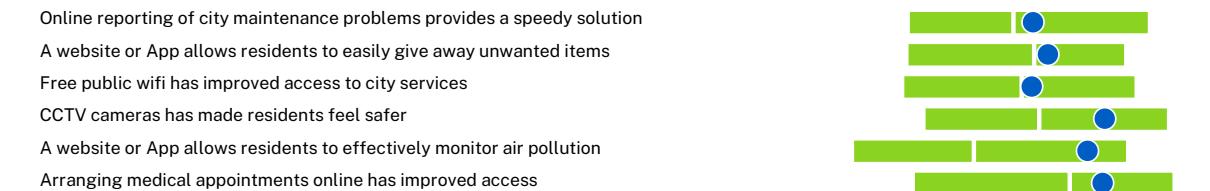
Governance



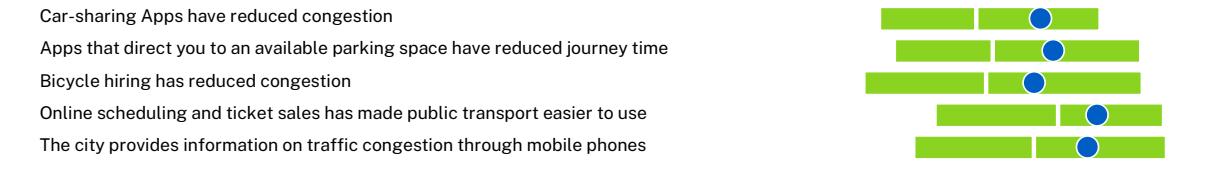
TECHNOLOGIES

LEGEND: MIN CITY MEAN GROUP MAX

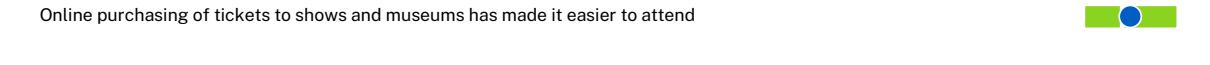
Health & Safety



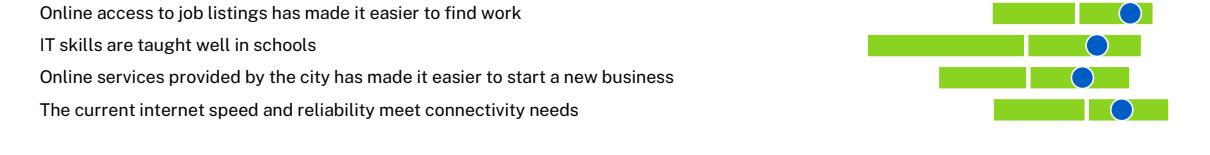
Mobility



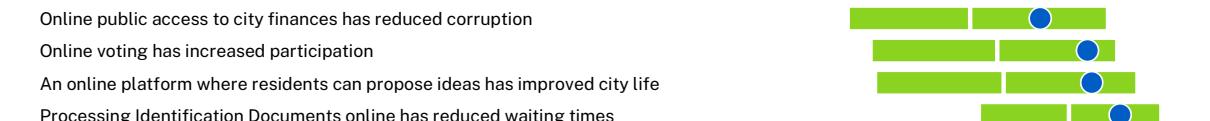
Activities



Opportunities (Work & School)



Governance



Barcelona

SMART
CITY
RANKING
81

Out of 142



75 in 2023
Out of 141

SMART
CITY RATING

BB

BB in 2023

FACTOR
RATINGS

BB

STRUCTURES

BB

TECHNOLOGIES

2

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 1,640,000
(Eurostat)

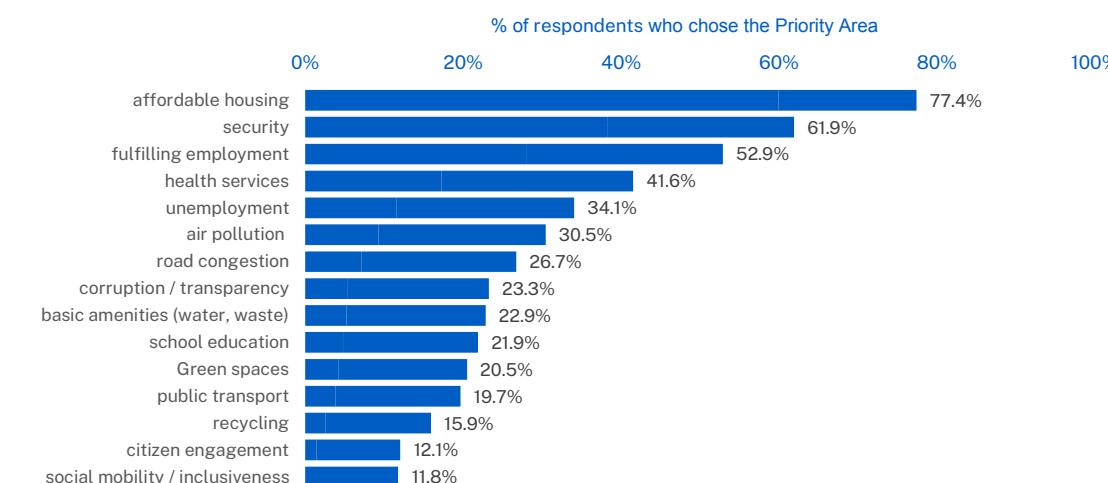
HDI 0.916
(Global Data Lab)



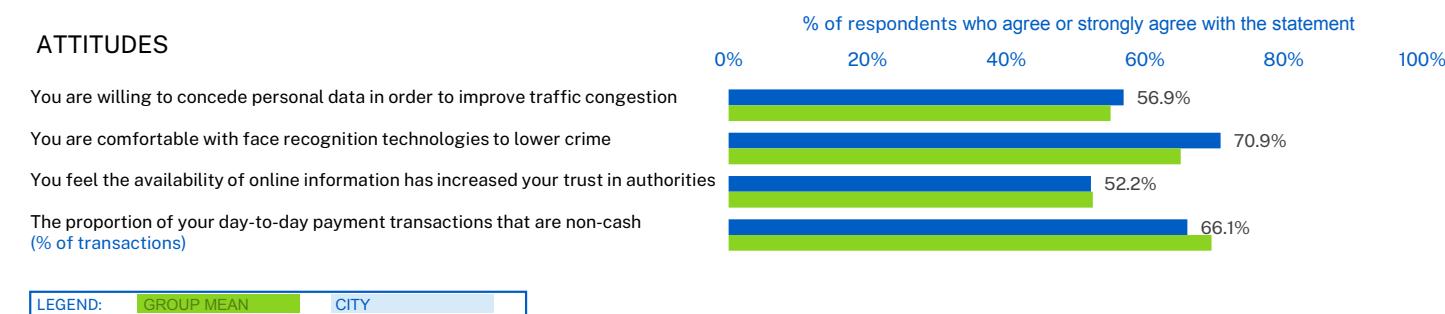
Country

Spain	2019	2020	2021	2022	1 yr change
HDI	0.904	0.894	0.904	0.911	+0.007
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

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

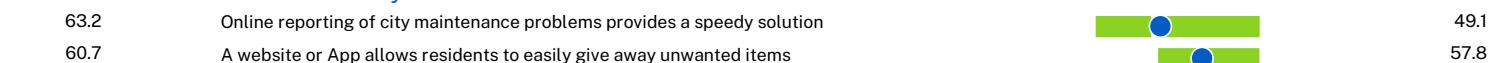
Health & Safety

- 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



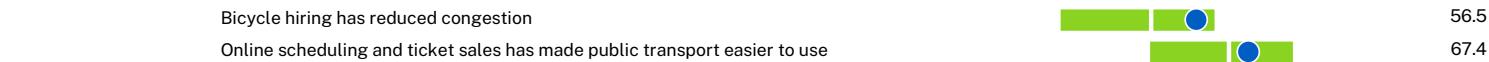
Mobility

- 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



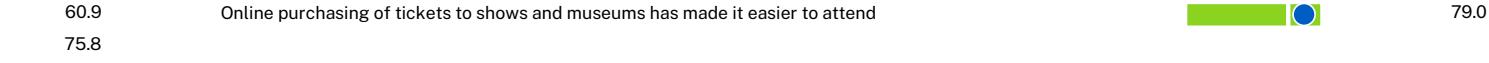
Activities

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



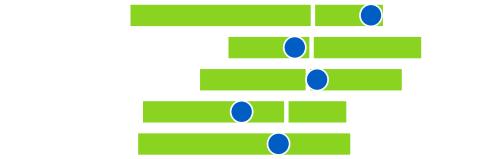
Activities

- 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



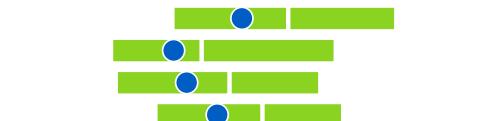
Opportunities (Work & School)

- 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



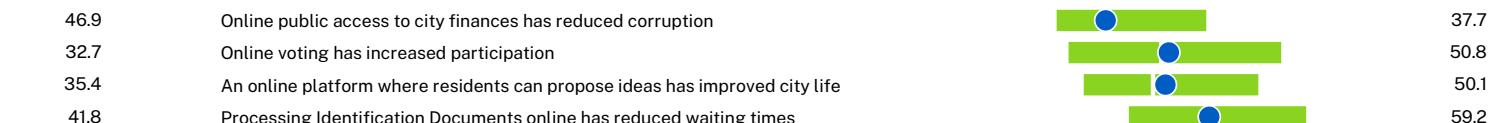
Governance

- 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



Beijing

SMART
CITY
RANKING
13

Out of 142



12 in 2023
Out of 141

SMART
CITY RATING

BB

BB in 2023

FACTOR
RATINGS

BB

STRUCTURES

BB

TECHNOLOGIES

GROUP

3

All ratings range
from AAA to D

BACKGROUND INFORMATION

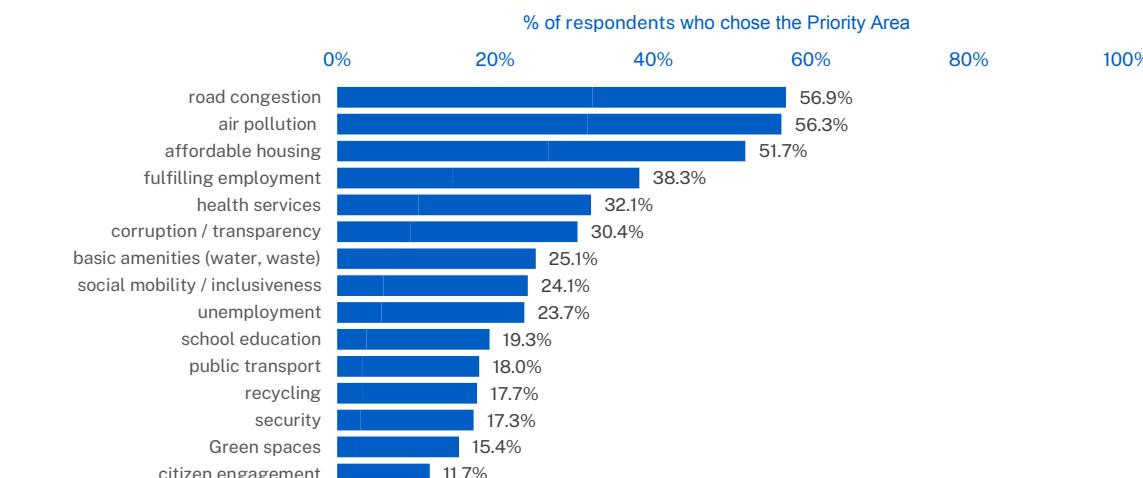
City

Population 20,460,000
(UN World Urbanization Prospects)

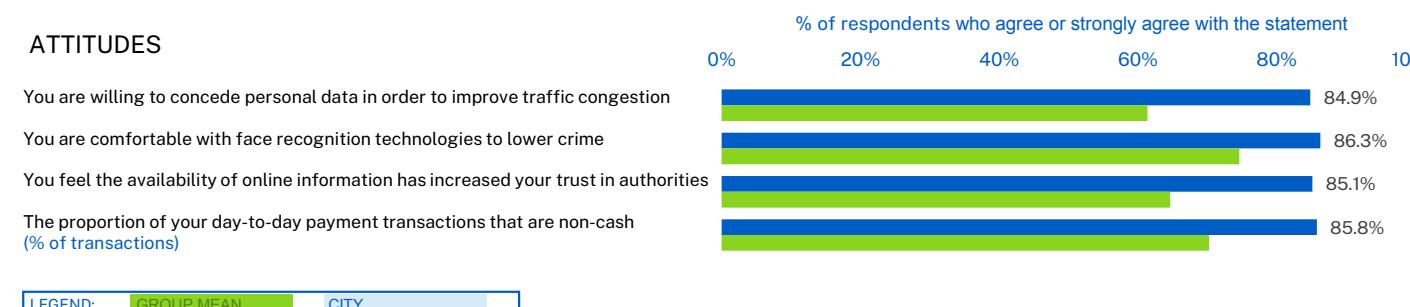
HDI 0.907
(Global Data Lab)



PRIORITY AREAS



ATTITUDES

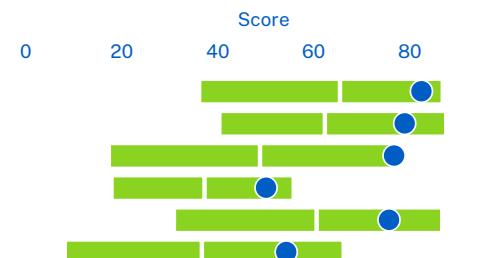


LEGEND: MIN CITY MEAN GROUP MAX

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

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

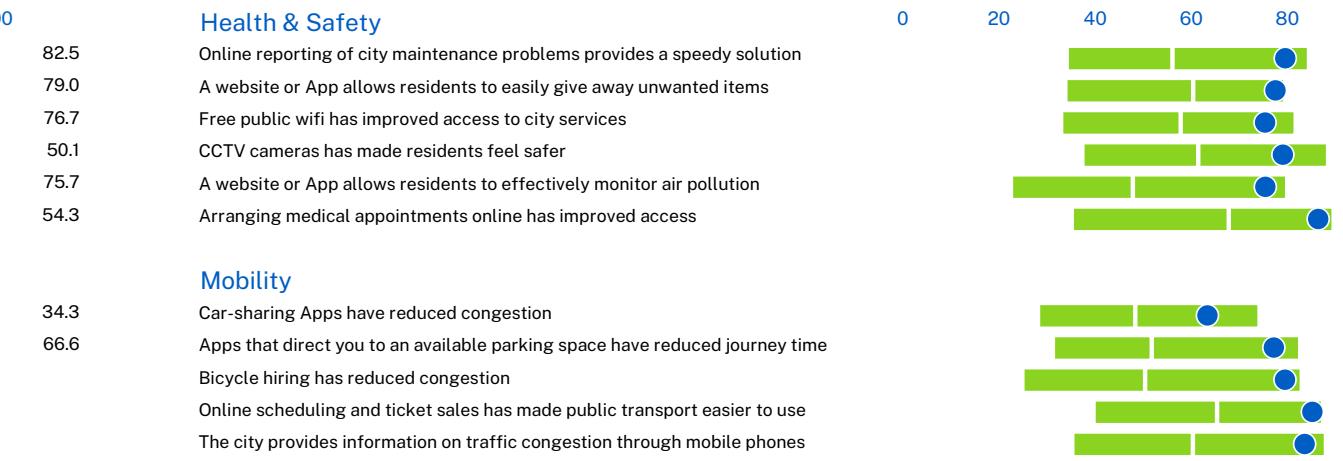
Activities

- 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

TECHNOLOGIES



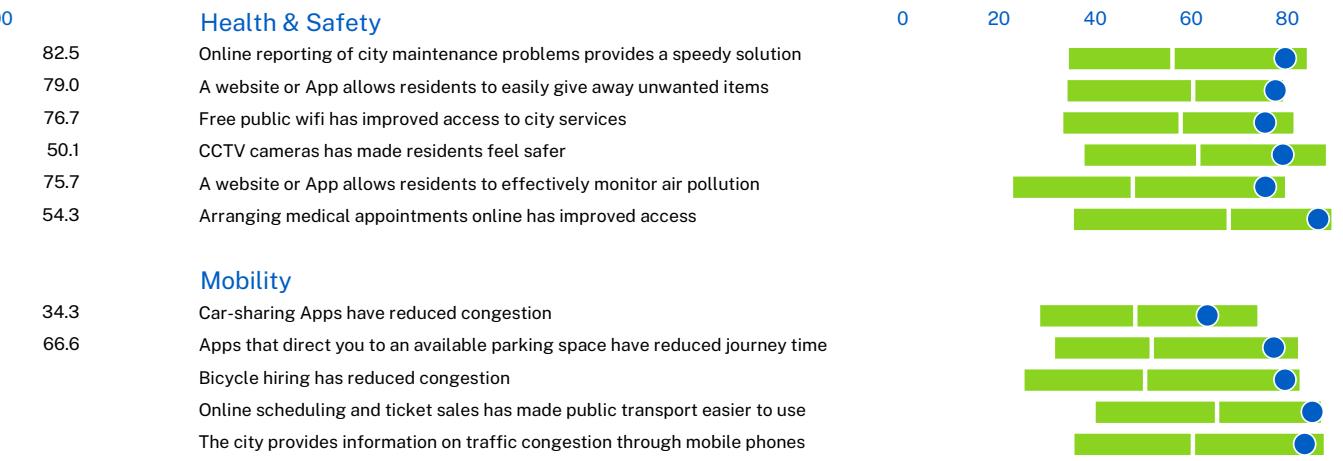
Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
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- Businesses are creating new jobs
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Opportunities (Work & School)

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- Online services provided by the city has made it easier to start a new business
- The current internet speed and reliability meet connectivity needs

TECHNOLOGIES



Governance

- Information on local government decisions are easily accessible
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- 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

GROUP

3

All ratings range
from AAA to D

Beirut

SMART
CITY
RANKING
140
Out of 142

139 in 2023
Out of 141

SMART
CITY RATING

D

D in 2023

FACTOR
RATINGS

D

STRUCTURES
TECHNOLOGIES
D

4

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 2,430,000
(UN World Urbanization Prospects)

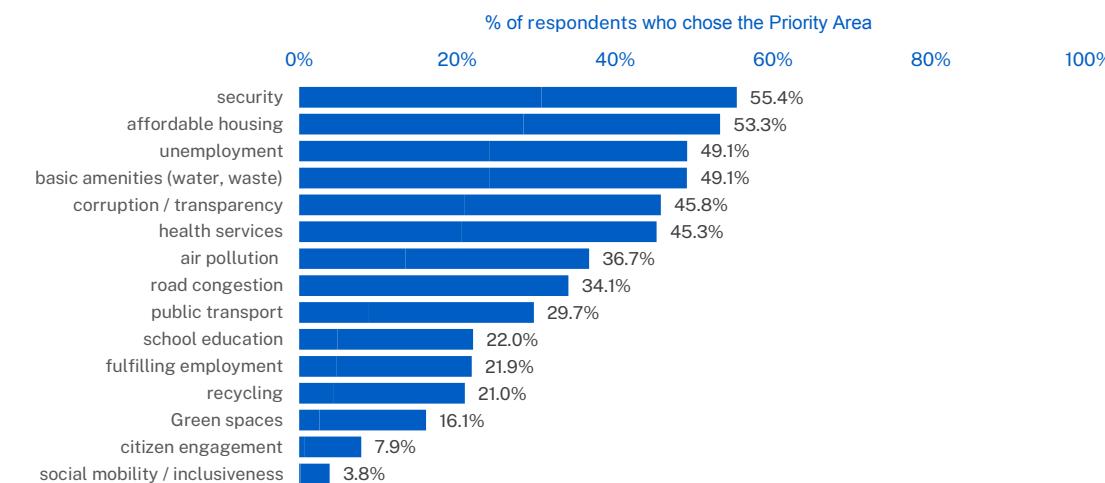
HDI 0.677
(Global Data Lab)



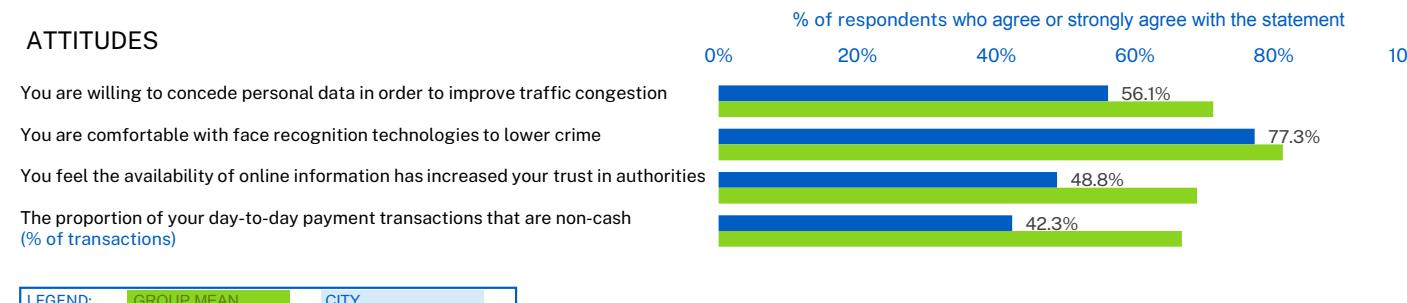
Country

Lebanon	2019	2020	2021	2022	1 yr change
HDI	0.760	0.742	0.725	0.723	-0.002
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: 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

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

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

Belfast

SMART
CITY
RANKING
101
Out of 142



95 in 2023
Out of 141

SMART
CITY RATING

CC

CC in 2023

FACTOR
RATINGS

CCC

STRUCTURES

C

TECHNOLOGIES

GROUP

3

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 340,000
(Eurostat)

HDI 0.896
(Global Data Lab)

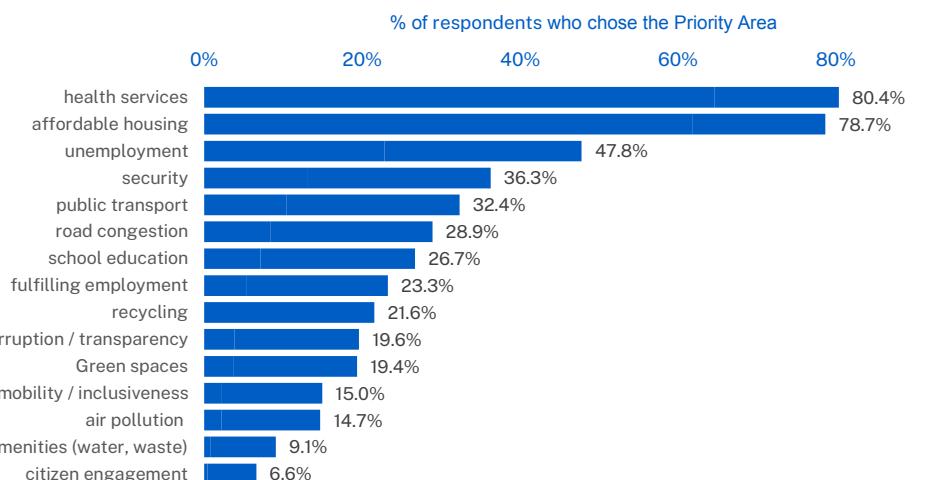


Country

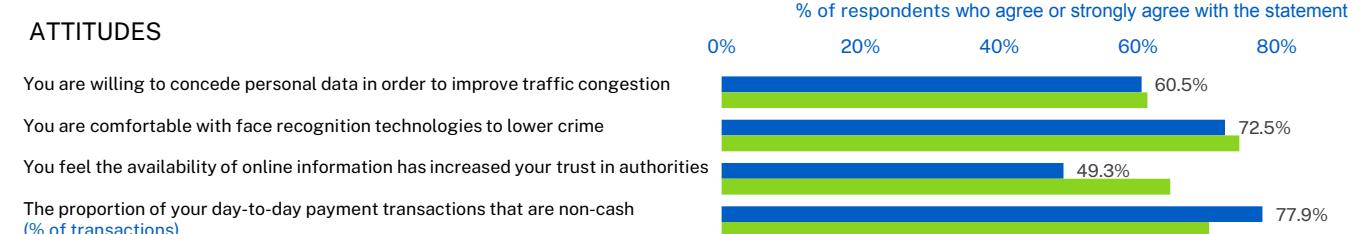
United Kingdom	2019	2020	2021	2022	1 yr change
HDI	0.933	0.920	0.931	0.940	+0.009
Life expectancy at birth	81.7	80.4	80.7	82.2	+1.4
Expected years of schooling	17.2	17.2	17.6	17.6	+0.0
Mean years of schooling	13.3	13.4	13.4	13.4	+0.0
GNI per capita (PPP \$)	47,066	40,799	44,750	46,624	+1,874

PRIORITY AREAS

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

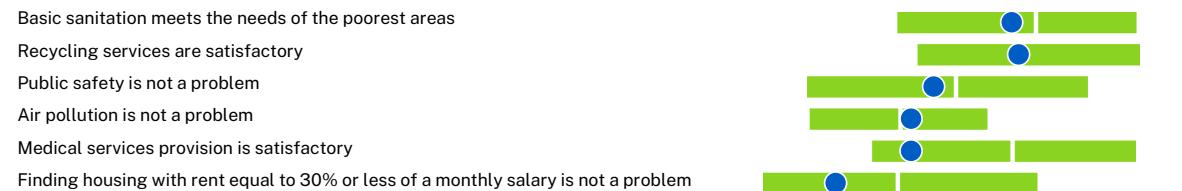


LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



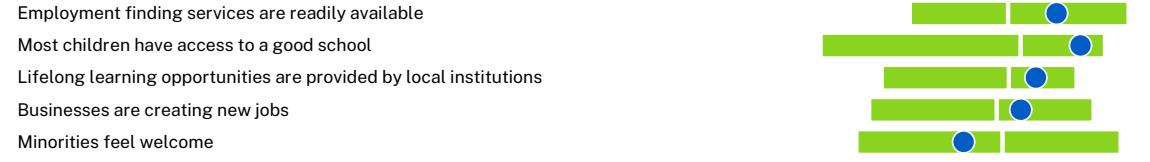
Mobility



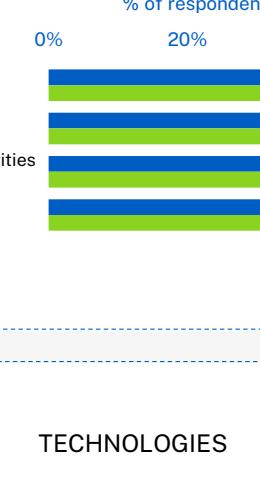
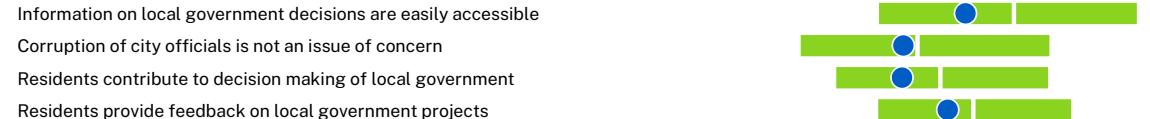
Activities



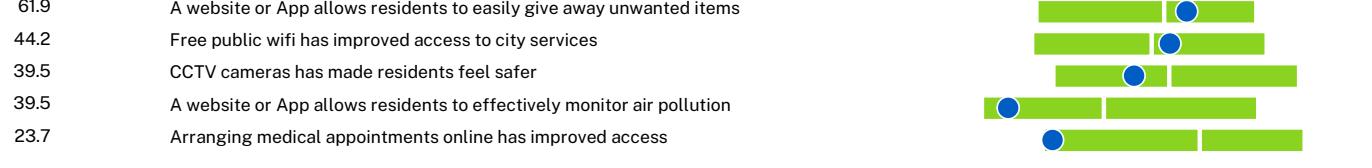
Opportunities (Work & School)



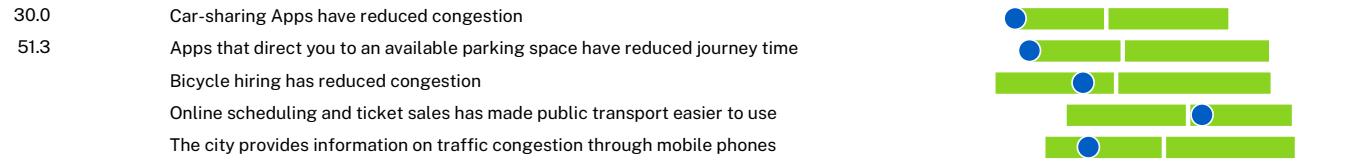
Governance



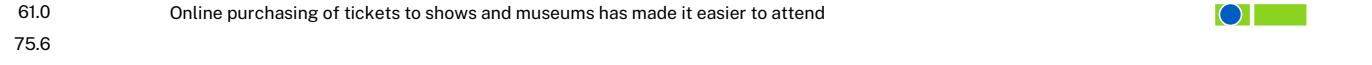
Health & Safety



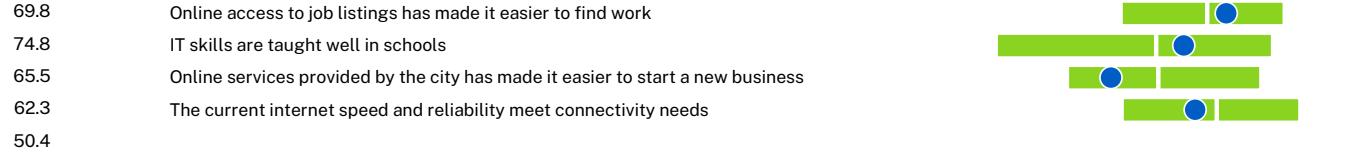
Mobility



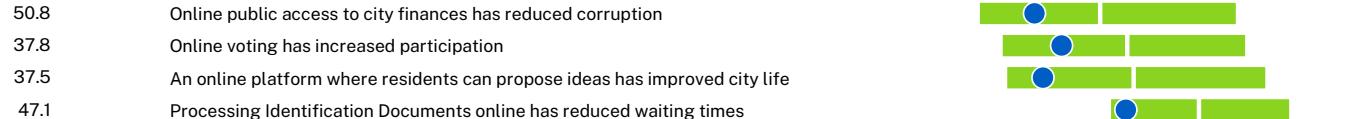
Activities



Opportunities (Work & School)



Governance



Bengaluru

SMART
CITY
RANKING
109
Out of 142



110 in 2023
Out of 141

SMART
CITY RATING

CCC

CC in 2023

FACTOR
RATINGS

CCC

STRUCTURES

CCC

TECHNOLOGIES

GROUP

4

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 12,330,000
(UN World Urbanization Prospects)

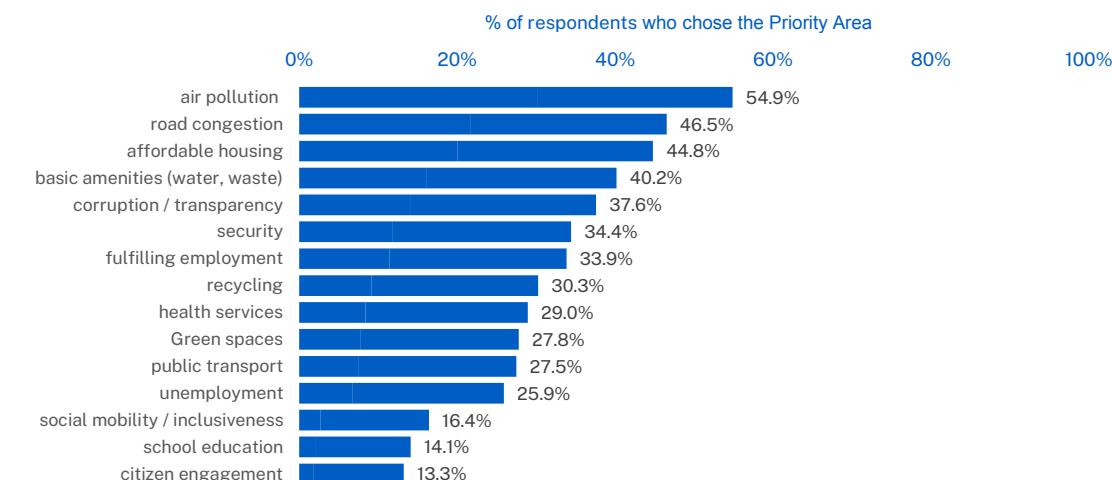
HDI 0.667
(Global Data Lab)



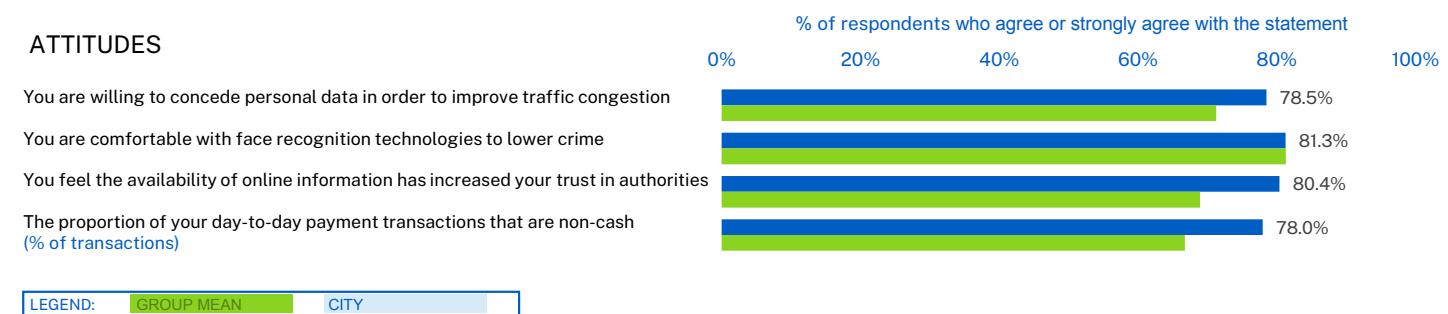
Country

India	2019	2020	2021	2022	1 yr change
HDI	0.638	0.638	0.633	0.644	+0.011
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

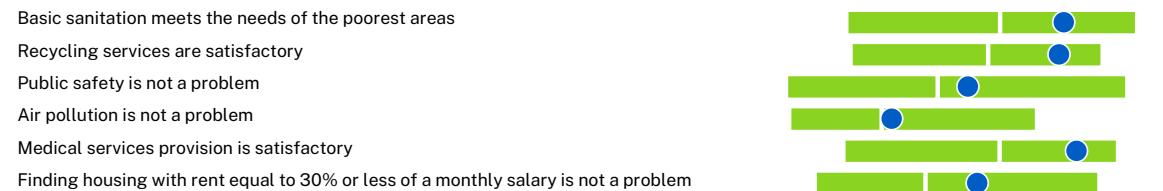


LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



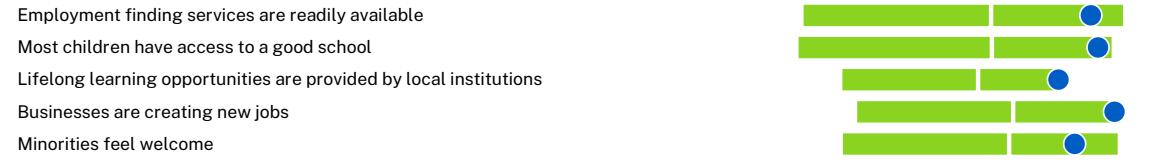
Mobility



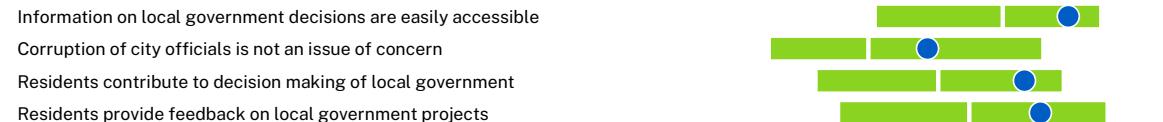
Activities



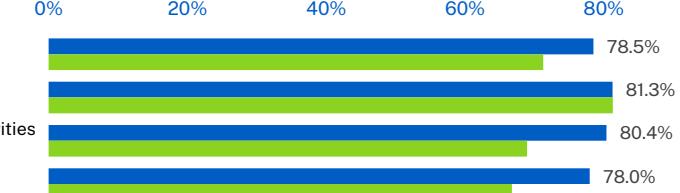
Opportunities (Work & School)



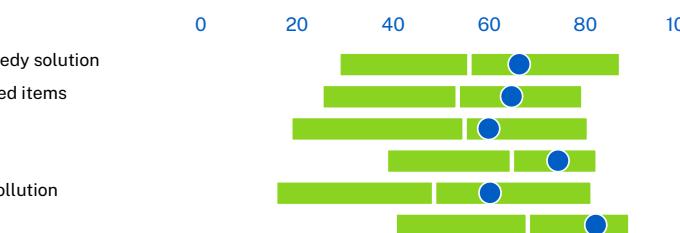
Governance



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



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



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



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



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



Berlin

SMART
CITY
RANKING
37

Out of 142



33 in 2023
Out of 141

SMART
CITY RATING

BBB

BBB in 2023

FACTOR
RATINGS

BBB

STRUCTURES

BBB

TECHNOLOGIES

GROUP

1

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

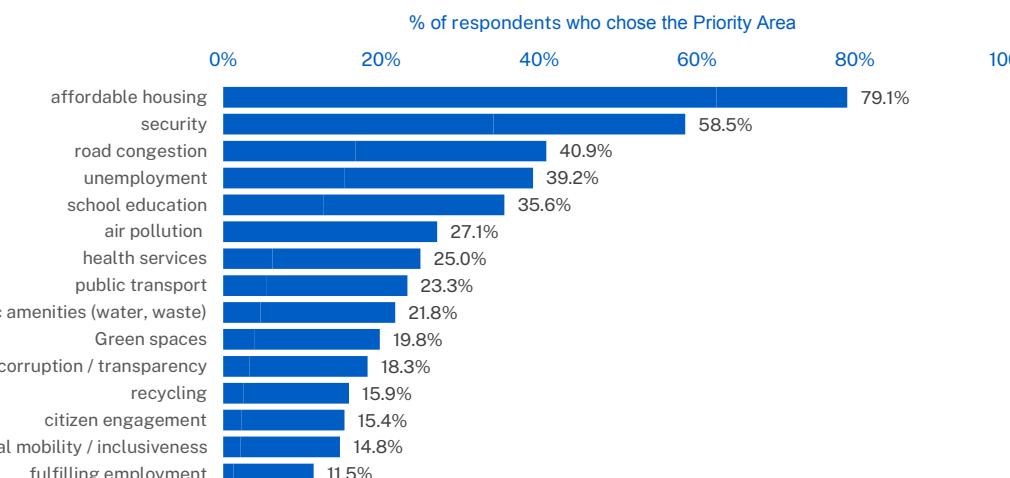
Population 3,670,000
(Eurostat)



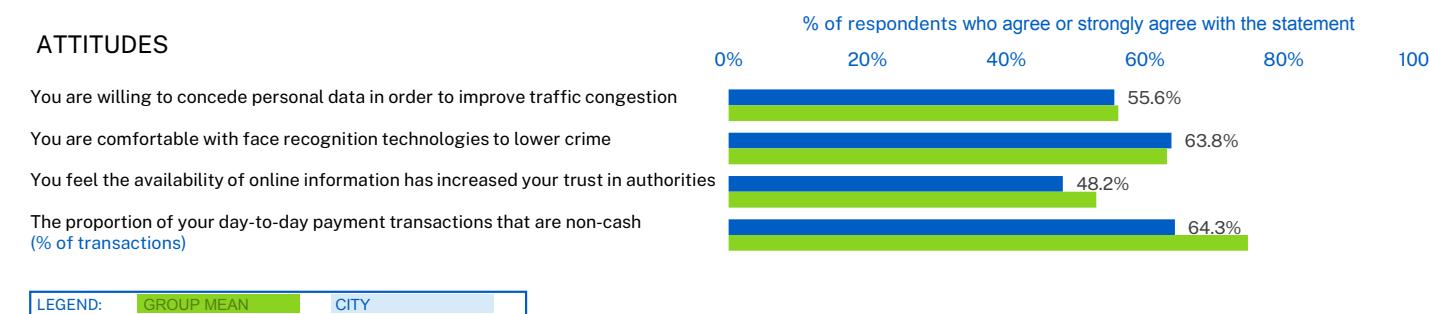
Country

Germany	2019	2020	2021	2022	1 yr change
HDI	0.951	0.948	0.948	0.950	+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

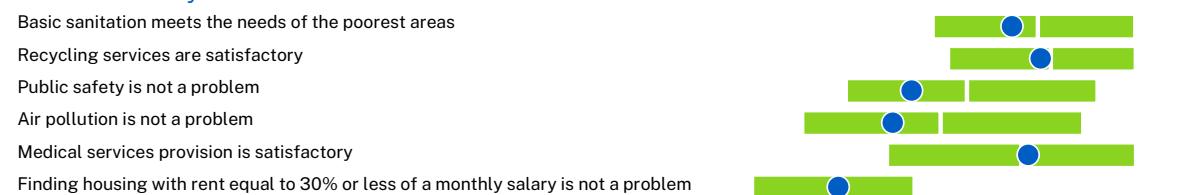


LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



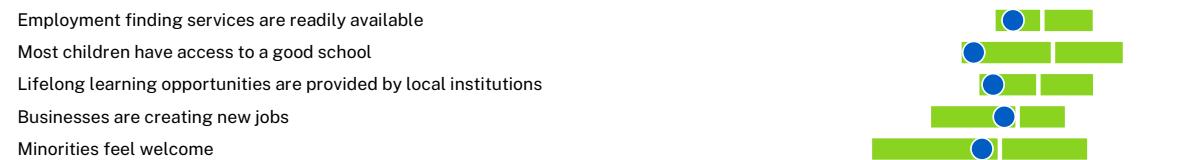
Mobility



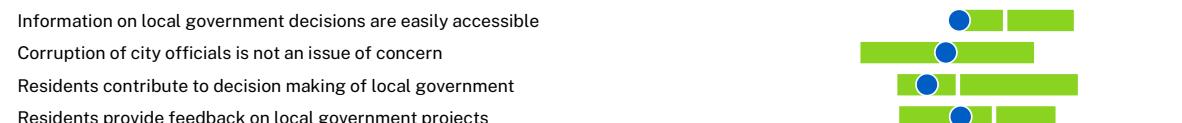
Activities



Opportunities (Work & School)



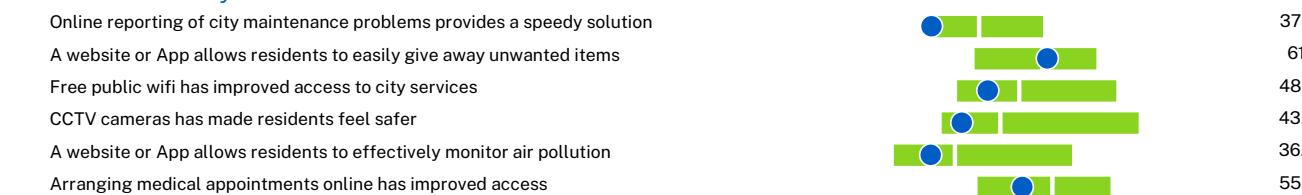
Governance



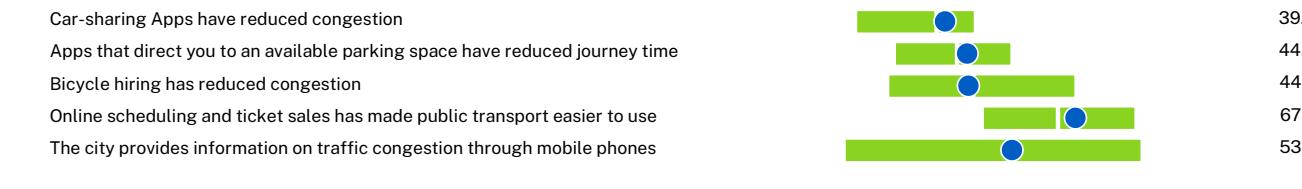
TECHNOLOGIES

LEGEND: MIN CITY MEAN GROUP MAX

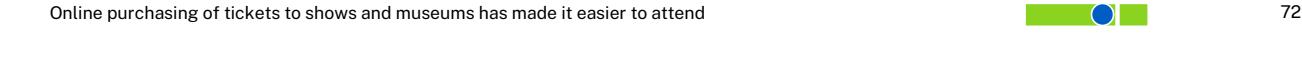
Health & Safety



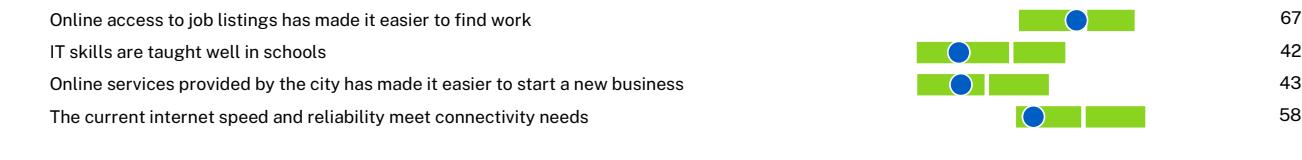
Mobility



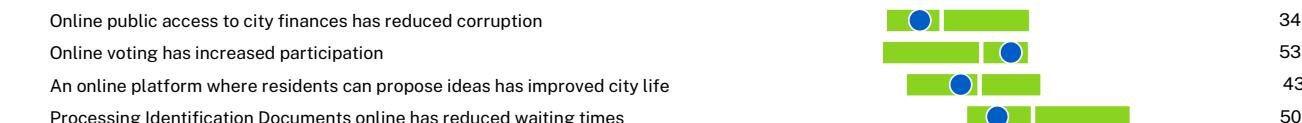
Activities



Opportunities (Work & School)



Governance



Bilbao

SMART
CITY
RANKING
29

Out of 142



27 in 2023
Out of 141

SMART
CITY RATING

BBB

BBB in 2023

FACTOR
RATINGS

BB

STRUCTURES

BB

TECHNOLOGIES

2

All ratings range
from AAA to D

BACKGROUND INFORMATION

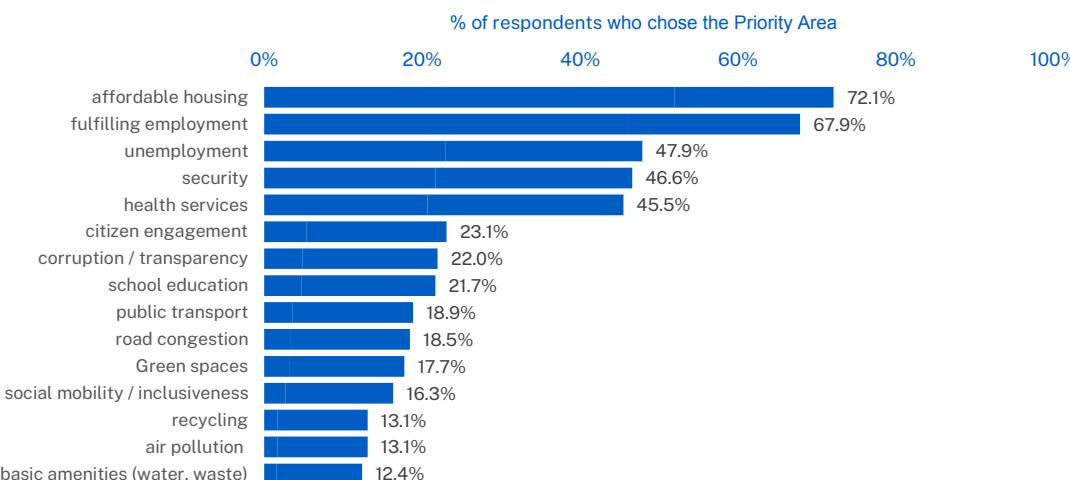
City

Population 350,000
(Eurostat)

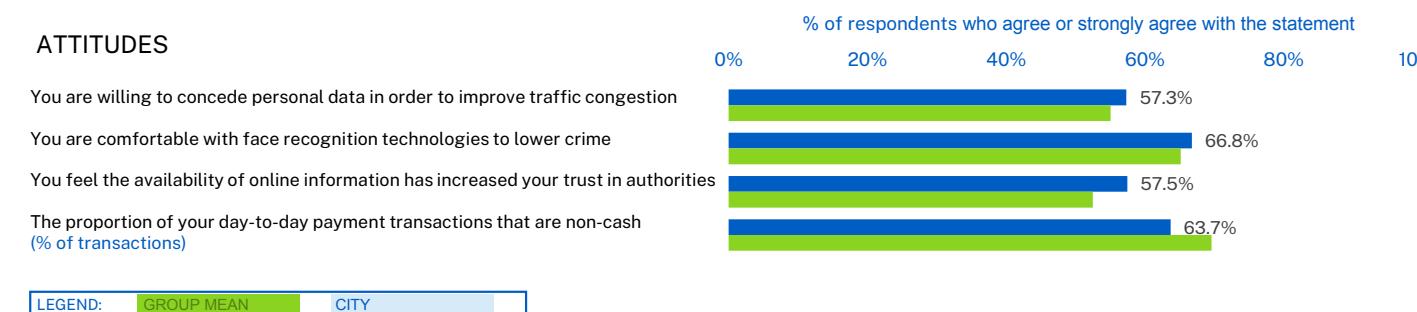
HDI 0.932
(Global Data Lab)



PRIORITY AREAS



ATTITUDES



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

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

- 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

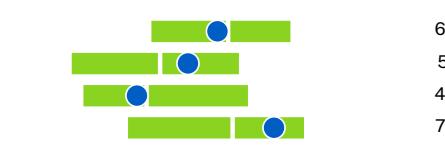


Opportunities (Work & School)

- 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



Birmingham

SMART
CITY
RANKING
83

Out of 142



74 in 2023
Out of 141

SMART
CITY RATING

BB

BB in 2023

FACTOR
RATINGS

BB

STRUCTURES

BB

TECHNOLOGIES

2

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 1,140,000
(Eurostat)

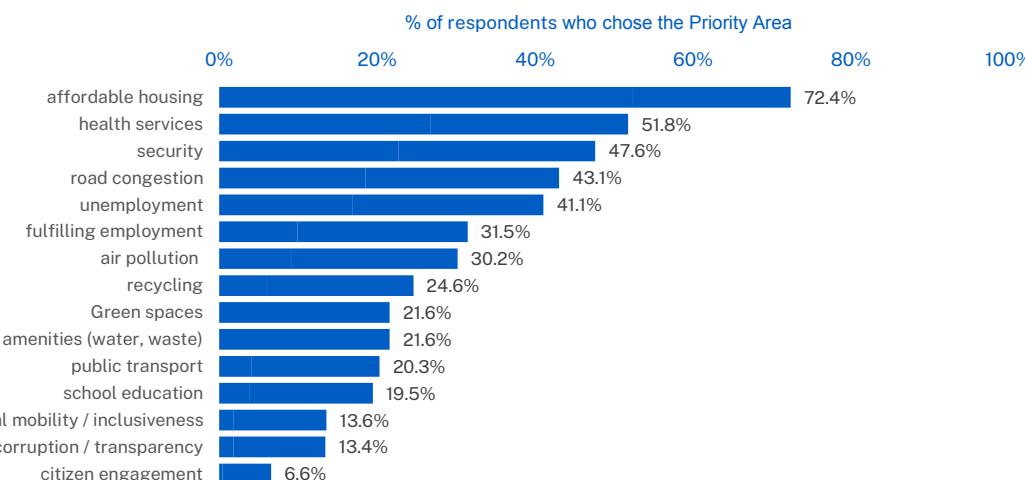
HDI 0.913
(Global Data Lab)



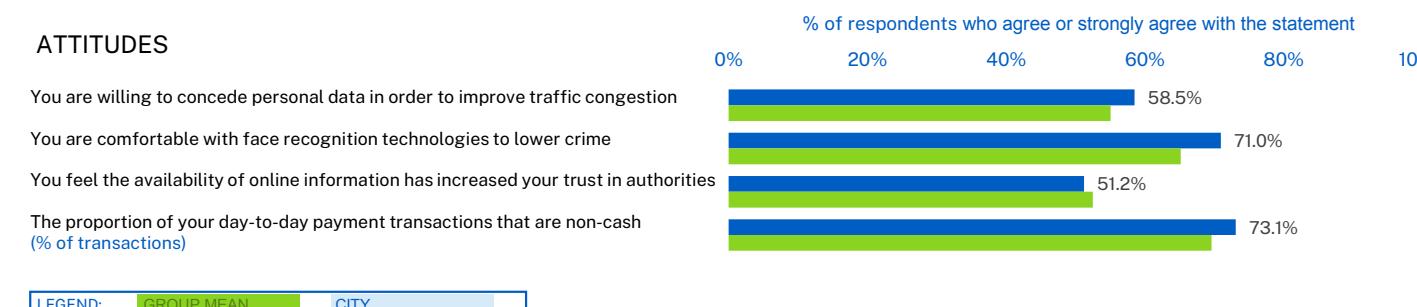
Country

United Kingdom	2019	2020	2021	2022	1 yr change
HDI	0.933	0.920	0.931	0.940	+0.009
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: MIN CITY MEAN GROUP MAX

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



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

Bogota

SMART
CITY
RANKING
127

Out of 142



129 in 2023
Out of 141

SMART
CITY RATING



D in 2023

FACTOR
RATINGS



STRUCTURES



TECHNOLOGIES



All ratings range
from AAA to D

BACKGROUND INFORMATION

City

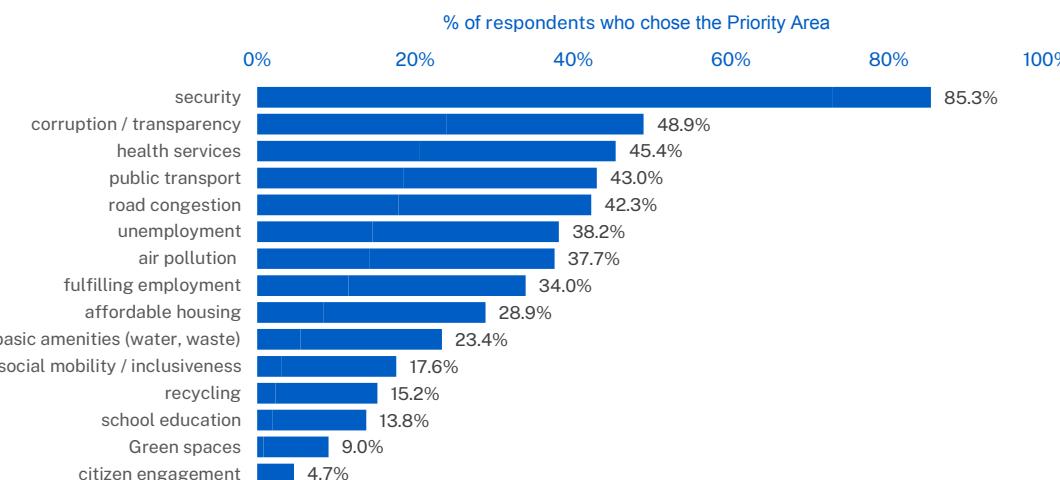
Population 7,180,000
(UN Data)



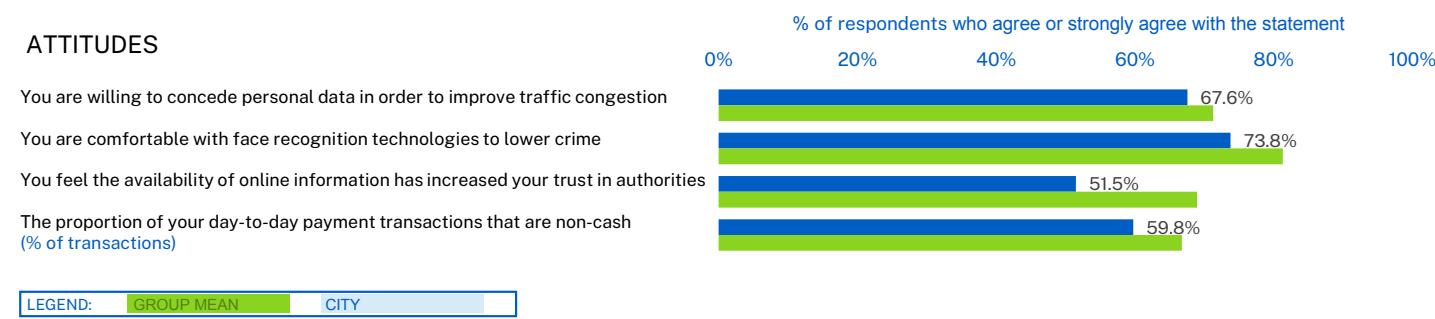
Country

Colombia	2019	2020	2021	2022	1 yr change
HDI	0.768	0.756	0.752	0.758	+0.006
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

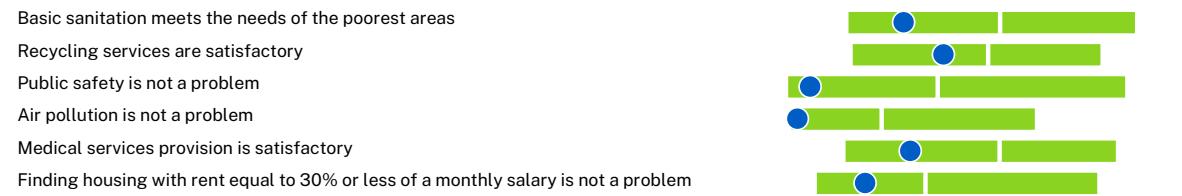


LEGEND: GROUP MEAN CITY

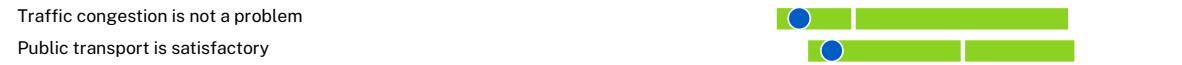
STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



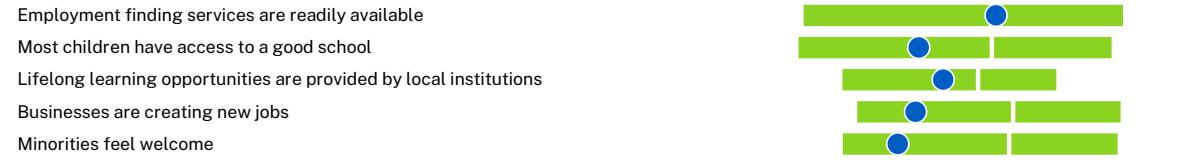
Mobility



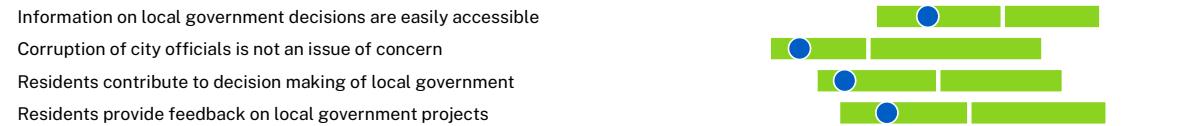
Activities



Opportunities (Work & School)



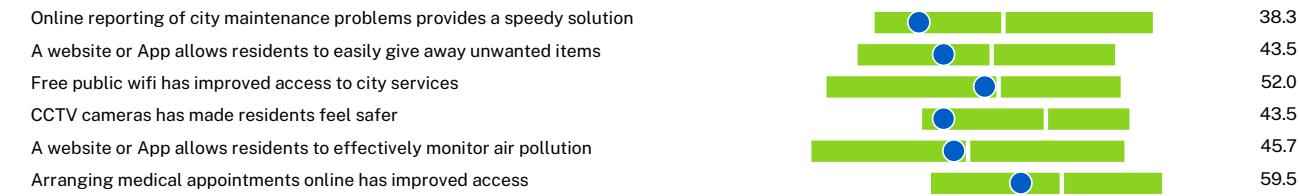
Governance



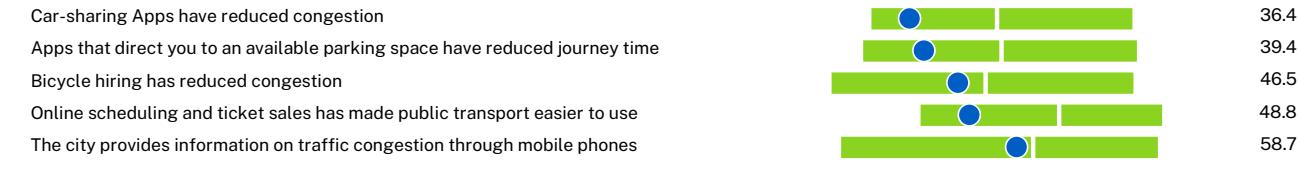
TECHNOLOGIES

Score

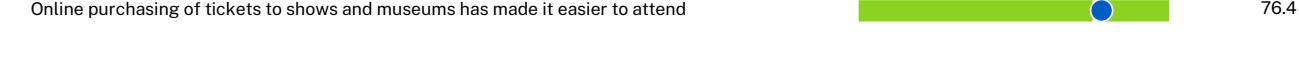
Health & Safety



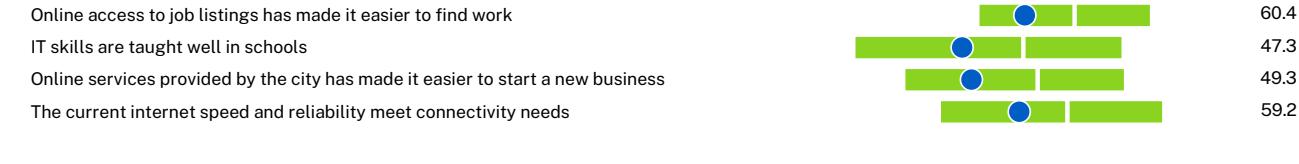
Mobility



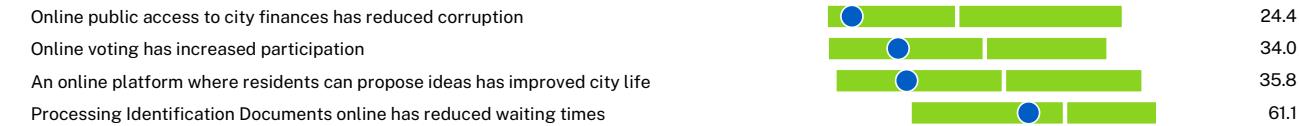
Activities



Opportunities (Work & School)



Governance



Bologna

SMART
CITY
RANKING
78

Out of 142



51 in 2023
Out of 141

SMART
CITY RATING

BB

BB in 2023

FACTOR
RATINGS

BB

STRUCTURES

B

TECHNOLOGIES

2

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

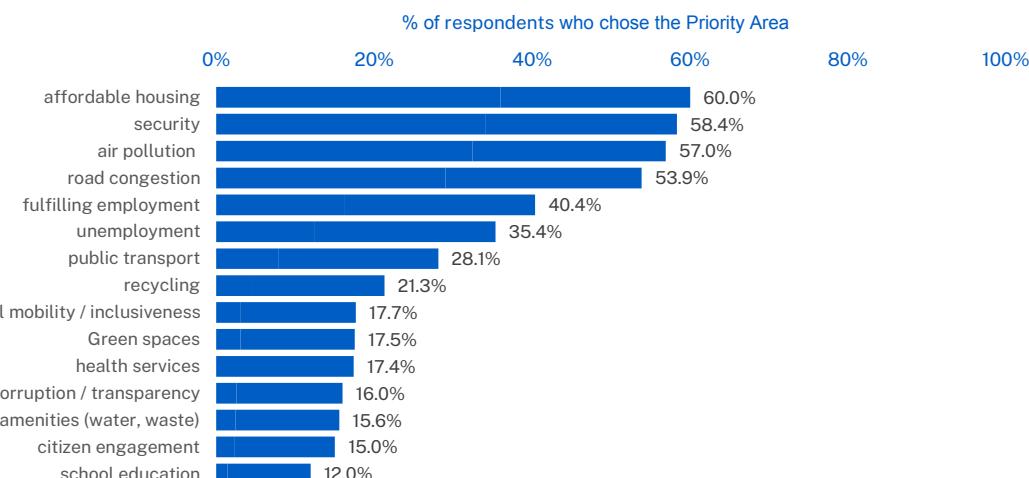
Population 400,000
(Eurostat)



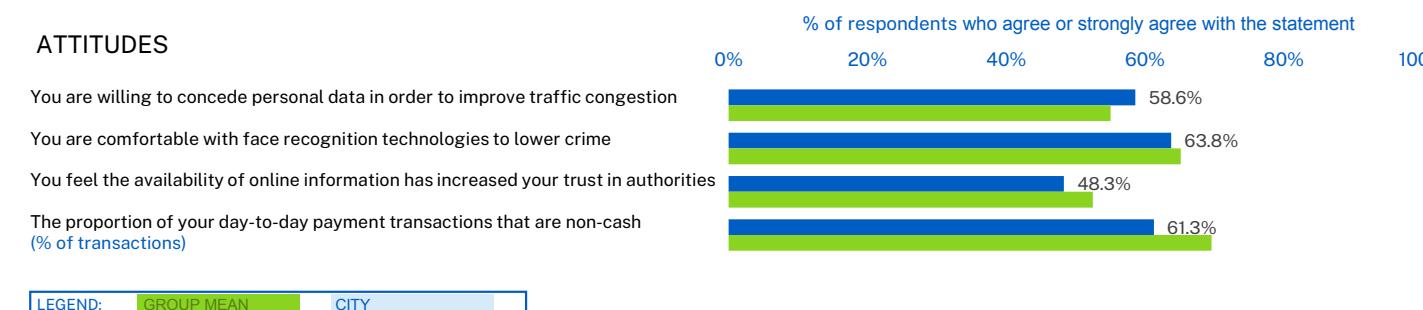
Country

Italy	2019	2020	2021	2022	1 yr change
HDI	0.899	0.892	0.899	0.906	+0.007
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

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety

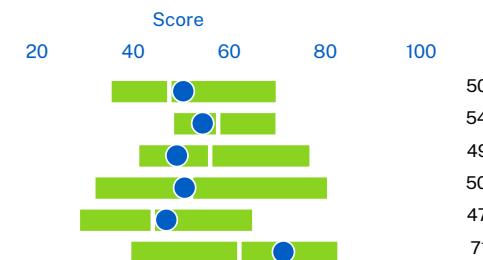
- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem



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

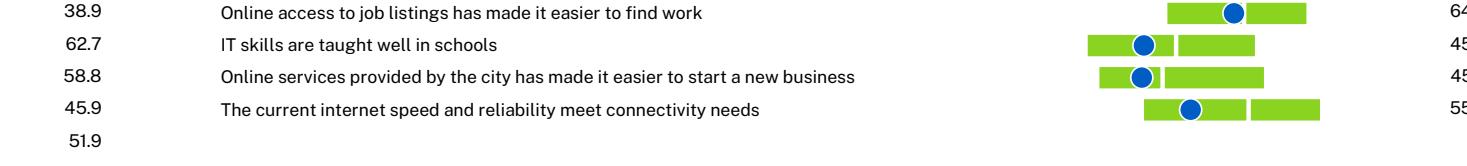
Activities

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

Opportunities (Work & School)

38.9

- 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

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
70
Out of 142

78 in 2023
Out of 141

SMART
CITY RATING

CCC

CCC in 2023

FACTOR
RATINGS

CCC

STRUCTURES

CC

TECHNOLOGIES

GROUP

3

All ratings range
from AAA to D

BACKGROUND INFORMATION

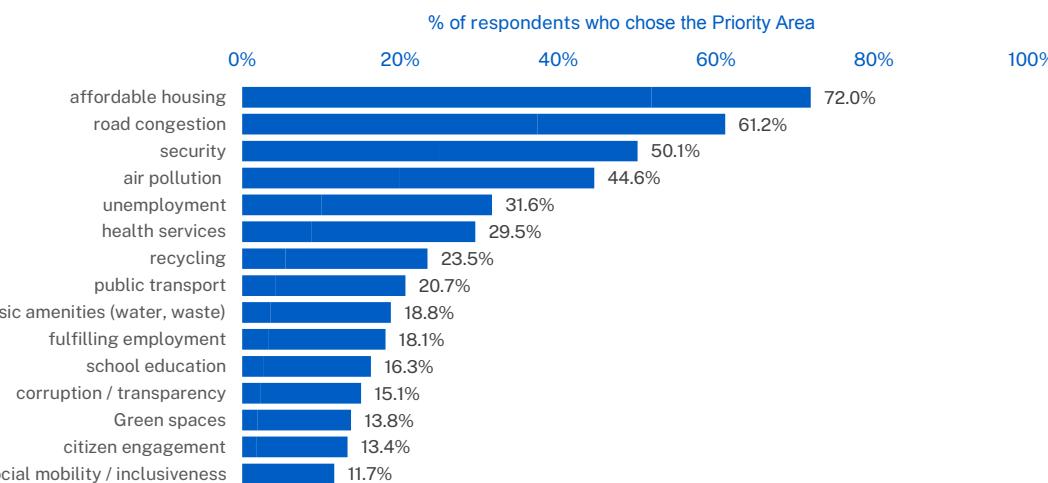
City

Population 650,000
(Eurostat)

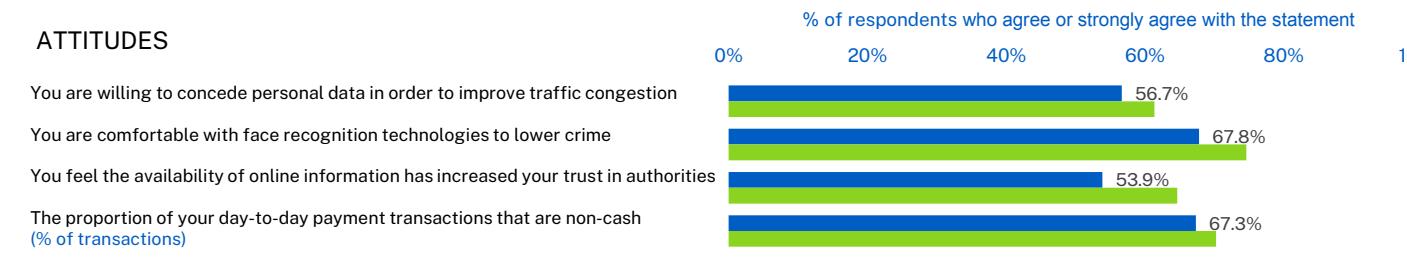
HDI 0.900
(Global Data Lab)



PRIORITY AREAS



ATTITUDES



LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

Health & Safety

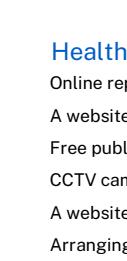
Basic sanitation meets the needs of the poorest areas
Recycling services are satisfactory
Public safety is not a problem
Air pollution is not a problem
Medical services provision is satisfactory
Finding housing with rent equal to 30% or less of a monthly salary is not a problem



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

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

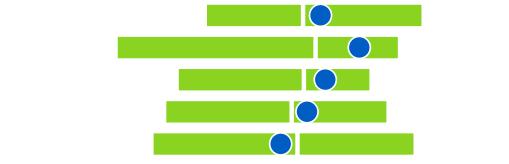
Online purchasing of tickets to shows and museums has made it easier to attend

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



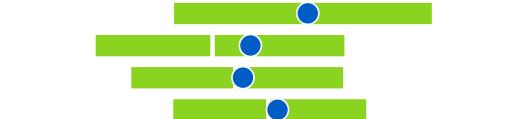
Opportunities (Work & School)

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

STRUCTURES

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

TECHNOLOGIES



Boston

SMART
CITY
RANKING
36
Out of 142

34 in 2023
Out of 141

SMART
CITY RATING

BBB

A in 2023

FACTOR
RATINGS

BBB

STRUCTURES

A

TECHNOLOGIES

1

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

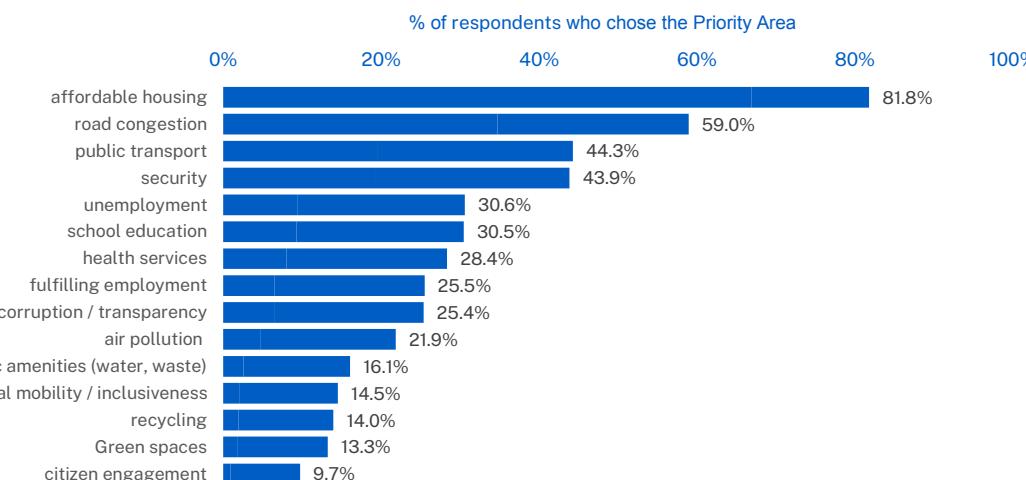
Population 680,000
(UN Data)



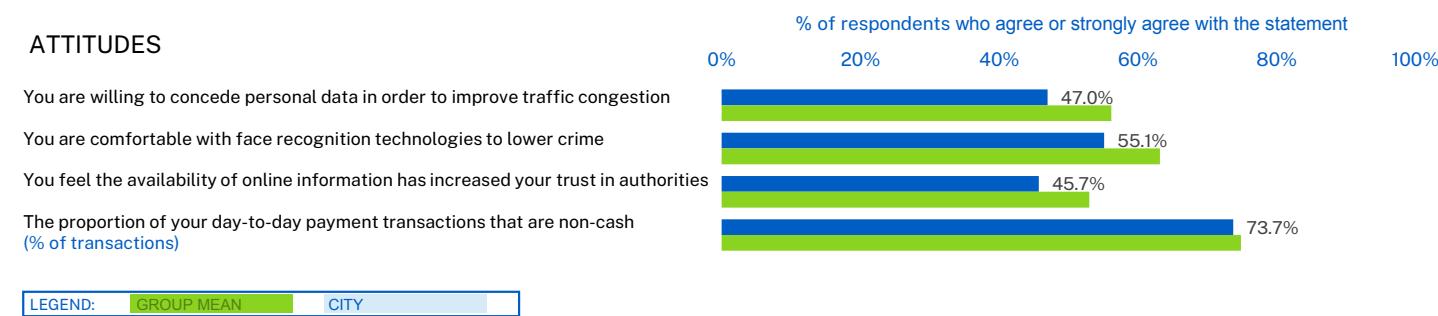
Country

USA	2019	2020	2021	2022	1 yr change
HDI	0.933	0.923	0.921	0.927	+0.006
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



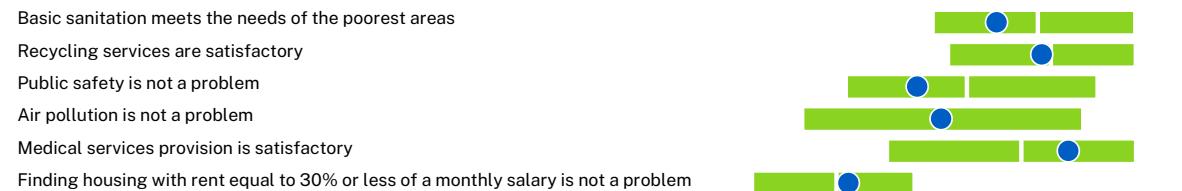
ATTITUDES



LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

Health & Safety



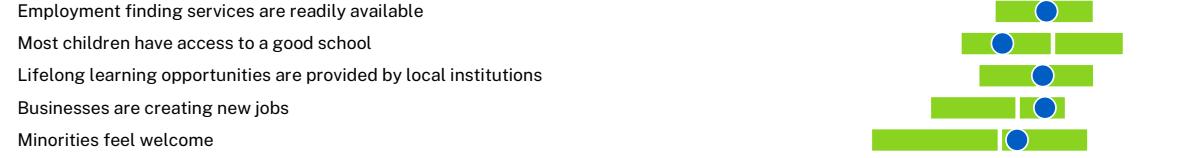
Mobility



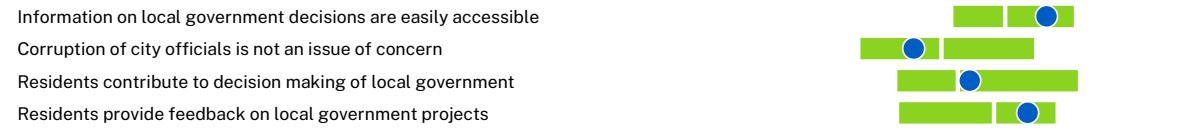
Activities



Opportunities (Work & School)



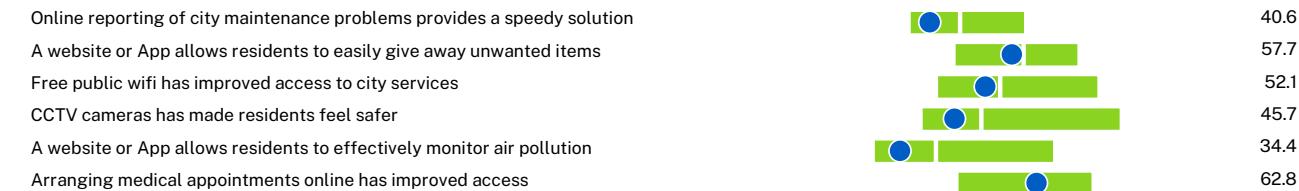
Governance



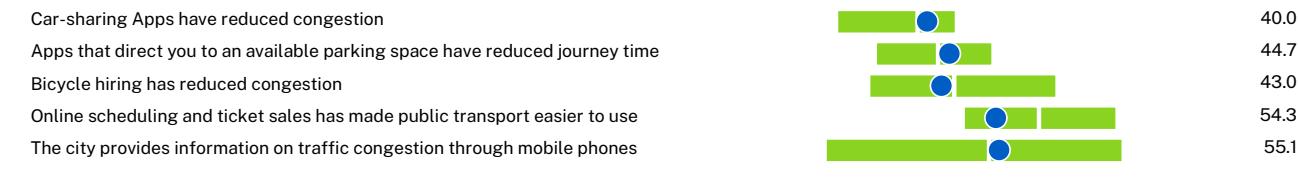
LEGEND: MIN CITY MEAN GROUP MAX

TECHNOLOGIES

Health & Safety



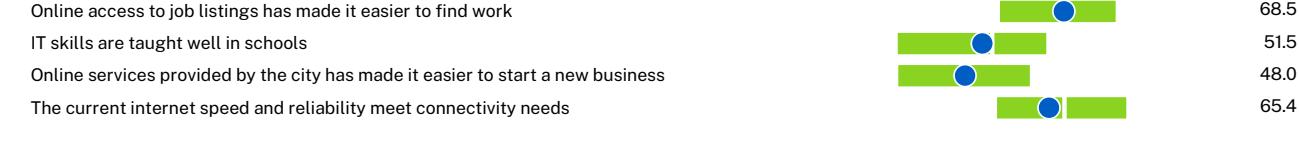
Mobility



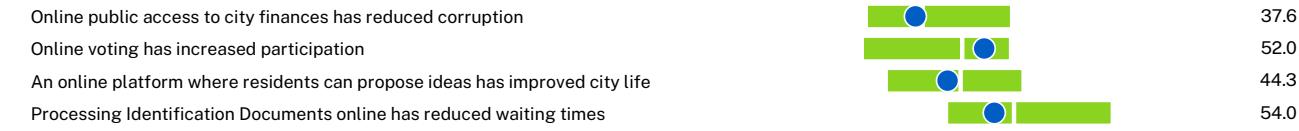
Activities



Opportunities (Work & School)



Governance



Brasilia

SMART
CITY
RANKING
130
Out of 142

128 in 2023
Out of 141

SMART
CITY RATING

C

C in 2023

FACTOR
RATINGS

C

STRUCTURES

C

TECHNOLOGIES

3

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

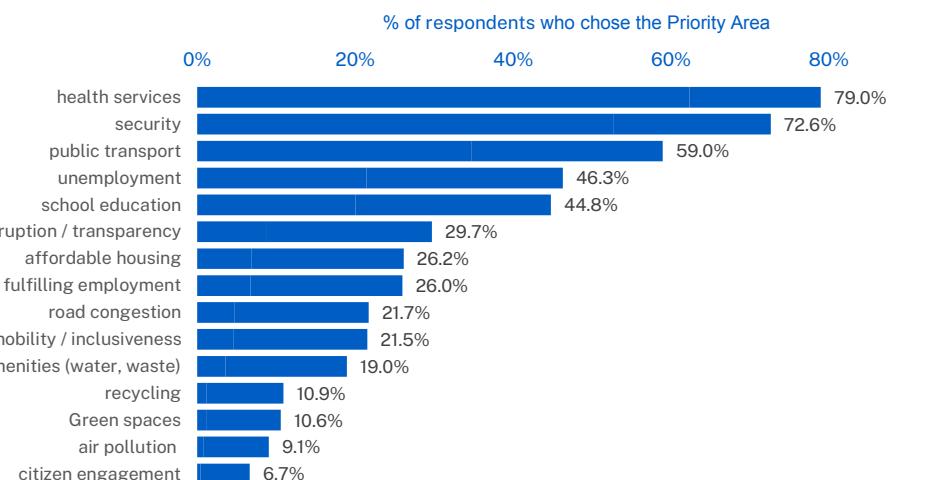
Population 4,800,000
(UN World Urbanization Prospects)
HDI 0.816
(Global Data Lab)



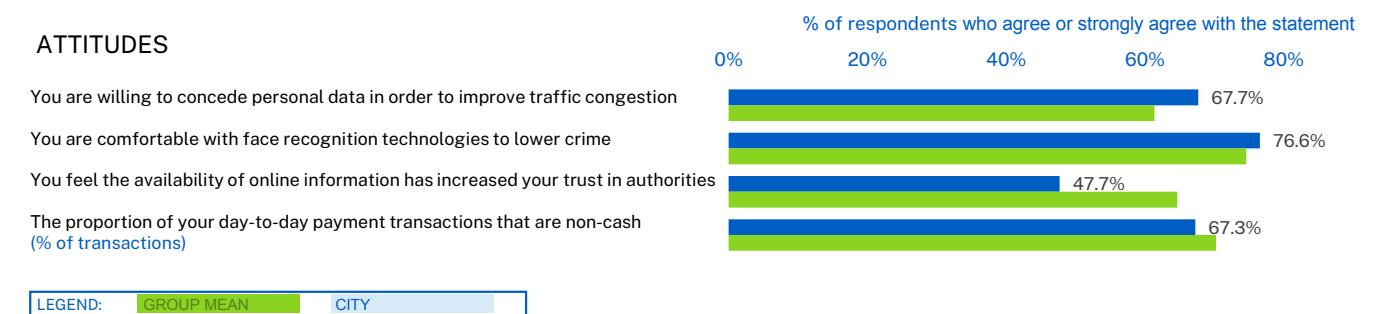
Country

Brazil	2019	2020	2021	2022	1 yr change
HDI	0.764	0.758	0.756	0.760	+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



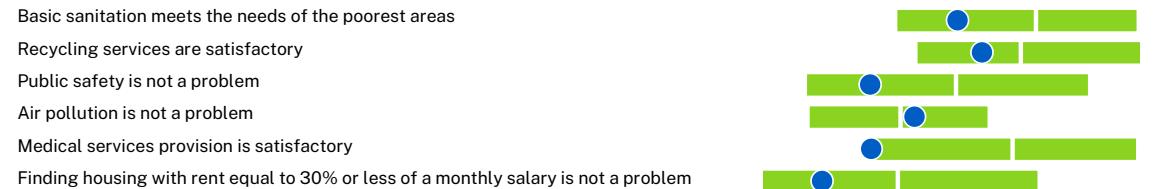
ATTITUDES



LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

Health & Safety



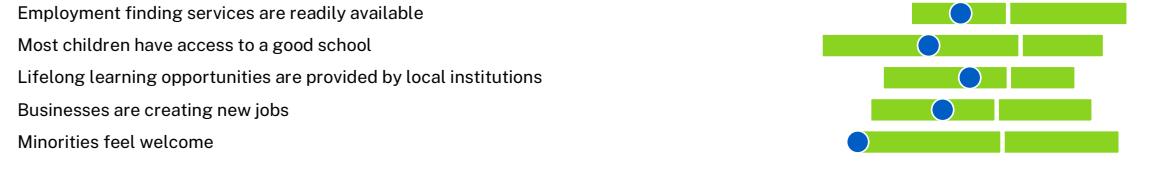
Mobility



Activities



Opportunities (Work & School)



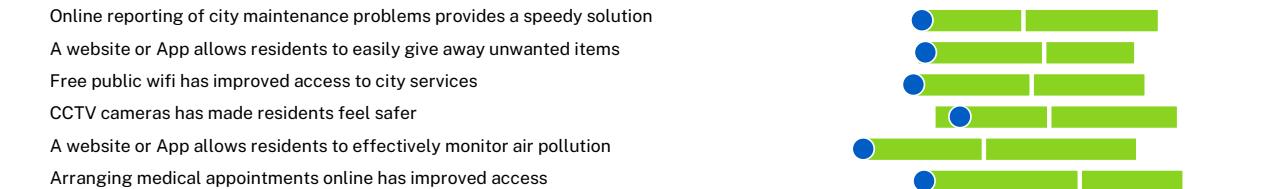
Governance



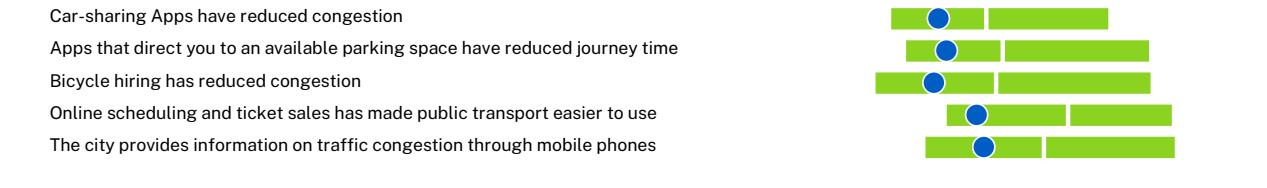
LEGEND: MIN CITY MEAN GROUP MAX

TECHNOLOGIES

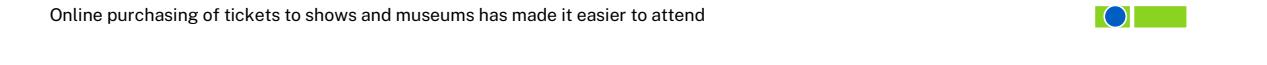
Health & Safety



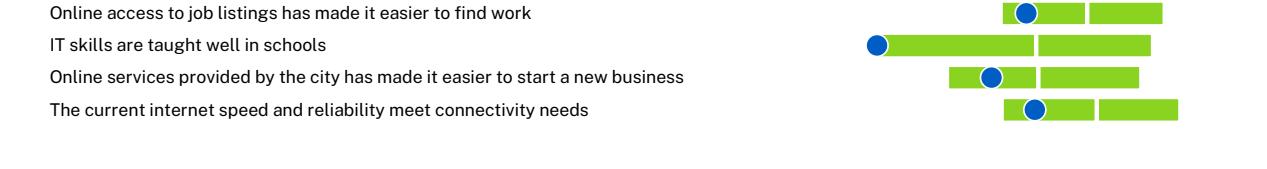
Mobility



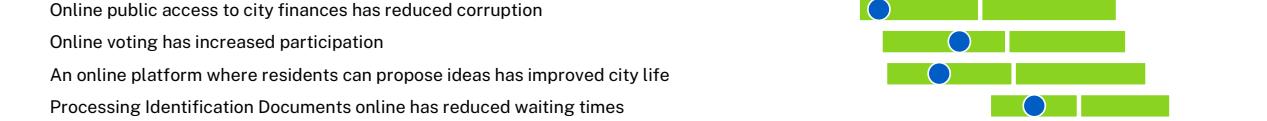
Activities



Opportunities (Work & School)



Governance



Bratislava

SMART
CITY
RANKING
56

Out of 142



62 in 2023
Out of 141

SMART
CITY RATING

BBB

BB in 2023

FACTOR
RATINGS

BB

STRUCTURES



TECHNOLOGIES

1

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

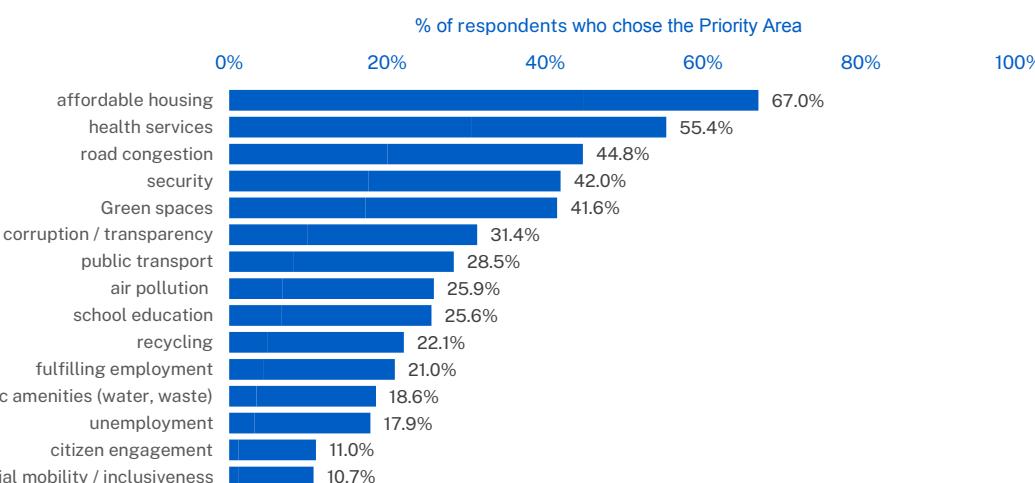
Population 440,000
(Eurostat)



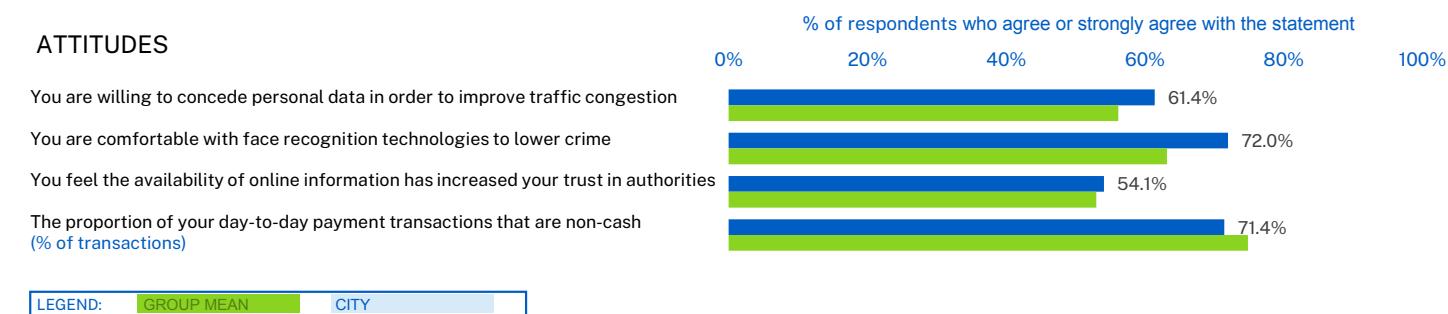
Country

Slovakia	2019	2020	2021	2022	1 yr change
HDI	0.863	0.860	0.852	0.855	+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

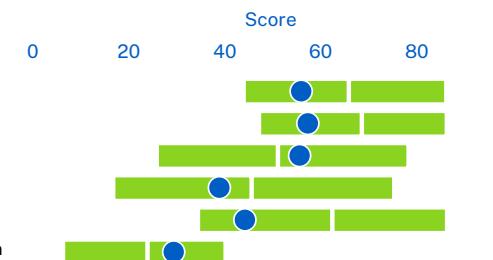
STRUCTURES

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

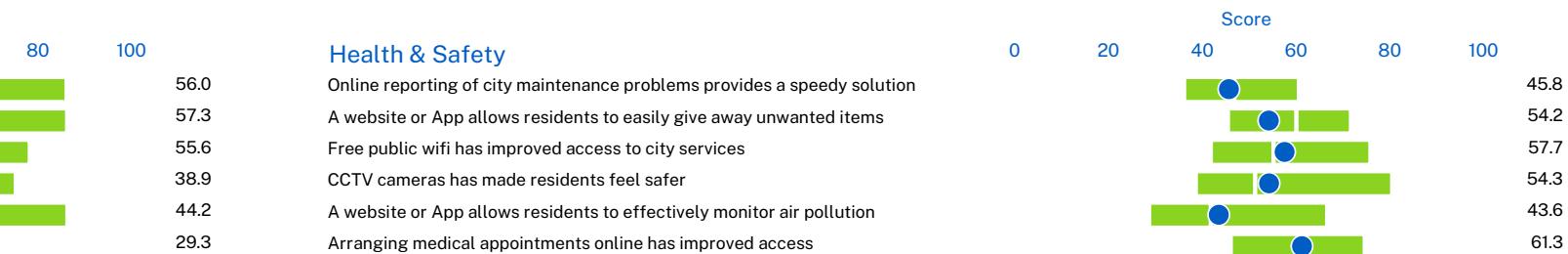
Health & Safety

- 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



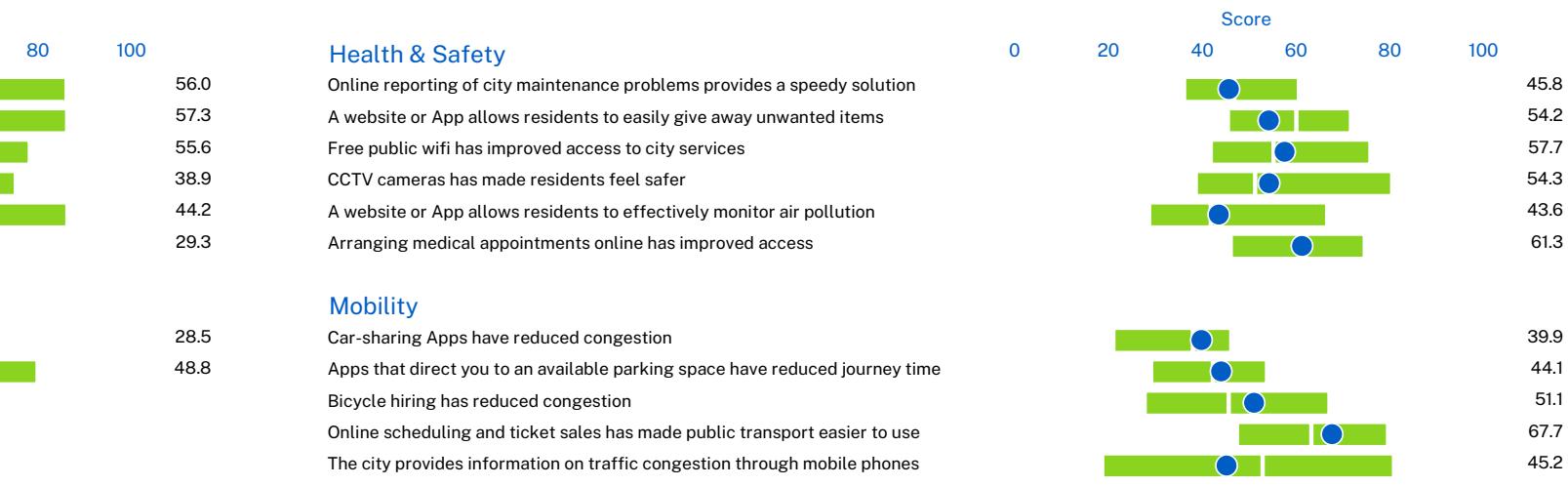
Mobility

- 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



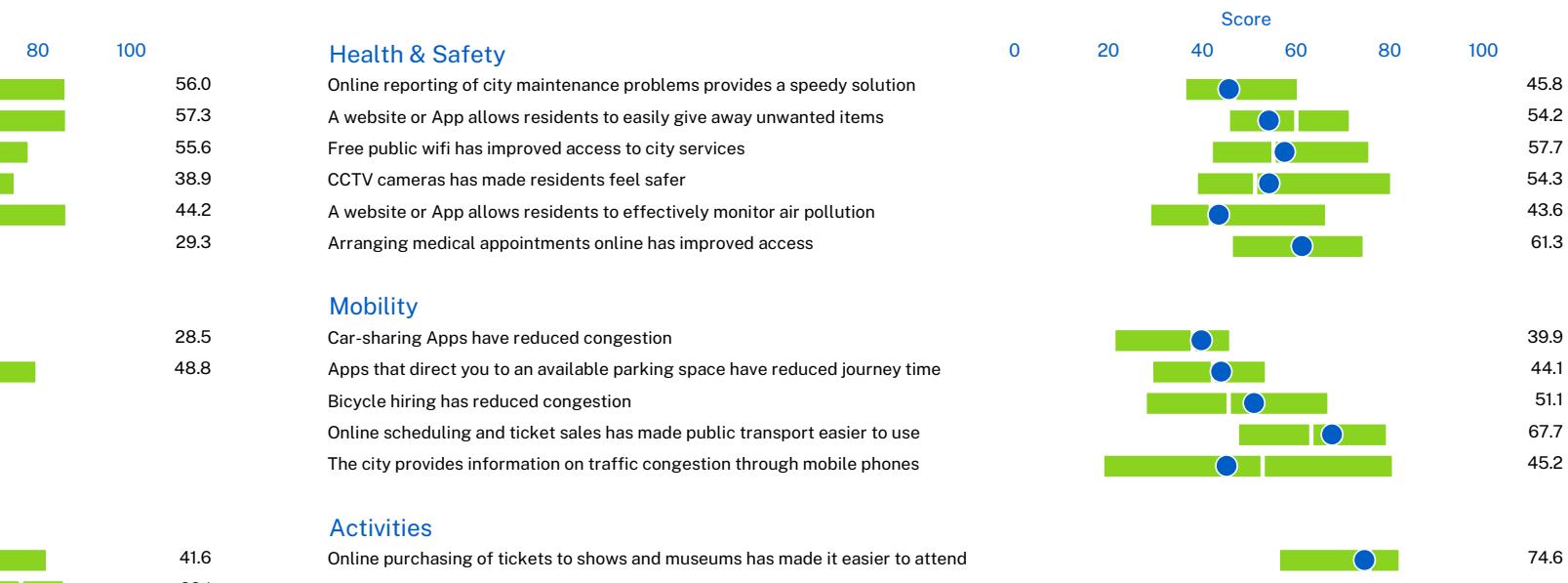
Activities

- 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



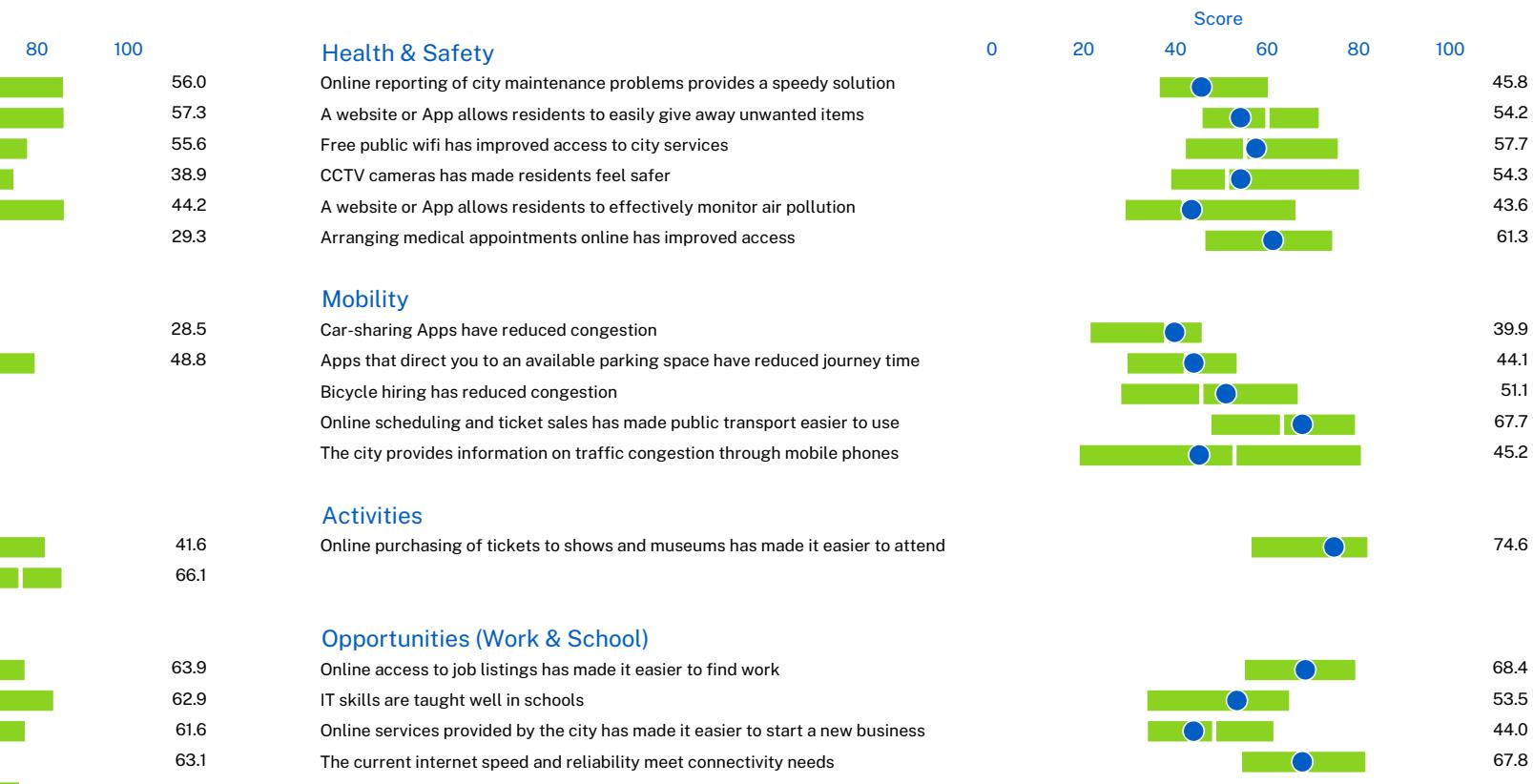
Opportunities (Work & School)

- 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



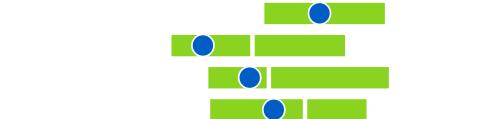
Opportunities (Work & School)

- 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



Brisbane

SMART
CITY
RANKING
30
Out of 142

24 in 2023
Out of 141

SMART
CITY RATING

A

AA in 2023

FACTOR
RATINGS

A

STRUCTURES

A

TECHNOLOGIES

GROUP

1

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 2,050,000
(UN Data)

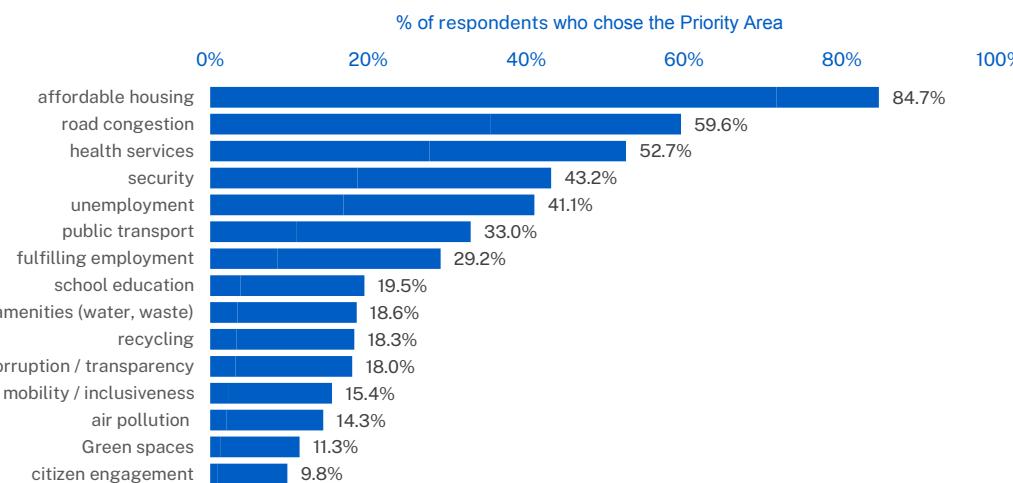
HDI 0.944
(Global Data Lab)



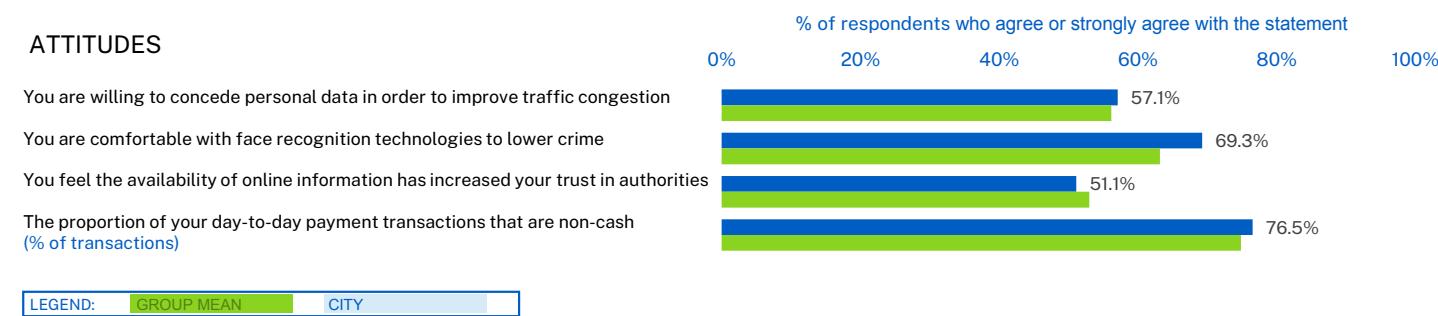
Country

Australia	2019	2020	2021	2022	1 yr change
HDI	0.941	0.948	0.949	0.946	-0.003
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



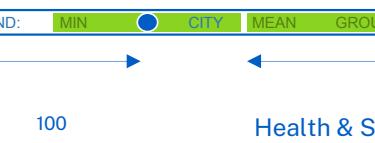
LEGEND: MIN CITY MEAN GROUP MAX

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



Mobility

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

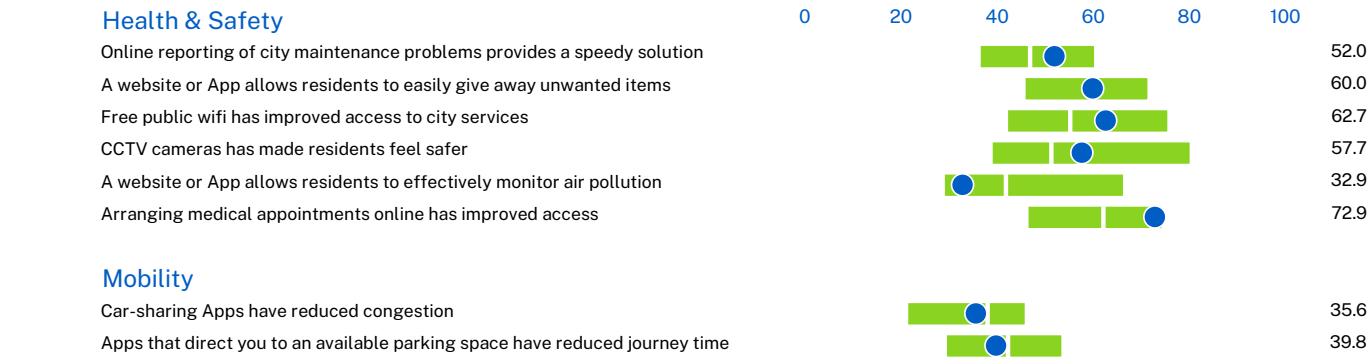
Health & Safety

- 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

Score: 0 20 40 60 80 100

Mobility



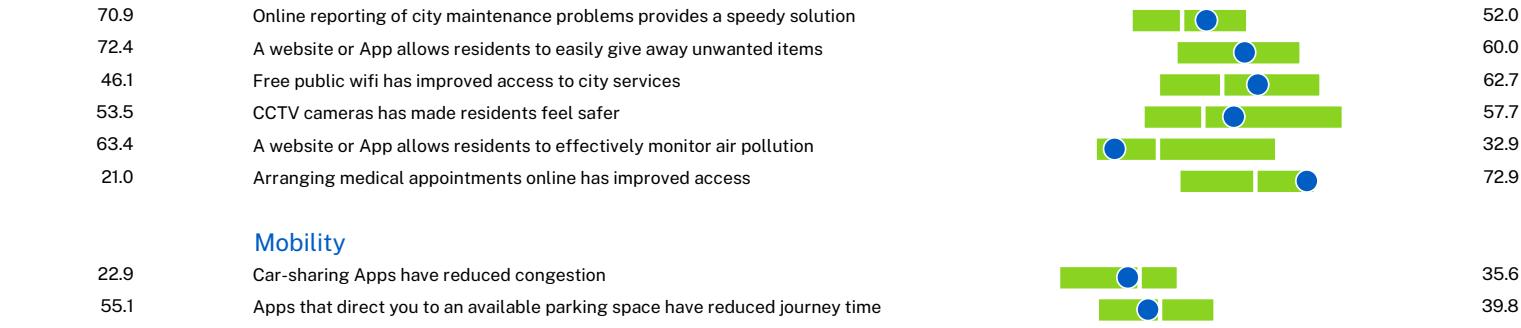
Activities

- 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

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

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- 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

Brussels

SMART
CITY
RANKING
40

Out of 142



35 in 2023
Out of 141

SMART
CITY RATING

BBB

BBB in 2023

FACTOR
RATINGS

BB

STRUCTURES

A

TECHNOLOGIES

GROUP

1

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 1,230,000
(Eurostat)

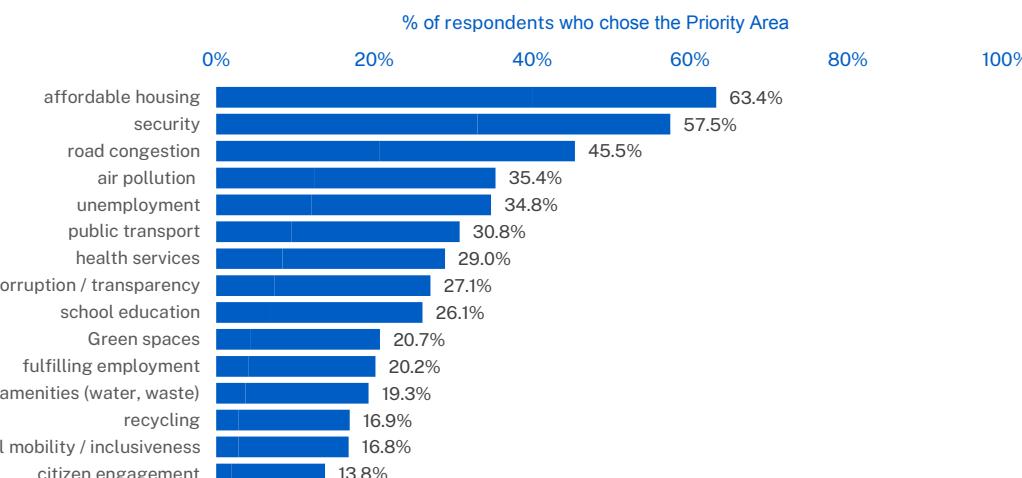
HDI 0.953
(Global Data Lab)



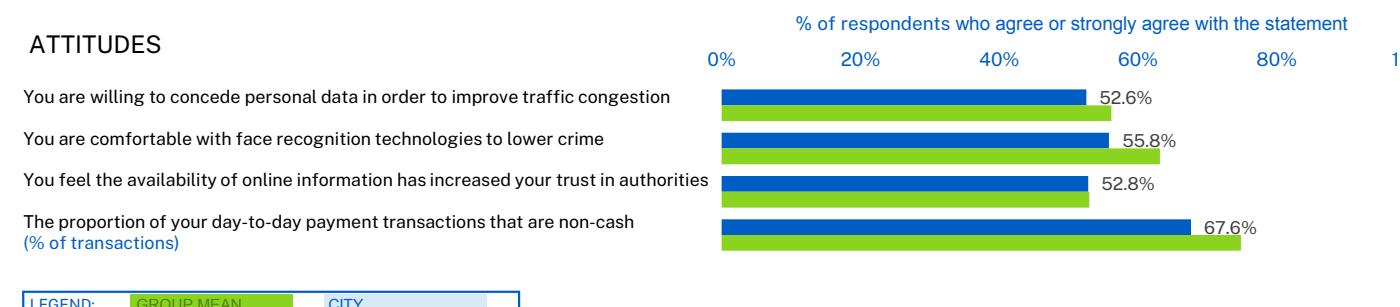
Country

Belgium	2019	2020	2021	2022	1 yr change
HDI	0.936	0.930	0.938	0.942	+0.004
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

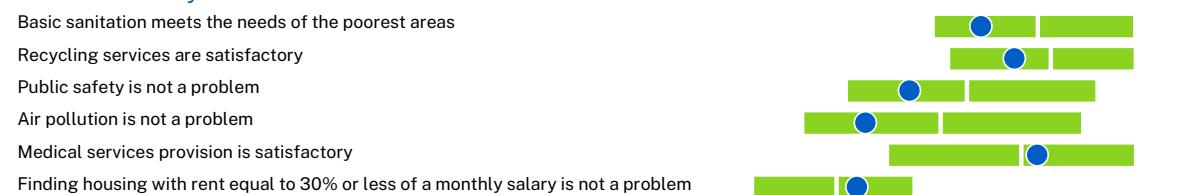


LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



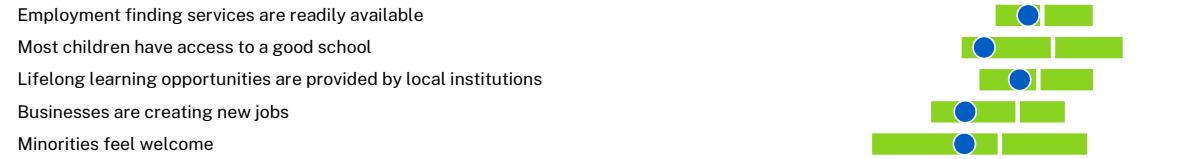
Mobility



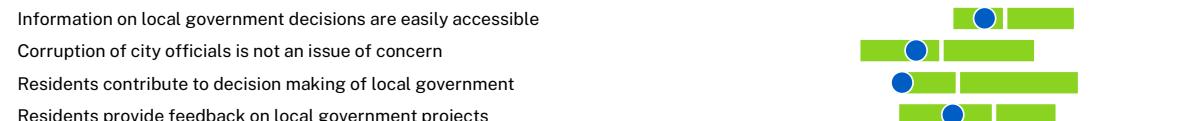
Activities



Opportunities (Work & School)



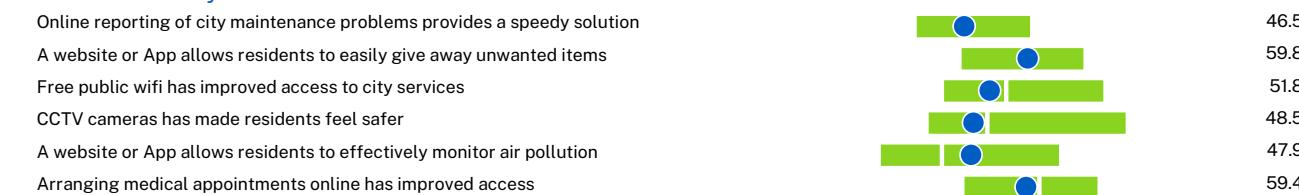
Governance



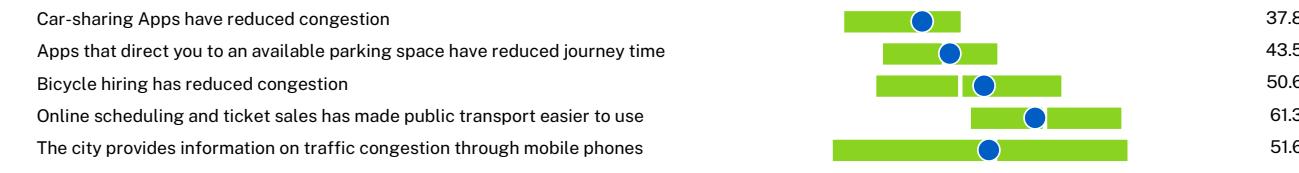
TECHNOLOGIES

Score

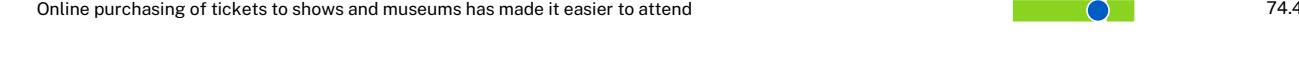
Health & Safety



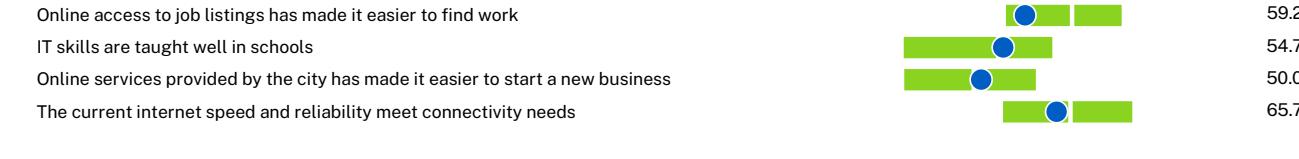
Mobility



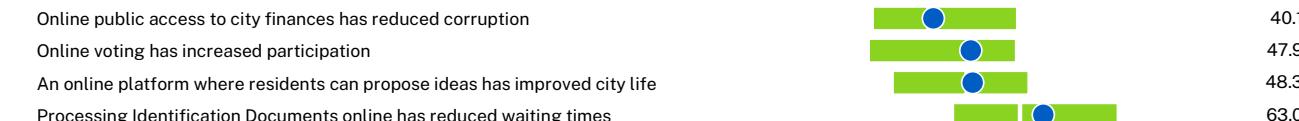
Activities



Opportunities (Work & School)



Governance



Bucharest

SMART
CITY
RANKING
100
Out of 142



104 in 2023
Out of 141

SMART
CITY RATING

B

CCC in 2023

FACTOR
RATINGS

B

STRUCTURES

B
TECHNOLOGIES

GROUP
2

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

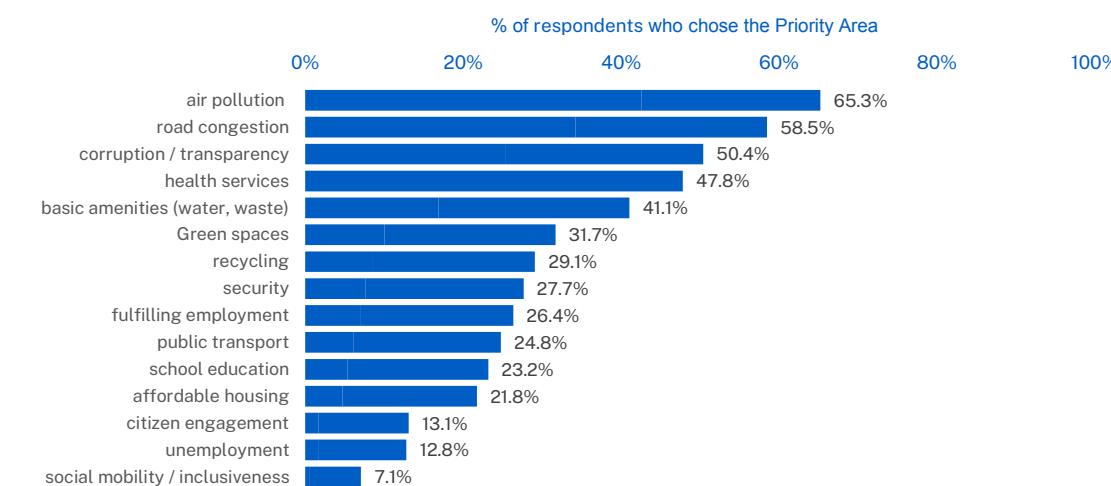
Population 1,820,000
(UN Data)



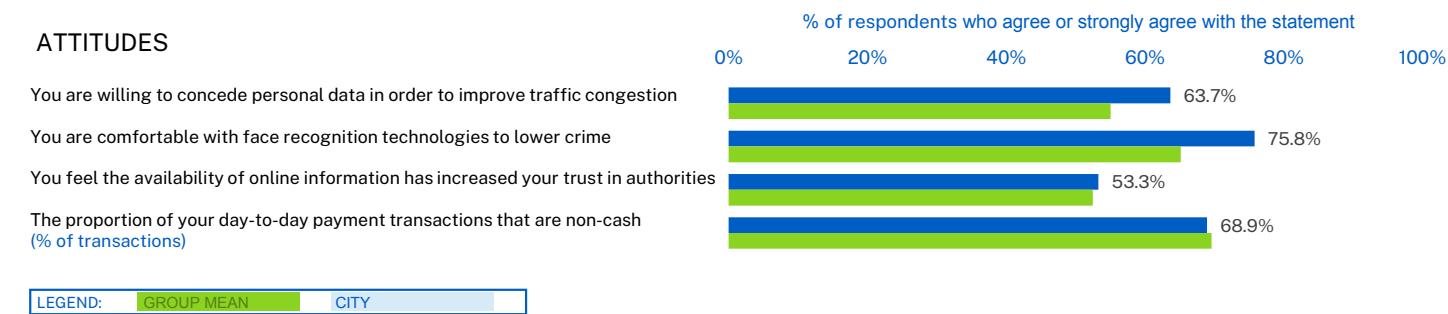
Country

Romania	2019	2020	2021	2022	1 yr change
HDI	0.834	0.828	0.825	0.827	+0.002
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

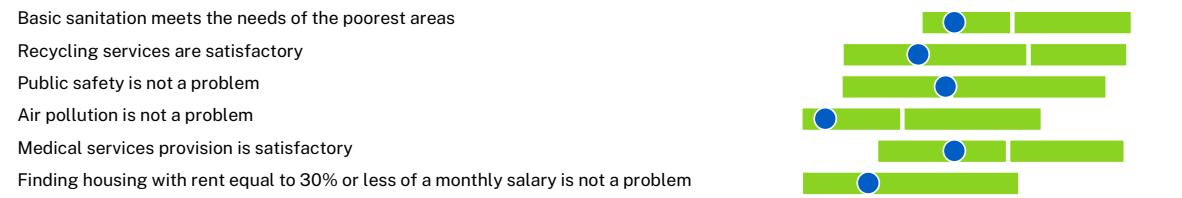


LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



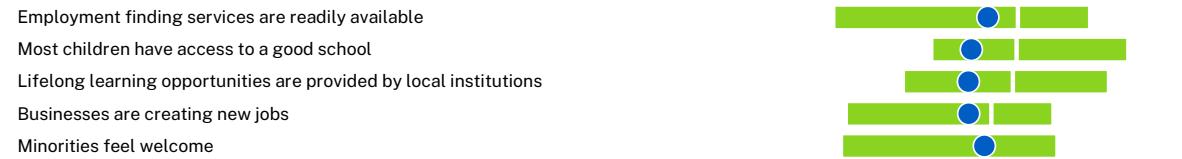
Mobility



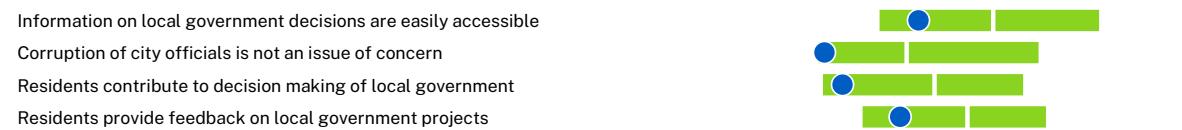
Activities



Opportunities (Work & School)



Governance



TECHNOLOGIES

Score

0 20 40 60 80 100

47.3

54.1

52.8

50.6

51.7

61.0

41.5

47.7

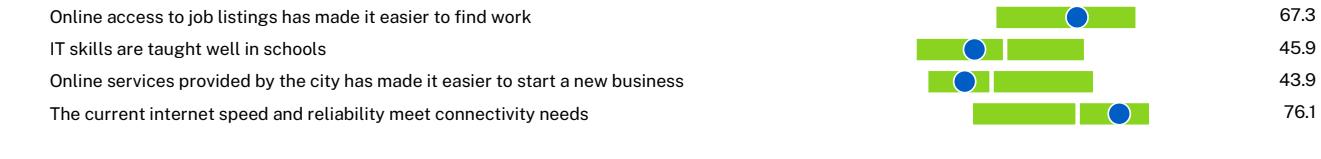
47.2

59.7

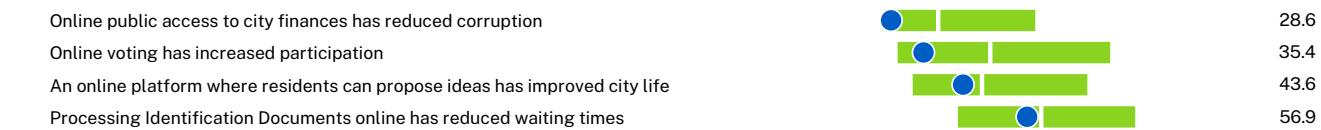
52.2

77.1

Opportunities (Work & School)



Governance



Budapest

SMART
CITY
RANKING
89

Out of 142



87 in 2023
Out of 141

SMART
CITY RATING



B in 2023

FACTOR
RATINGS



STRUCTURES

BB

TECHNOLOGIES

GROUP



All ratings range
from AAA to D

BACKGROUND INFORMATION

City

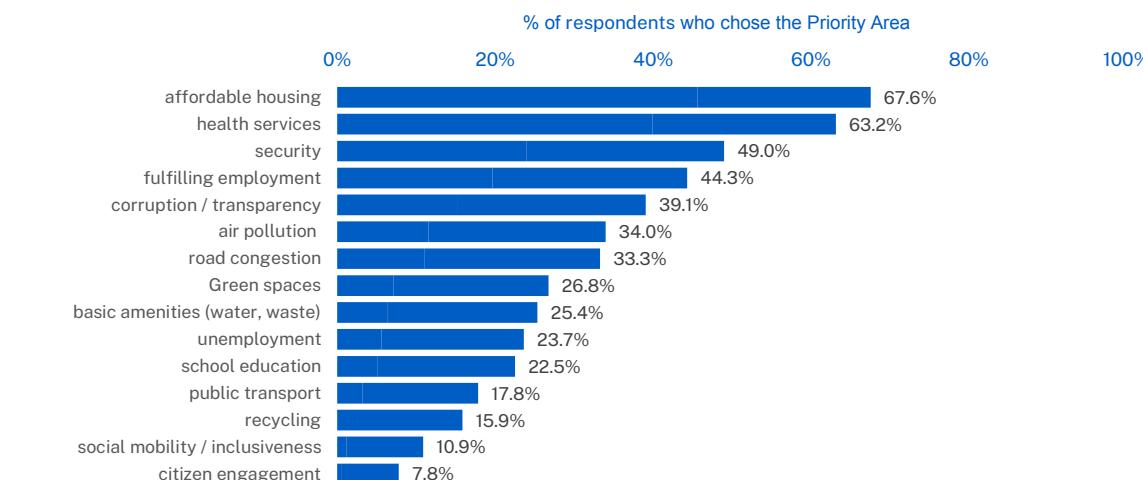
Population 1,750,000
(Eurostat)



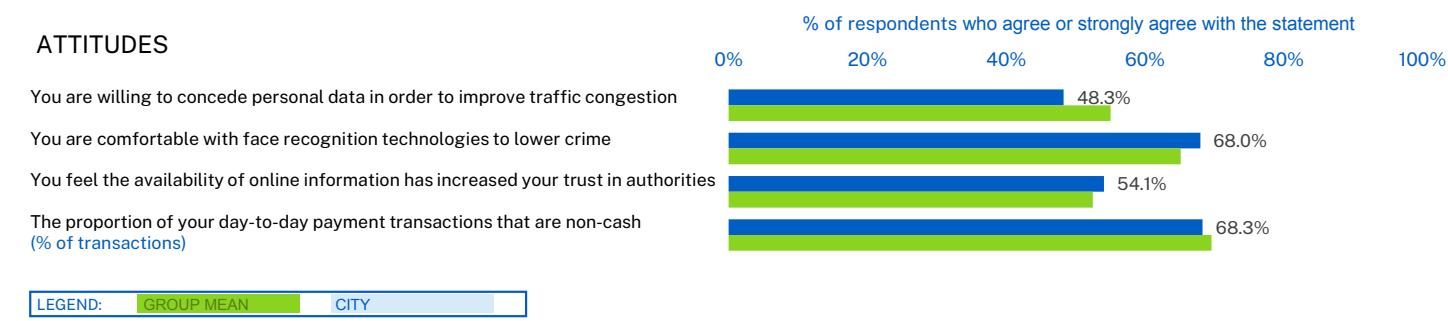
Country

Hungary	2019	2020	2021	2022	1 yr change
HDI	0.854	0.849	0.846	0.851	+0.005
Life expectancy at birth	76.5	75.7	74.5	75.0	+0.4
Expected years of schooling	15.0	15.1	15.1	15.1	+0.0
Mean years of schooling	12.2	12.2	12.2	12.2	+0.0
GNI per capita (PPP \$)	31,790	30,483	32,610	34,196	+1,586

PRIORITY AREAS



ATTITUDES

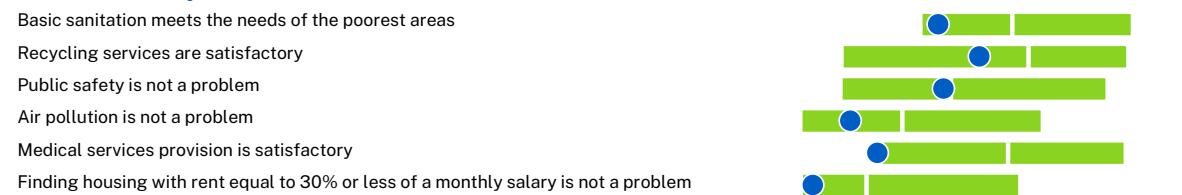


LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



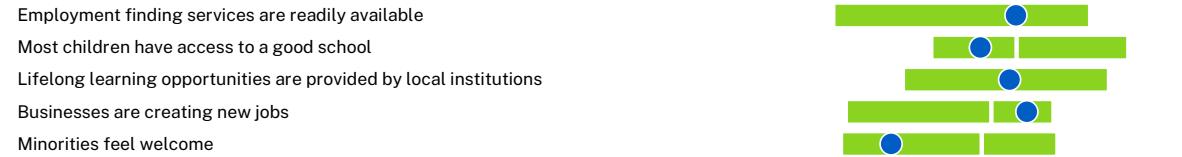
Mobility



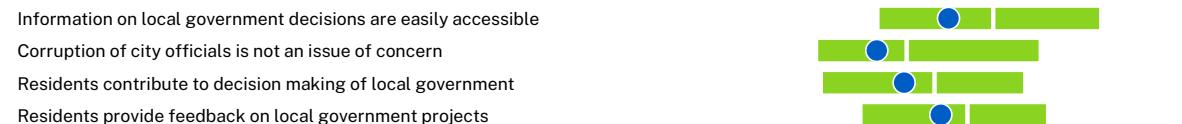
Activities



Opportunities (Work & School)

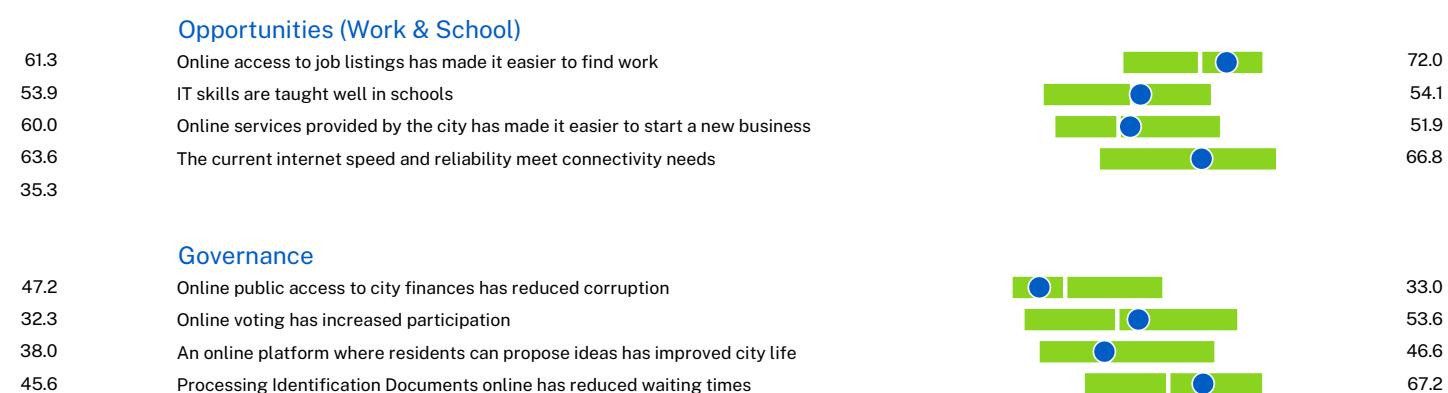


Governance



TECHNOLOGIES

Opportunities (Work & School)



Governance

Buenos Aires

SMART
CITY
RANKING
123

Out of 142



124 in 2023
Out of 141

SMART
CITY RATING



C in 2023

FACTOR
RATINGS



STRUCTURES



TECHNOLOGIES



All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 15,150,000
(UN World Urbanization Prospects)

HDI 0.812
(Global Data Lab)



SMART CITY RATING

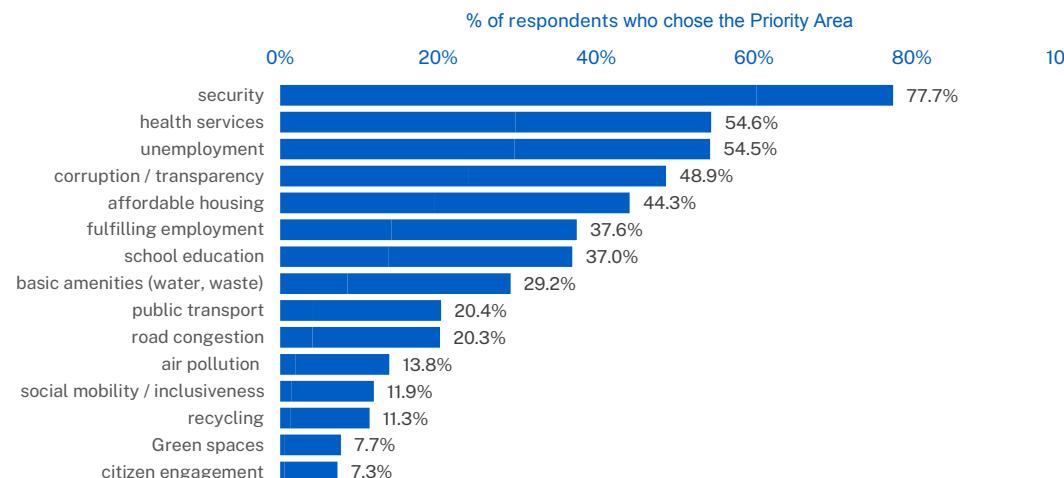


C in 2023

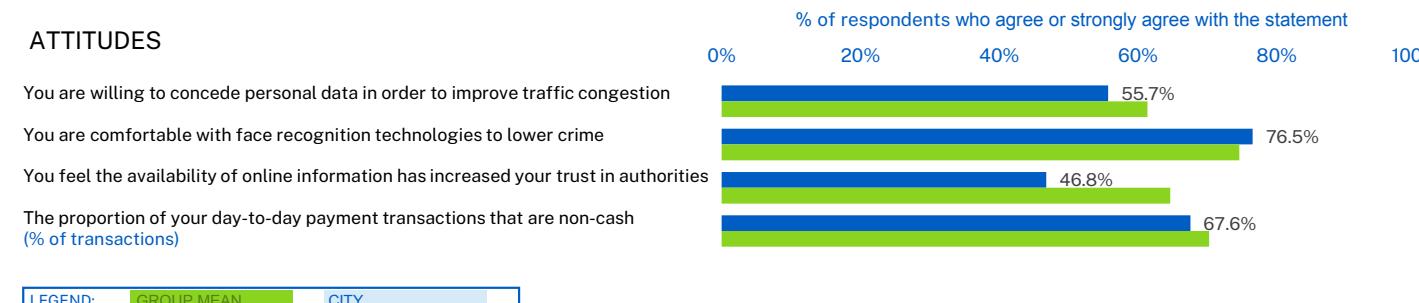
Country

Argentina	2019	2020	2021	2022	1 yr change
HDI	0.853	0.841	0.844	0.849	+0.005
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

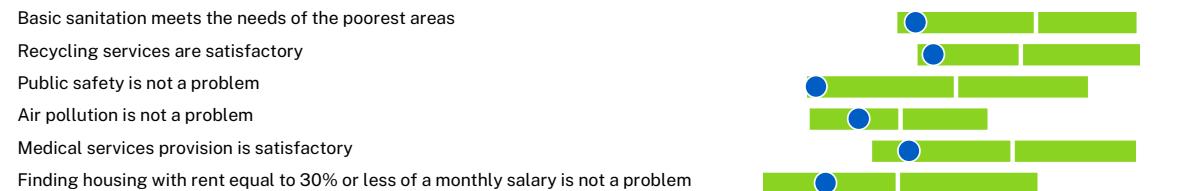


LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

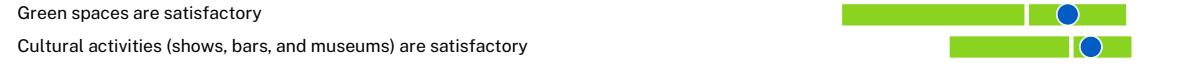
Health & Safety



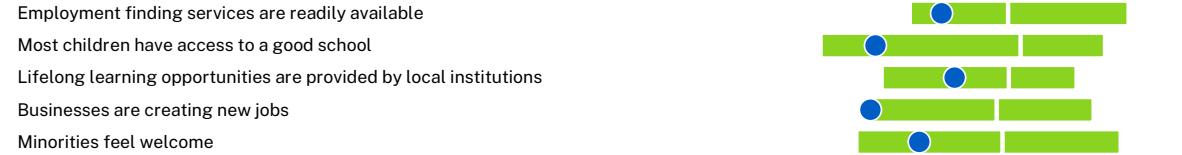
Mobility



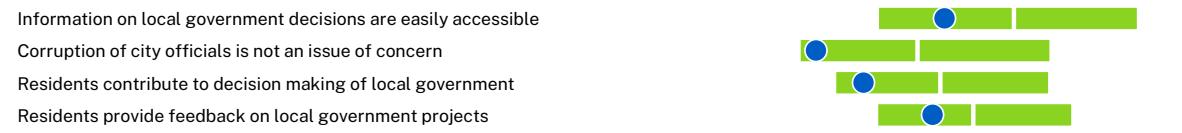
Activities



Opportunities (Work & School)



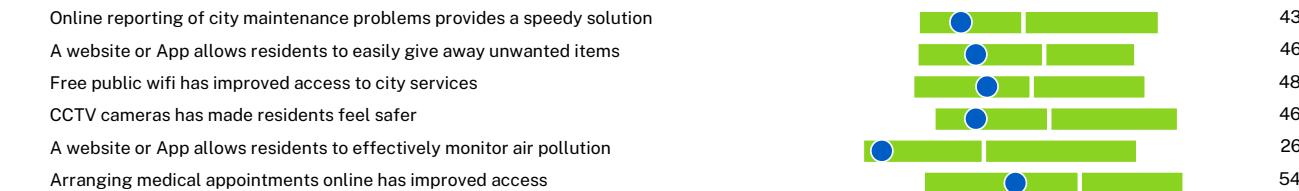
Governance



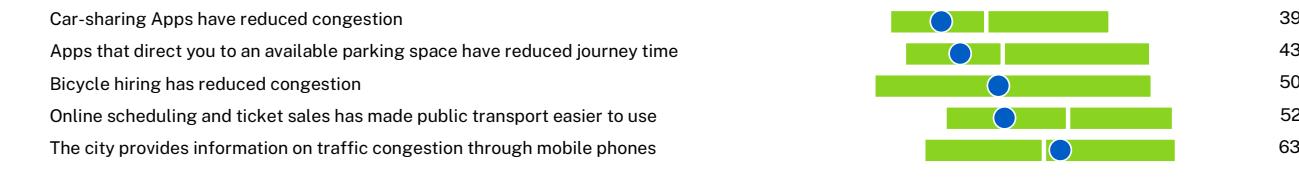
TECHNOLOGIES

LEGEND: MIN CITY MEAN GROUP MAX

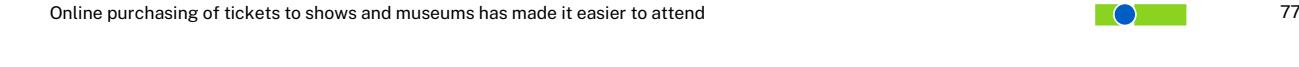
Health & Safety



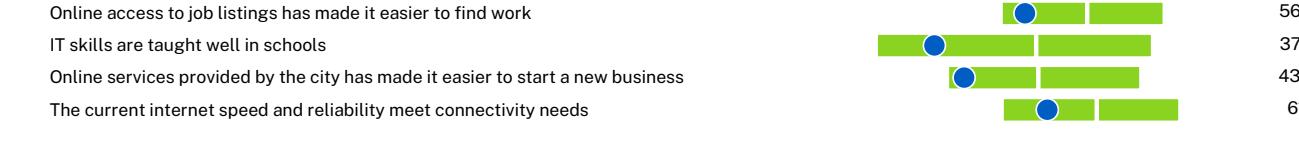
Mobility



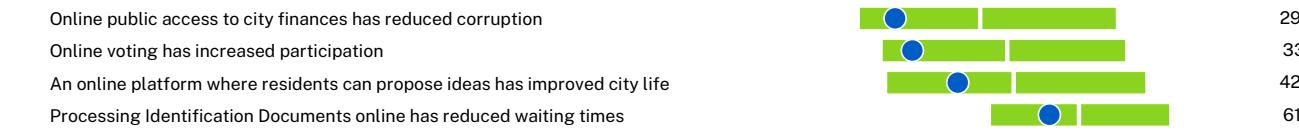
Activities



Opportunities (Work & School)



Governance



Busan

SMART
CITY
RANKING

45

Out of 142



49 in 2023
Out of 141

SMART
CITY RATING

BB

BB in 2023

FACTOR
RATINGS

BB

STRUCTURES

BBB

TECHNOLOGIES

2

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 3,470,000
(UN World Urbanization Prospects)

HDI 0.936
(Global Data Lab)



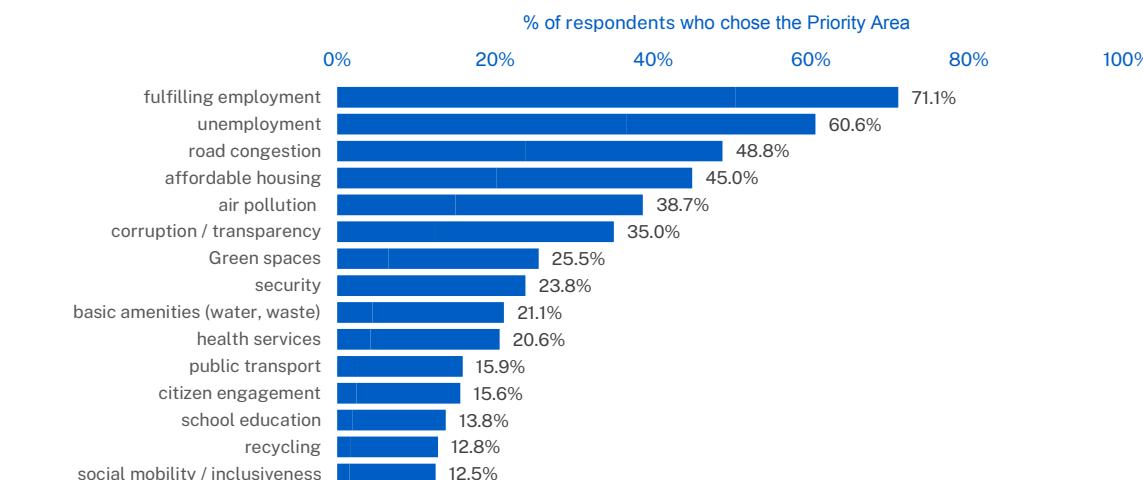
49 in 2023

Out of 141

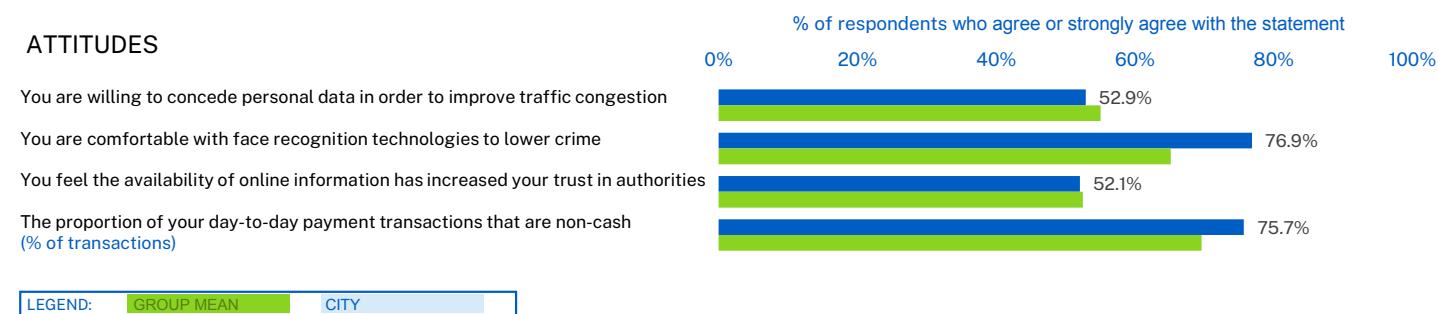
Country

Korea, South	2019	2020	2021	2022	1 yr change
HDI	0.922	0.922	0.926	0.929	+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: MIN CITY MEAN GROUP MAX

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: 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

LEGEND: MIN CITY MEAN GROUP MAX

TECHNOLOGIES

Score: 0 20 40 60 80 100

All ratings range
from AAA to D

Cairo

SMART
CITY
RANKING
114

Out of 142



108 in 2023
Out of 141

SMART
CITY RATING



CC in 2023

FACTOR
RATINGS



CC
STRUCTURES
TECHNOLOGIES

GROUP



All ratings range
from AAA to D

BACKGROUND INFORMATION

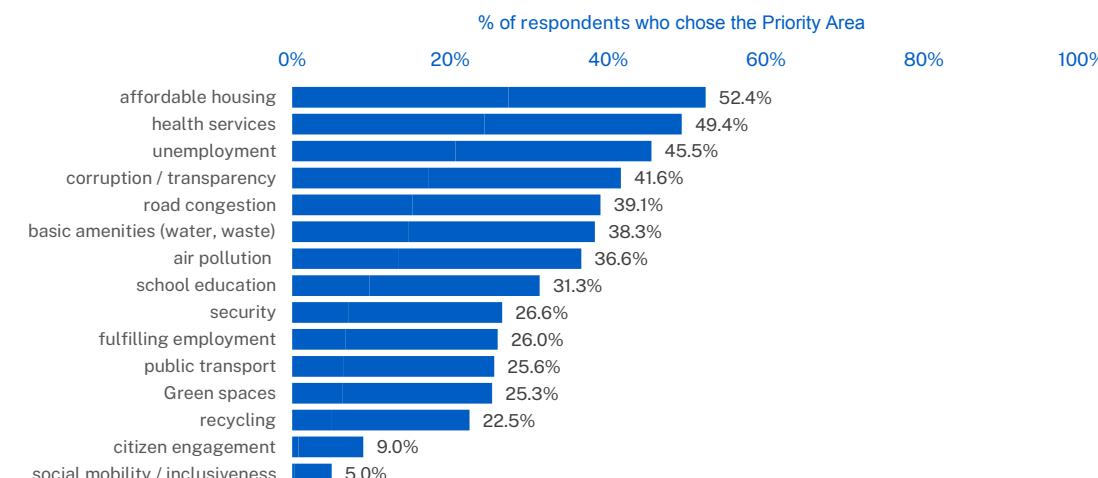
City

Population 9,540,000
(UN Data)

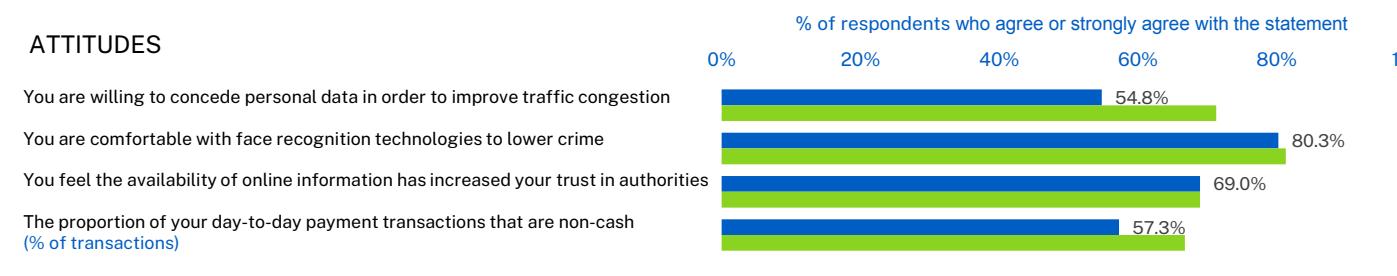
HDI 0.779
(Global Data Lab)



PRIORITY AREAS



ATTITUDES

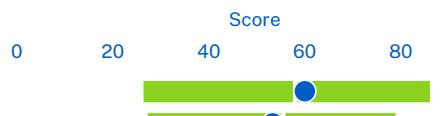


LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

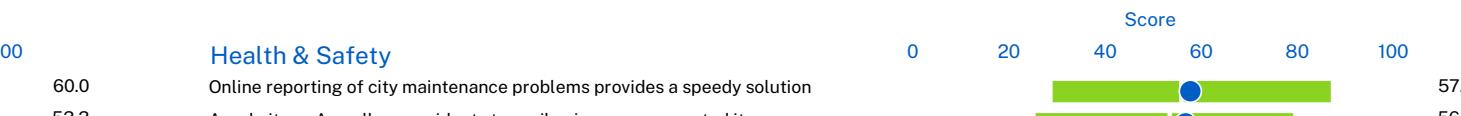
Health & Safety

- 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



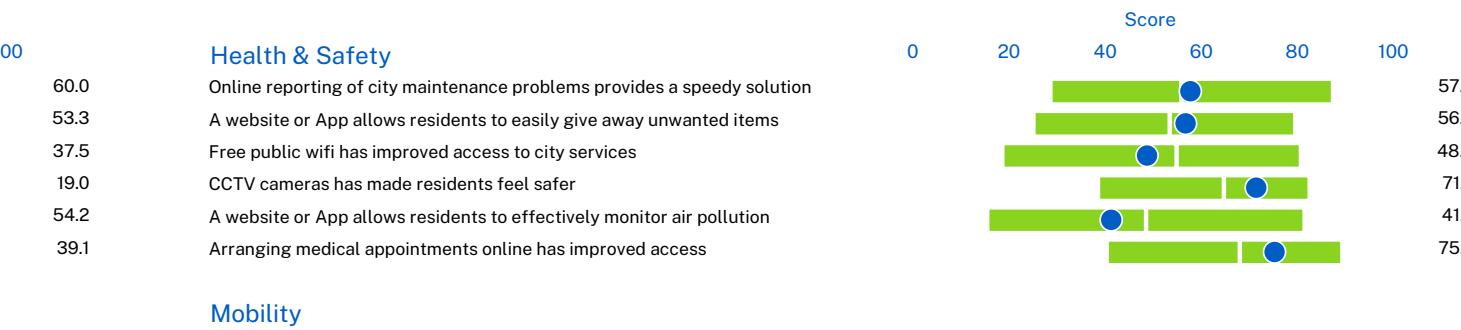
Mobility

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



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



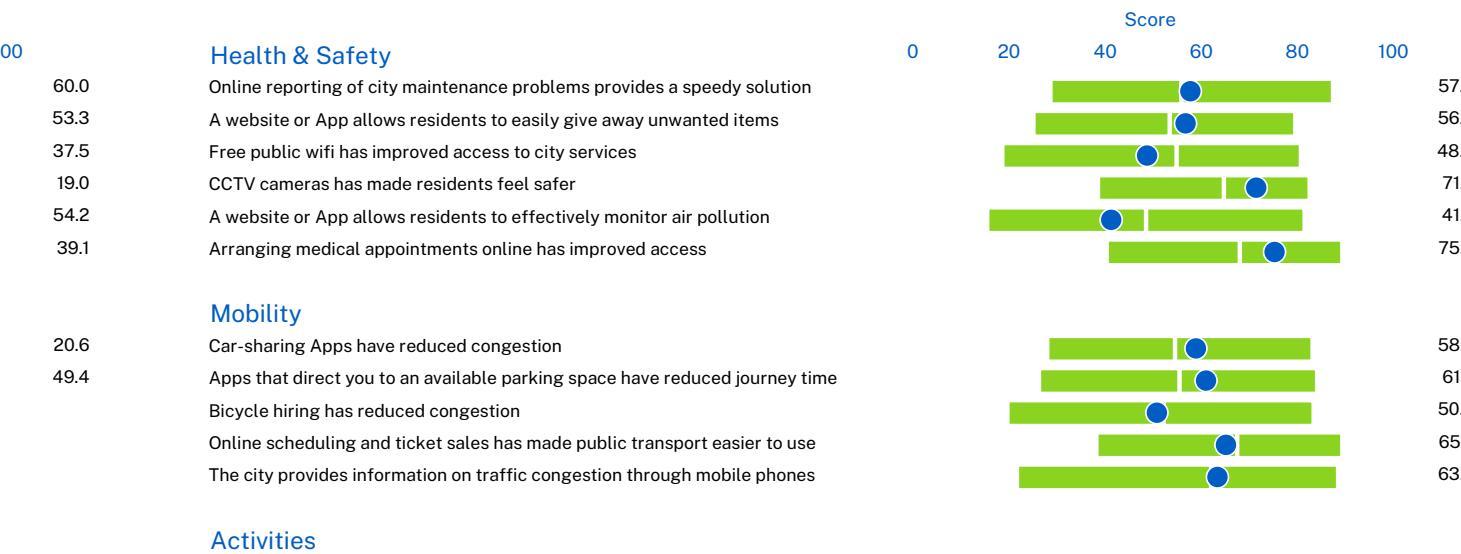
Activities

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



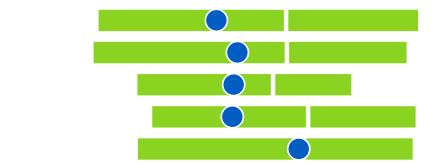
Activities

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



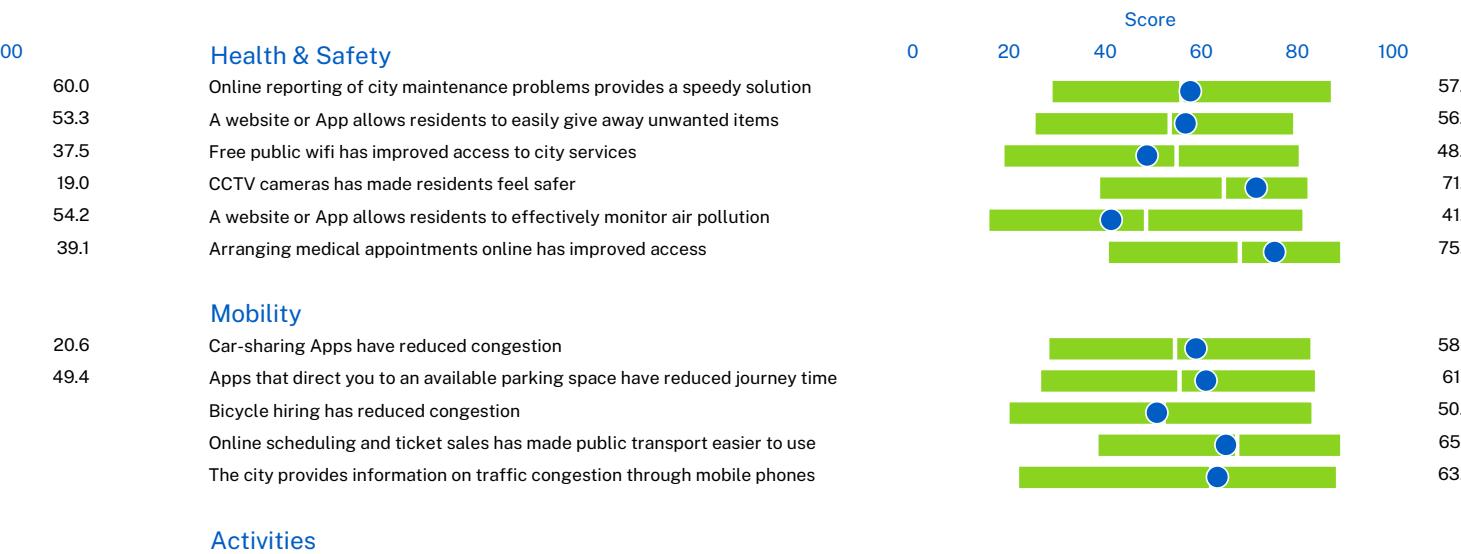
Opportunities (Work & School)

- 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



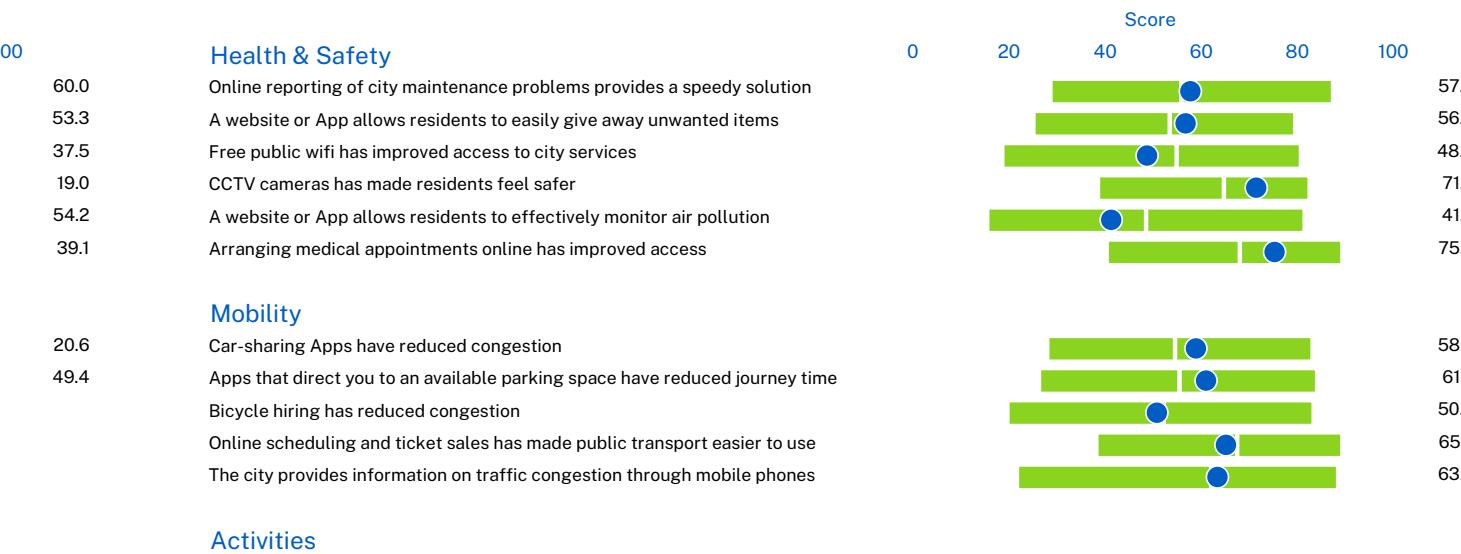
Governance

- 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



Canberra

SMART
CITY
RANKING

3

Out of 142

3 in 2023
Out of 141

SMART
CITY RATING

AA

AA in 2023

FACTOR
RATINGS

AAA

STRUCTURES

A

TECHNOLOGIES

1

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

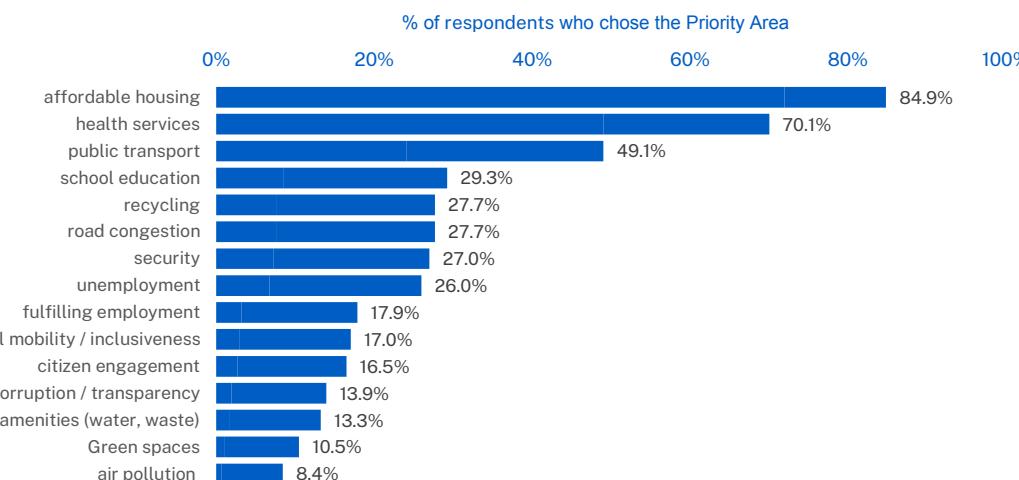
Population 400,000
(UN Data)



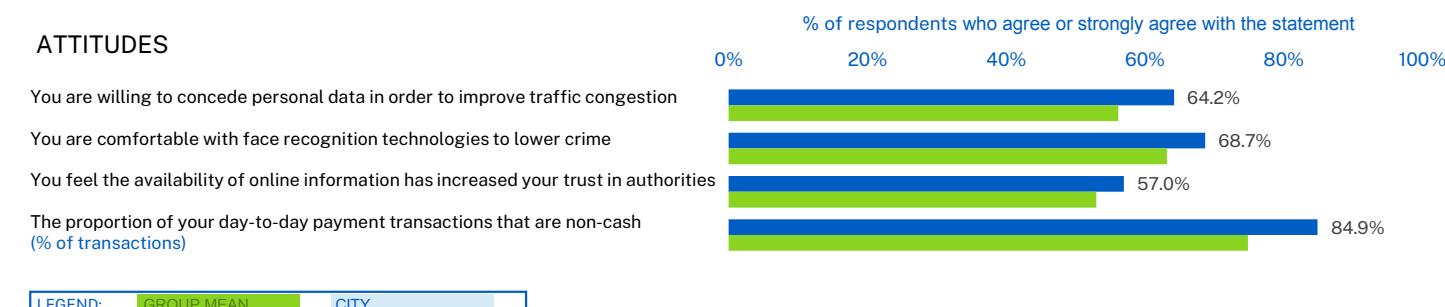
Country

Australia	2019	2020	2021	2022	1 yr change
HDI	0.941	0.948	0.949	0.946	-0.003
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

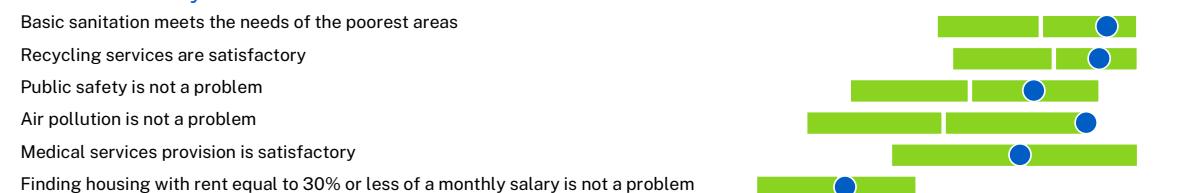


LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



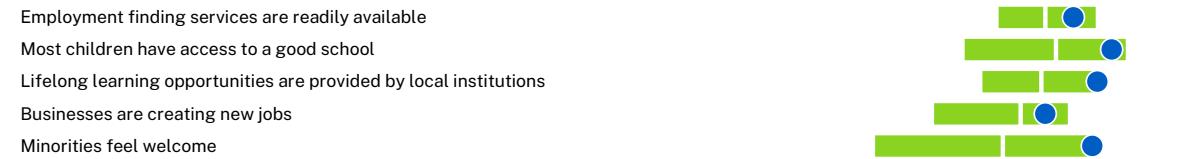
Mobility



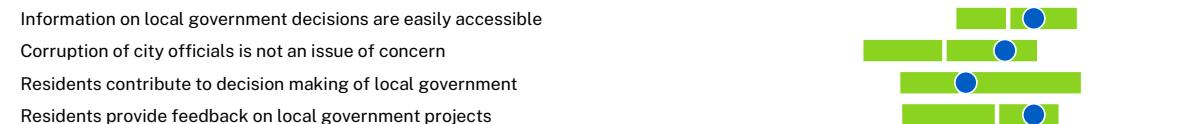
Activities



Opportunities (Work & School)



Governance

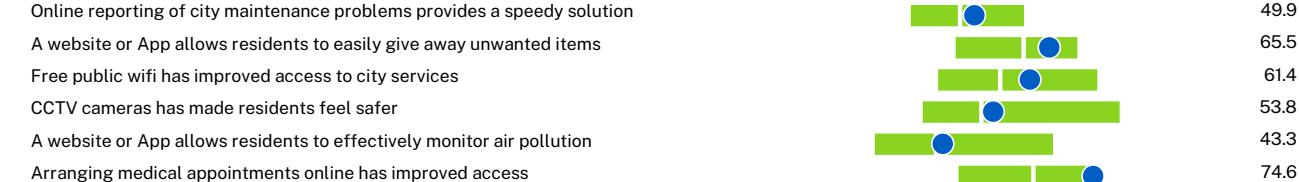


TECHNOLOGIES

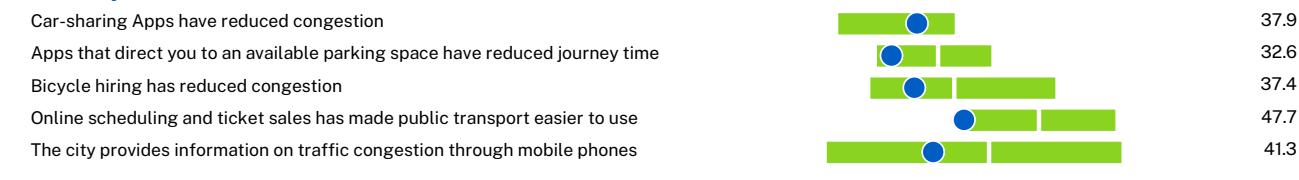
Score

0 20 40 60 80 100

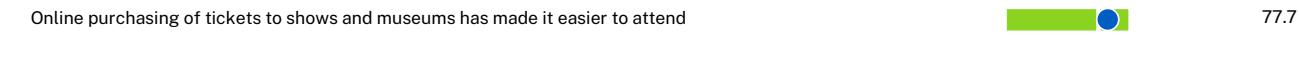
Health & Safety



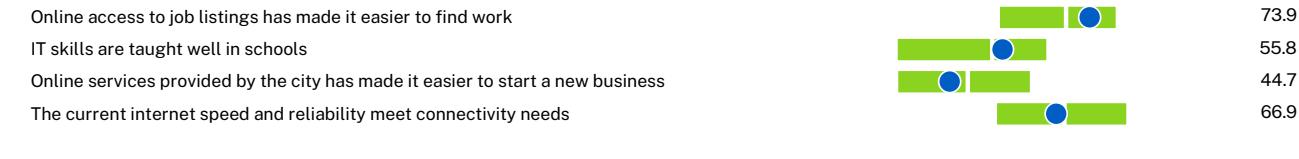
Mobility



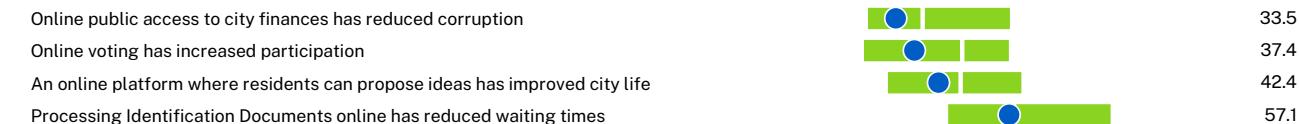
Activities



Opportunities (Work & School)



Governance



Cape Town

SMART
CITY
RANKING
129

Out of 142



125 in 2023
Out of 141

SMART
CITY RATING



C in 2023

FACTOR
RATINGS



STRUCTURES



TECHNOLOGIES



GROUP

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 4,620,000
(UN World Urbanization Prospects)

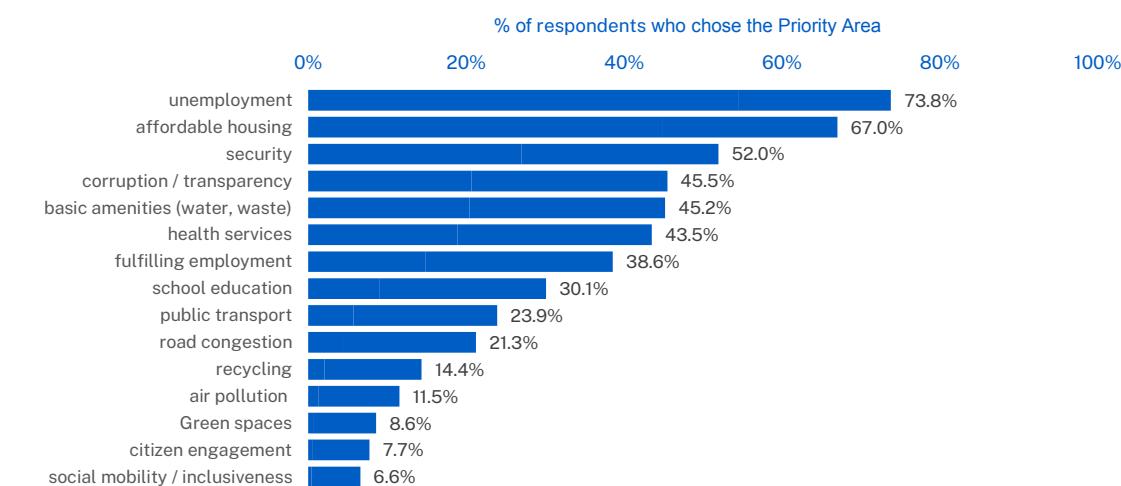
HDI 0.751
(Global Data Lab)



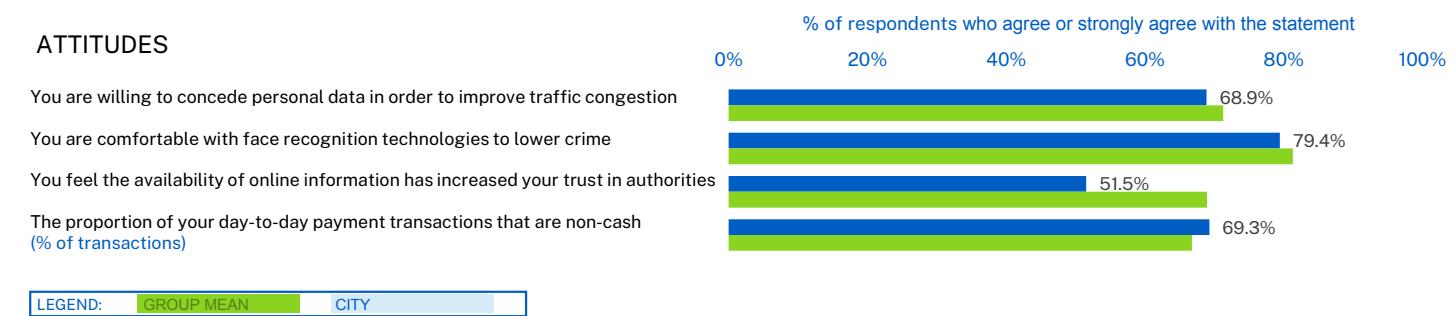
Country

South Africa	2019	2020	2021	2022	1 yr change
HDI	0.741	0.722	0.721	0.717	-0.004
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



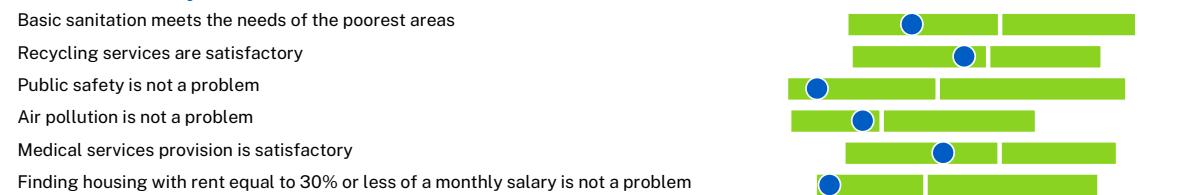
ATTITUDES



STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

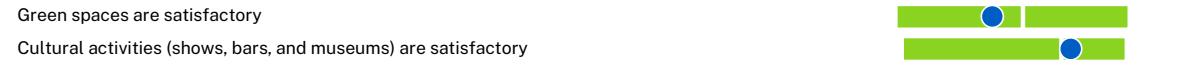
Health & Safety



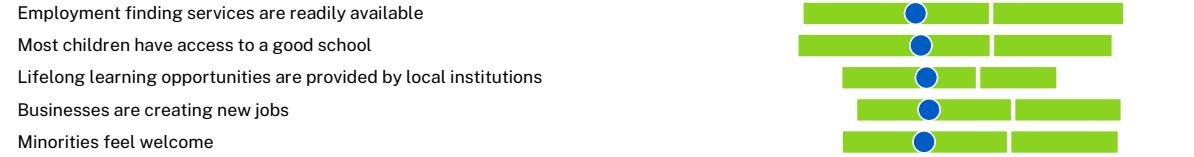
Mobility



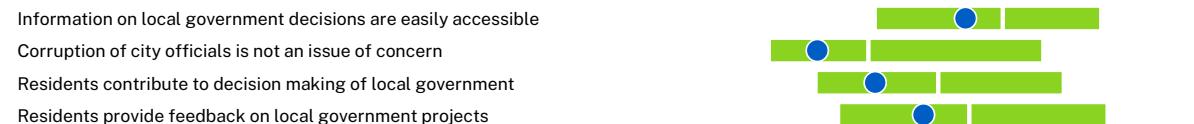
Activities



Opportunities (Work & School)



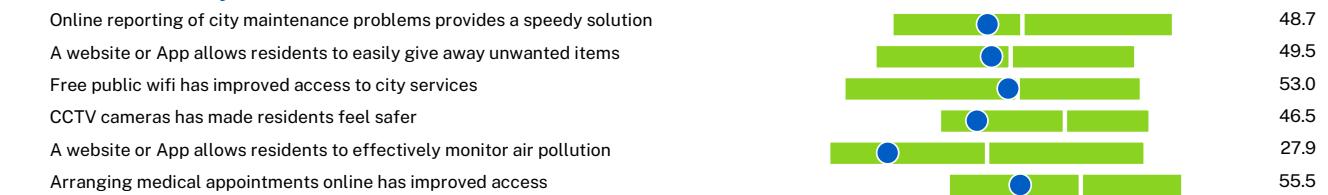
Governance



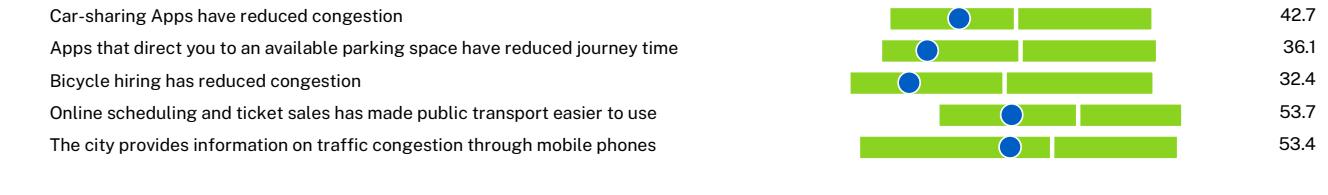
TECHNOLOGIES

Score

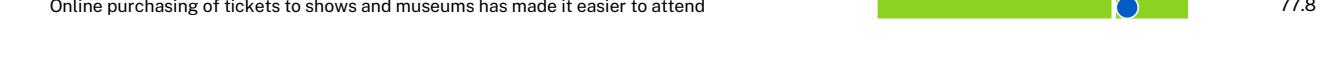
Health & Safety



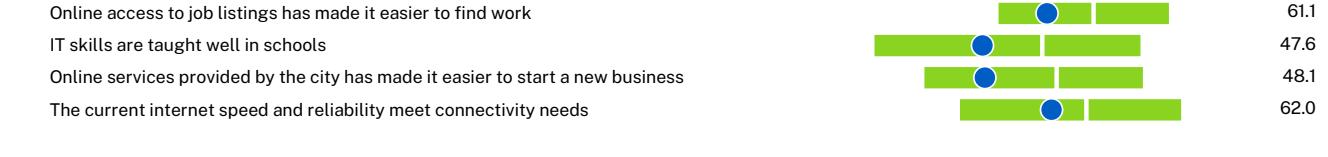
Mobility



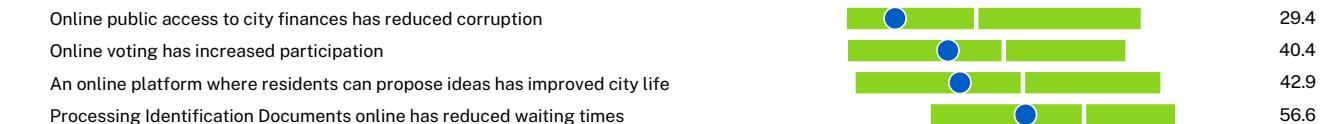
Activities



Opportunities (Work & School)



Governance



SMART
CITY
RANKING
92

Out of 142



94 in 2023
Out of 141

SMART
CITY RATING

CC

CC in 2023

FACTOR
RATINGS

CCC

STRUCTURES

CC

TECHNOLOGIES

3

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 360,000
(Eurostat)

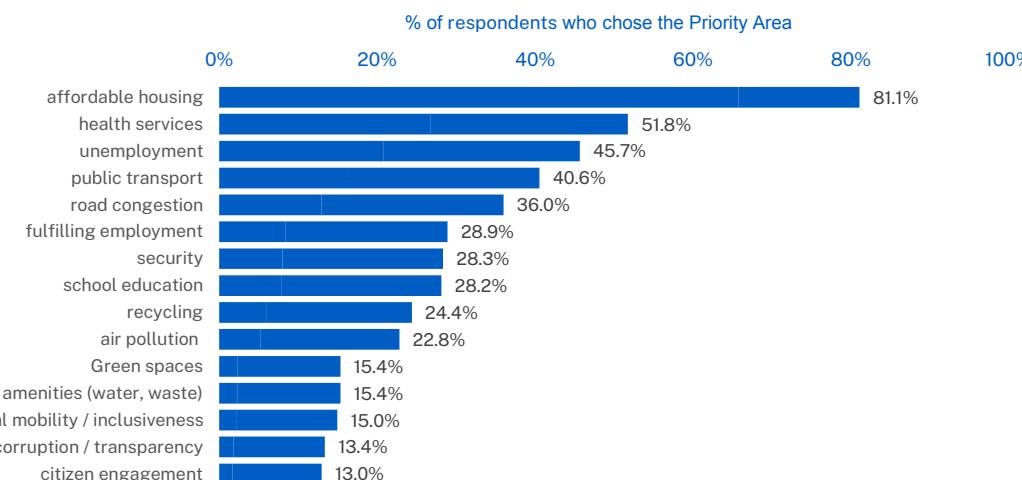
HDI 0.898
(Global Data Lab)



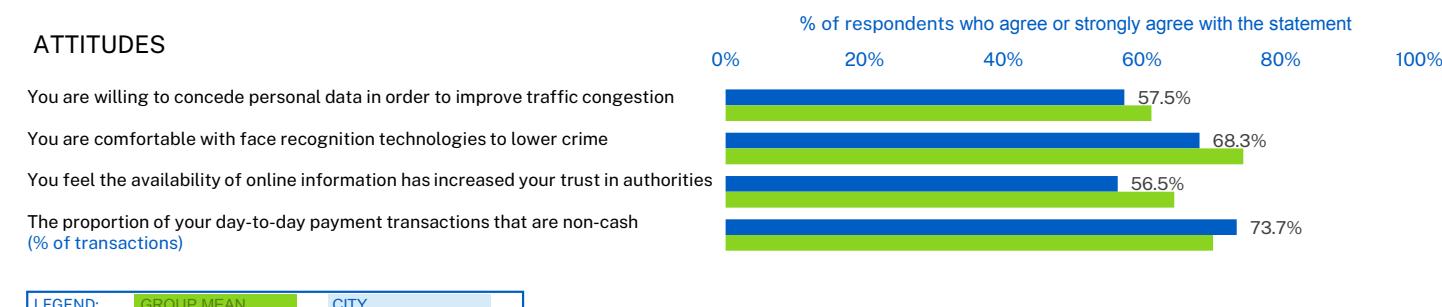
Country

United Kingdom	2019	2020	2021	2022	1 yr change
HDI	0.933	0.920	0.931	0.940	+0.009
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

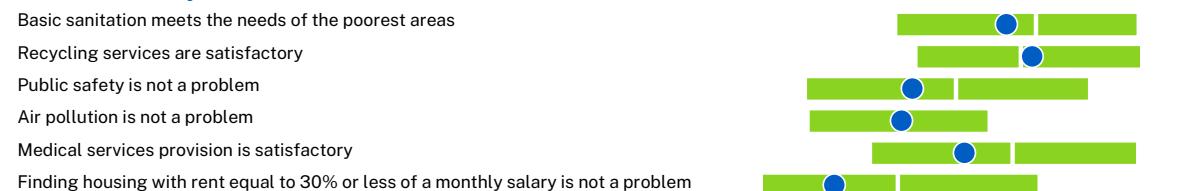


LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



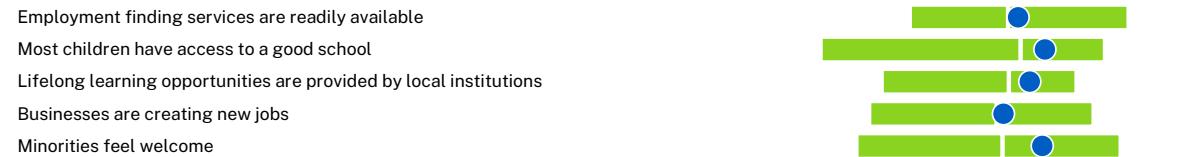
Mobility



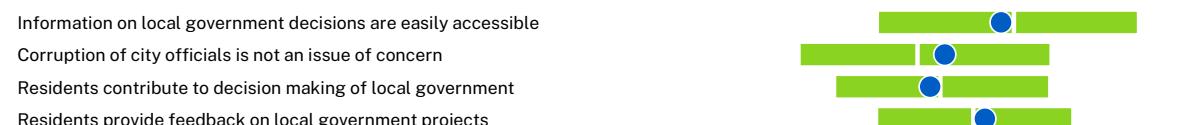
Activities



Opportunities (Work & School)



Governance



TECHNOLOGIES

Score



Chengdu

SMART
CITY
RANKING
93

Out of 142



97 in 2023
Out of 141

SMART
CITY RATING

CCC

CCC in 2023

FACTOR
RATINGS

CCC

STRUCTURES

CCC

TECHNOLOGIES

GROUP



All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 9,140,000
(UN World Urbanization Prospects)

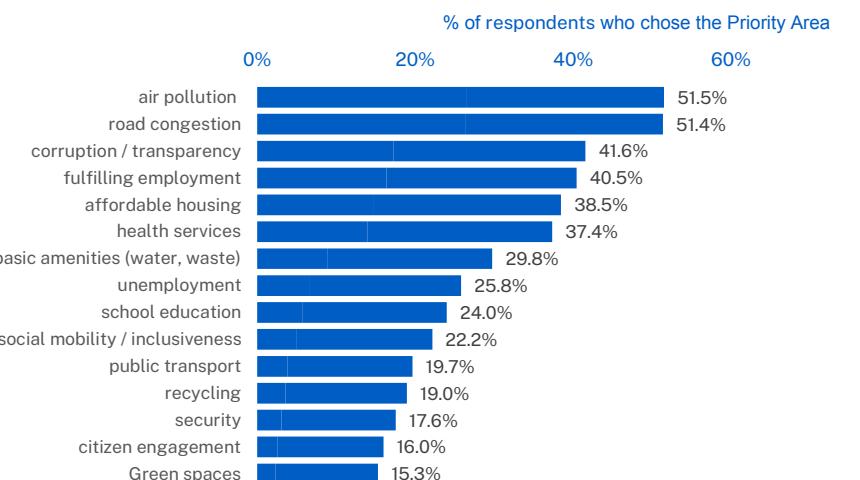
HDI 0.740
(Global Data Lab)



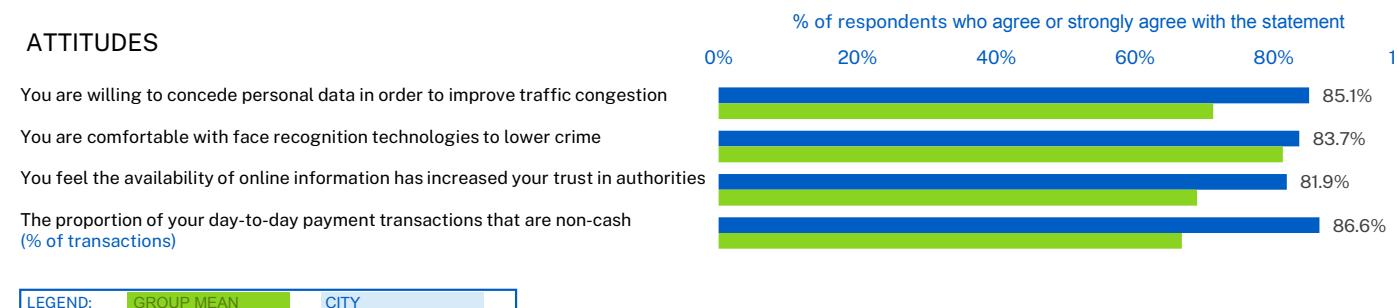
Country

China	2019	2020	2021	2022	1 yr change
HDI	0.775	0.781	0.785	0.788	+0.003
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: 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

79.4

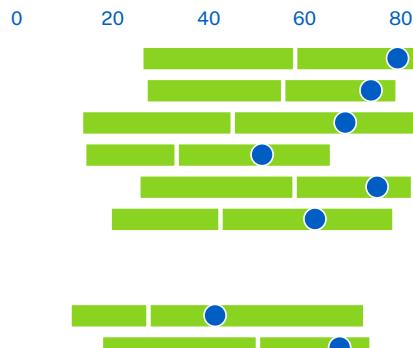
73.8

68.5

51.1

75.1

62.1



Mobility

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

LEGEND: MIN CITY MEAN GROUP MAX

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: 0 20 40 60 80 100

79.8

71.5

75.1

76.8

71.3

87.4



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

Score: 0 20 40 60 80 100

66.0

75.2

78.3

87.0

83.3



Activities

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

Score: 0 20 40 60 80 100

90.1



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

84.7

73.1

75.5

86.7



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

65.5

68.2

76.5

79.0



All ratings range
from AAA to D

Chicago

SMART
CITY
RANKING
67

Out of 142



61 in 2023
Out of 141

SMART
CITY RATING

BB

BB in 2023

FACTOR
RATINGS

BB

STRUCTURES

BB

TECHNOLOGIES

2

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

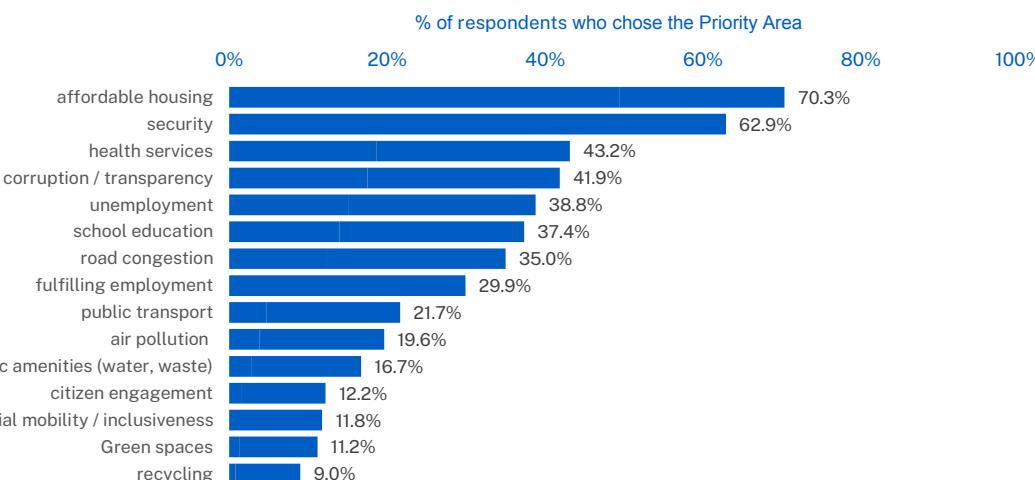
Population 2,750,000
(UN Data)



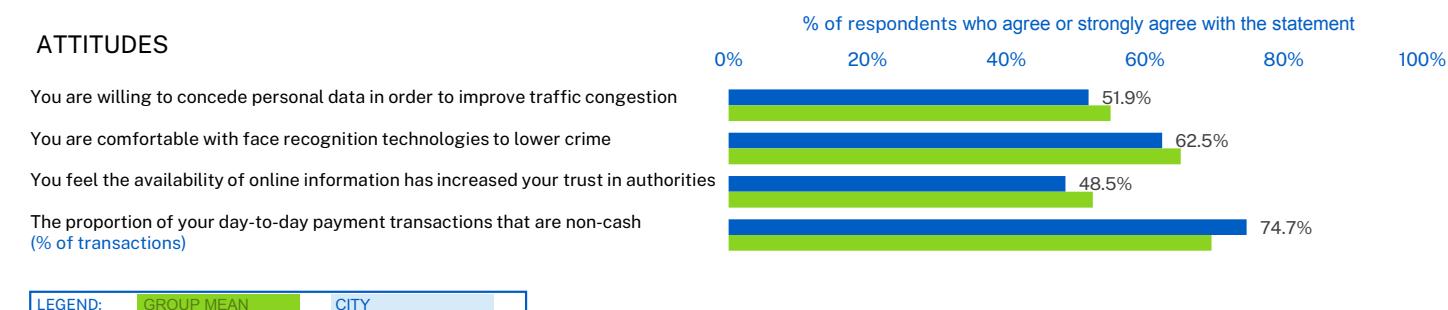
Country

USA	2019	2020	2021	2022	1 yr change
HDI	0.933	0.923	0.921	0.927	+0.006
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: MIN CITY MEAN GROUP MAX

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

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

Mobility

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

Score 0 20 40 60 80 100

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

Chongqing

SMART
CITY
RANKING
82

Out of 142



86 in 2023
Out of 141

SMART
CITY RATING

CCC

CCC in 2023

FACTOR
RATINGS

CCC

STRUCTURES

CCC

TECHNOLOGIES

GROUP



All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 15,870,000
(UN World Urbanization Prospects)

HDI 0.774
(Global Data Lab)



86 in 2023

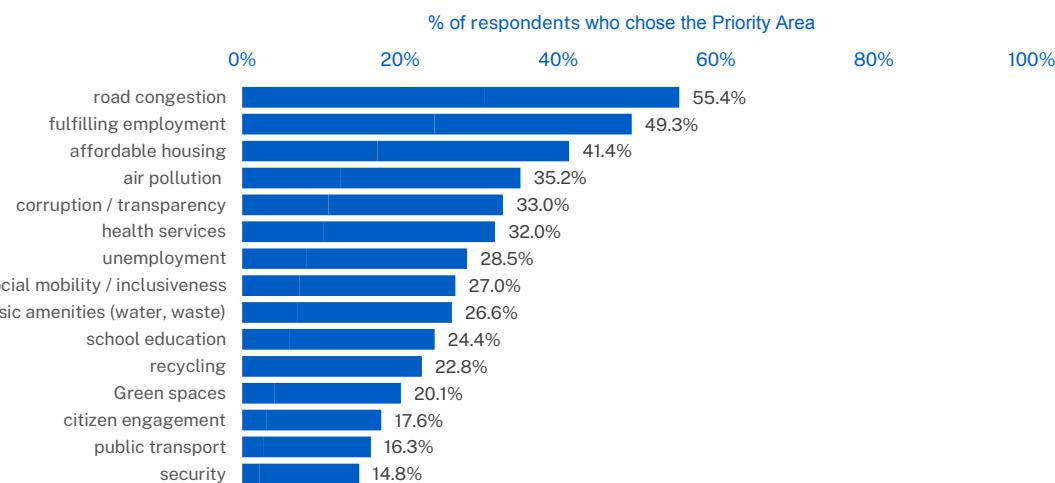
Out of 141

Country

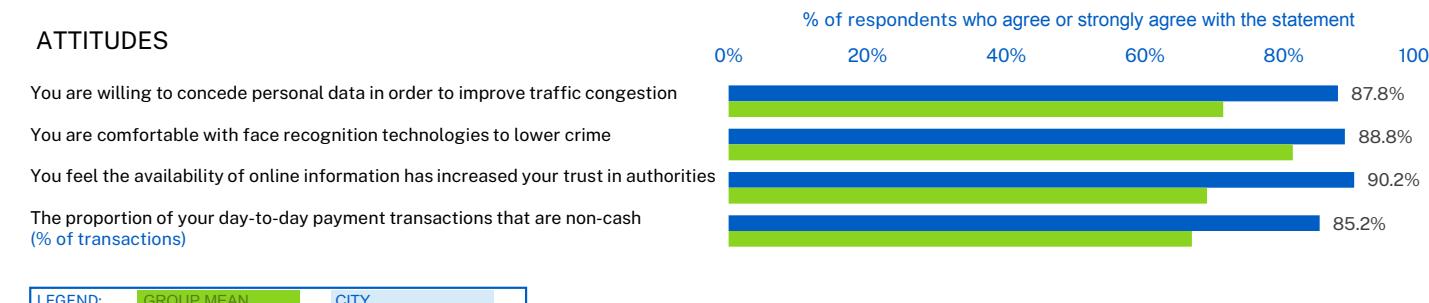
China	2019	2020	2021	2022	1 yr change
HDI	0.775	0.781	0.785	0.788	+0.003
Life expectancy at birth	78.0	78.1	78.2	78.6	+0.4
Expected years of schooling	15.0	15.2	15.2	15.2	+0.0
Mean years of schooling	8.0	8.1	8.1	8.1	+0.0
GNI per capita (PPP \$)	15,934	16,168	17,499	18,025	+526

PRIORITY AREAS

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

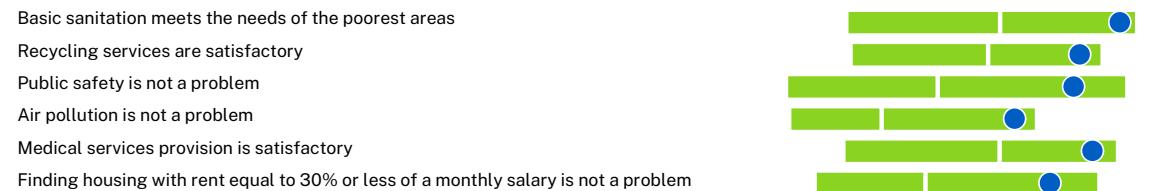


LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



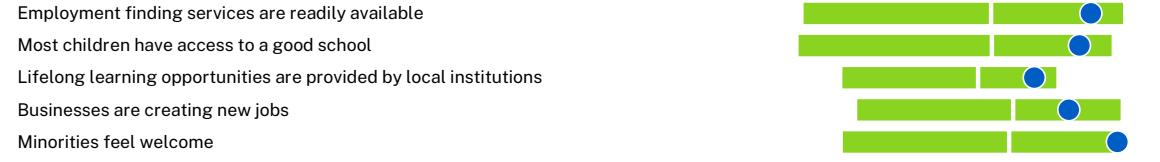
Mobility



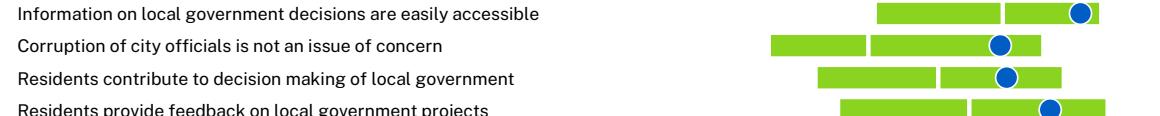
Activities



Opportunities (Work & School)



Governance

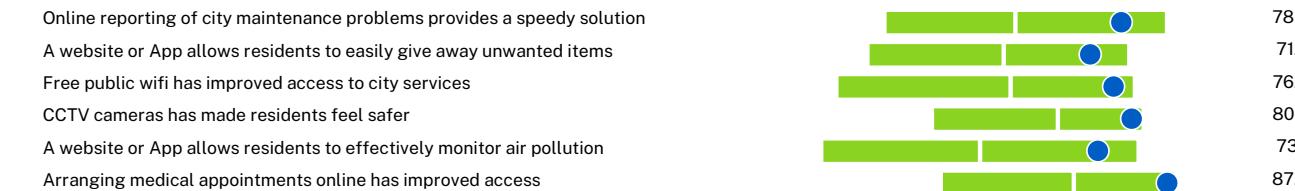


STRUCTURES

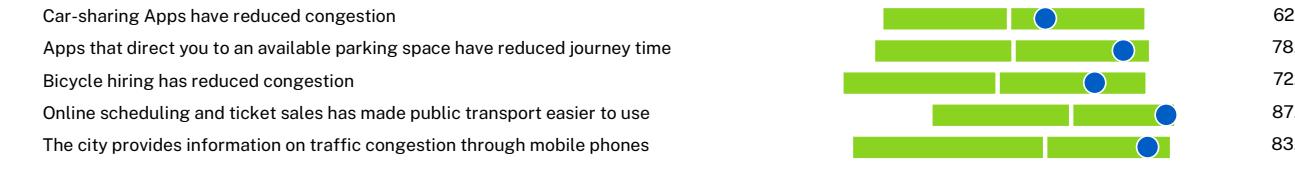
TECHNOLOGIES

Score

Health & Safety



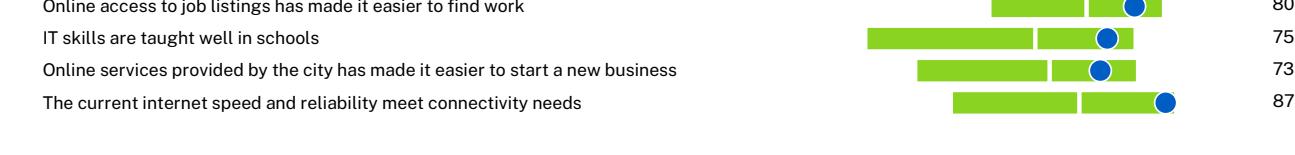
Mobility



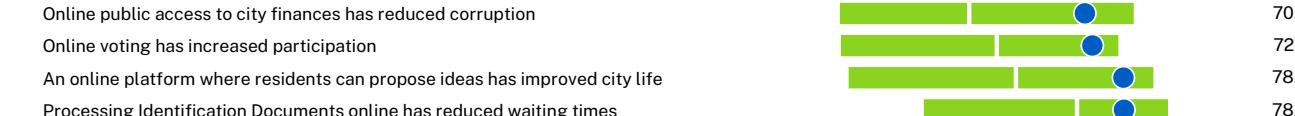
Activities



Opportunities (Work & School)



Governance



Copenhagen

SMART
CITY
RANKING

6

Out of 142



4 in 2023
Out of 141

SMART
CITY RATING

AA

AA in 2023

FACTOR
RATINGS

AA

STRUCTURES

A

TECHNOLOGIES

GROUP

1

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

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

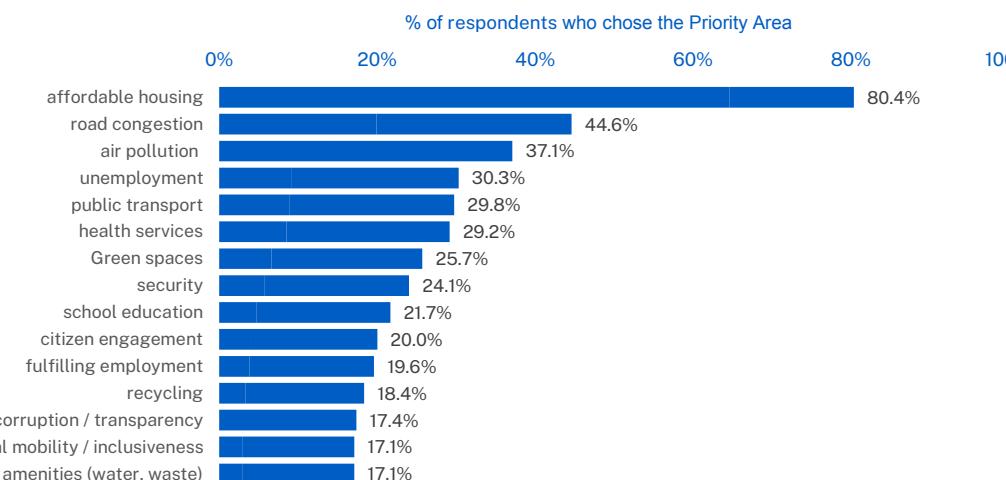
HDI 0.967
(Global Data Lab)



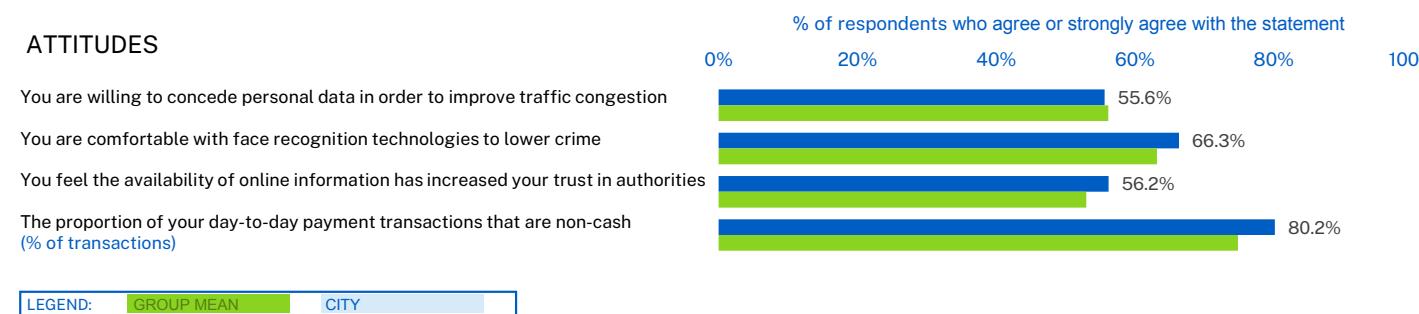
Country

Denmark	2019	2020	2021	2022	1 yr change
HDI	0.946	0.946	0.947	0.952	+0.005
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

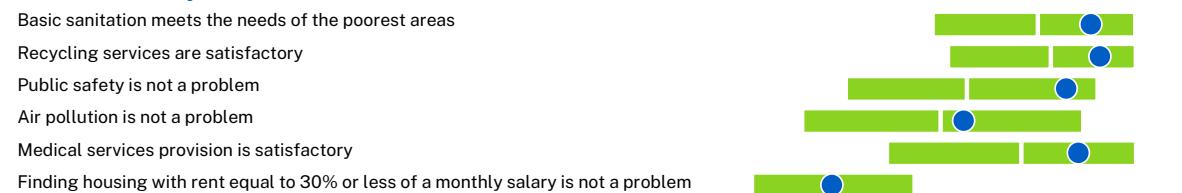


LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



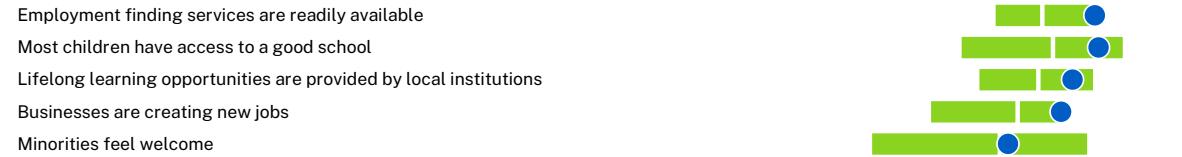
Mobility



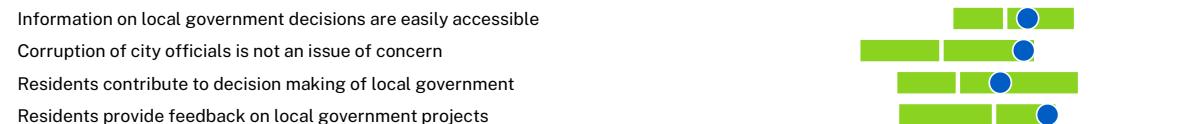
Activities



Opportunities (Work & School)



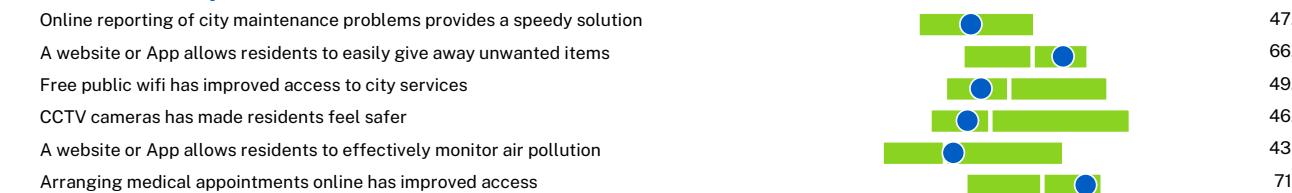
Governance



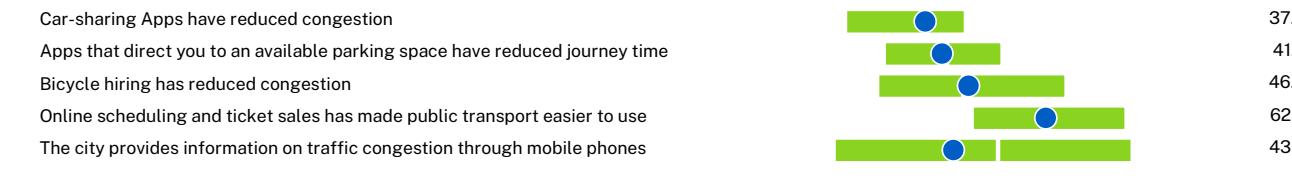
TECHNOLOGIES

TECHNOLOGIES

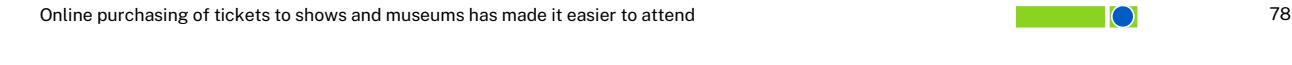
Health & Safety



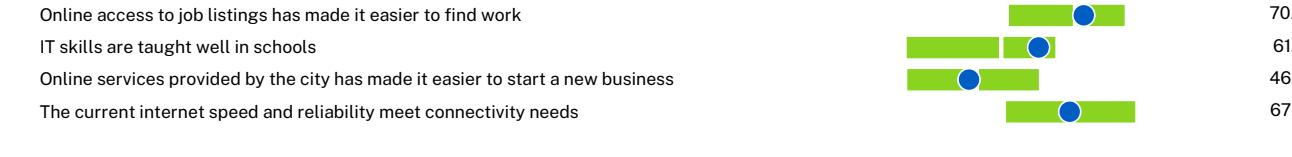
Mobility



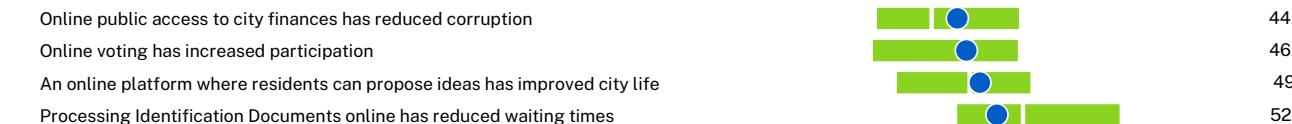
Activities



Opportunities (Work & School)



Governance



Delhi

SMART
CITY
RANKING
106
Out of 142

105 in 2023
Out of 141

SMART
CITY RATING

CC
CC in 2023

FACTOR
RATINGS

CC

STRUCTURES

CC

TECHNOLOGIES

GROUP

4

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 30,290,000
(UN World Urbanization Prospects)

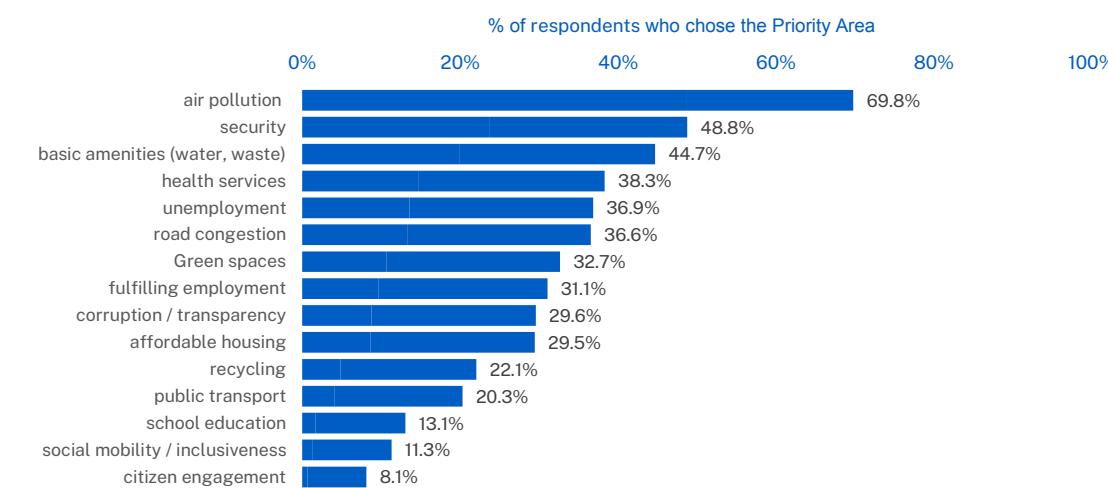
HDI 0.730
(Global Data Lab)



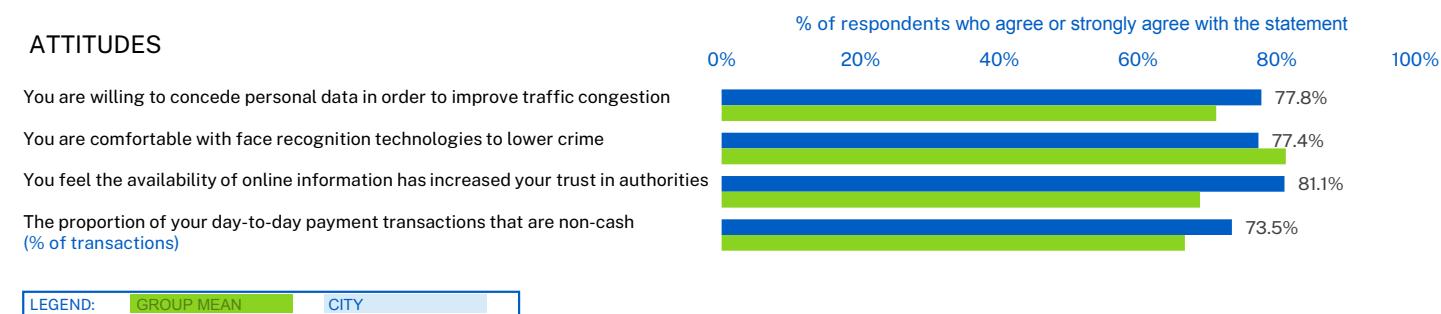
Country

India	2019	2020	2021	2022	1 yr change
HDI	0.638	0.638	0.633	0.644	+0.011
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



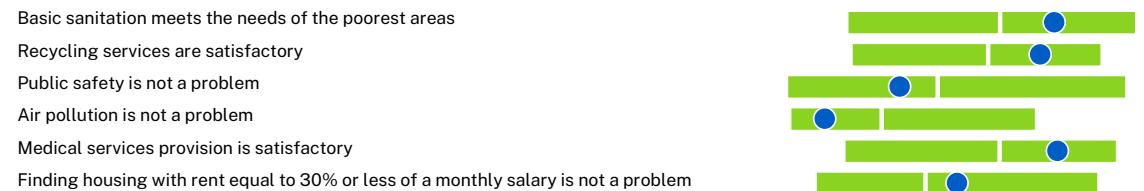
ATTITUDES



LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

Health & Safety



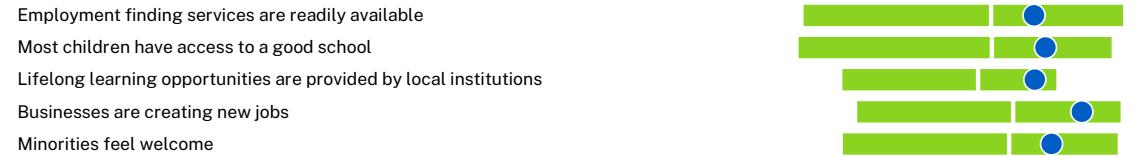
Mobility



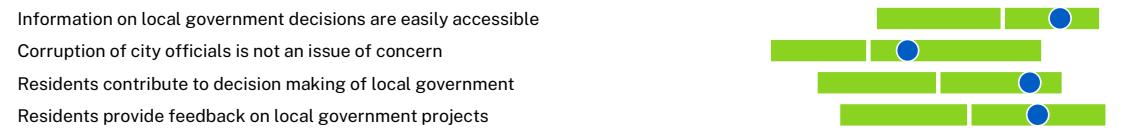
Activities



Opportunities (Work & School)

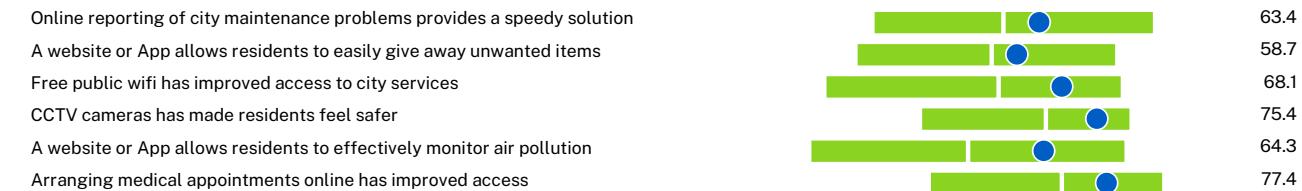


Governance

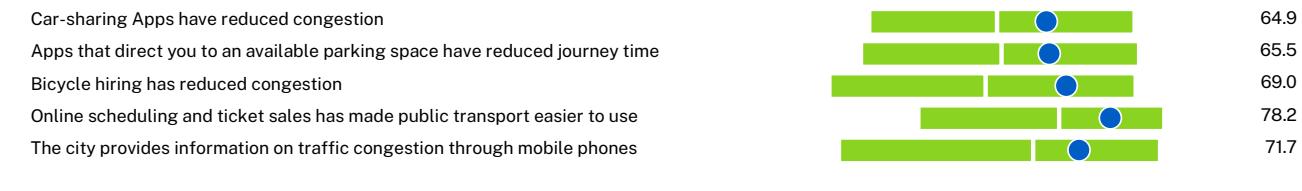


TECHNOLOGIES

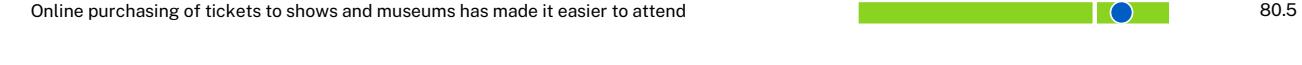
Health & Safety



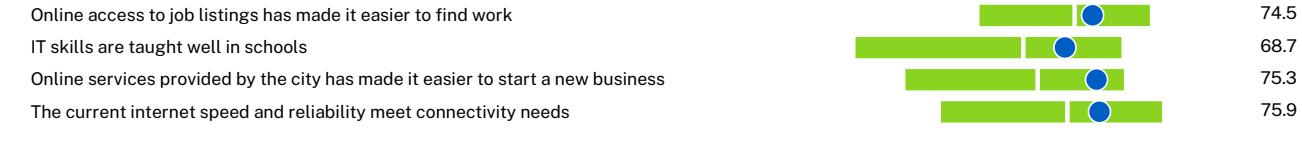
Mobility



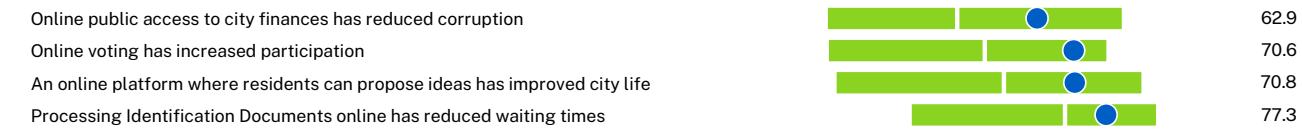
Activities



Opportunities (Work & School)



Governance



Denver

SMART
CITY
RANKING
66

Out of 142



53 in 2023
Out of 141

SMART
CITY RATING

BBB

BBB in 2023

FACTOR
RATINGS

BBB

STRUCTURES

BBB

TECHNOLOGIES

GROUP
1

1

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 720,000
(UN Data)

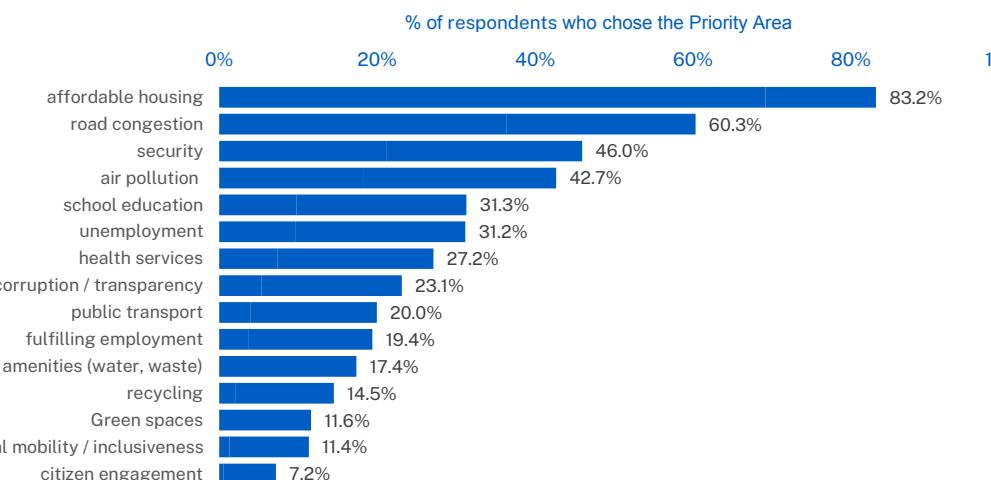
HDI 0.942
(Global Data Lab)



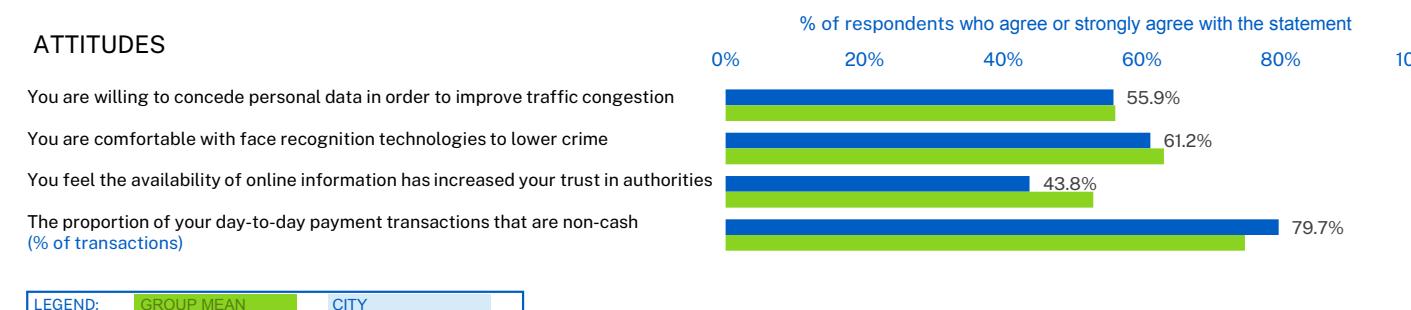
Country

USA	2019	2020	2021	2022	1 yr change
HDI	0.933	0.923	0.921	0.927	+0.006
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

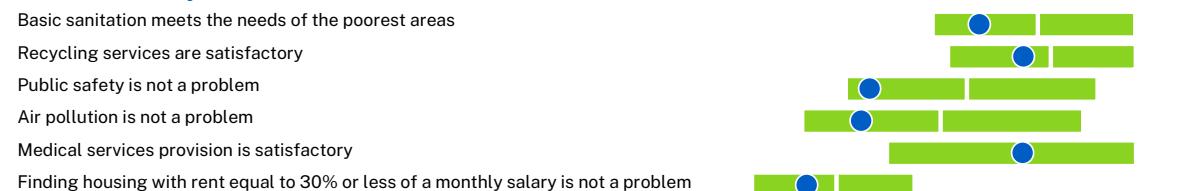


LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



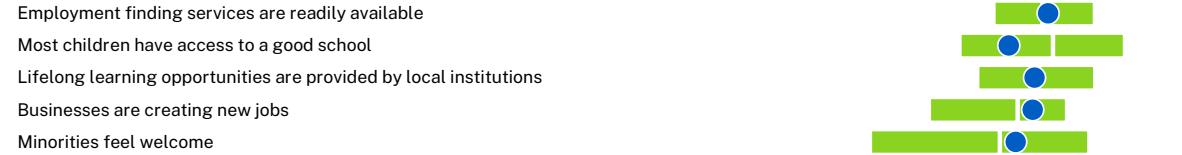
Mobility



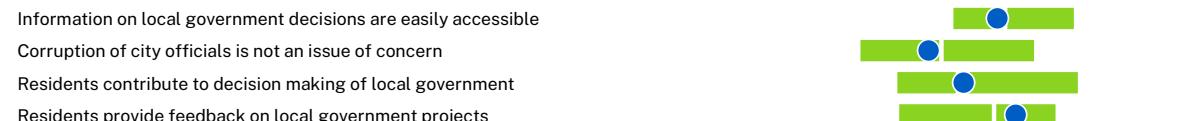
Activities



Opportunities (Work & School)



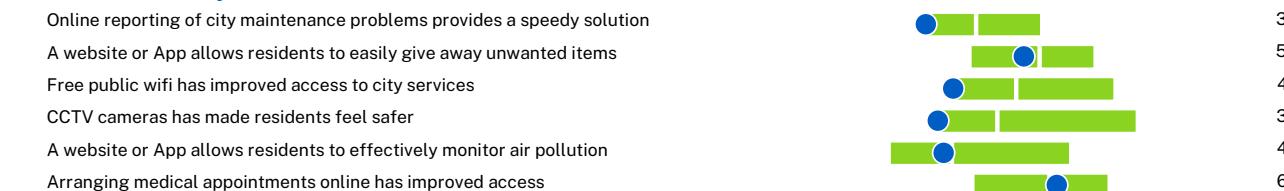
Governance



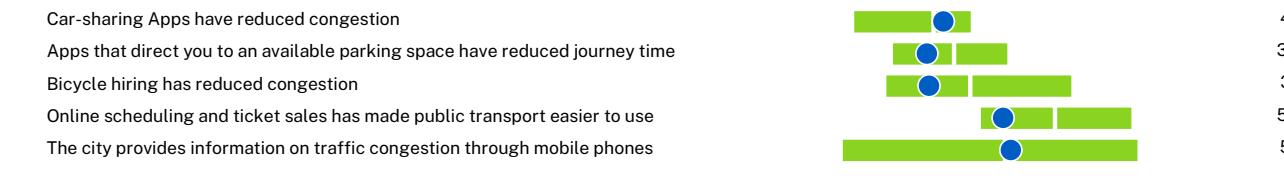
TECHNOLOGIES

LEGEND: MIN CITY MEAN GROUP MAX

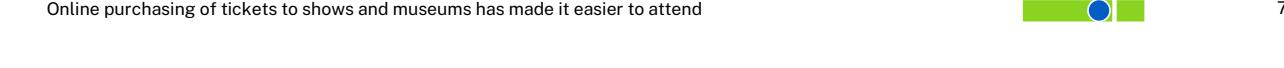
Health & Safety



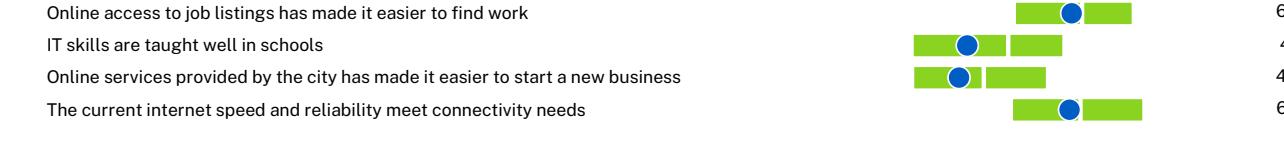
Mobility



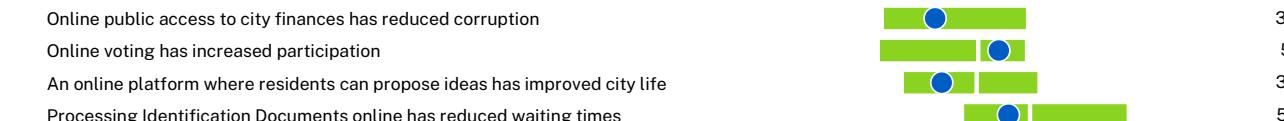
Activities



Opportunities (Work & School)



Governance



Doha

SMART
CITY
RANKING

48

Out of 142



59 in 2023
Out of 141

SMART
CITY RATING

B

BB in 2023

FACTOR
RATINGS

BB

STRUCTURES

B

TECHNOLOGIES

3

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

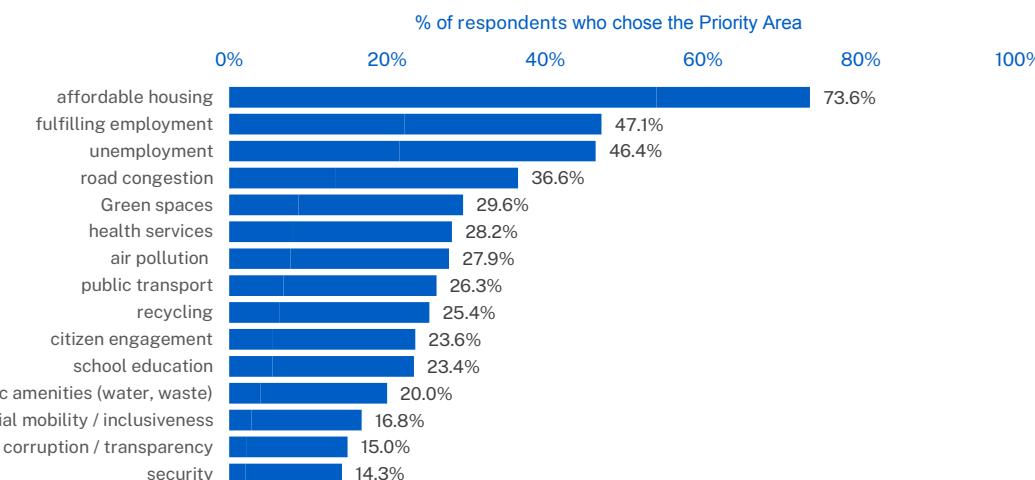
Population 1,190,000
(UN Data)



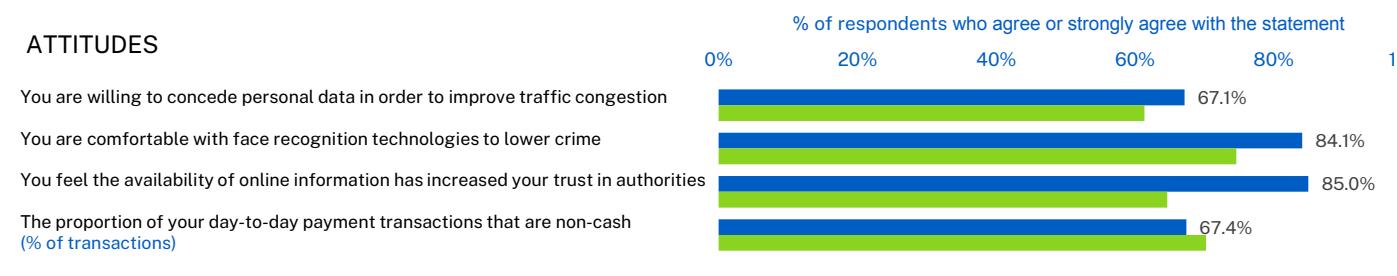
Country

Qatar	2019	2020	2021	2022	1 yr change
HDI	0.869	0.863	0.864	0.875	+0.011
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

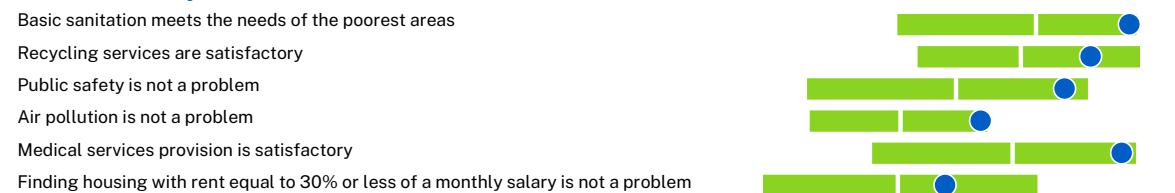


LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



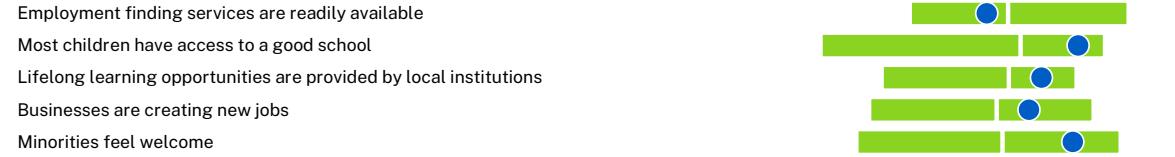
Mobility



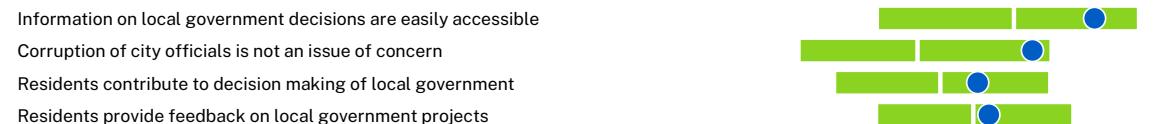
Activities



Opportunities (Work & School)



Governance



TECHNOLOGIES

Score

0 20 40 60 80 100

77.5 72.0 70.0 83.8 54.5 77.8

77.5 72.0 70.0 83.8 54.5 77.8

71.6 66.7 63.7 78.7 69.9

87.3

72.4 74.1 72.6 85.4

66.3 62.6 63.0 81.5

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

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

87.3

Opportunities (Work & School)

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

72.4

IT skills are taught well in schools

74.1

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

72.6

The current internet speed and reliability meet connectivity needs

85.4

Governance

Online public access to city finances has reduced corruption

66.3

Online voting has increased participation

62.6

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

63.0

Processing Identification Documents online has reduced waiting times

81.5

All ratings range
from AAA to D

Dubai

SMART
CITY
RANKING
12

Out of 142



17 in 2023
Out of 141

SMART
CITY RATING

BB

BB in 2023

FACTOR
RATINGS

BB

STRUCTURES

BB

TECHNOLOGIES

3

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 2,880,000
(UN World Urbanization Prospects)

HDI 0.911
(Global Data Lab)

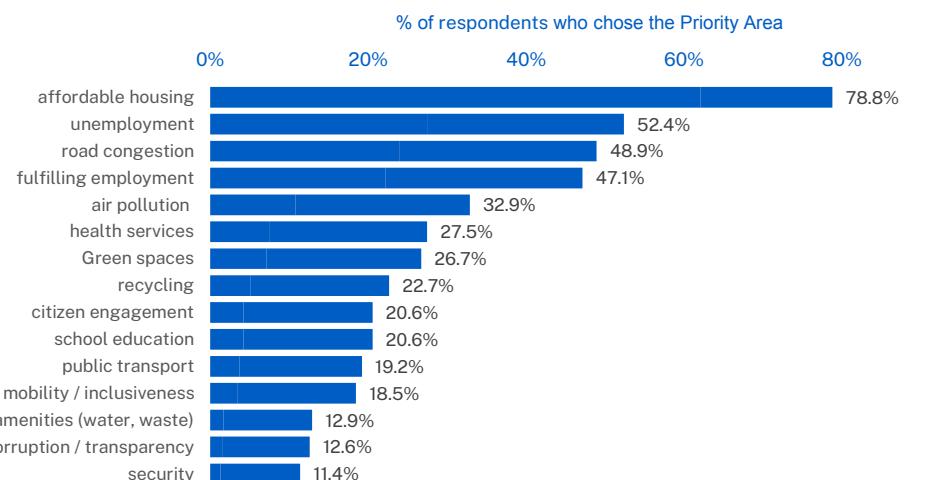


Map tiles by Stamen Design CC BY 3.0 Map Data © OpenStreetMap

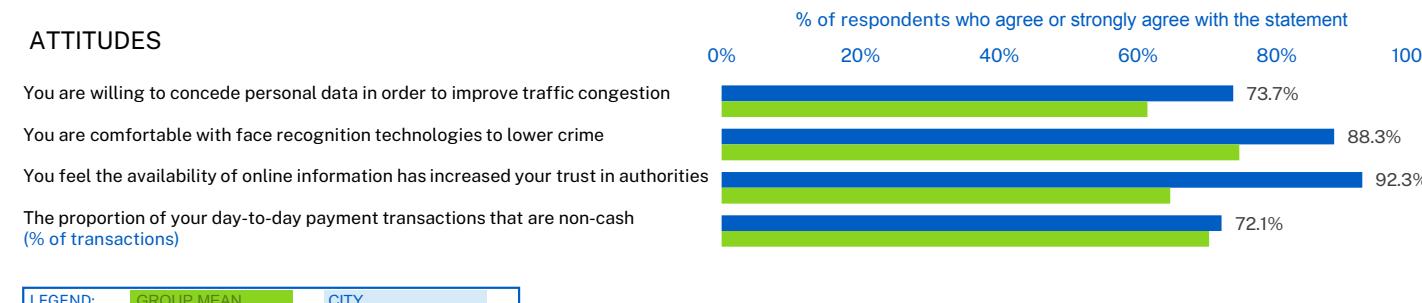
Country

United Arab Emirates	2019	2020	2021	2022	1 yr change
HDI	0.933	0.930	0.931	0.937	+0.006
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

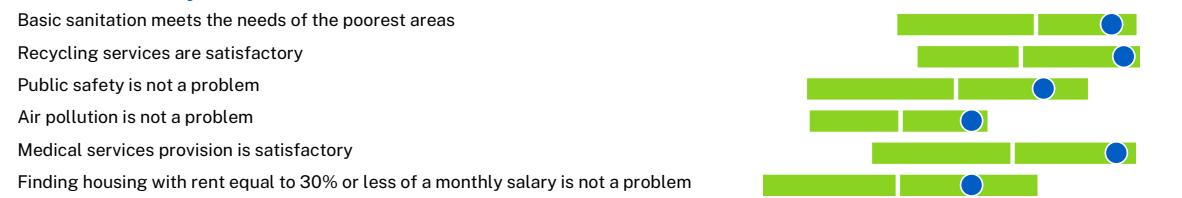


LEGEND: GROUP MEAN CITY

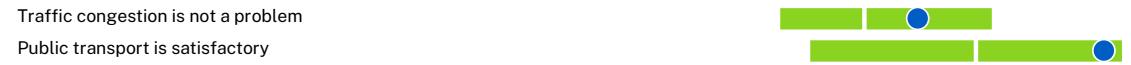
STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



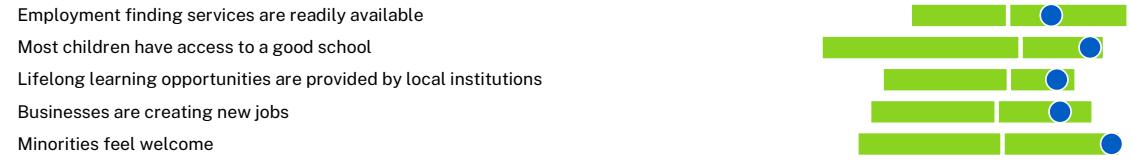
Mobility



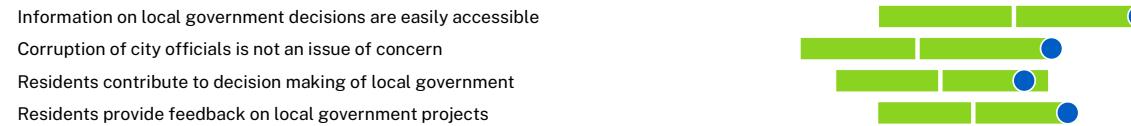
Activities



Opportunities (Work & School)

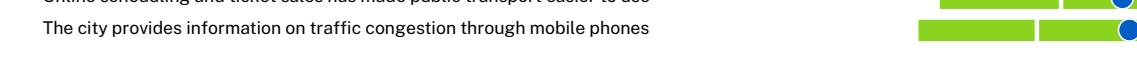


Governance

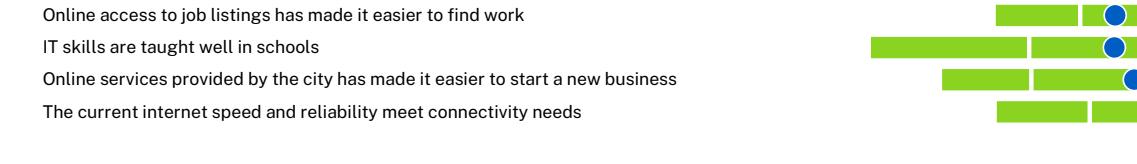


TECHNOLOGIES

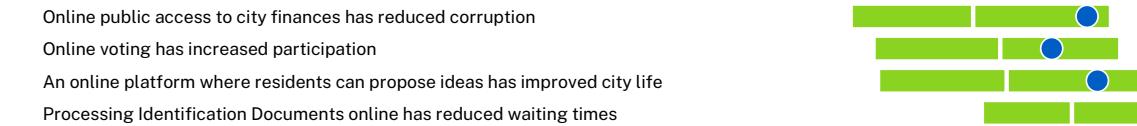
Activities



Opportunities (Work & School)



Governance



All ratings range
from AAA to D

Dublin

SMART
CITY
RANKING
69

Out of 142



63 in 2023
Out of 141

SMART
CITY RATING

BB

BB in 2023

FACTOR
RATINGS

BB

STRUCTURES

BBB

TECHNOLOGIES

GROUP

1

All ratings range
from AAA to D

BACKGROUND INFORMATION

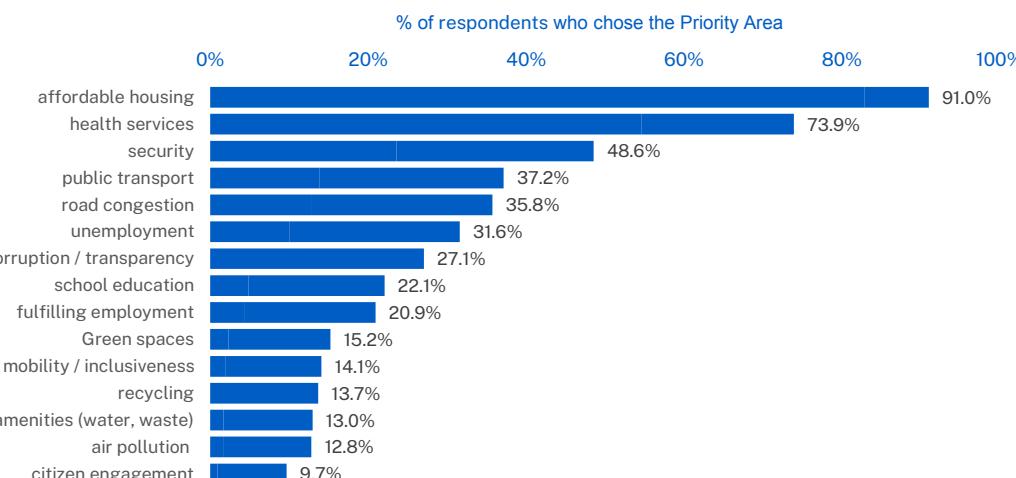
City

Population 1,230,000
(UN World Urbanization Prospects)

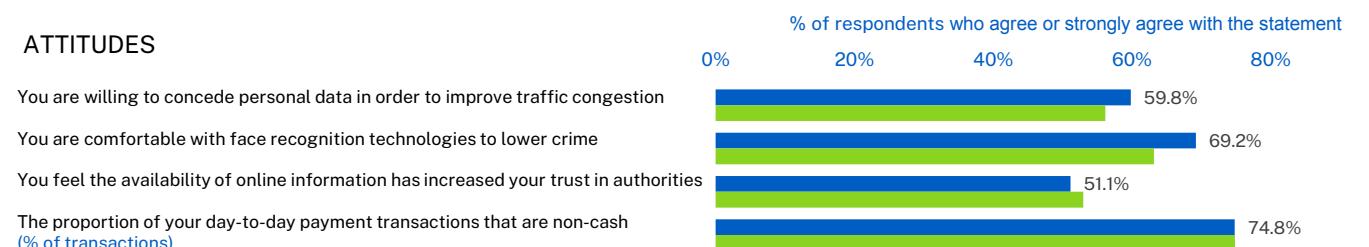
HDI 0.950
(Global Data Lab)



PRIORITY AREAS



ATTITUDES



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

56.6

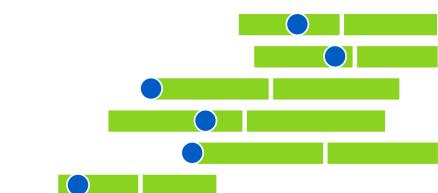
64.5

26.1

37.5

34.7

10.9



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

36.5

65.2

54.7

48.6

29.0

46.4



Mobility

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

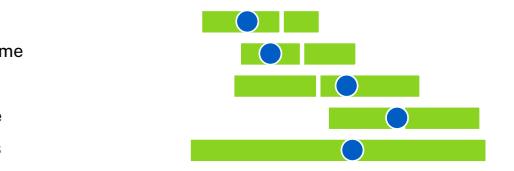


20.3

41.9

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



54.7

68.2

Activities

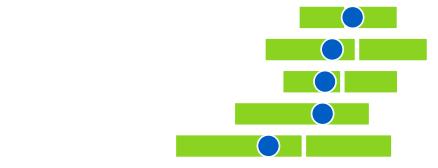
- Online purchasing of tickets to shows and museums has made it easier to attend



79.2

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



68.1

63.9

62.4

61.9

50.5

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



71.8

50.4

46.8

67.4

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



48.1

30.2

36.4

49.1

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



33.3

41.3

39.4

64.0

Dusseldorf

SMART
CITY
RANKING

44

Out of 142



38 in 2023
Out of 141

SMART
CITY RATING

BB

BB in 2023

FACTOR
RATINGS

BBB

STRUCTURES

B

TECHNOLOGIES

2

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 630,000
(UN World Urbanization Prospects)

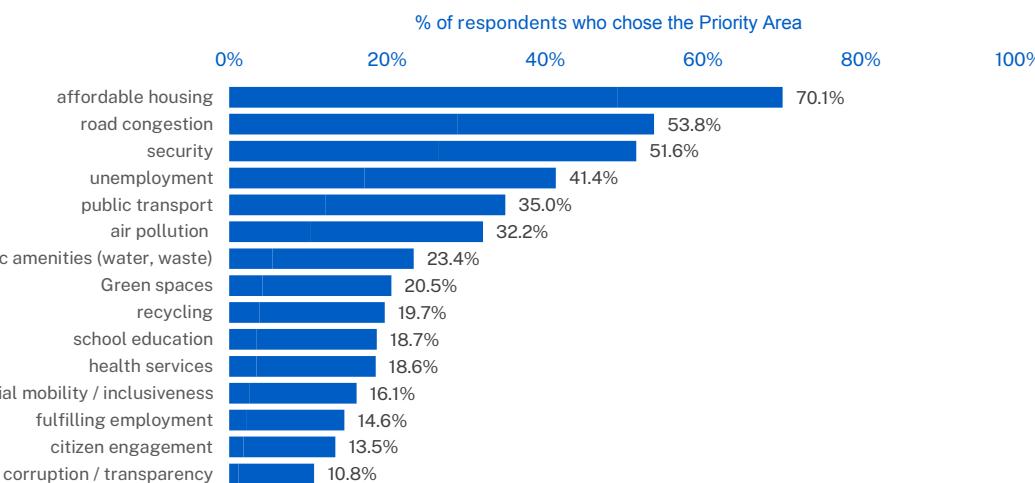
HDI 0.939
(Global Data Lab)



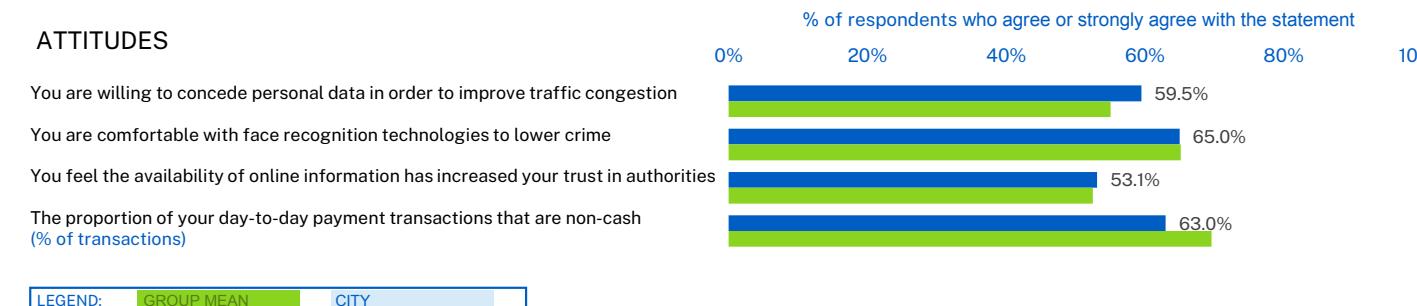
Country

Germany	2019	2020	2021	2022	1 yr change
HDI	0.951	0.948	0.948	0.950	+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

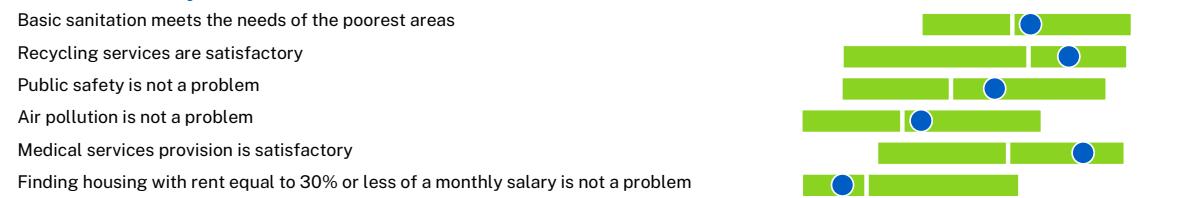


LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

Health & Safety



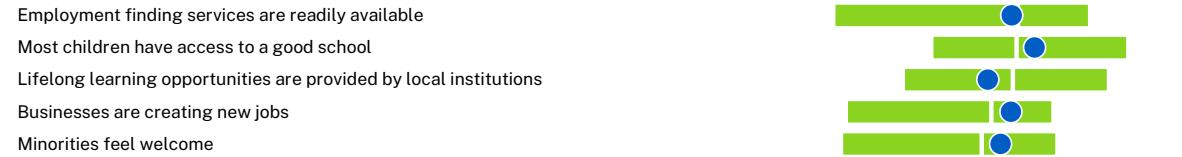
Mobility



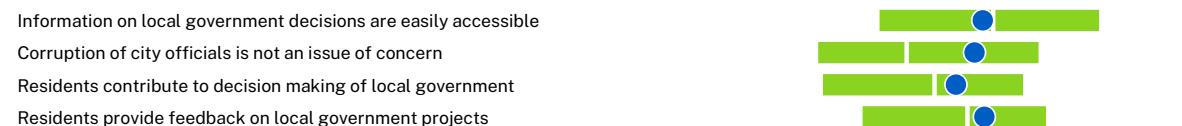
Activities



Opportunities (Work & School)

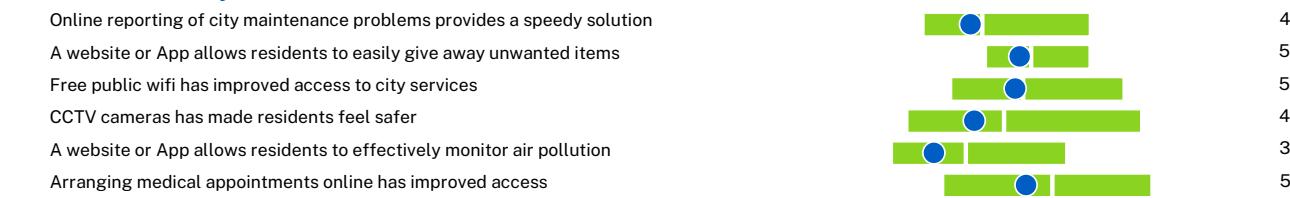


Governance

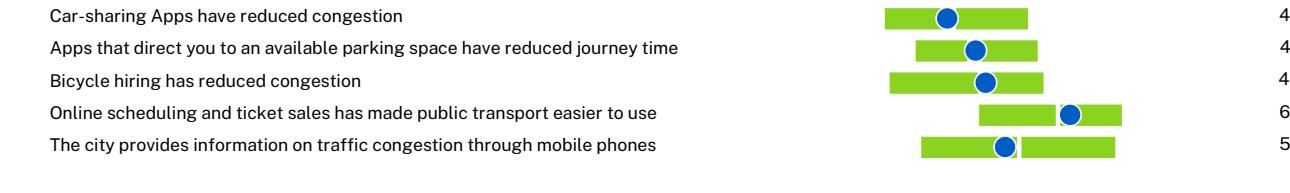


TECHNOLOGIES

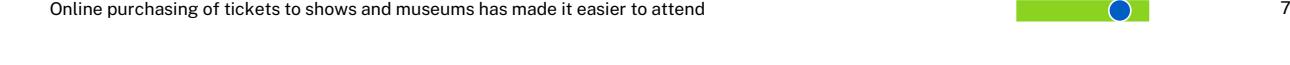
Health & Safety



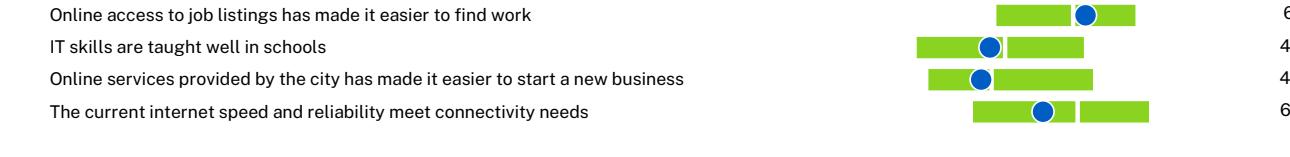
Mobility



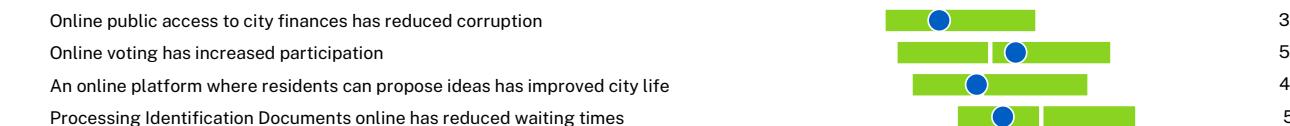
Activities



Opportunities (Work & School)



Governance



Geneva

SMART
CITY
RANKING

4

Out of 142



9 in 2023
Out of 141

SMART
CITY RATING

AAA

AA in 2023

FACTOR
RATINGS

AAA

STRUCTURES

AA

TECHNOLOGIES

GROUP

1

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

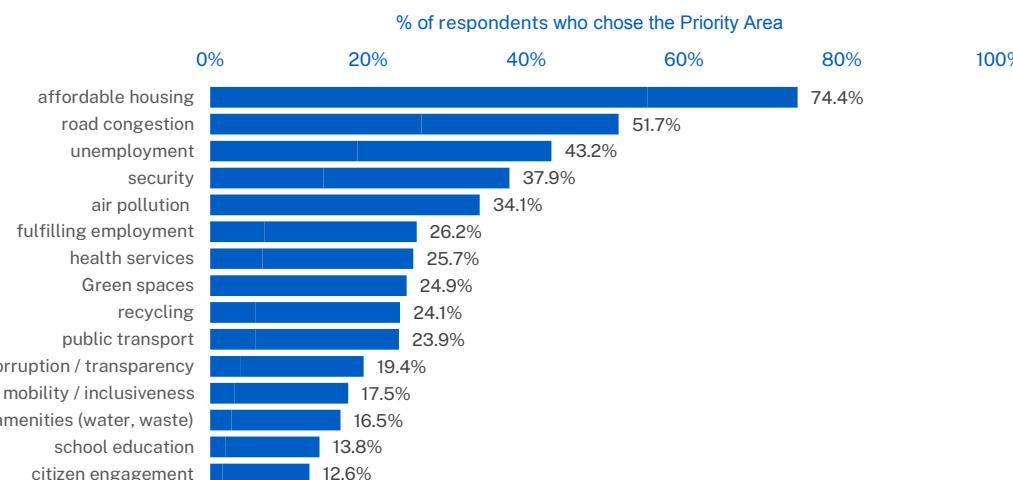
Population 200,000
(Eurostat)



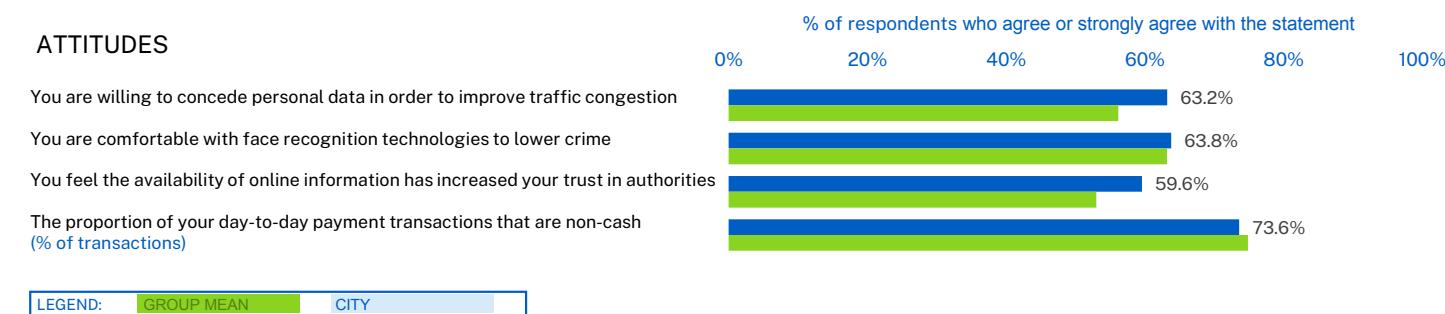
Country

Switzerland	2019	2020	2021	2022	1 yr change
HDI	0.960	0.957	0.965	0.967	+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

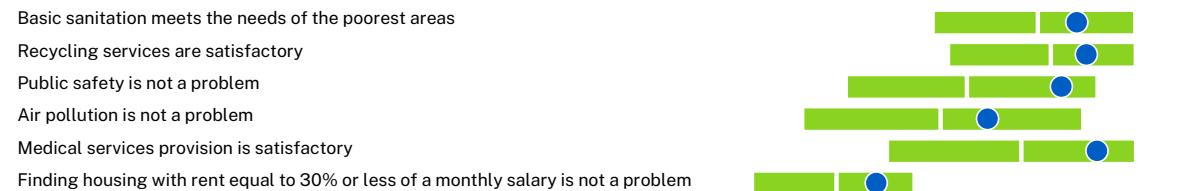


LEGEND: GROUP MEAN CITY

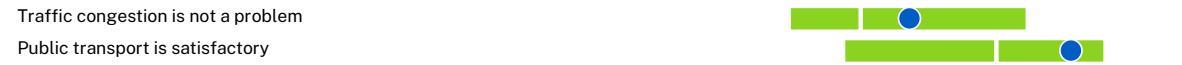
STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



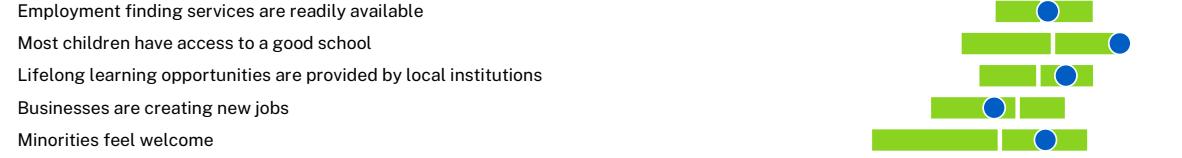
Mobility



Activities



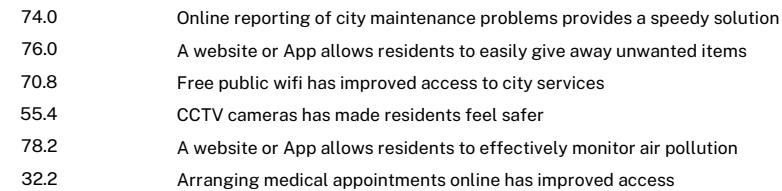
Opportunities (Work & School)



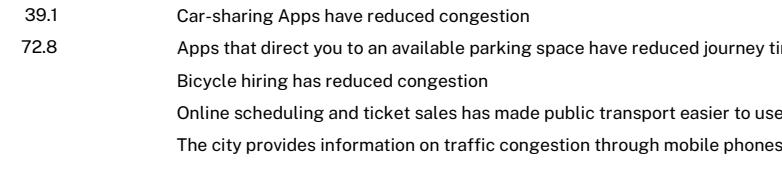
Governance



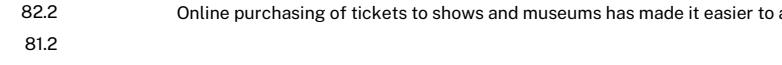
Health & Safety



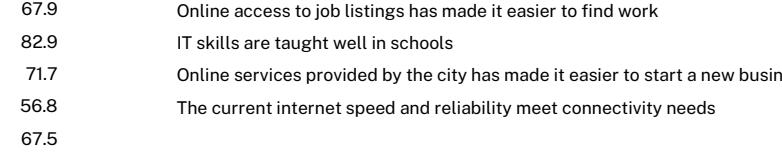
Mobility



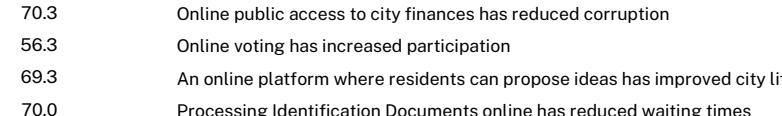
Activities



Opportunities (Work & School)



Governance



Glasgow

SMART
CITY
RANKING

87

Out of 142



80 in 2023
Out of 141

SMART
CITY RATING

B

BB in 2023

FACTOR
RATINGS

BB

STRUCTURES

B

TECHNOLOGIES

2

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 620,000
(Eurostat)

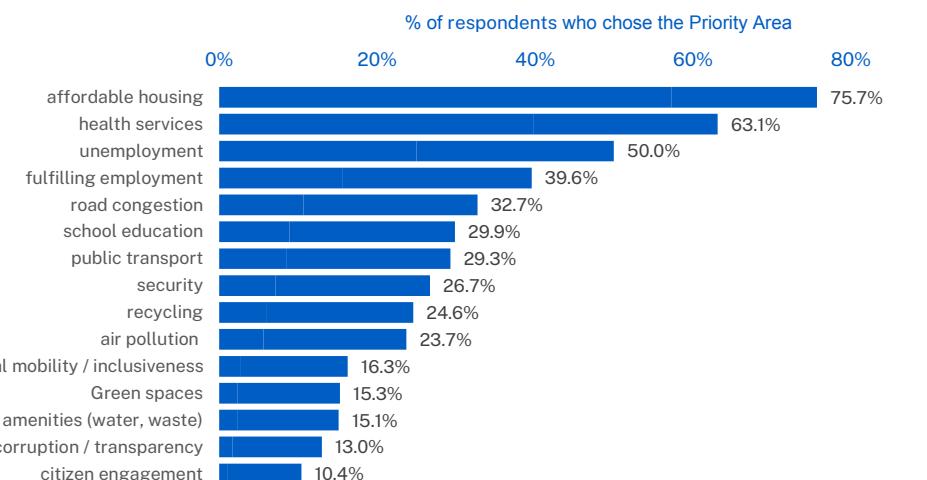
HDI 0.921
(Global Data Lab)



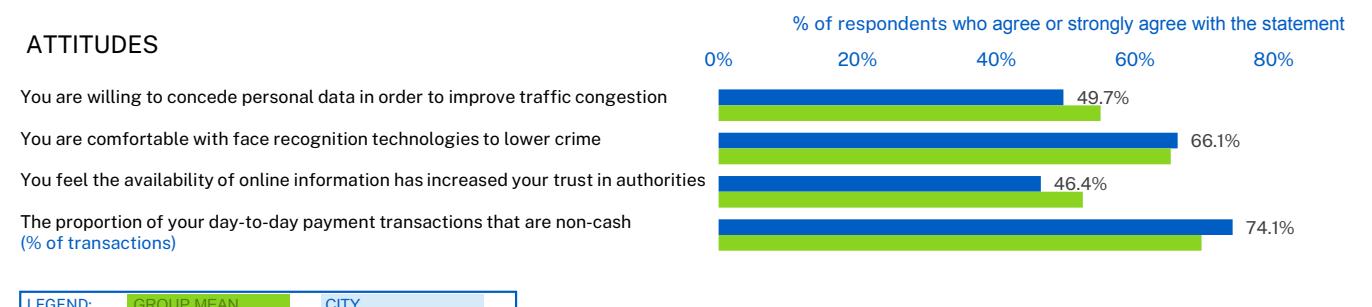
Country

United Kingdom	2019	2020	2021	2022	1 yr change
HDI	0.933	0.920	0.931	0.940	+0.009
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

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

Activities

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

GROUP

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

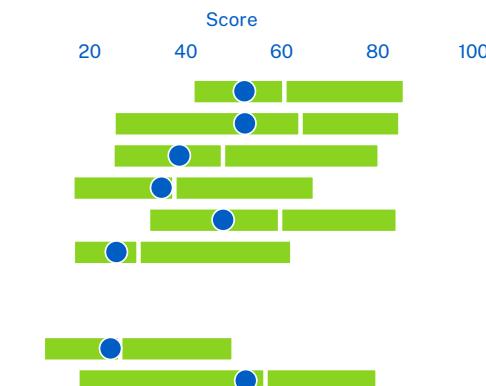
Governance

- 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

LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

Score: 0 20 40 60 80 100



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

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

Gothenburg

SMART
CITY
RANKING
39

Out of 142



36 in 2023
Out of 141

SMART
CITY RATING



A in 2023

FACTOR
RATINGS

BBB

STRUCTURES



TECHNOLOGIES



All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 560,000
(Eurostat)

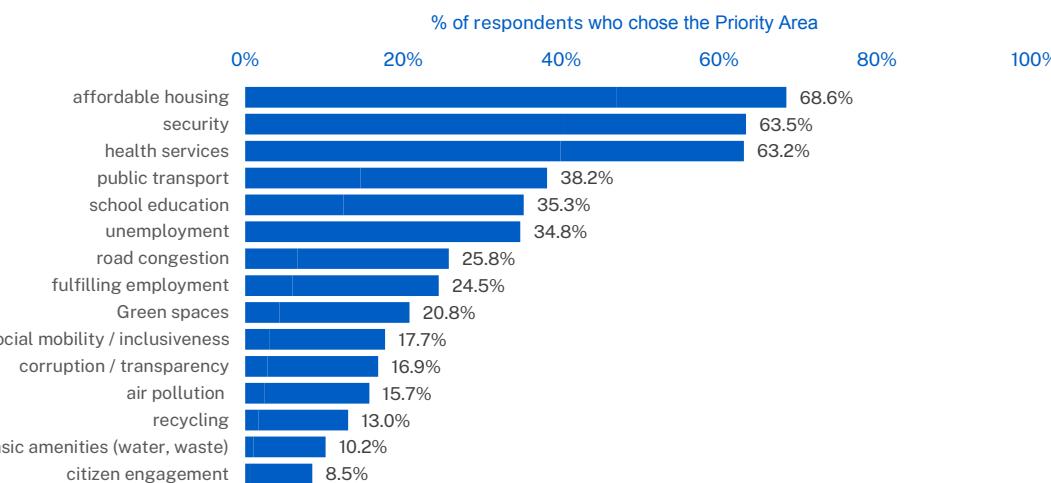
HDI 0.944
(Global Data Lab)



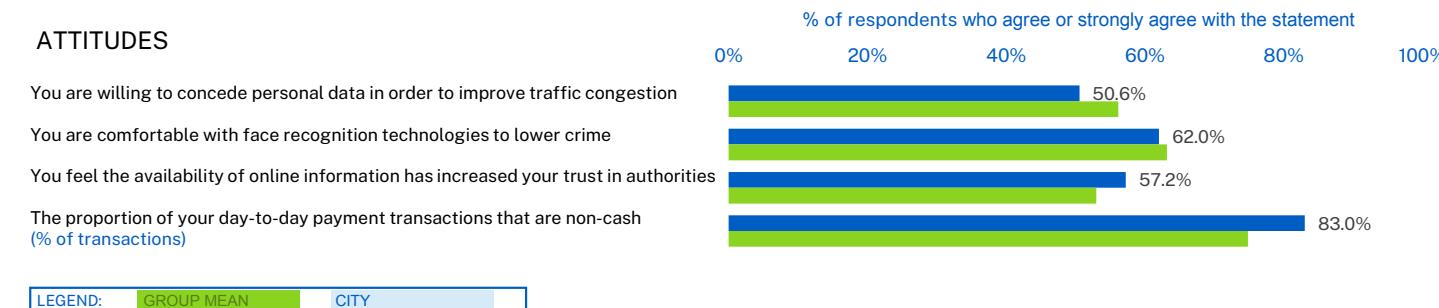
Country

Sweden	2019	2020	2021	2022	1 yr change
HDI	0.947	0.944	0.949	0.952	+0.003
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

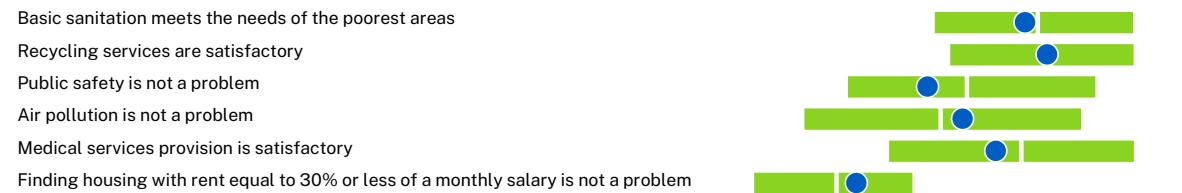


LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



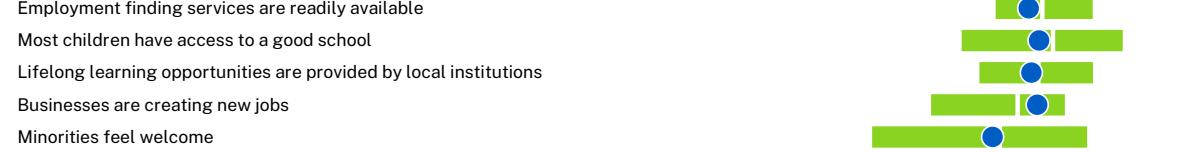
Mobility



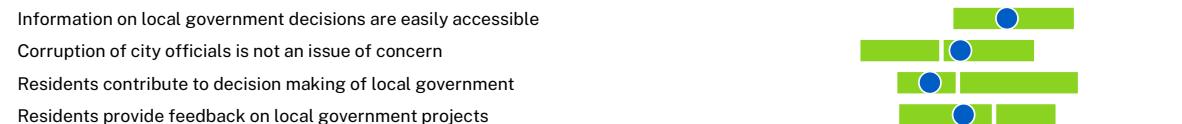
Activities



Opportunities (Work & School)



Governance

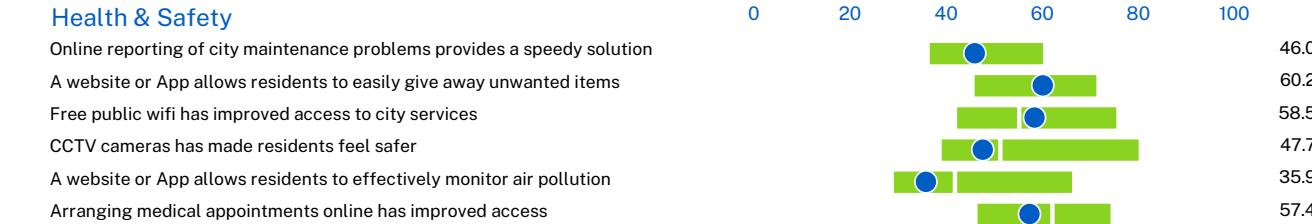


TECHNOLOGIES

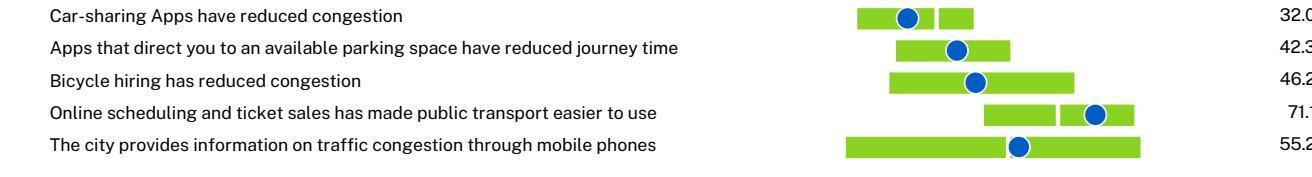
Score

0 20 40 60 80 100

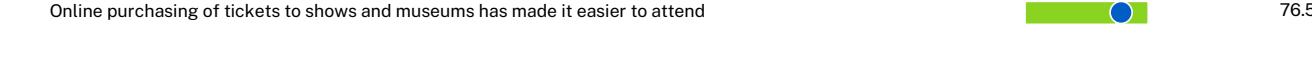
46.0 60.2 58.5 47.7 35.9 57.4



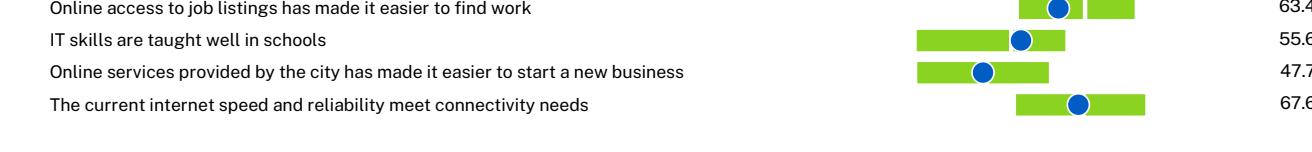
Mobility



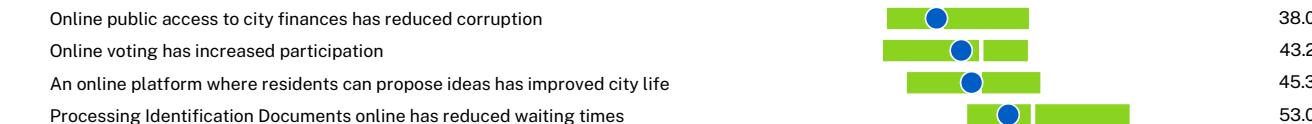
Activities



Opportunities (Work & School)



Governance



Guangzhou

SMART
CITY
RANKING
65
Out of 142



71 in 2023
Out of 141

SMART
CITY RATING

CCC

CCC in 2023

FACTOR
RATINGS

CCC

STRUCTURES

CCC

TECHNOLOGIES

GROUP
4

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 13,300,000
(UN World Urbanization Prospects)

HDI 0.799
(Global Data Lab)



SMART CITY RATING

CCC

CCC in 2023

FACTOR RATINGS

CCC

STRUCTURES

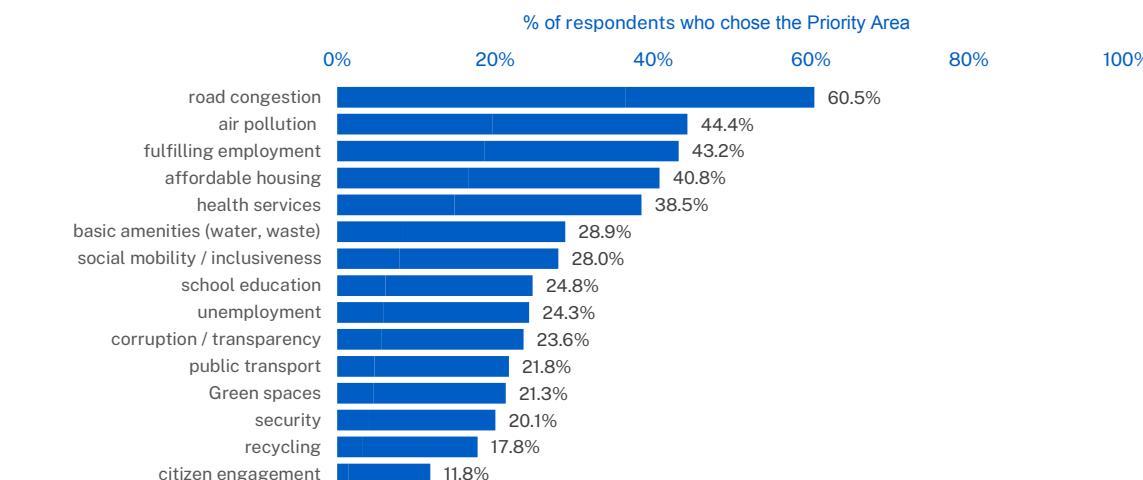
CCC

TECHNOLOGIES

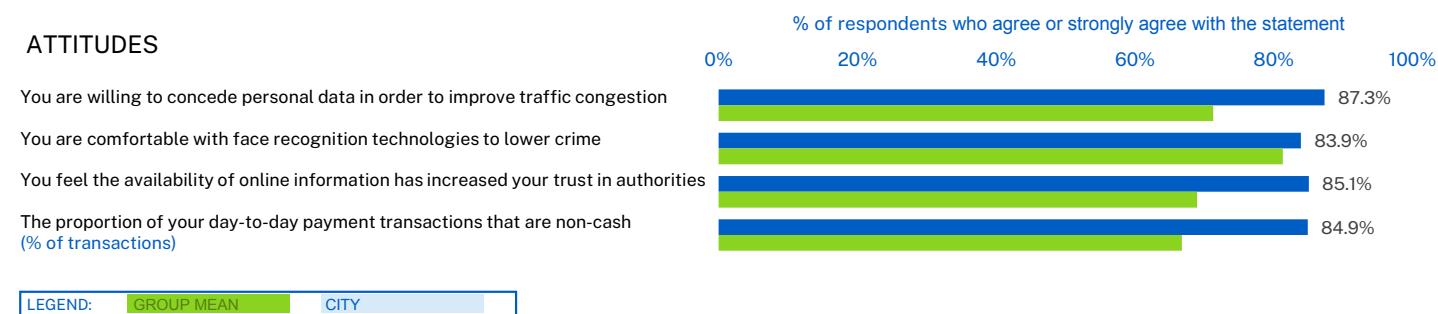
GROUP
4

All ratings range
from AAA to D

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

Score: 0 20 40 60 80 100

Legend: Min City Mean Group Max

85.0
73.9
68.7
59.8
80.5
64.5

Mobility

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

Score: 0 20 40 60 80 100

46.6
64.5

Activities

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

Score: 0 20 40 60 80 100

78.3
81.6

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

80.4
76.8
67.7
77.3
82.4

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

79.1
60.6
69.6
76.6

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: 0 20 40 60 80 100

82.5
77.7
80.8
82.6
78.9
88.7

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

69.4
81.5
78.3
84.6
87.7

Activities

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

Score: 0 20 40 60 80 100

89.5

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

83.9
80.9
80.9
87.9

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

75.3
76.0
81.5
86.6

Guatemala City

SMART
CITY
RANKING
142

Out of 142



141 in 2023
Out of 141

SMART
CITY RATING



D in 2023

FACTOR
RATINGS



STRUCTURES
TECHNOLOGIES



All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 3,040,000
(UN World Urbanization Prospects)

HDI 0.722
(Global Data Lab)

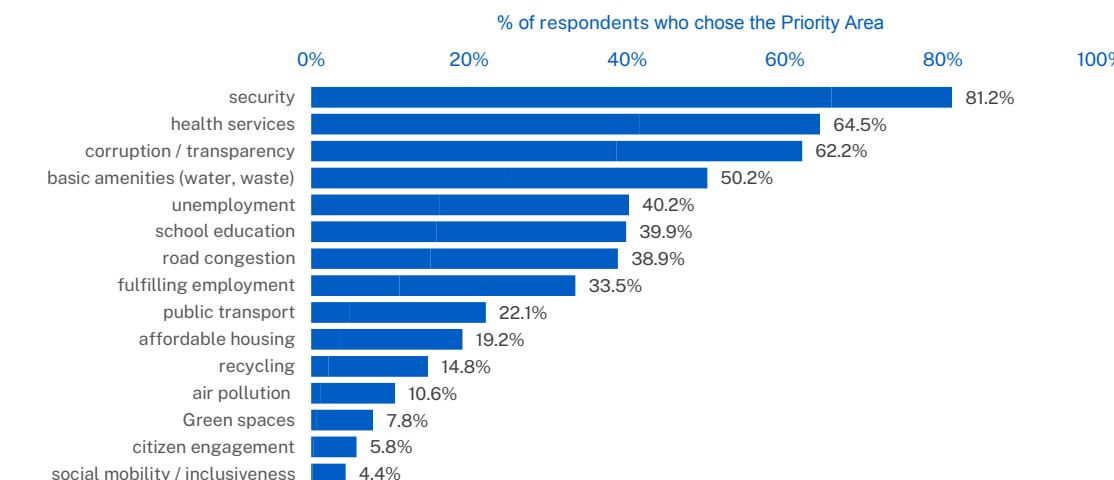


Map tiles by Stamen Design CC BY 3.0 Map Data © OpenStreetMap

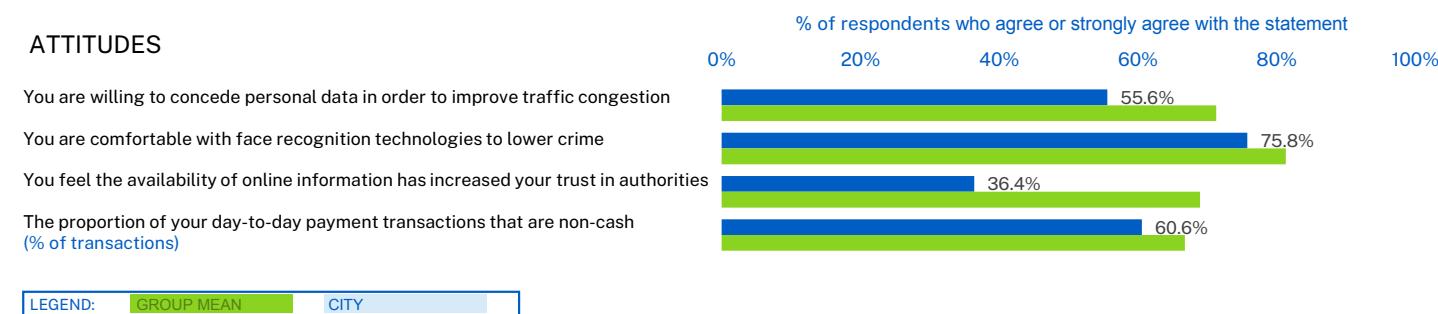
Country

Guatemala	2019	2020	2021	2022	1 yr change
HDI	0.645	0.638	0.630	0.629	-0.001
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



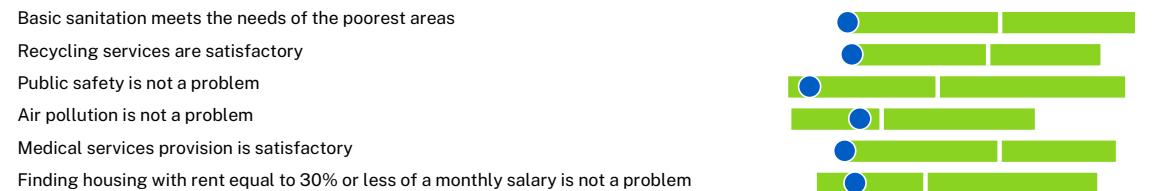
ATTITUDES



LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

Health & Safety



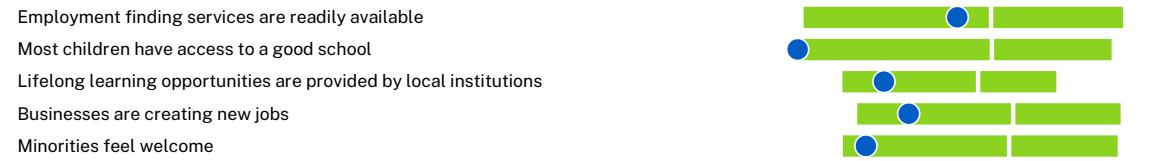
Mobility



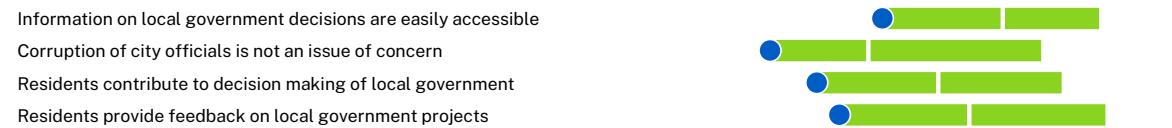
Activities



Opportunities (Work & School)

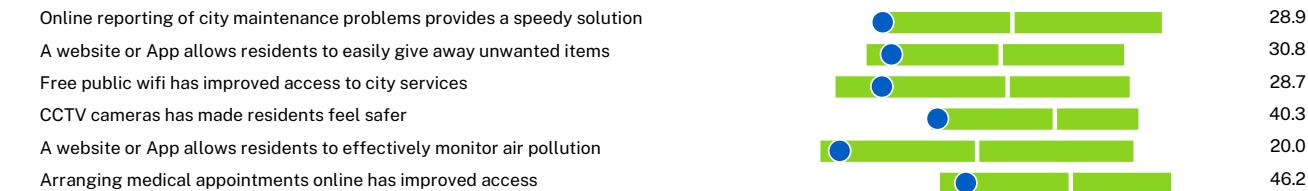


Governance

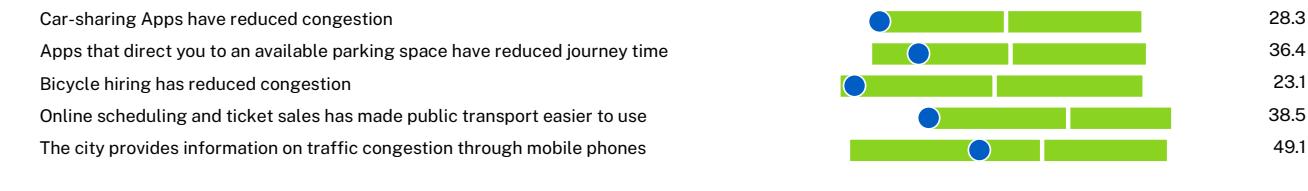


TECHNOLOGIES

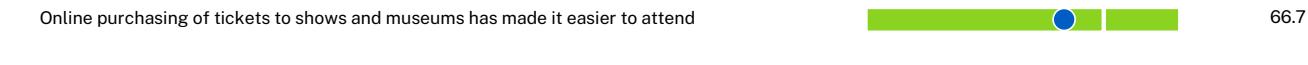
Health & Safety



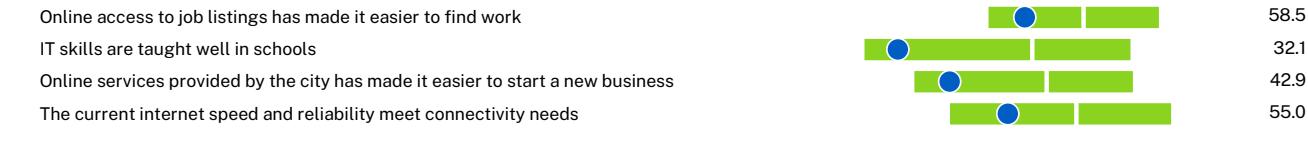
Mobility



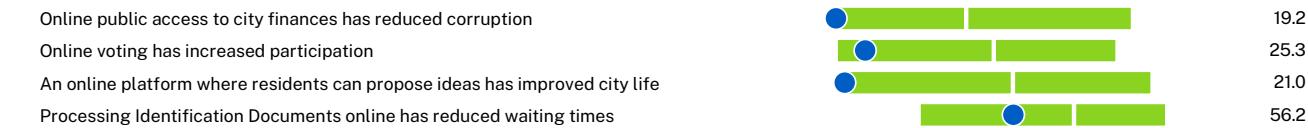
Activities



Opportunities (Work & School)



Governance



Hamburg

SMART
CITY
RANKING
14

Out of 142



11 in 2023
Out of 141

SMART
CITY RATING

BBB

A in 2023

FACTOR
RATINGS

BBB

STRUCTURES

BBB

TECHNOLOGIES

GROUP
1

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

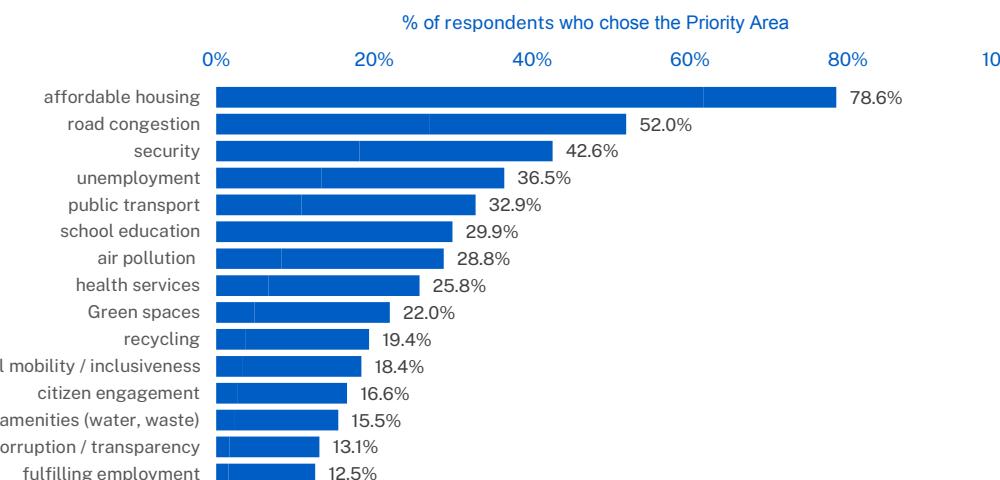
Population 1,850,000
(Eurostat)



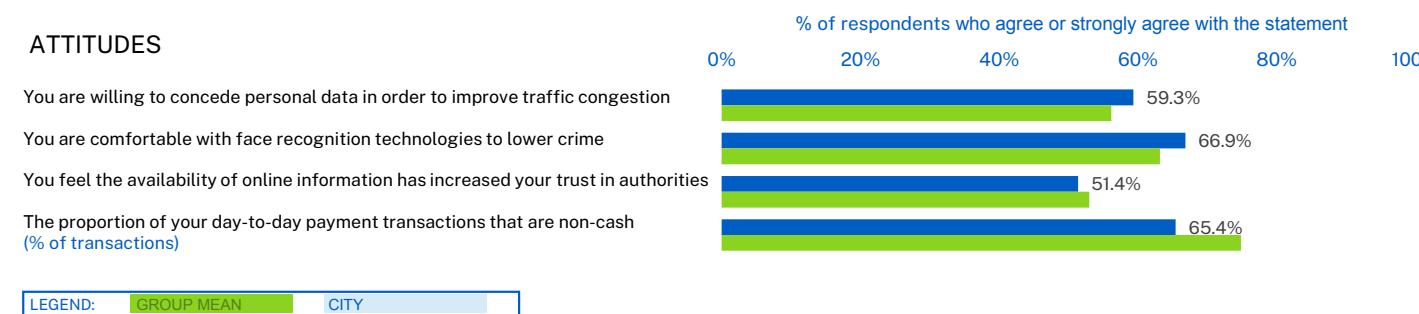
Country

Germany	2019	2020	2021	2022	1 yr change
HDI	0.951	0.948	0.948	0.950	+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

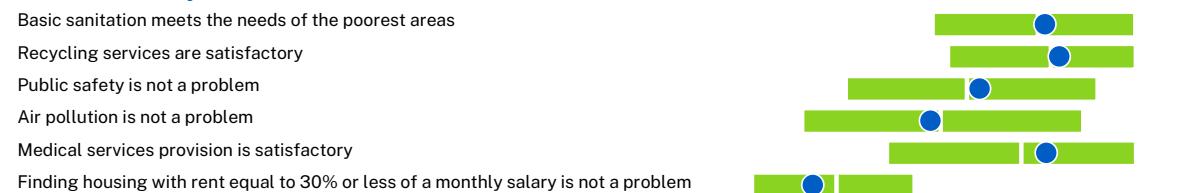


LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



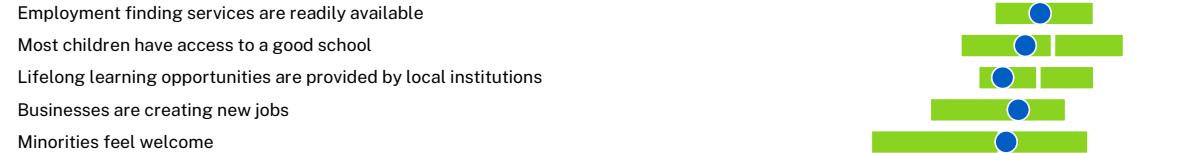
Mobility



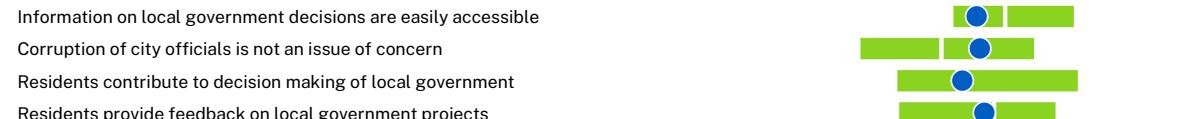
Activities



Opportunities (Work & School)



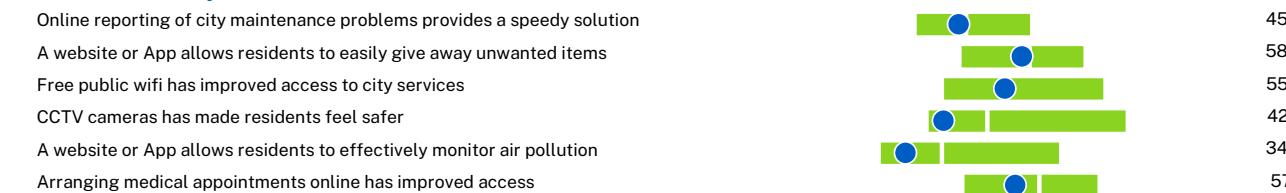
Governance



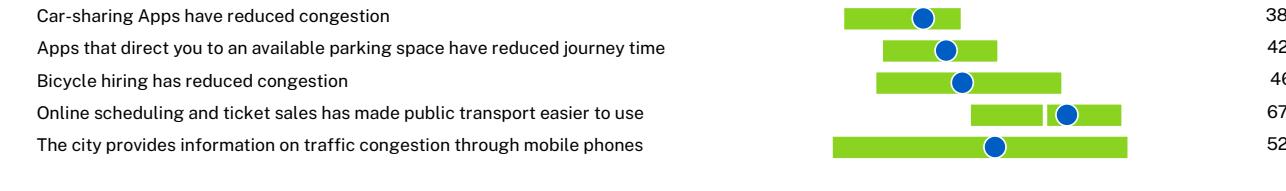
TECHNOLOGIES

Score

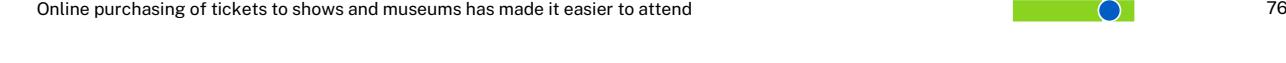
Health & Safety



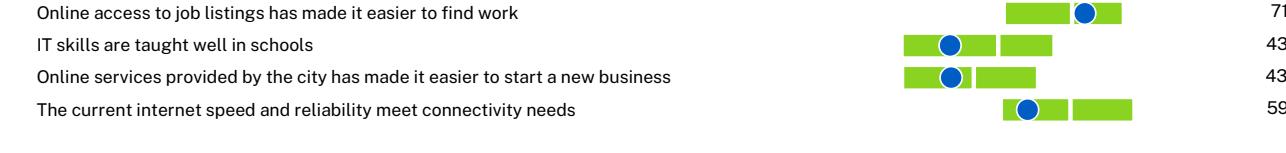
Mobility



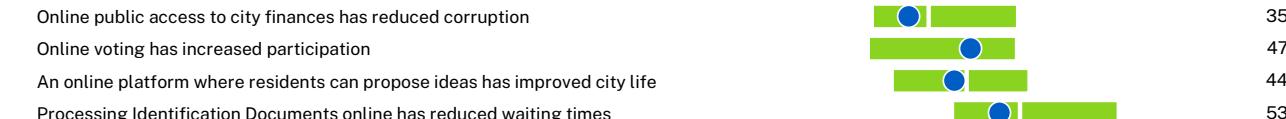
Activities



Opportunities (Work & School)



Governance



Hangzhou

SMART
CITY
RANKING
64

Out of 142



70 in 2023
Out of 141

SMART
CITY RATING

CCC

CCC in 2023

FACTOR
RATINGS

CCC

STRUCTURES

CCC

TECHNOLOGIES

GROUP



All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 7,640,000
(UN World Urbanization Prospects)

HDI 0.801
(Global Data Lab)

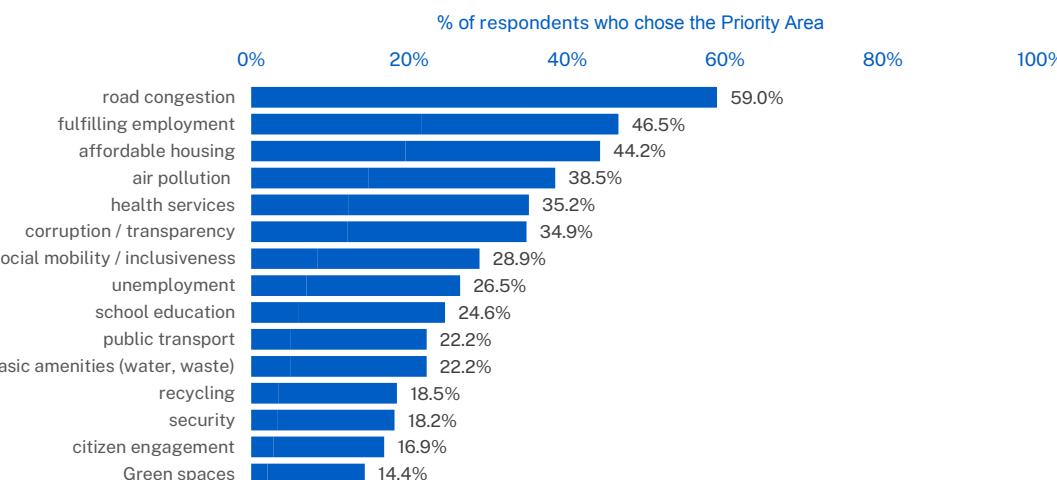


Map tiles by Stamen Design CC BY 3.0 Map Data © OpenStreetMap

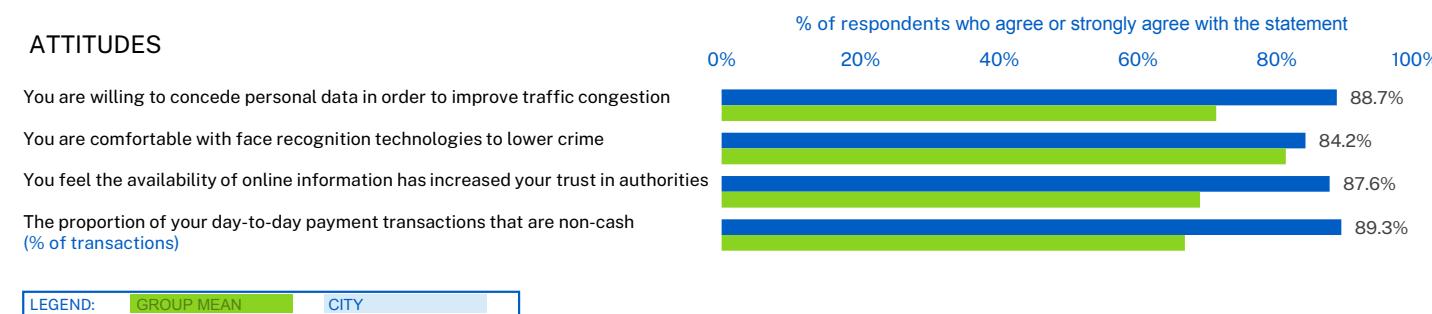
Country

China	2019	2020	2021	2022	1 yr change
HDI	0.775	0.781	0.785	0.788	+0.003
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



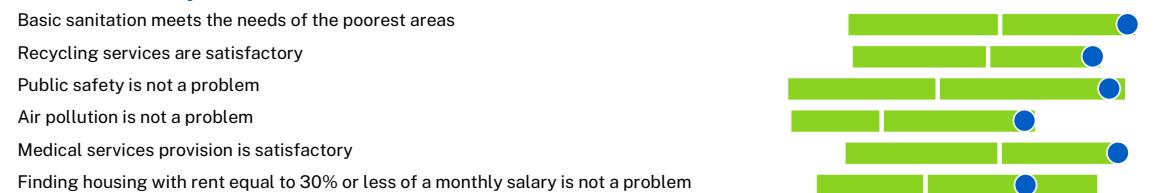
ATTITUDES



LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

Health & Safety



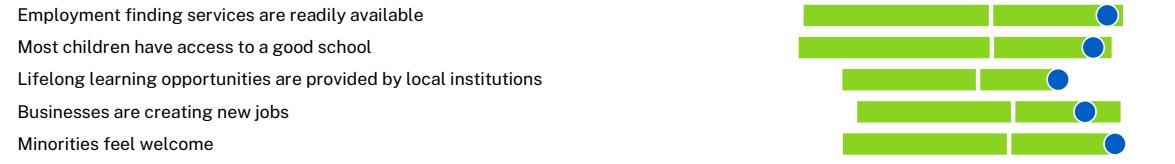
Mobility



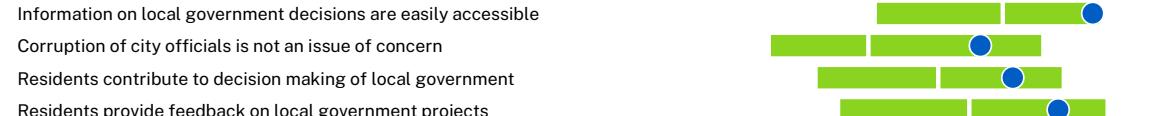
Activities



Opportunities (Work & School)



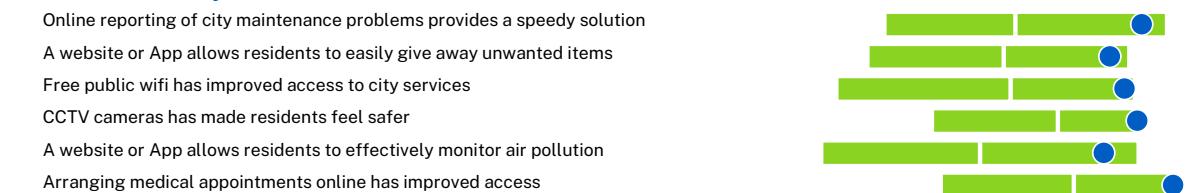
Governance



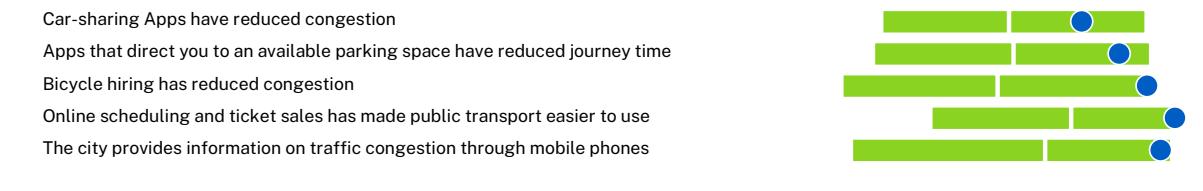
LEGEND: MIN CITY MEAN GROUP MAX

TECHNOLOGIES

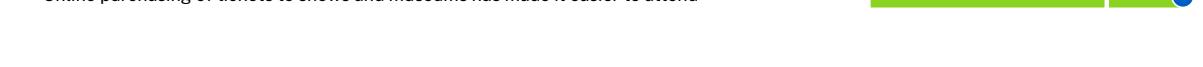
Health & Safety



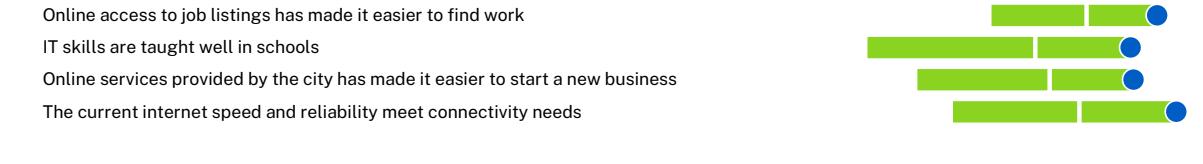
Mobility



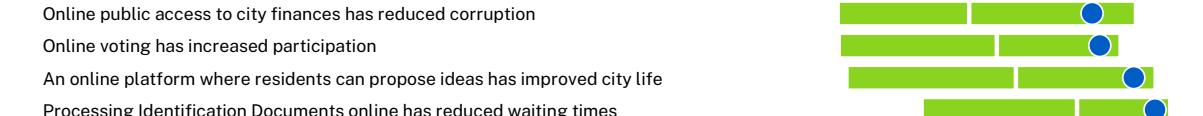
Activities



Opportunities (Work & School)



Governance



Hanoi

SMART
CITY
RANKING
97

Out of 142



100 in 2023
Out of 141

SMART
CITY RATING

CCC

CCC in 2023

FACTOR
RATINGS

CCC

STRUCTURES

CCC

TECHNOLOGIES

GROUP



All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 4,680,000
(UN World Urbanization Prospects)

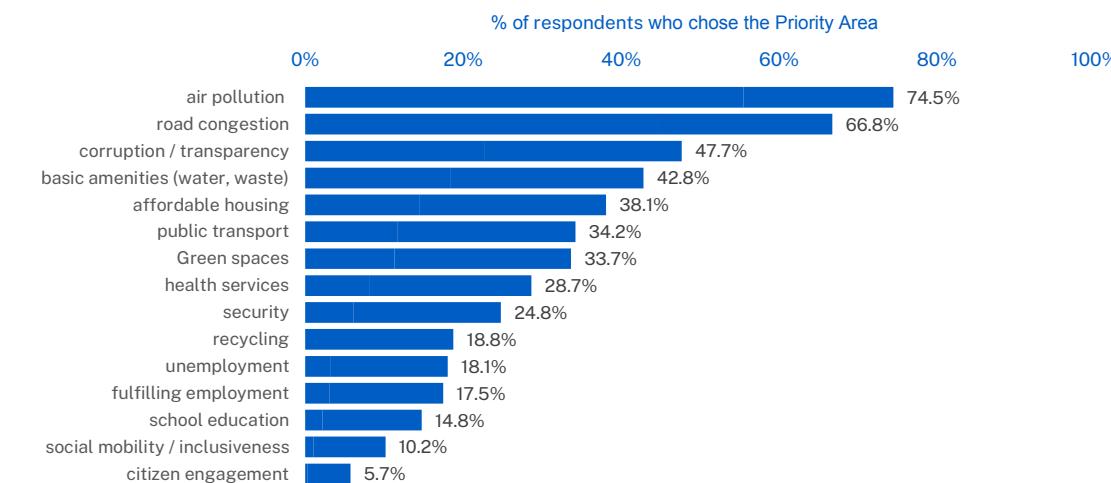
HDI 0.744
(Global Data Lab)



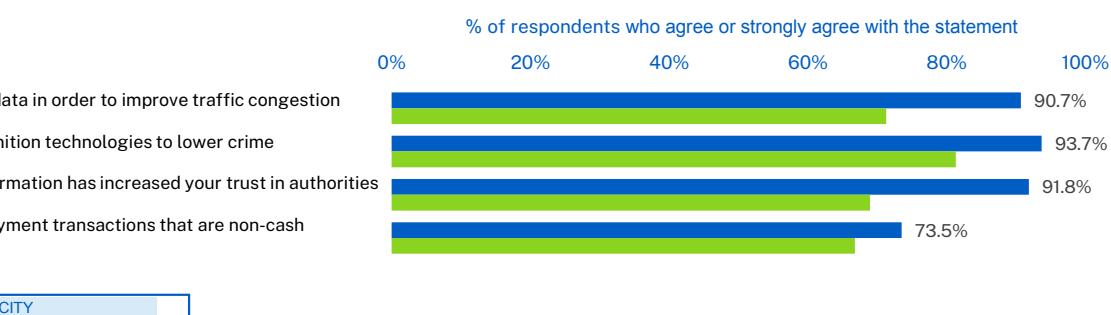
Country

Vietnam	2019	2020	2021	2022	1 yr change
HDI	0.717	0.726	0.718	0.726	+0.008
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



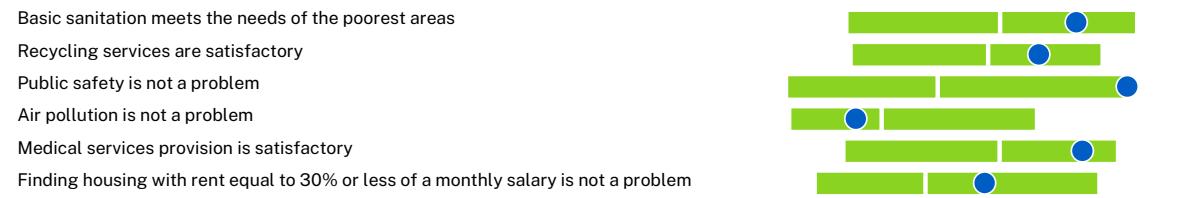
ATTITUDES



LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

Health & Safety



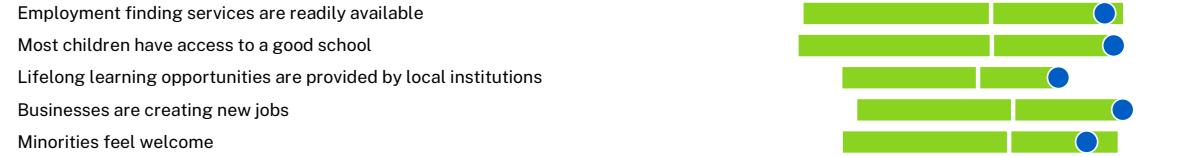
Mobility



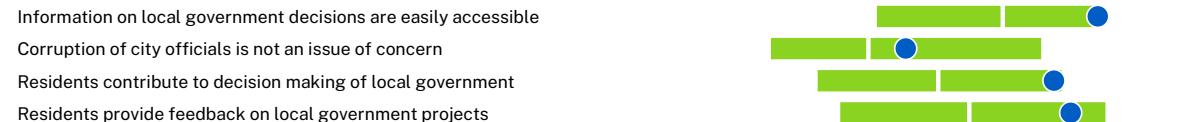
Activities



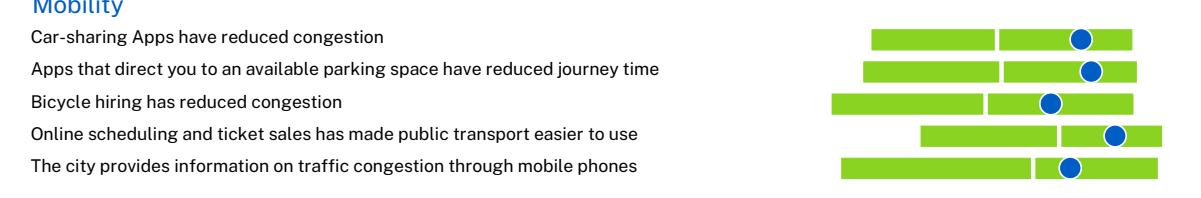
Opportunities (Work & School)



Governance



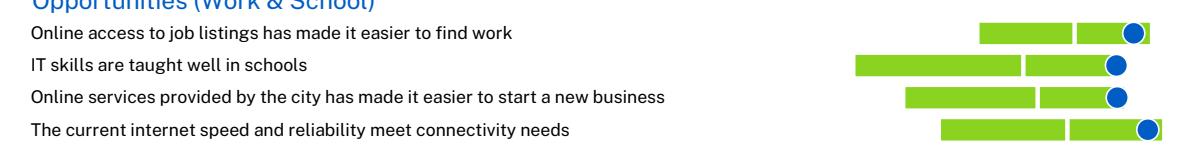
Mobility



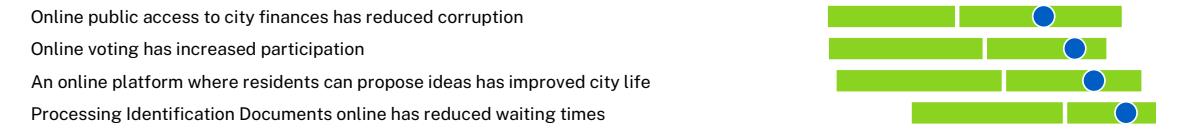
Activities



Opportunities (Work & School)



Governance



Hanover

SMART
CITY
RANKING
53

Out of 142



57 in 2023
Out of 141

SMART
CITY RATING

BB

BB in 2023

FACTOR
RATINGS

BBB

STRUCTURES

B

TECHNOLOGIES

2

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

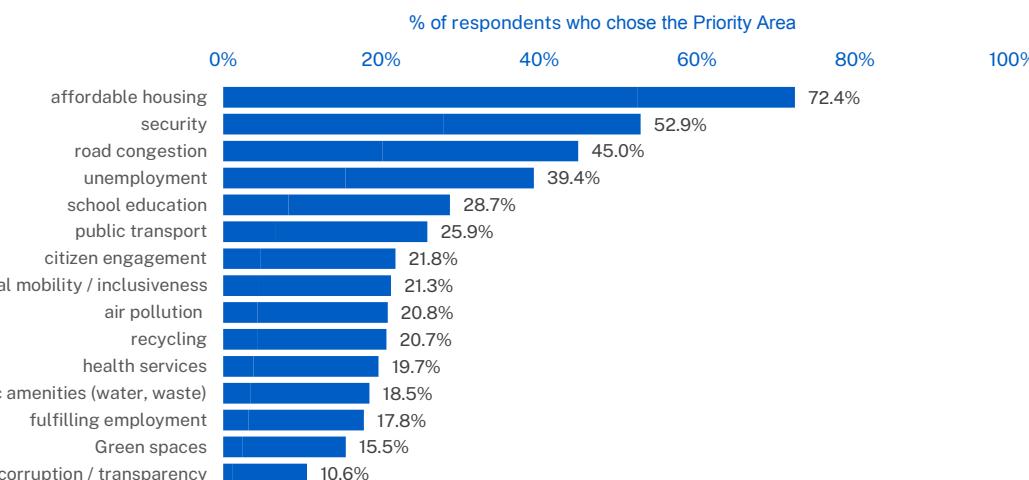
Population 540,000
(Eurostat)



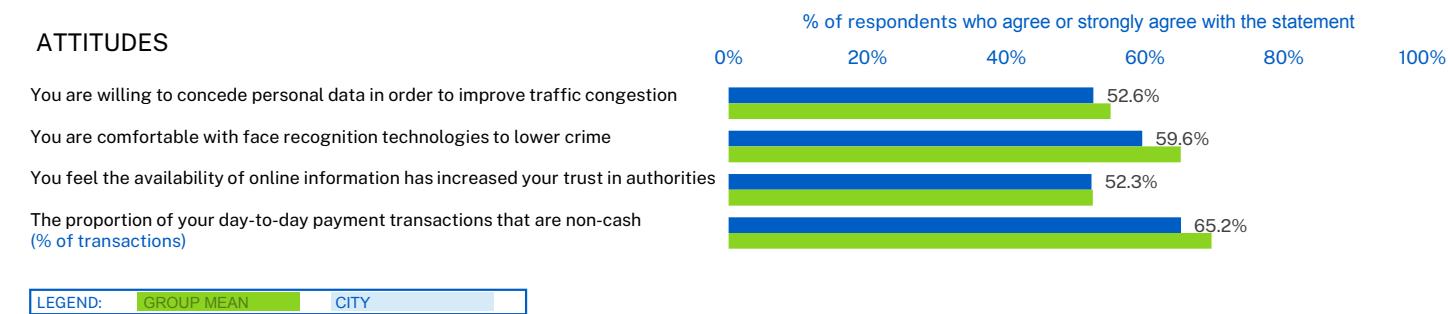
Country

Germany	2019	2020	2021	2022	1 yr change
HDI	0.951	0.948	0.948	0.950	+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



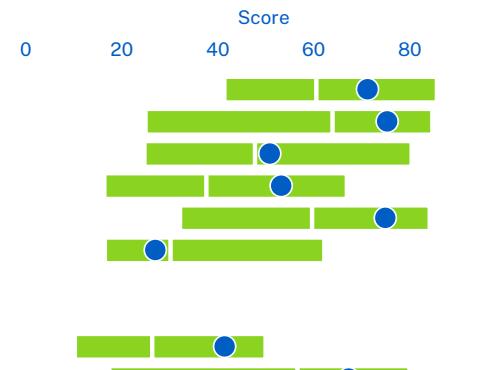
LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety

- 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



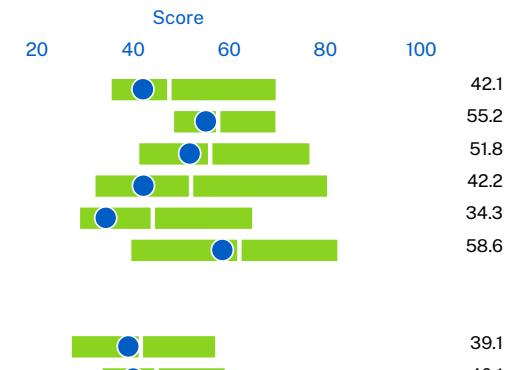
Mobility

- 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

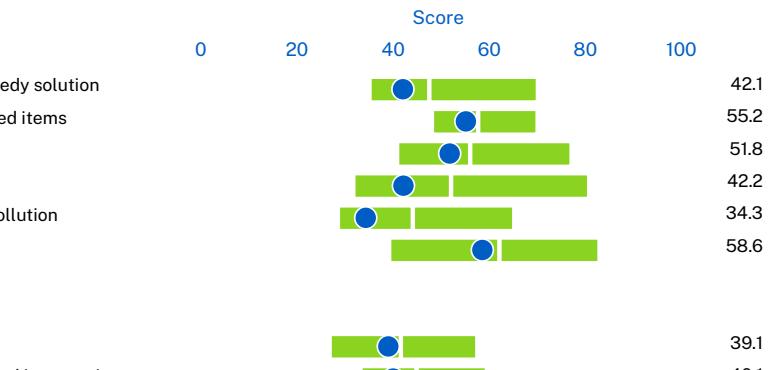
- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory

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

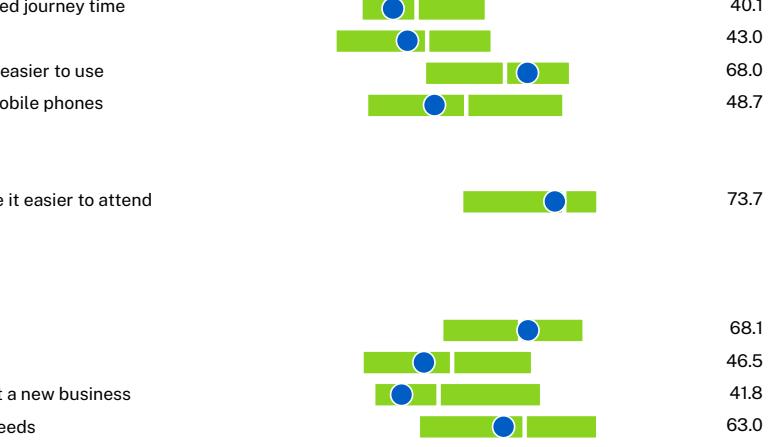


Opportunities (Work & School)

- 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

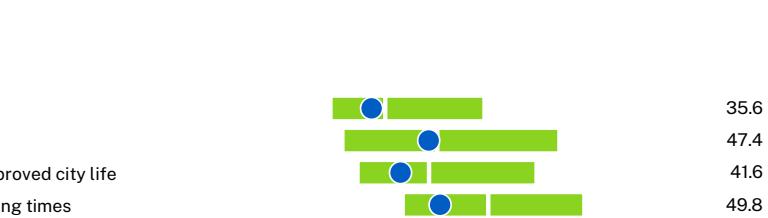


Governance

- 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



Helsinki

SMART
CITY
RANKING
9

Out of 142



8 in 2023
Out of 141

SMART
CITY RATING

AA

AAA in 2023

FACTOR
RATINGS

AA

STRUCTURES

A

TECHNOLOGIES

GROUP

1

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

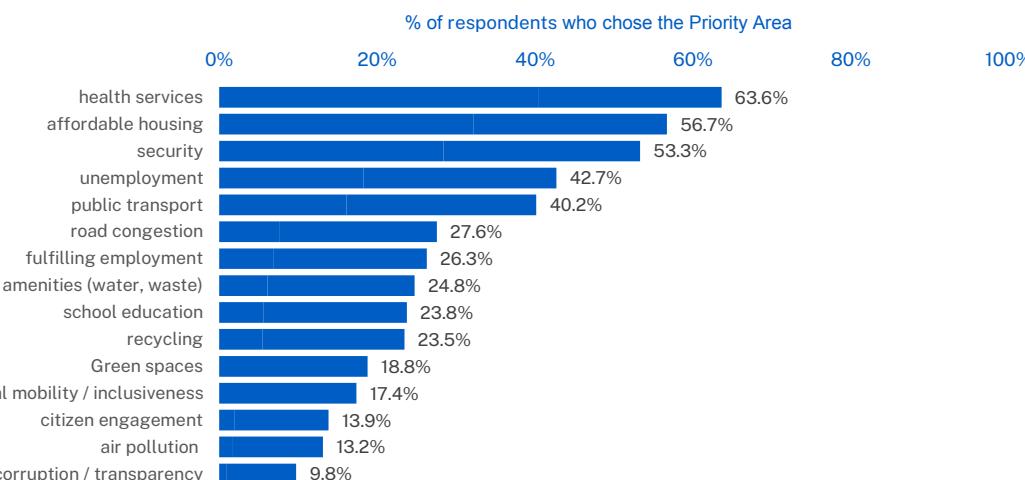
Population 650,000
(Eurostat)



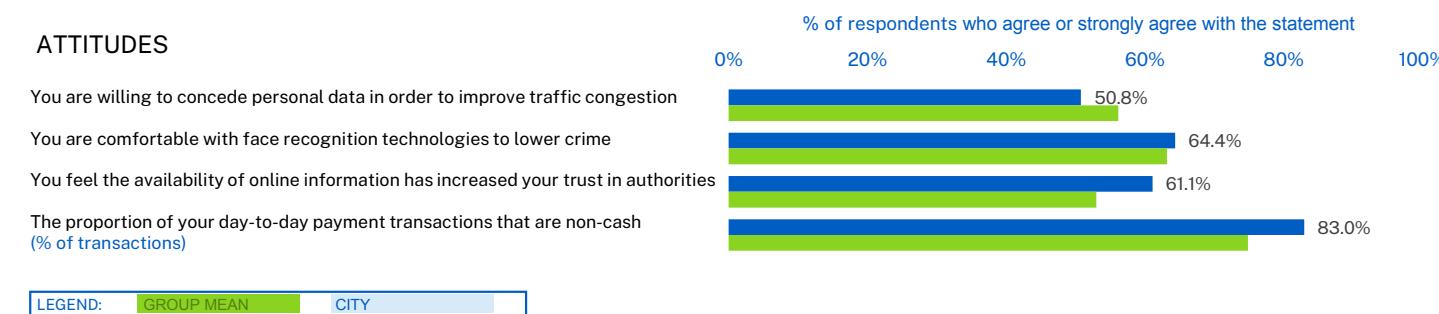
Country

Finland	2019	2020	2021	2022	1 yr change
HDI	0.939	0.939	0.941	0.942	+0.001
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



ATTITUDES

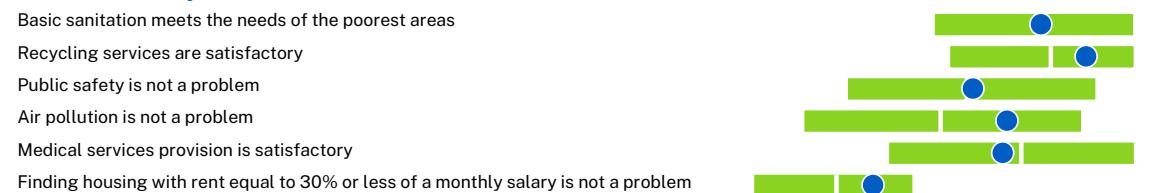


LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



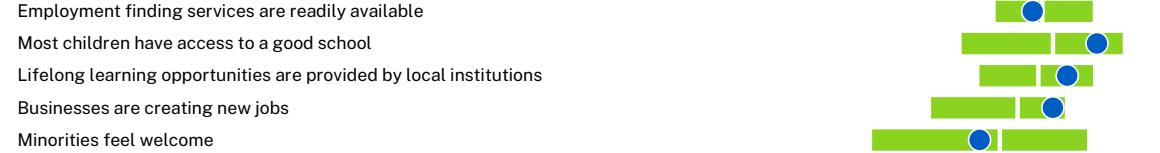
Mobility



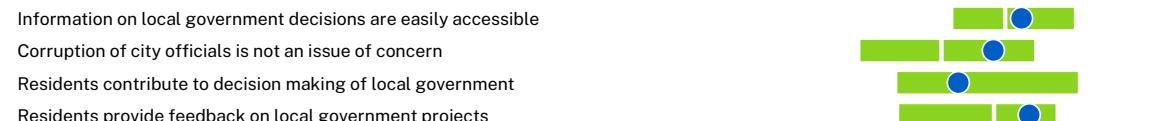
Activities



Opportunities (Work & School)

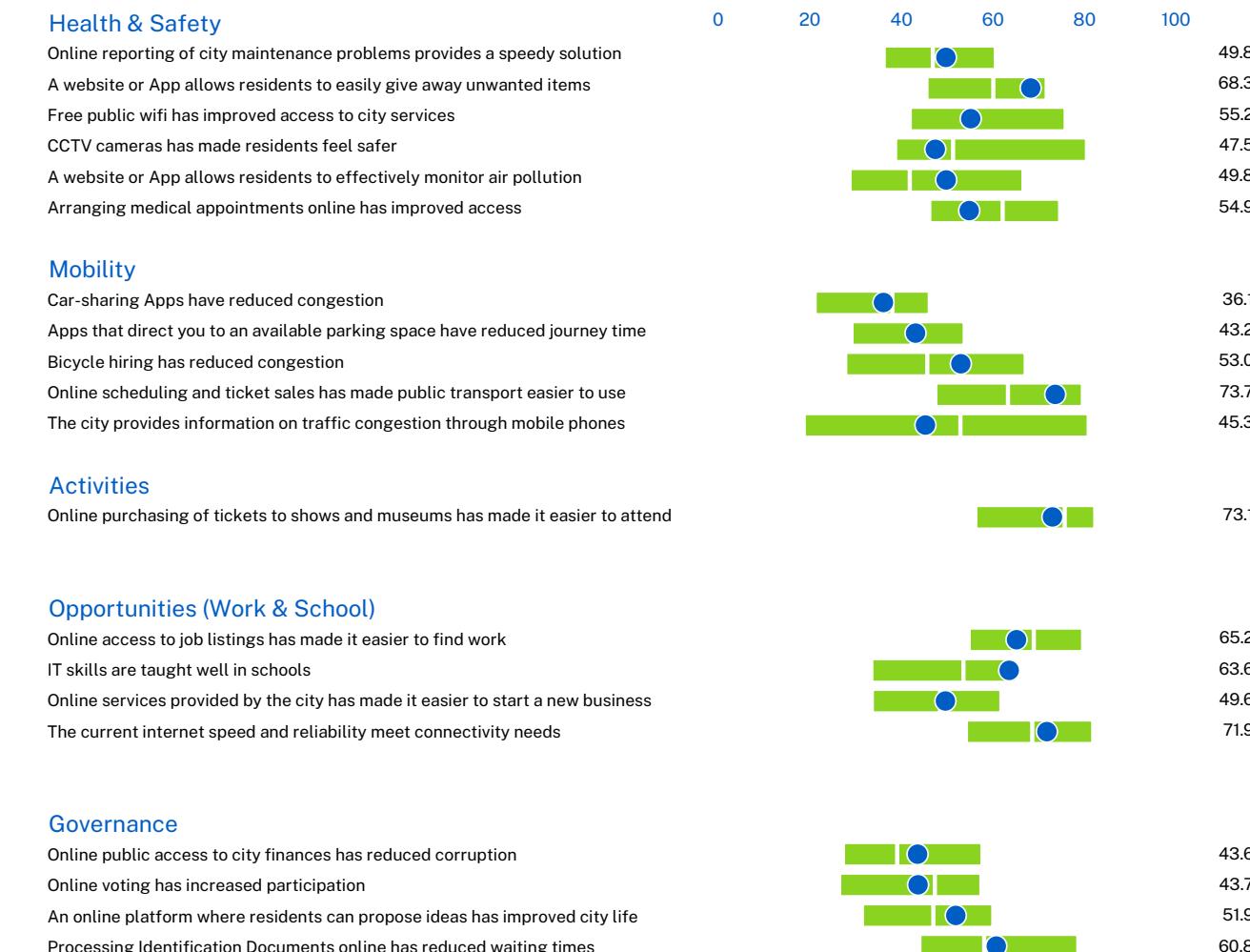


Governance



TECHNOLOGIES

Score



Ho Chi Minh City

SMART
CITY
RANKING
105
Out of 142

103 in 2023
Out of 141

SMART
CITY RATING

CC
CCC in 2023

FACTOR
RATINGS

CC
STRUCTURES

CCC
TECHNOLOGIES

GROUP
4

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

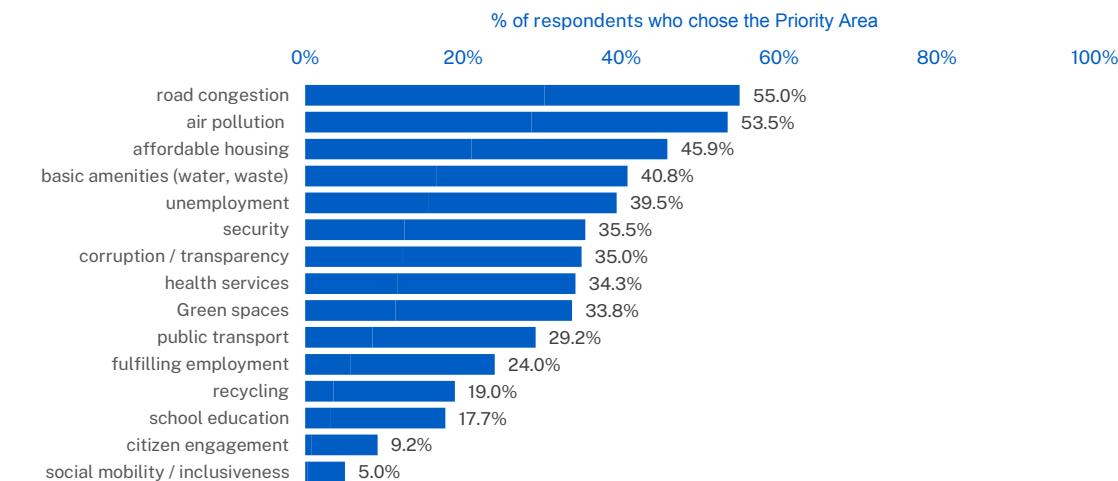
Population 8,600,000
(UN World Urbanization Prospects)
HDI 0.714
(Global Data Lab)



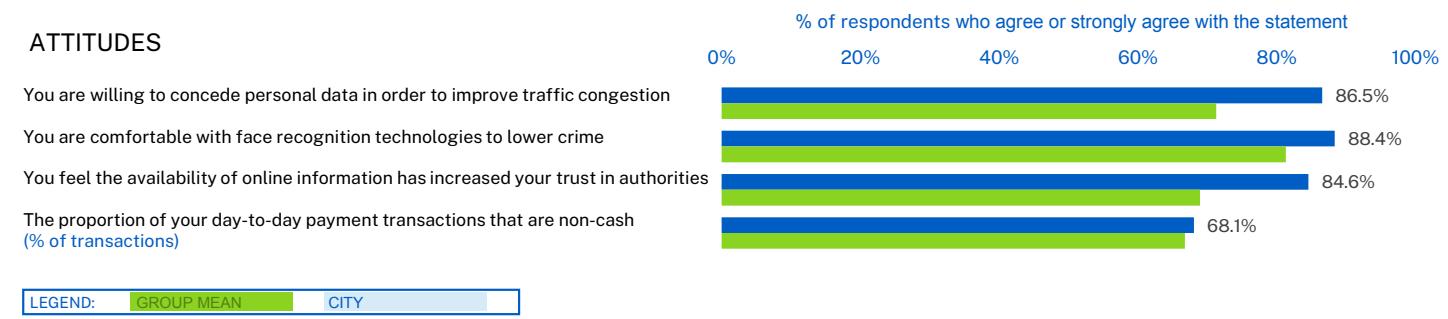
Country

Vietnam	2019	2020	2021	2022	1 yr change
HDI	0.717	0.726	0.718	0.726	+0.008
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



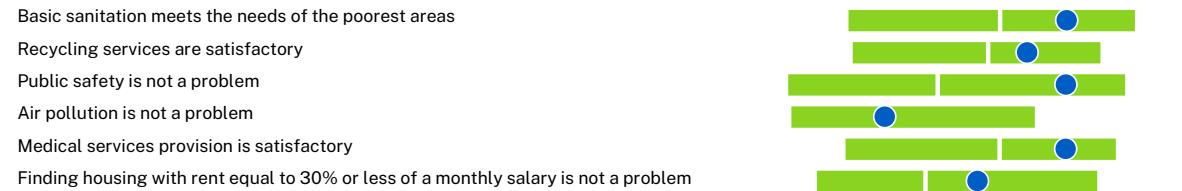
ATTITUDES



STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



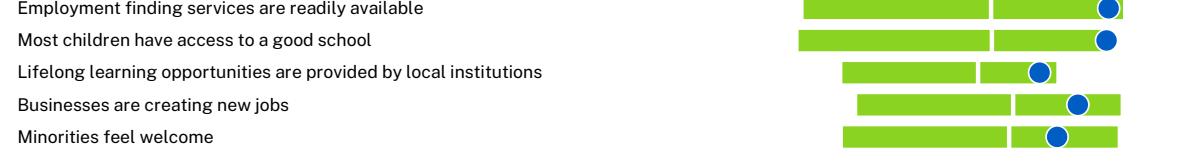
Mobility



Activities



Opportunities (Work & School)



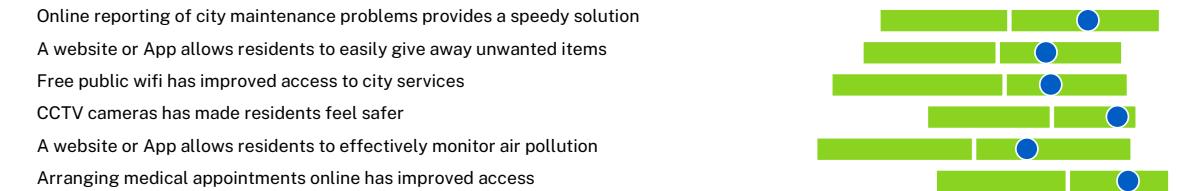
Governance



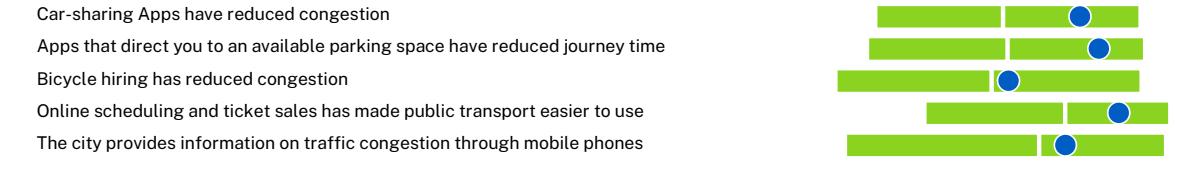
TECHNOLOGIES

LEGEND: MIN CITY MEAN GROUP MAX

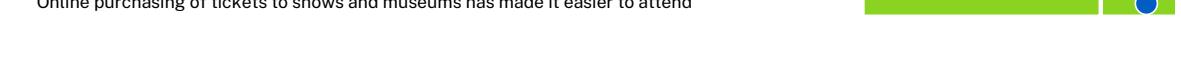
Health & Safety



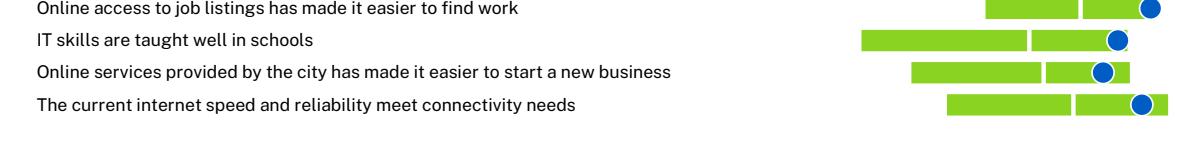
Mobility



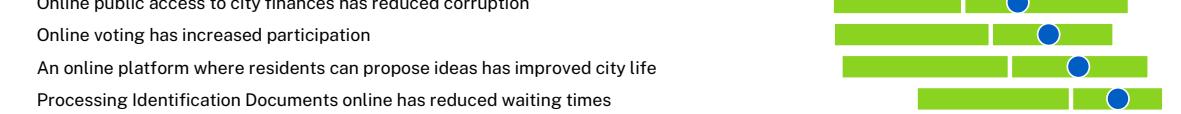
Activities



Opportunities (Work & School)



Governance



Hong Kong

SMART CITY RANKING
20
Out of 142

19 in 2023
Out of 141

SMART CITY RATING

A

AA in 2023

FACTOR RATINGS

BBB

STRUCTURES

AAA

TECHNOLOGIES

GROUP

1

All ratings range from AAA to D

BACKGROUND INFORMATION

City

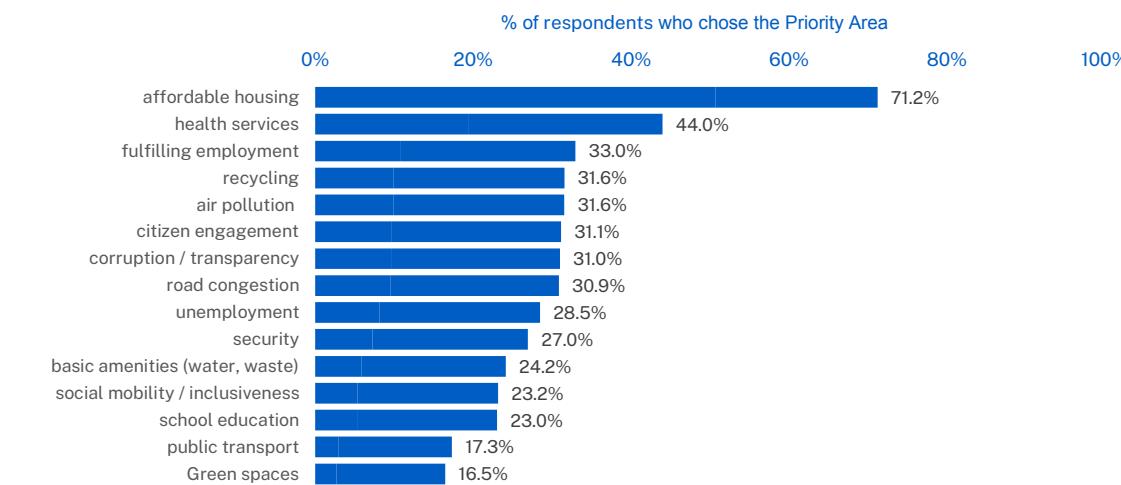
Population 7,550,000
(UN World Urbanization Prospects)
HDI 0.949
(Global Data Lab)



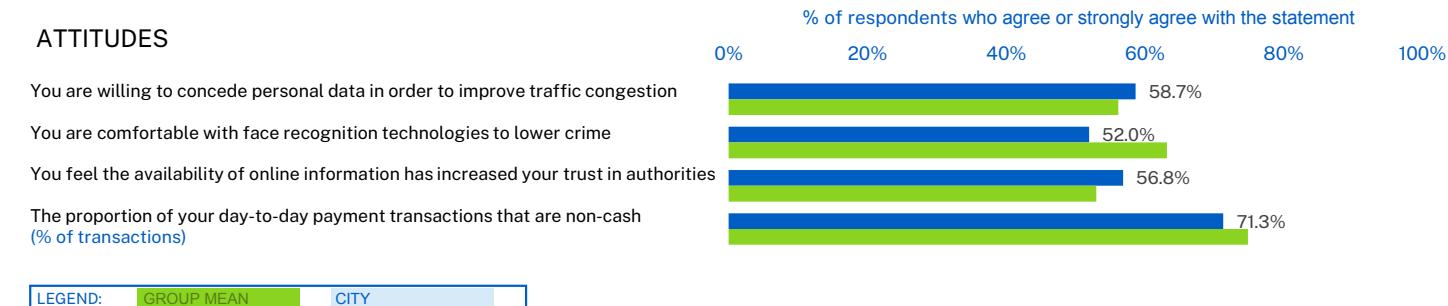
Country

	2019	2020	2021	2022	1 yr change
HDI	0.953	0.955	0.959	0.956	-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

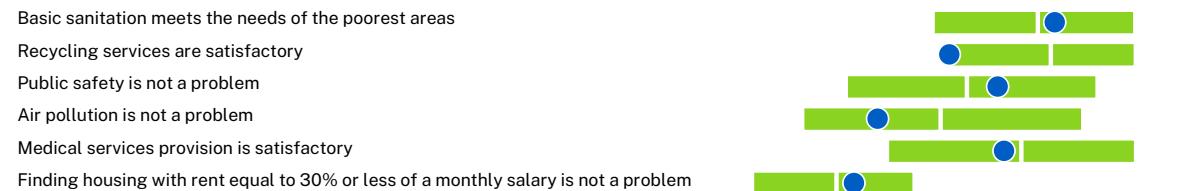


LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



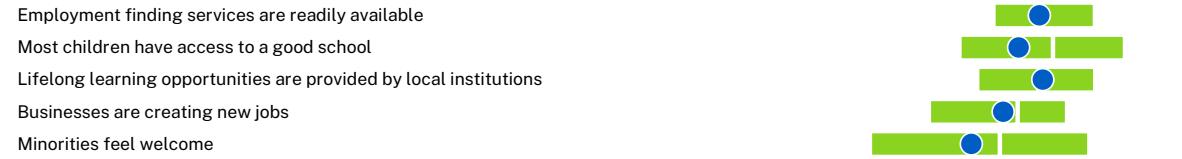
Mobility



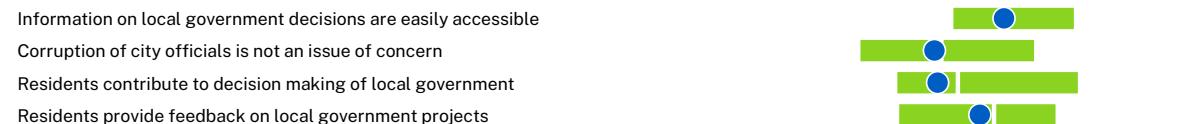
Activities



Opportunities (Work & School)



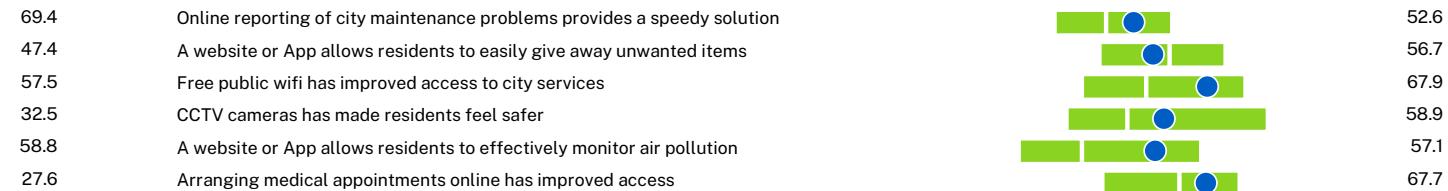
Governance



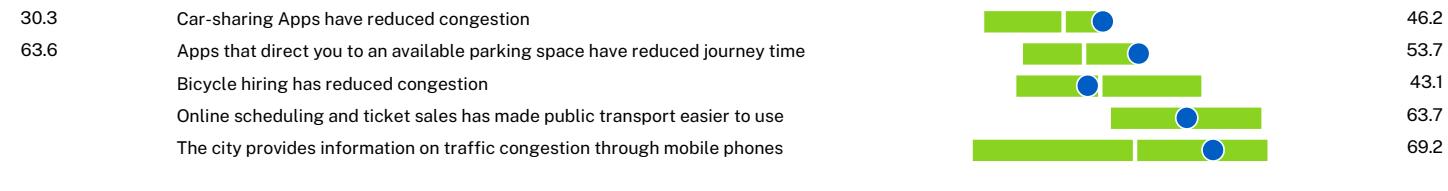
TECHNOLOGIES

Score

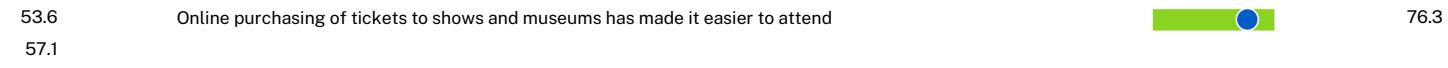
Health & Safety



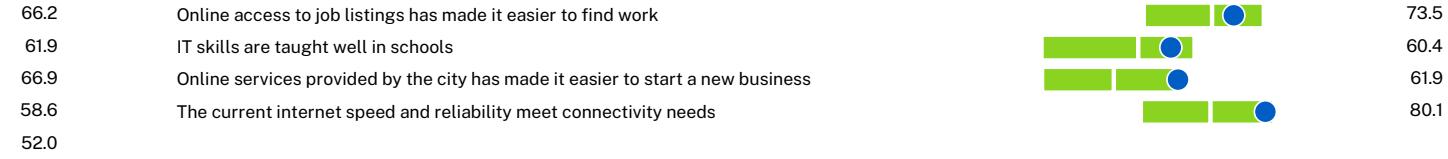
Mobility



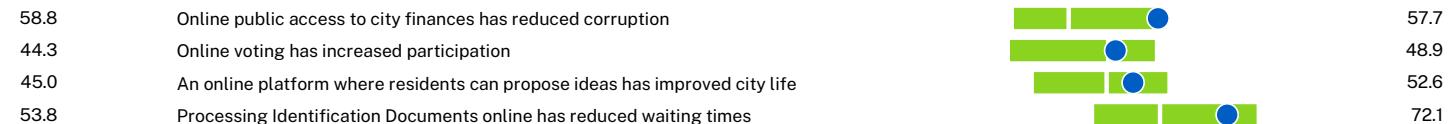
Activities



Opportunities (Work & School)



Governance



Hyderabad

SMART
CITY
RANKING
111

Out of 142



116 in 2023
Out of 141

SMART
CITY RATING

CC

CC in 2023

FACTOR
RATINGS

CC

STRUCTURES

CC

TECHNOLOGIES

GROUP

4

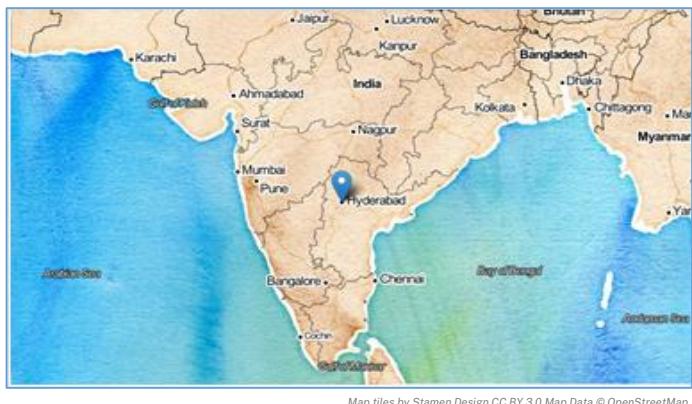
All ratings range
from AAA to D

BACKGROUND INFORMATION

City

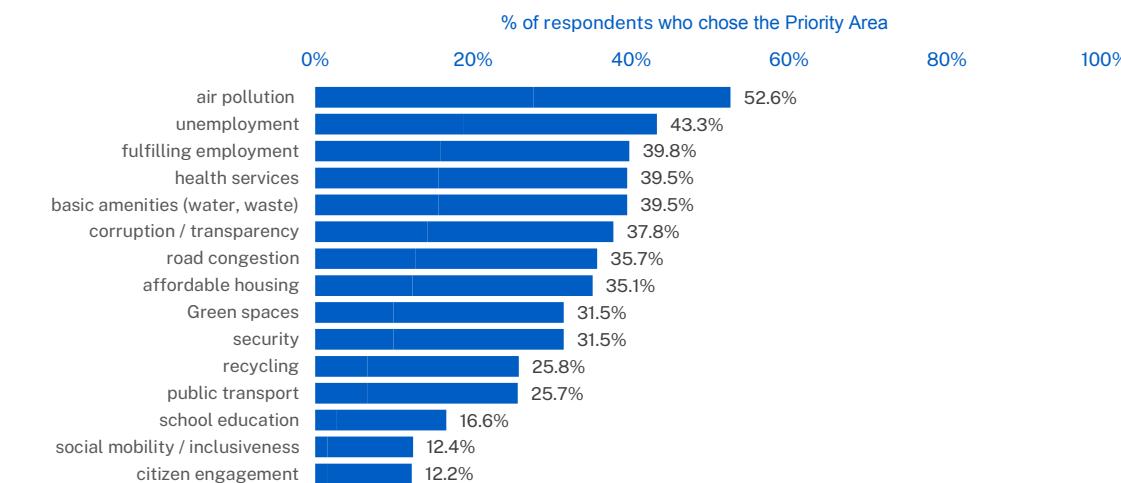
Population 10,000,000
(UN World Urbanization Prospects)

HDI 0.647
(Global Data Lab)

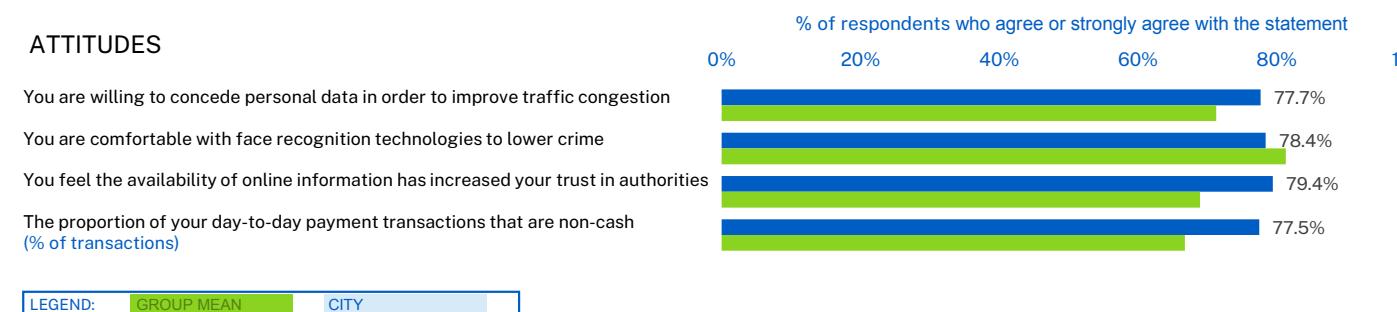


Country	2019	2020	2021	2022	1 yr change
India	0.638	0.638	0.633	0.644	+0.011
HDI	70.9	70.2	67.2	67.7	+0.5
Life expectancy at birth	11.4	11.7	12.0	12.6	+0.6
Expected years of schooling	6.3	6.5	6.5	6.6	+0.0
Mean years of schooling	6,554	6,090	6,542	6,951	+408

PRIORITY AREAS



ATTITUDES



LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

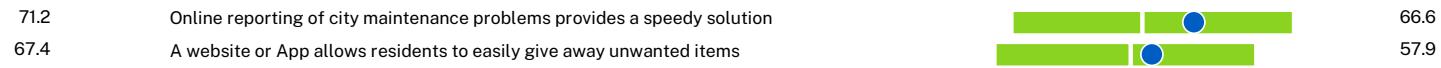
Health & Safety

- 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



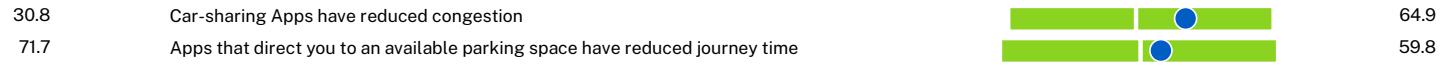
Mobility

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



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



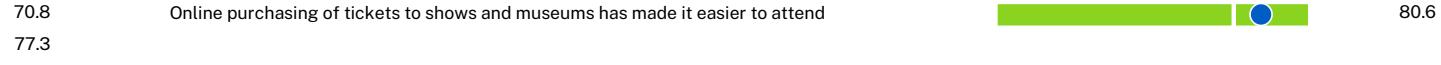
Activities

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



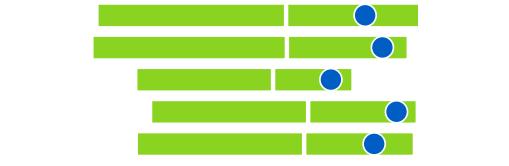
Activities

- 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



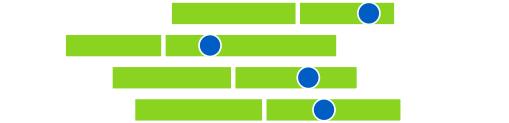
Opportunities (Work & School)

- 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



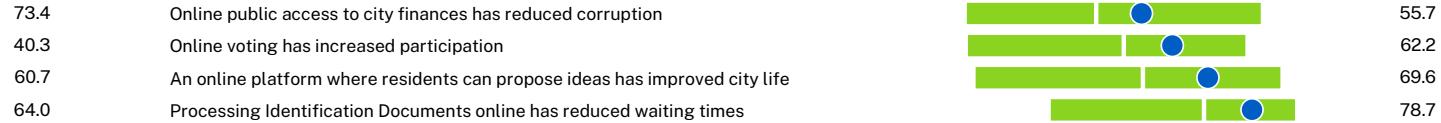
Governance

- 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



Islamabad

SMART
CITY
RANKING
116
Out of 142



120 in 2023
Out of 141

SMART
CITY RATING

CC

CC in 2023

FACTOR
RATINGS

CC

STRUCTURES

CC

TECHNOLOGIES

GROUP

4

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 1,010,000
(UN Data)

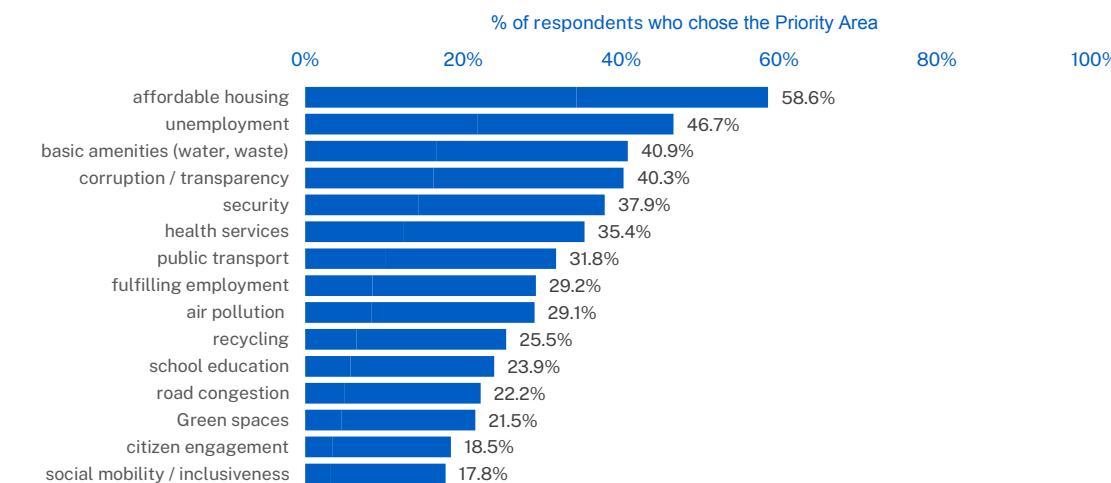


HDI 0.659
(Global Data Lab)

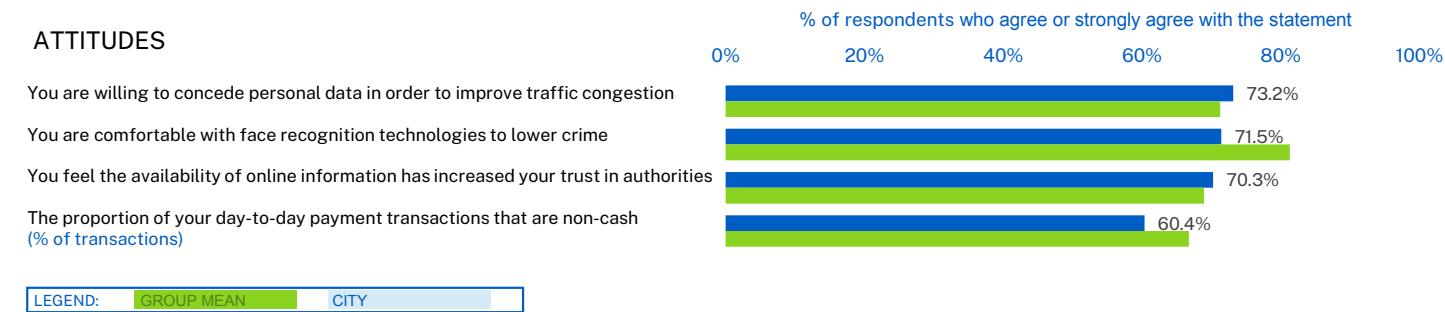
Country

Pakistan	2019	2020	2021	2022	1 yr change
HDI	0.537	0.536	0.537	0.540	+0.003
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



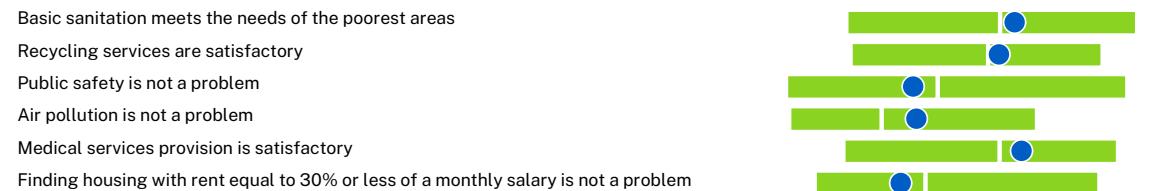
ATTITUDES



LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

Health & Safety



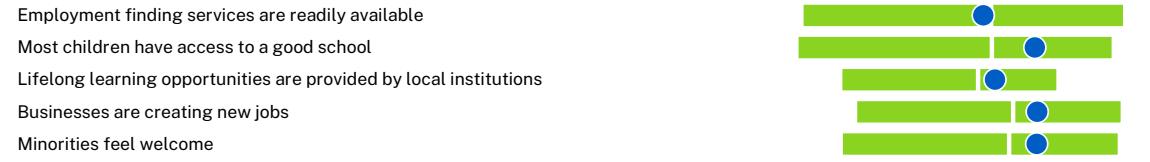
Mobility



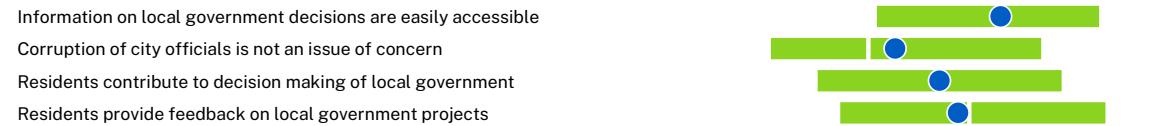
Activities



Opportunities (Work & School)

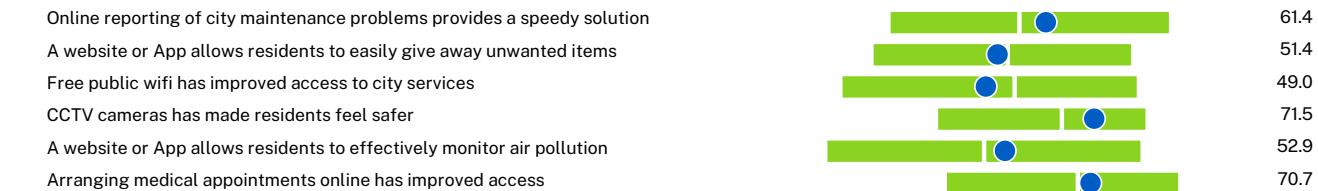


Governance

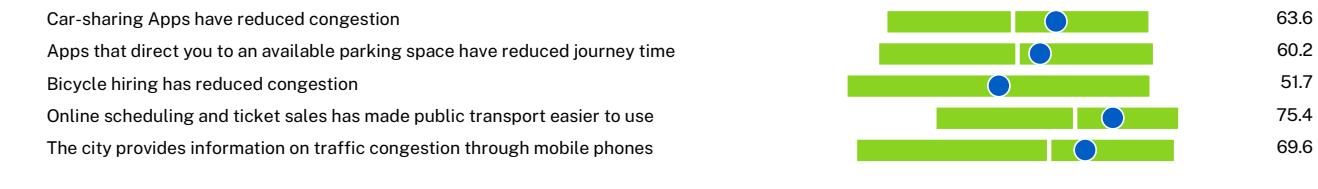


TECHNOLOGIES

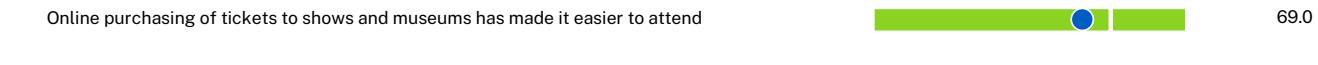
Health & Safety



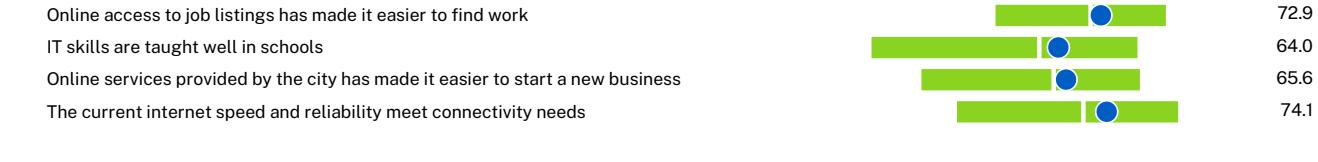
Mobility



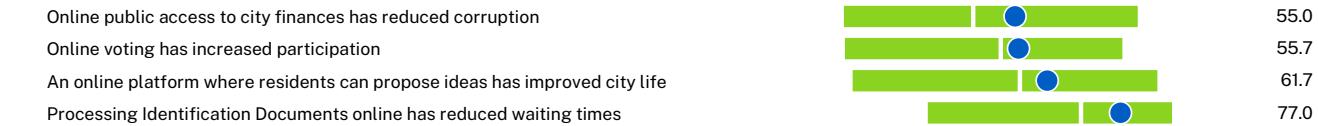
Activities



Opportunities (Work & School)



Governance



Istanbul

SMART
CITY
RANKING
110
Out of 142

107 in 2023
Out of 141

SMART
CITY RATING

CC
CC in 2023

FACTOR
RATINGS
C
STRUCTURES

CC
TECHNOLOGIES

GROUP
3

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 15,190,000
(UN World Urbanization Prospects)

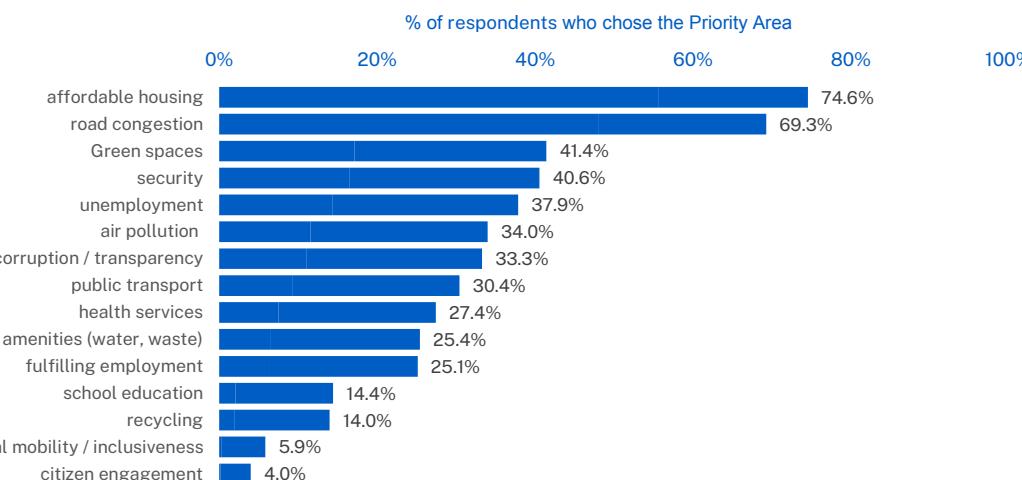
HDI 0.867
(Global Data Lab)



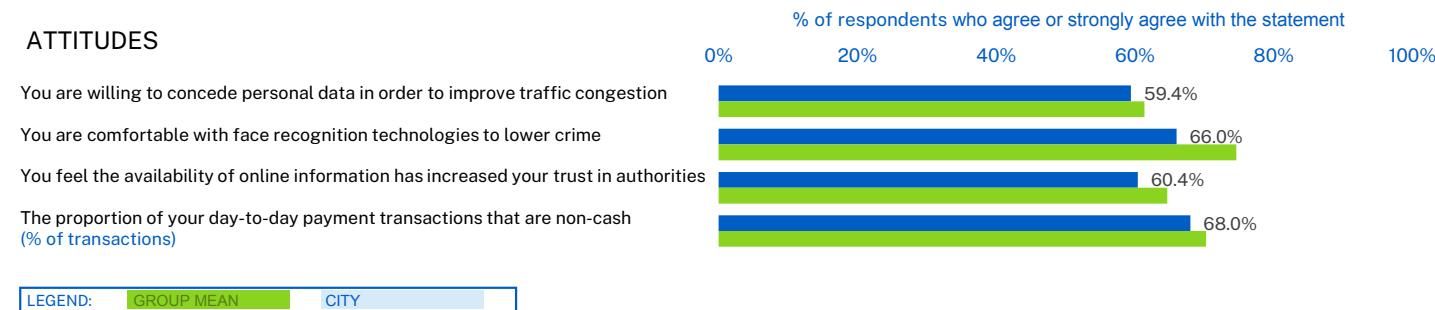
Country

Turkey	2019	2020	2021	2022	1 yr change
HDI	0.842	0.835	0.841	0.855	+0.014
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

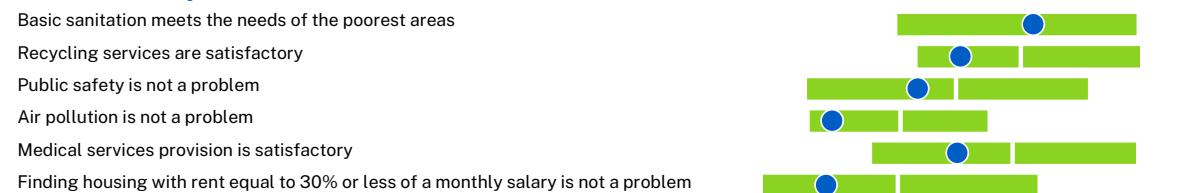


LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

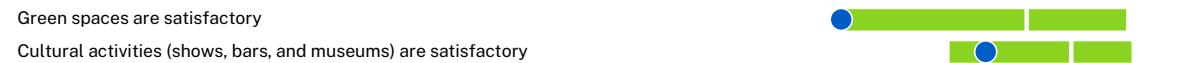
Health & Safety



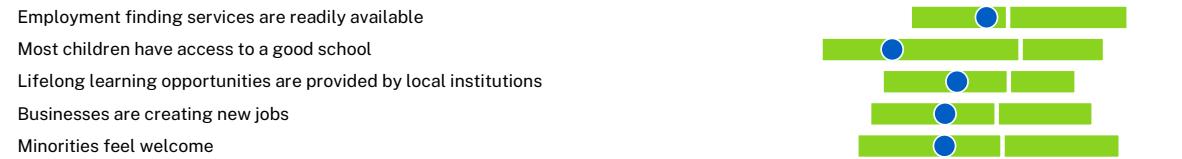
Mobility



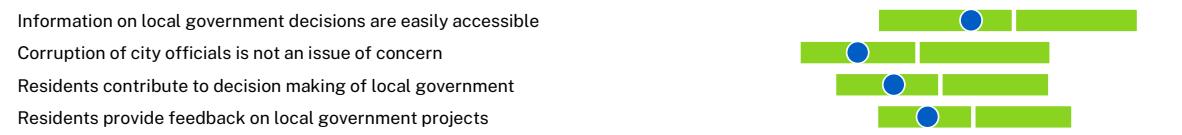
Activities



Opportunities (Work & School)



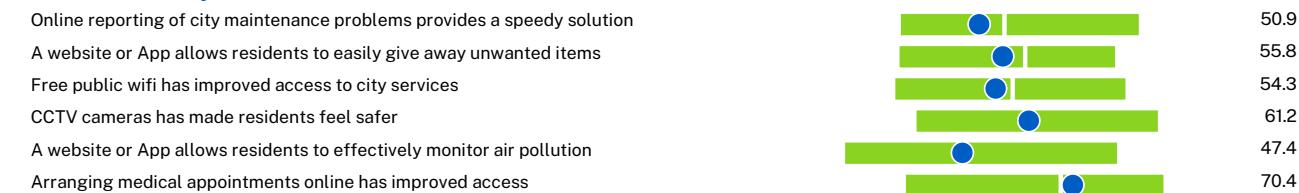
Governance



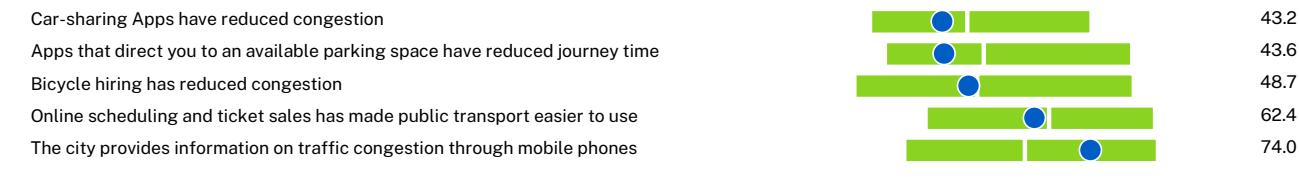
TECHNOLOGIES

Score

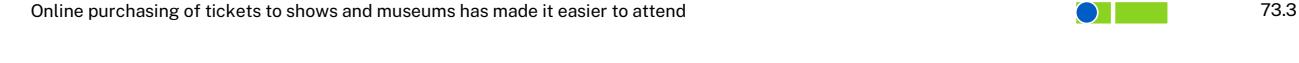
Health & Safety



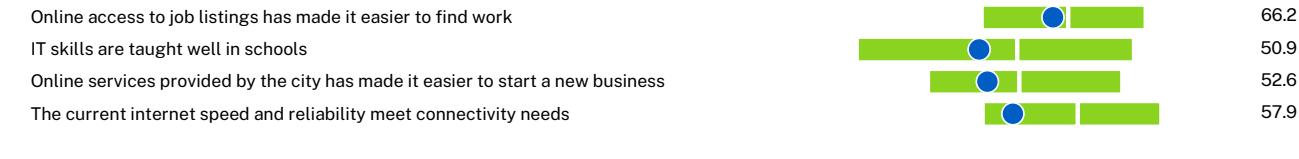
Mobility



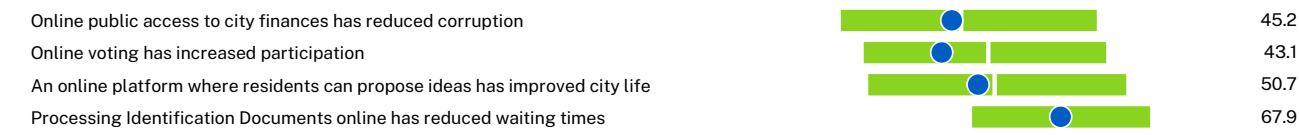
Activities



Opportunities (Work & School)



Governance



All ratings range
from AAA to D

Jakarta

SMART
CITY
RANKING
103
Out of 142

102 in 2023
Out of 141

SMART
CITY RATING

CC
CC in 2023

FACTOR
RATINGS

CC
STRUCTURES

CCC
TECHNOLOGIES

GROUP
4

All ratings range
from AAA to D

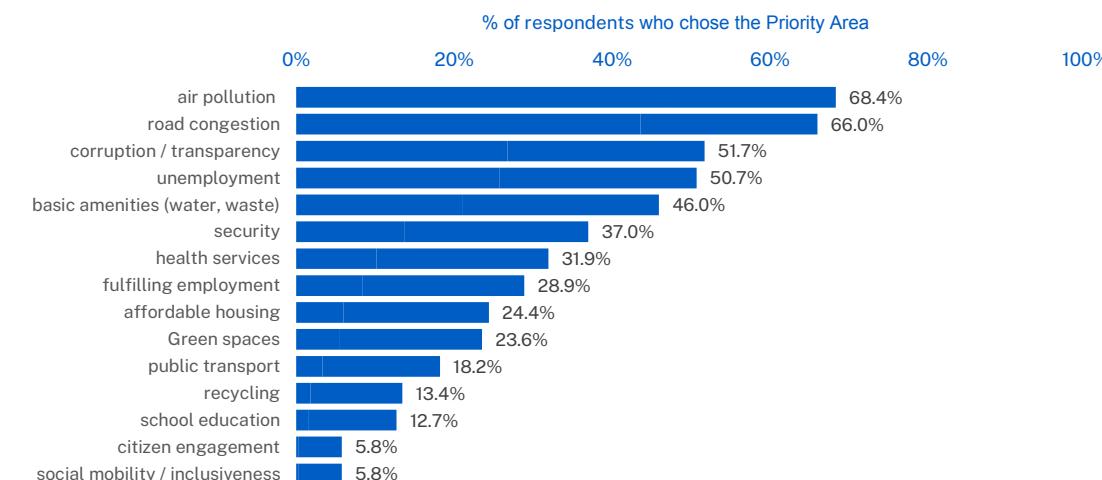
BACKGROUND INFORMATION

City

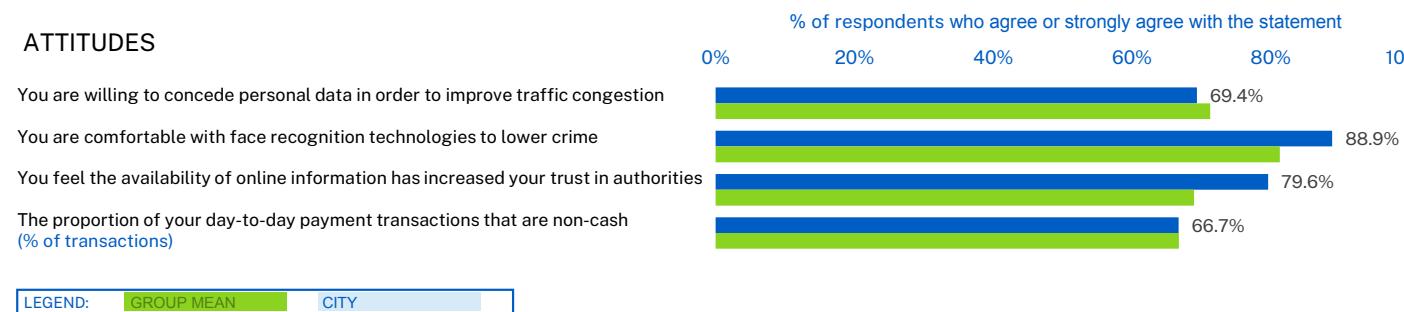
Population 10,770,000
(UN World Urbanization Prospects)
HDI 0.759
(Global Data Lab)



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



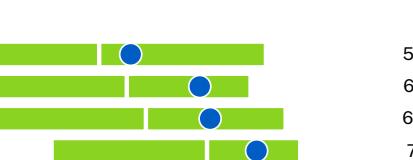
Opportunities (Work & School)

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



Jeddah

SMART
CITY
RANKING
55

Out of 142



56 in 2023
Out of 141

SMART
CITY RATING



B in 2023

FACTOR
RATINGS



STRUCTURES

TECHNOLOGIES



GROUP
3
All ratings range
from AAA to D

BACKGROUND INFORMATION

City

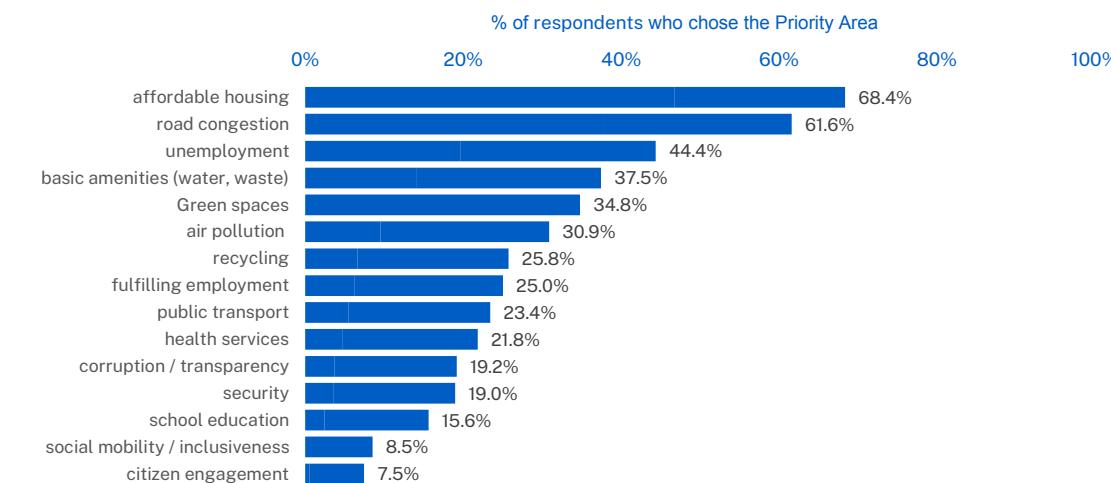
Population 4,780,000
(UN World Urbanization Prospects)
HDI 0.871
(Global Data Lab)



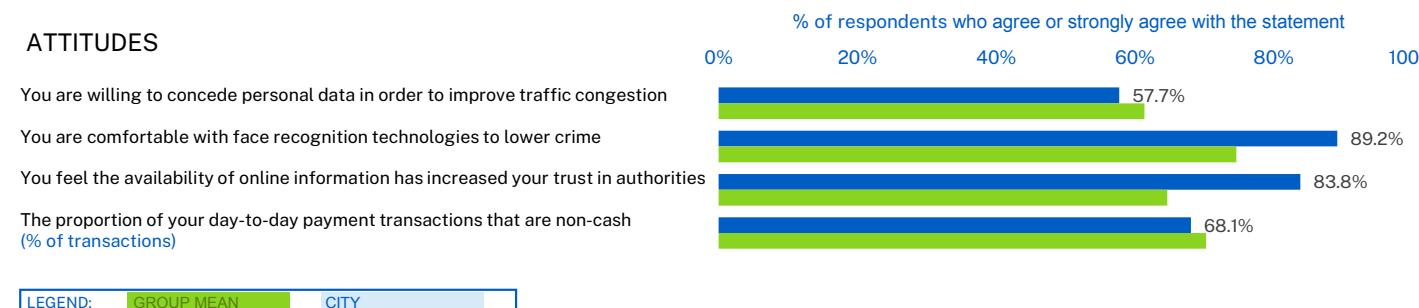
Country

Saudi Arabia	2019	2020	2021	2022	1 yr change
HDI	0.862	0.861	0.867	0.875	+0.008
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



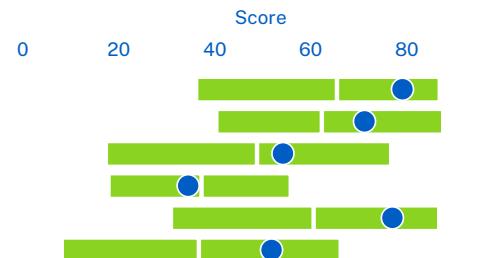
LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety

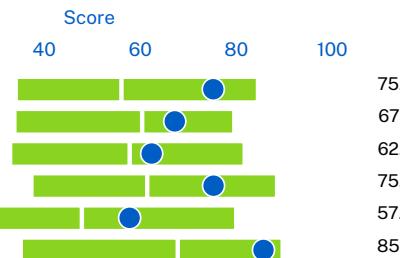
- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem



Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
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- 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



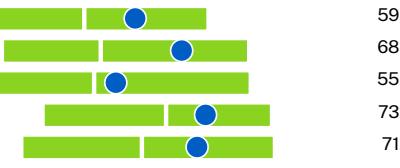
Mobility

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



Mobility

- Car-sharing Apps have reduced congestion
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- Bicycle hiring has reduced congestion
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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



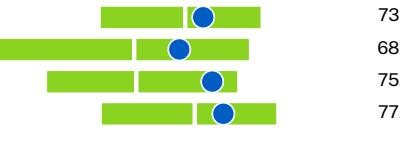
Opportunities (Work & School)

- 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



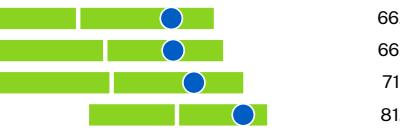
Governance

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- 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

79

Out of 142

81 in 2023
Out of 141

SMART CITY RATING

BB

BB in 2023

FACTOR RATINGS

BBB

STRUCTURES

CCC

TECHNOLOGIES

GROUP 2

All ratings range from AAA to D

BACKGROUND INFORMATION

City

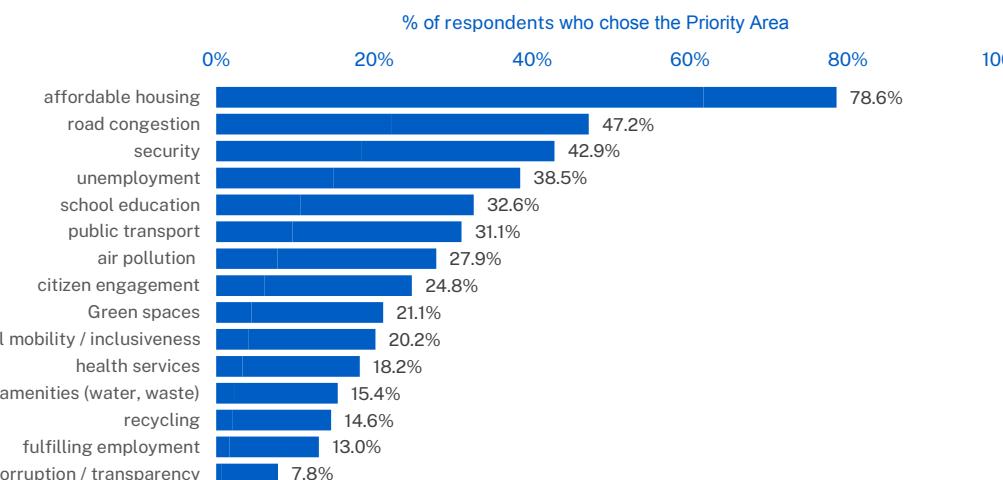
Population 250,000
(Eurostat)



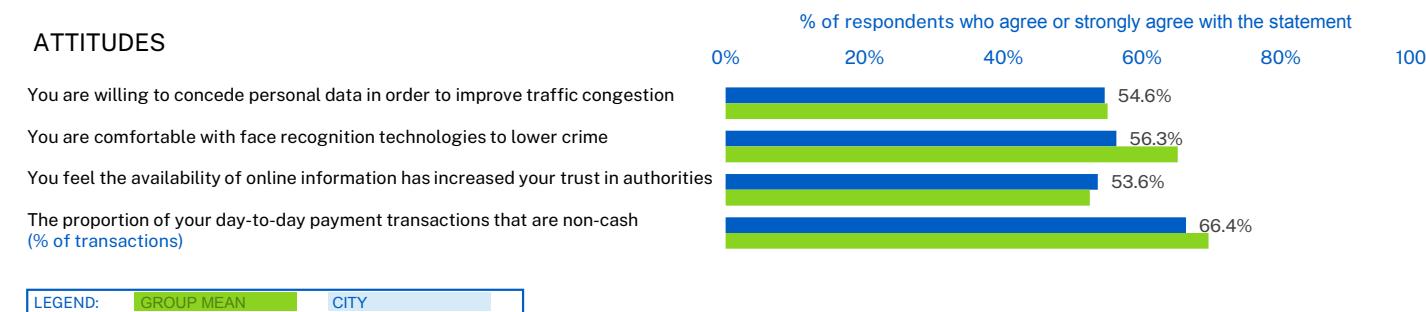
Country

Germany	2019	2020	2021	2022	1 yr change
HDI	0.951	0.948	0.948	0.950	+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: 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

Health & Safety

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- A website or App allows residents to effectively monitor air pollution
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Score 0 20 40 60 80 100

Mobility

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

Score 0 20 40 60 80 100

Mobility

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

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

Score 0 20 40 60 80 100

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
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- Minorities feel welcome

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Governance

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- Residents contribute to decision making of local government
- Residents provide feedback on local government projects

Score 0 20 40 60 80 100

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

SMART CITY RANKING

76

Out of 142



79 in 2023
Out of 141

SMART CITY RATING

CCC

CCC in 2023

FACTOR RATINGS

CCC

STRUCTURES

CC

TECHNOLOGIES

3

All ratings range from AAA to D

BACKGROUND INFORMATION

City

Population 770,000
(UN World Urbanization Prospects)

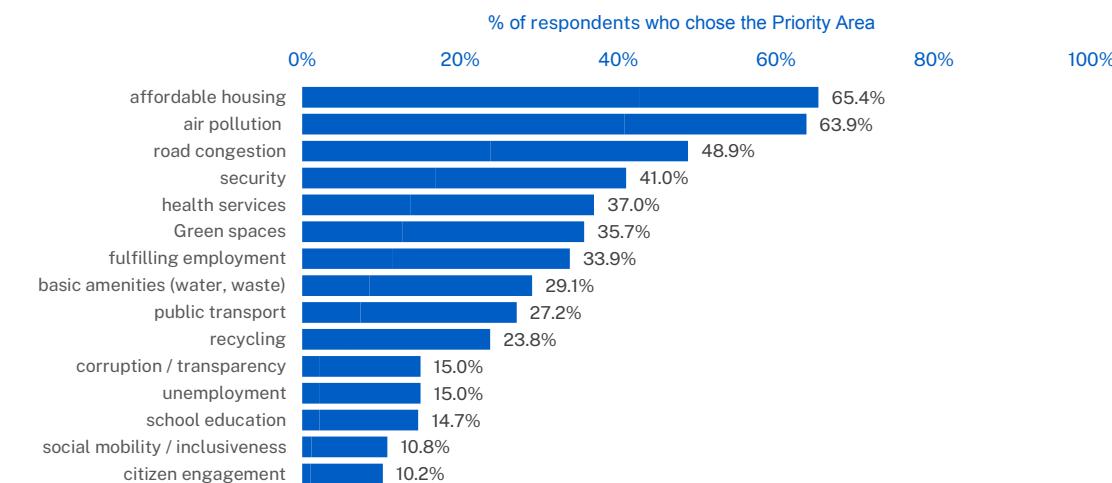
HDI 0.888
(Global Data Lab)



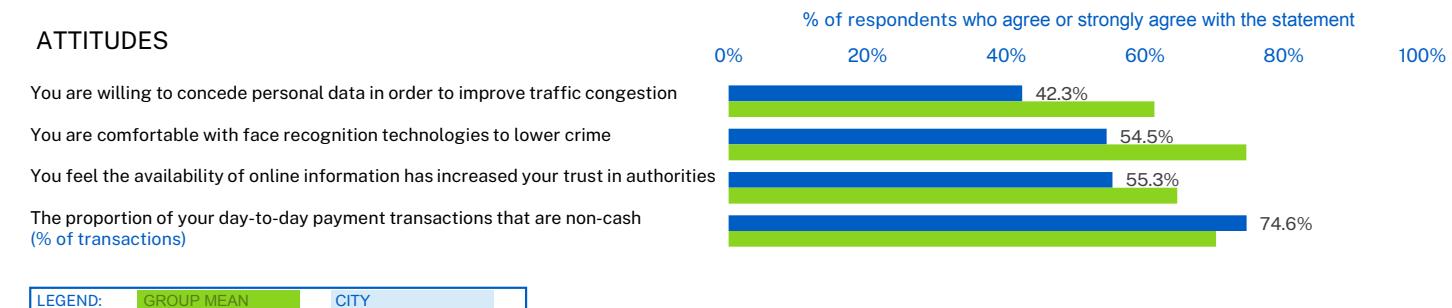
Country

Poland	2019	2020	2021	2022	1 yr change
HDI	0.880	0.874	0.876	0.881	+0.005
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

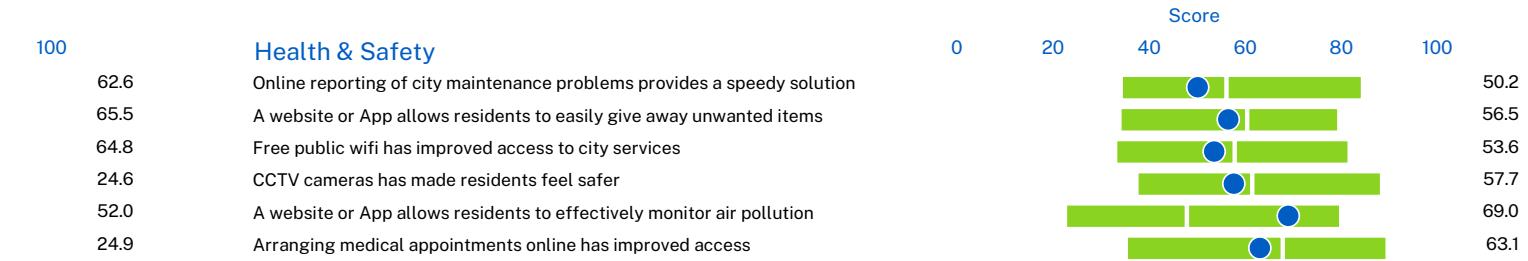
Health & Safety

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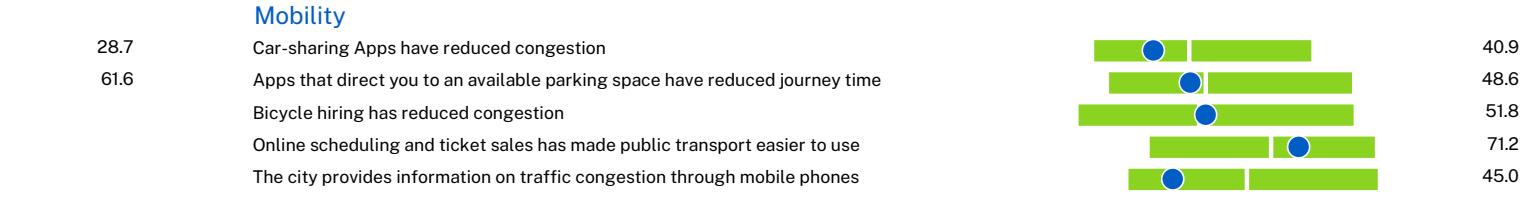


Mobility

- 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

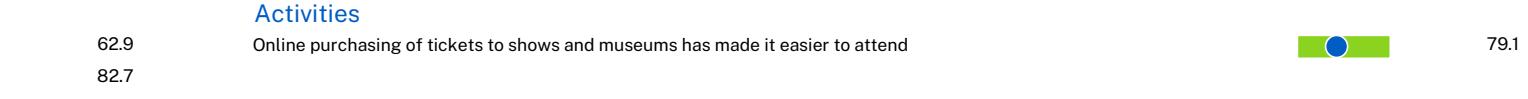


Activities

- 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

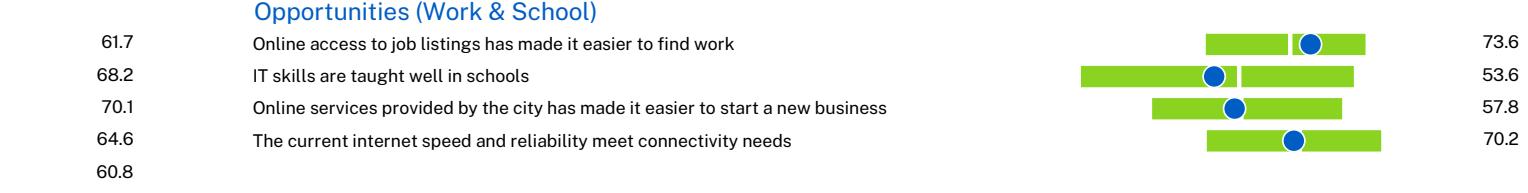


Opportunities (Work & School)

- 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

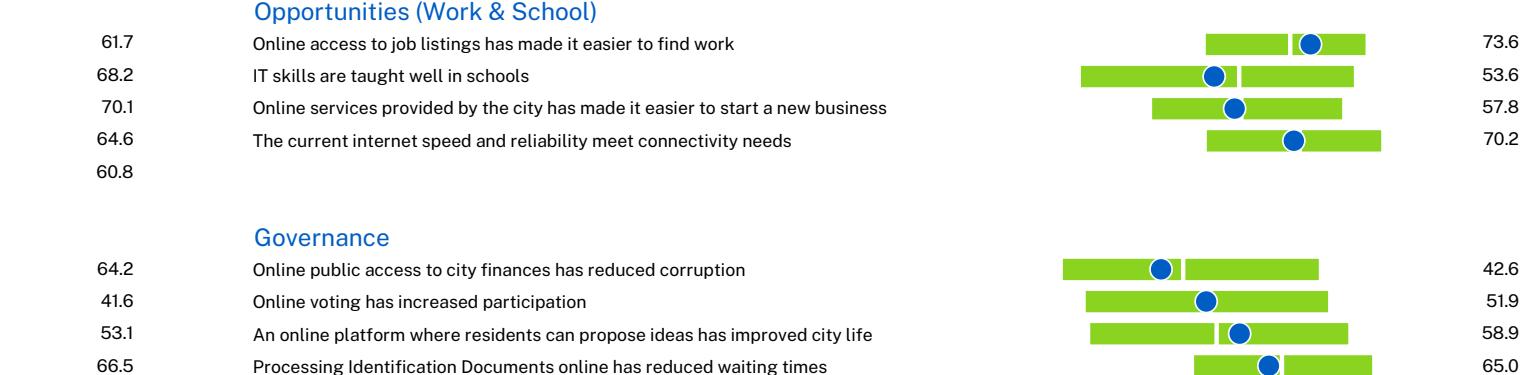


Governance

- Information on local government decisions are easily accessible
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- 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



Kuala Lumpur

SMART
CITY
RANKING
73

Out of 142



89 in 2023
Out of 141

SMART
CITY RATING



CCC in 2023

FACTOR
RATINGS



CCC

TECHNOLOGIES

GROUP
3

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 1,850,000
(UN Data)

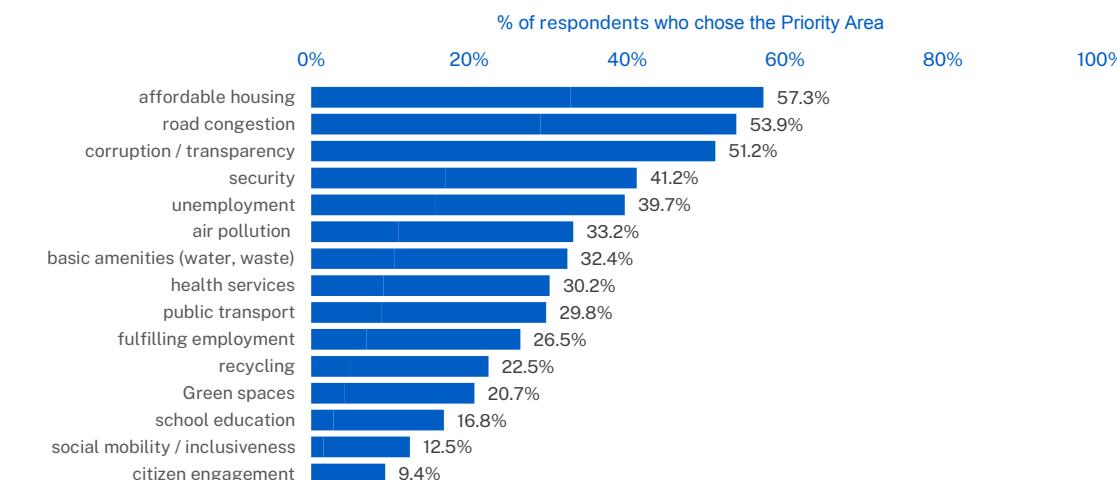
HDI 0.858
(Global Data Lab)



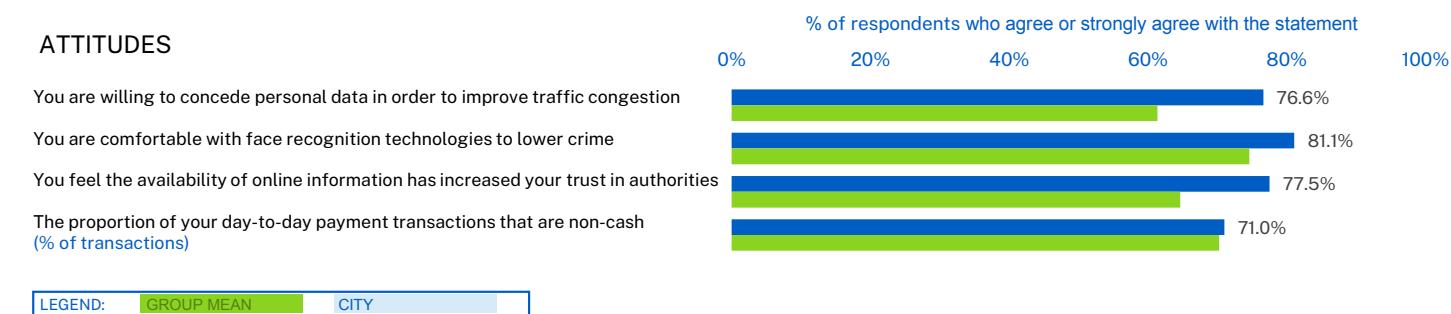
Country

Malaysia	2019	2020	2021	2022	1 yr change
HDI	0.805	0.802	0.798	0.807	+0.009
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



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

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- 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

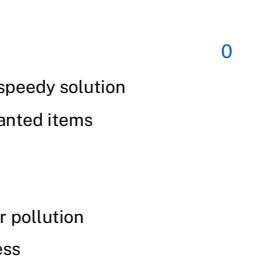


Mobility

- 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
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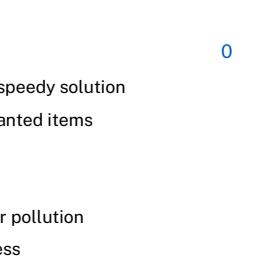


Activities

- 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

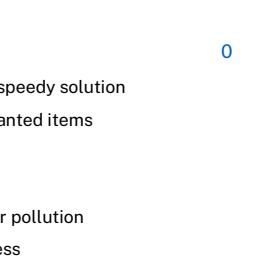


Opportunities (Work & School)

- Employment finding services are readily available
- Most children have access to a good school
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- Businesses are creating new jobs
- Minorities feel welcome

Opportunities (Work & School)

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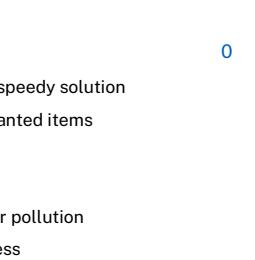


Governance

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Governance

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Lagos

SMART
CITY
RANKING
136
Out of 142



132 in 2023
Out of 141

SMART
CITY RATING

D

D in 2023

FACTOR
RATINGS

D

STRUCTURES

D

TECHNOLOGIES

4

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

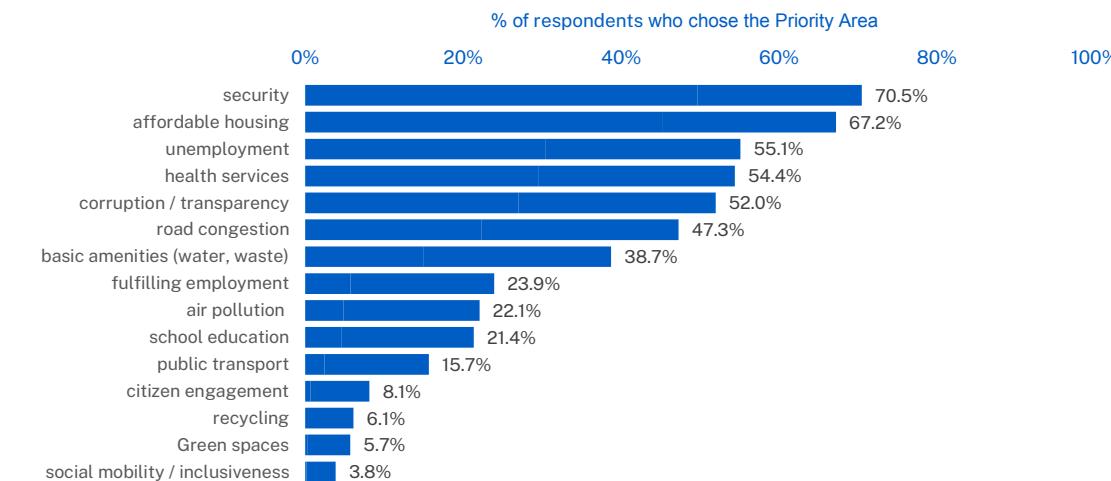
Population 14,370,000
(UN World Urbanization Prospects)
HDI 0.681
(Global Data Lab)



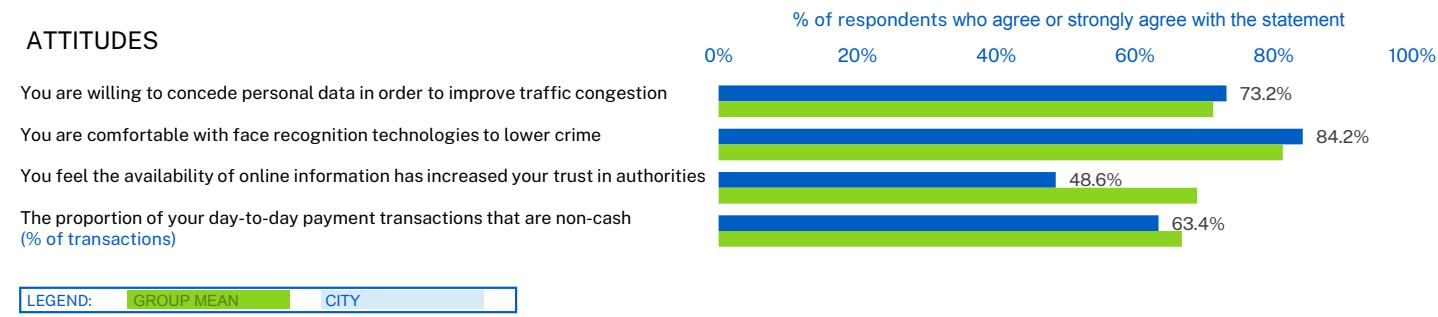
Country

Nigeria	2019	2020	2021	2022	1 yr change
HDI	0.537	0.539	0.542	0.548	+0.006
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

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Mobility

- Traffic congestion is not a problem
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TECHNOLOGIES

Health & Safety

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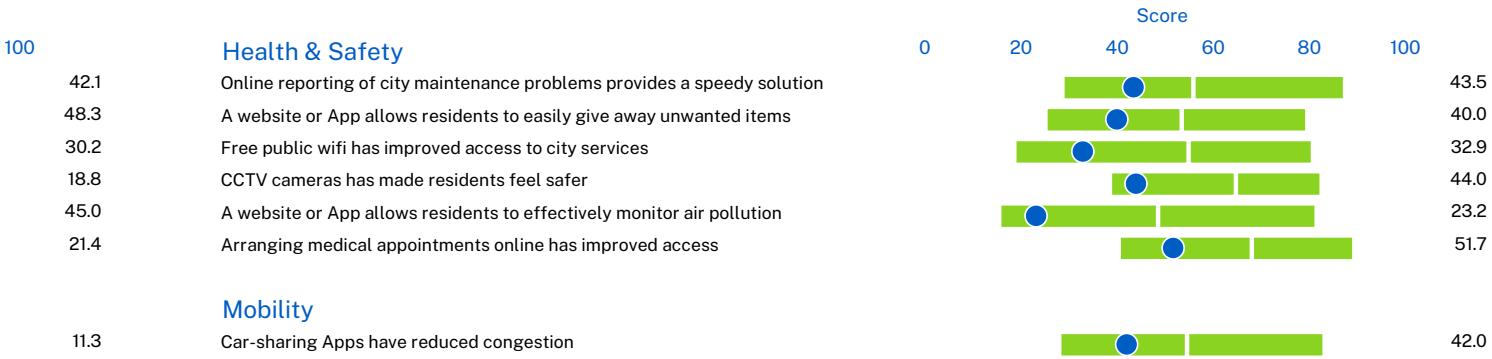
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Governance

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- An online platform where residents can propose ideas has improved city life
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All ratings range
from AAA to D

Lausanne

SMART
CITY
RANKING

7

Out of 142



5 in 2023
Out of 141

SMART
CITY RATING

AA

AA in 2023

FACTOR
RATINGS

AA

STRUCTURES

A

TECHNOLOGIES

GROUP

1

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

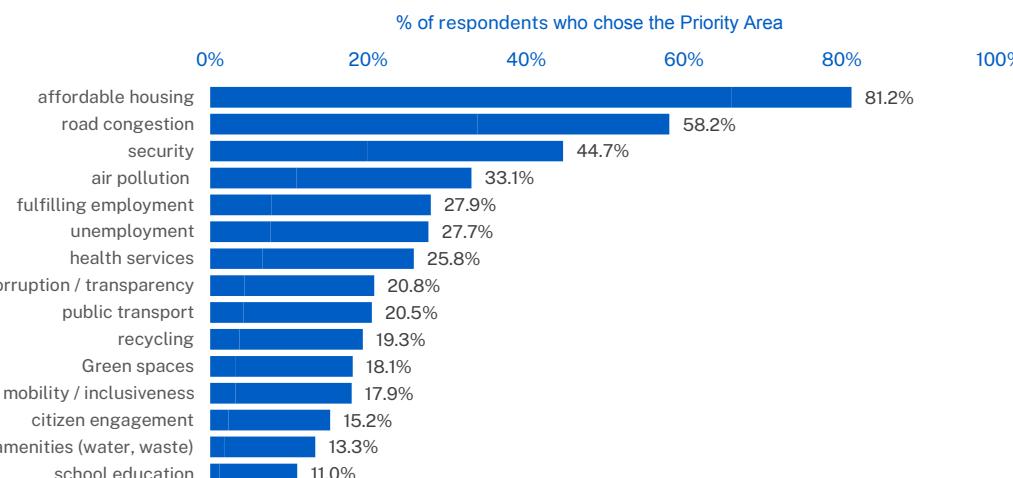
Population 140,000
(Eurostat)



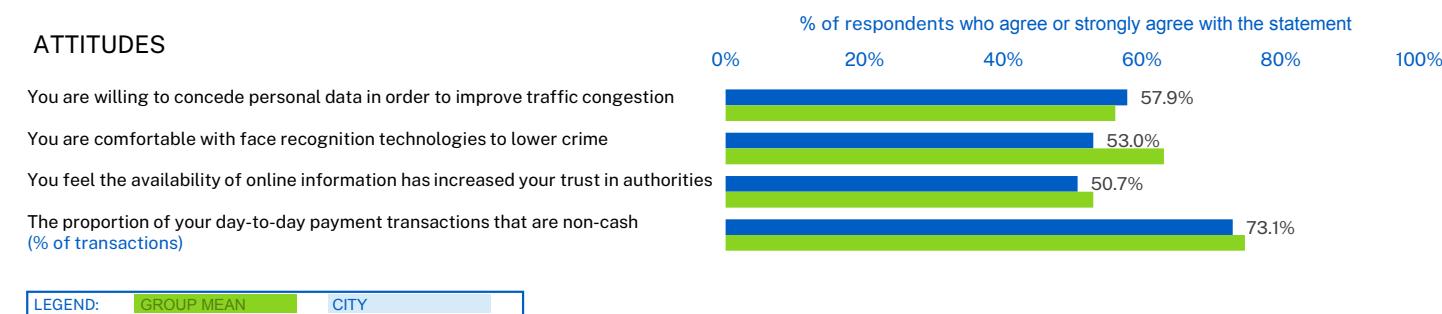
Country

Switzerland	2019	2020	2021	2022	1 yr change
HDI	0.960	0.957	0.965	0.967	+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



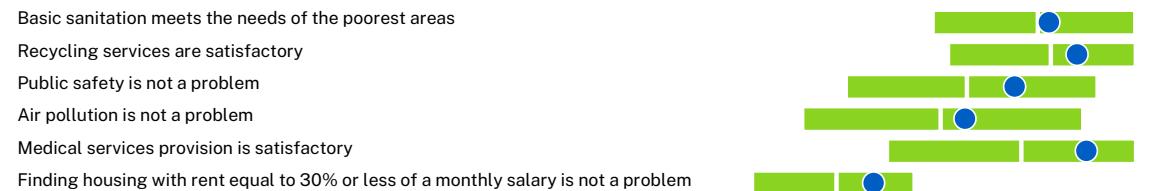
ATTITUDES



LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

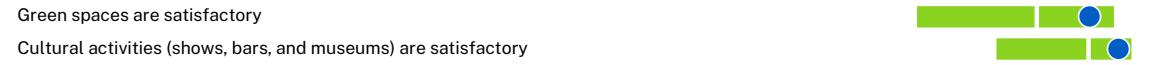
Health & Safety



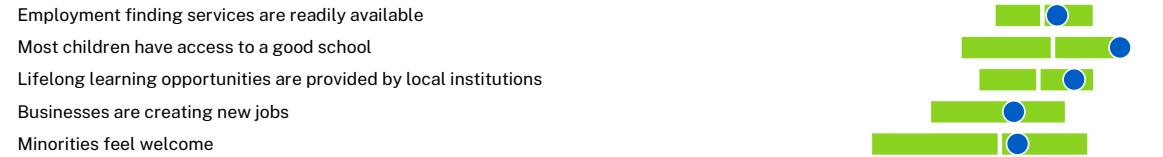
Mobility



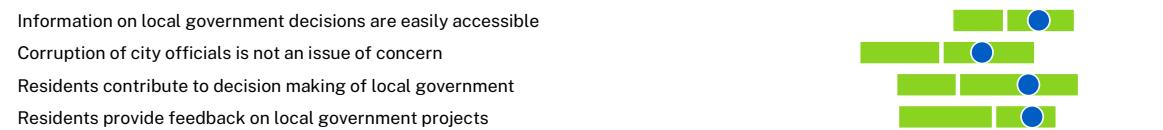
Activities



Opportunities (Work & School)

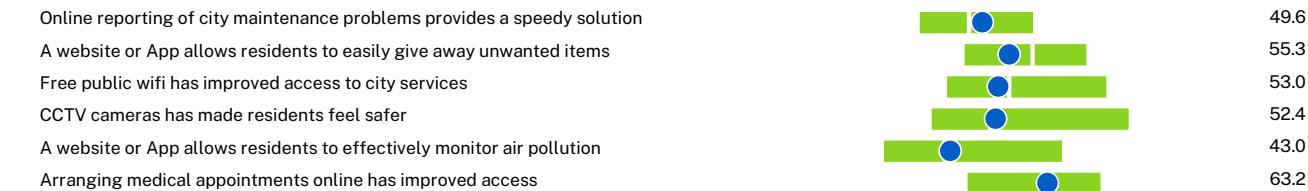


Governance

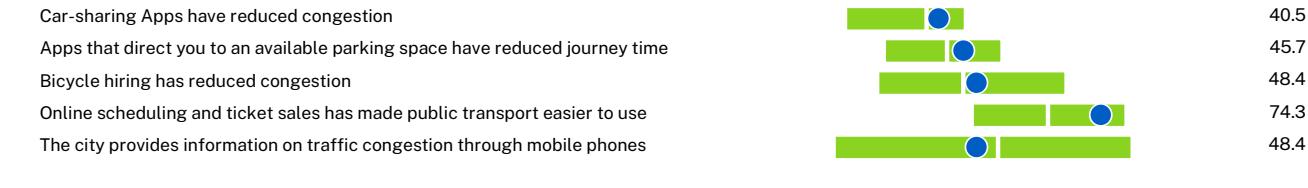


TECHNOLOGIES

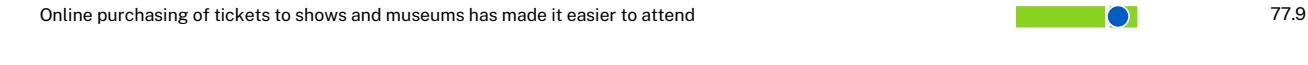
Health & Safety



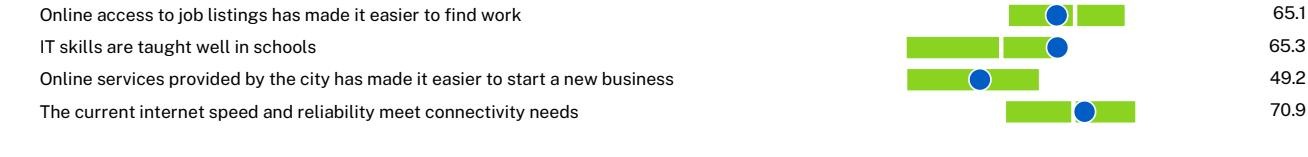
Mobility



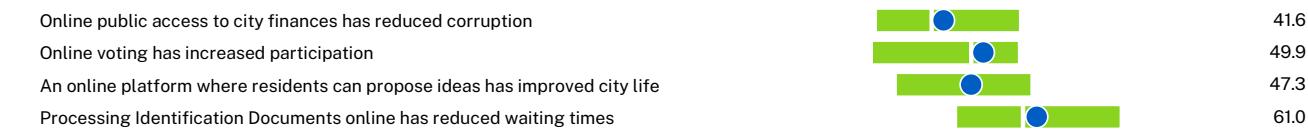
Activities



Opportunities (Work & School)



Governance



SMART CITY RANKING

72

Out of 142



76 in 2023
Out of 141

SMART CITY RATING

CC

CCC in 2023

FACTOR RATINGS

CCC

STRUCTURES

CC

TECHNOLOGIES

3

All ratings range from AAA to D

BACKGROUND INFORMATION

City

Population 790,000
(Eurostat)

HDI 0.908
(Global Data Lab)

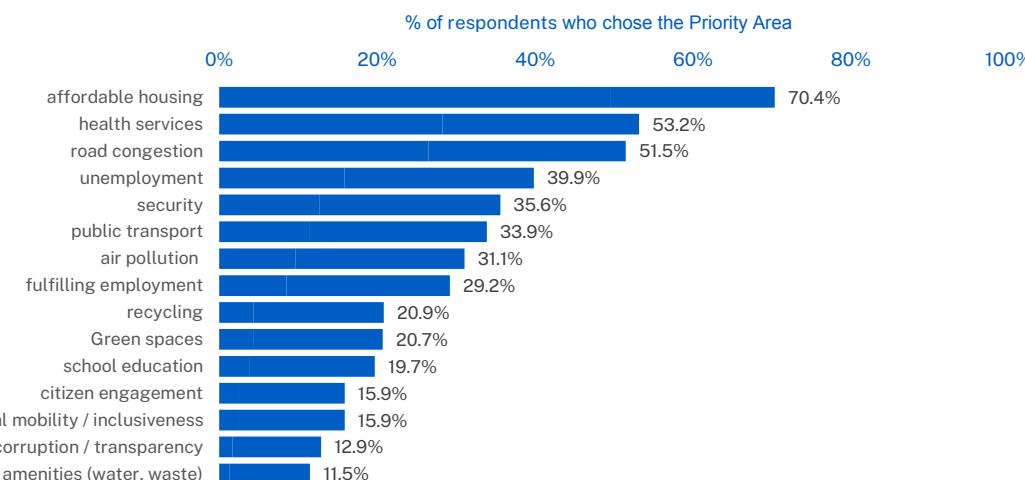


76 in 2023
Out of 141

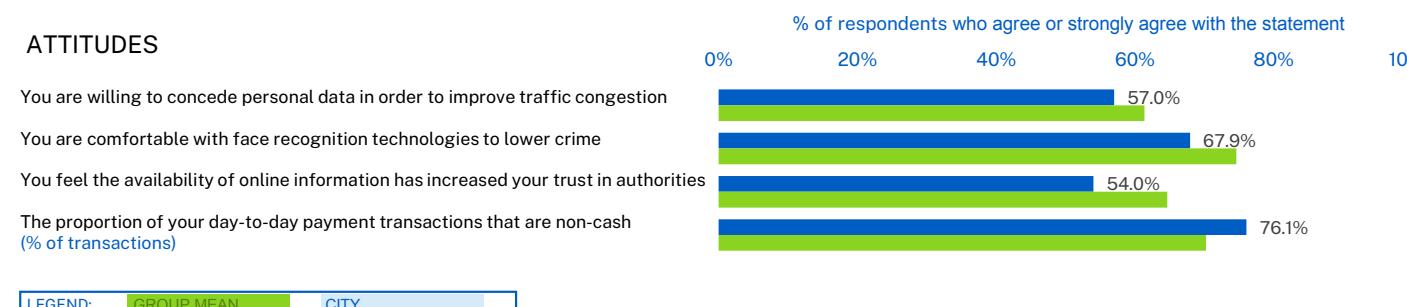
Country

United Kingdom	2019	2020	2021	2022	1 yr change
HDI	0.933	0.920	0.931	0.940	+0.009
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

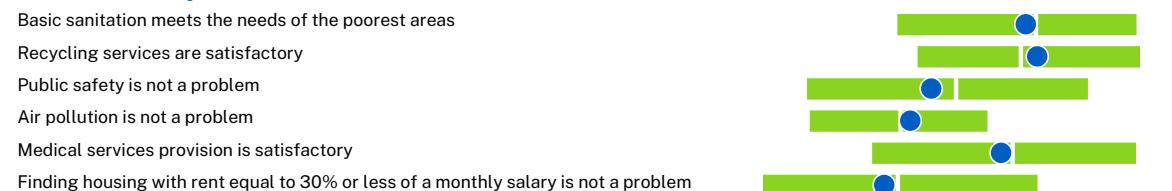


LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



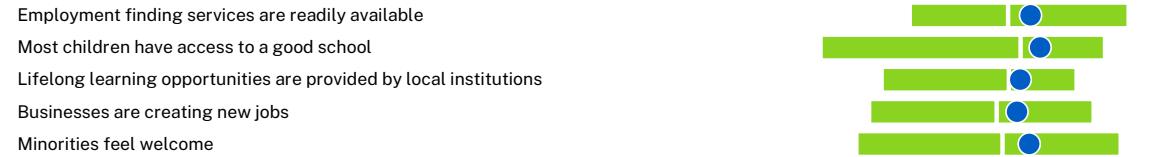
Mobility



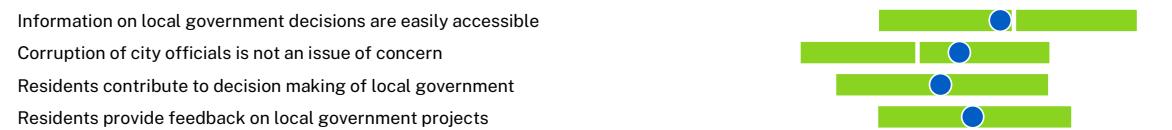
Activities



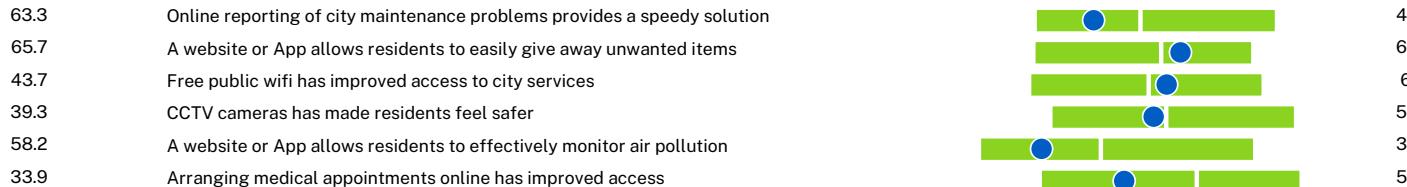
Opportunities (Work & School)



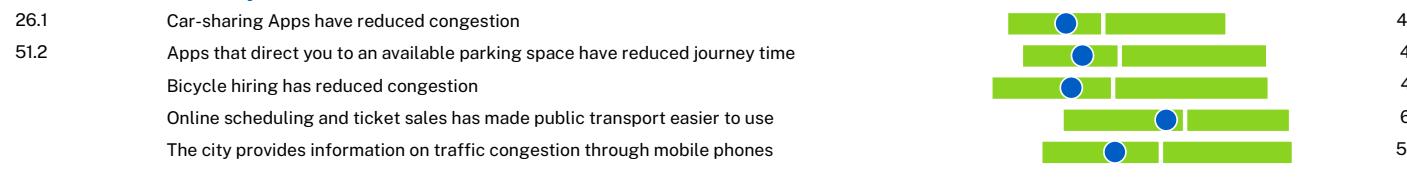
Governance



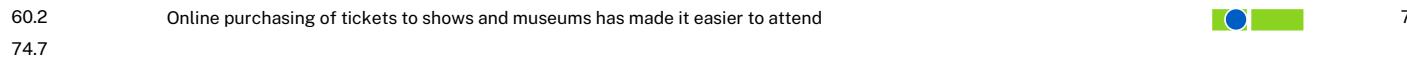
Health & Safety



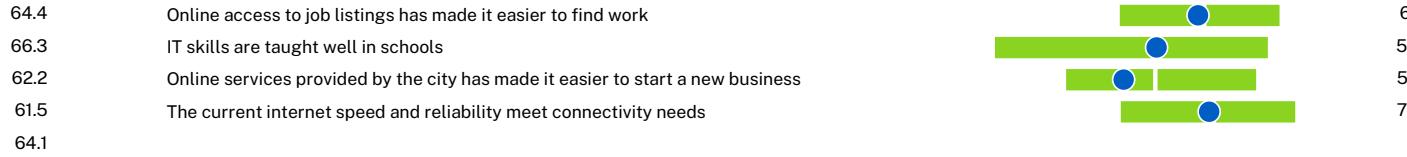
Mobility



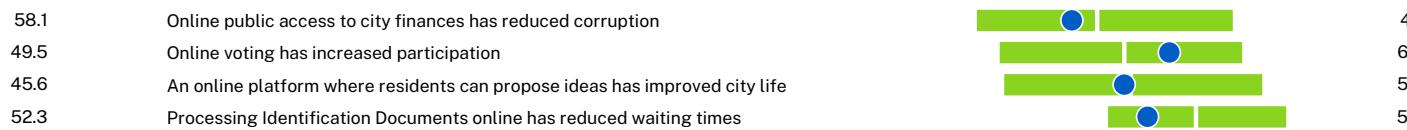
Activities



Opportunities (Work & School)



Governance



SMART
CITY
RANKING
85

Out of 142



84 in 2023
Out of 141

SMART
CITY RATING

CCC

CCC in 2023

FACTOR
RATINGS

CCC

STRUCTURES

CC

TECHNOLOGIES

GROUP

3

All ratings range
from AAA to D

BACKGROUND INFORMATION

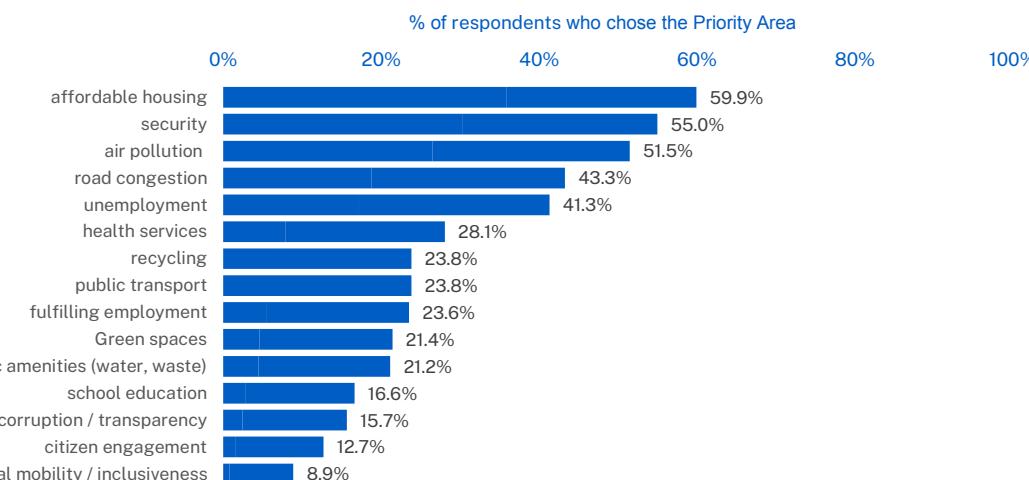
City

Population 910,000
(Eurostat)

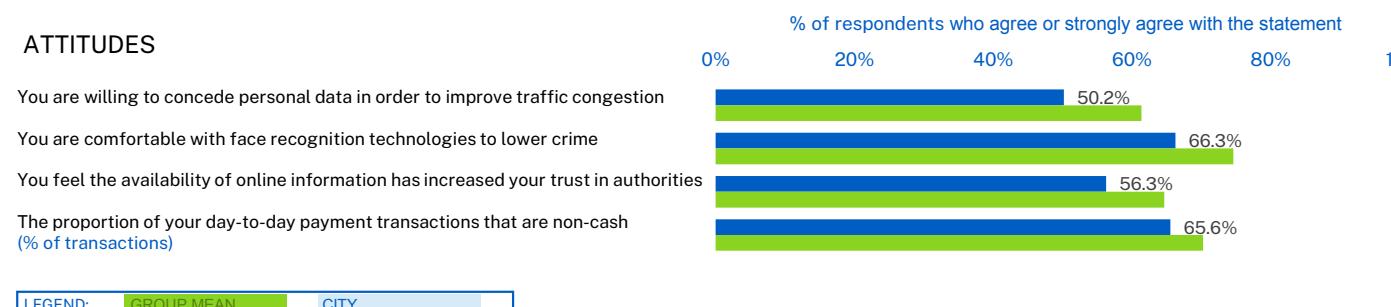
HDI 0.880
(Global Data Lab)



PRIORITY AREAS



ATTITUDES

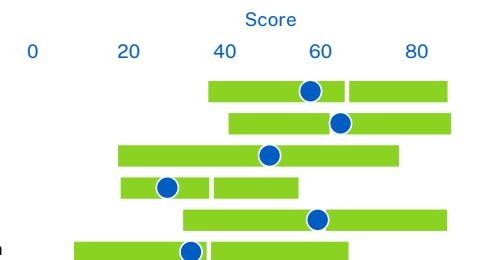


LEGEND: MIN CITY MEAN GROUP MAX

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

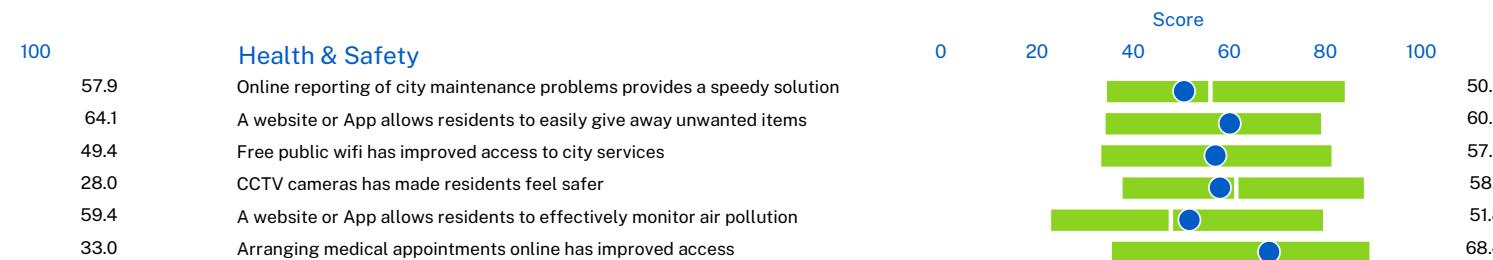
- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor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

LEGEND: MIN CITY MEAN GROUP MAX

TECHNOLOGIES

Mobility

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

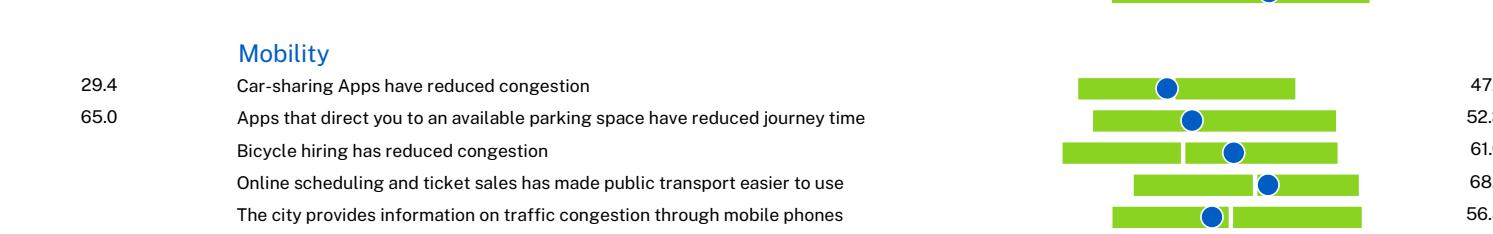


Mobility

- 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

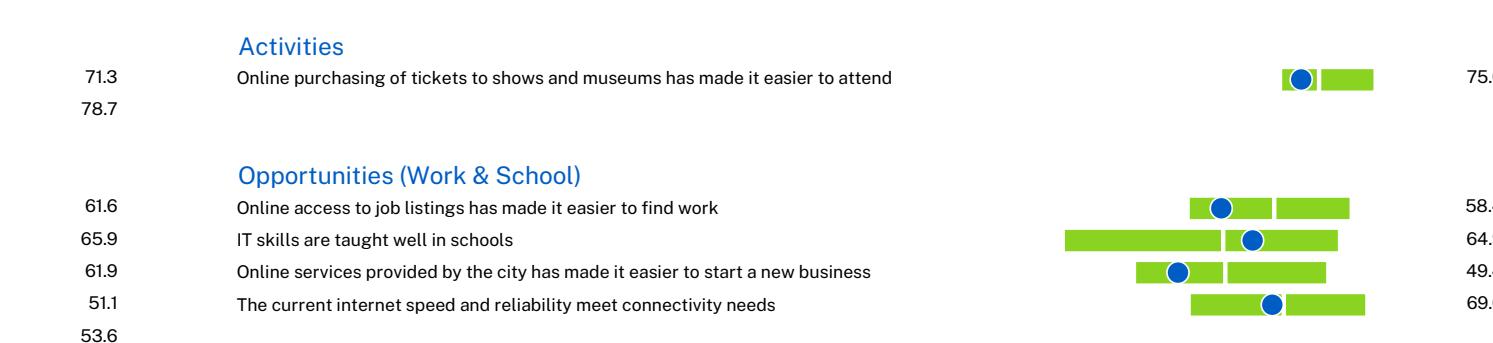


Activities

- 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

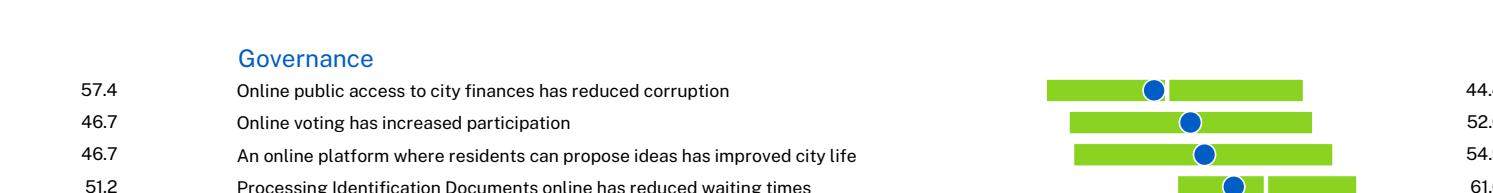


Opportunities (Work & School)

- 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

SMART CITY RANKING

134

Out of 142

134 in 2023
Out of 141

SMART CITY RATING

C

C in 2023

FACTOR RATINGS

C

STRUCTURES

TECHNOLOGIES

3

All ratings range from AAA to D

BACKGROUND INFORMATION

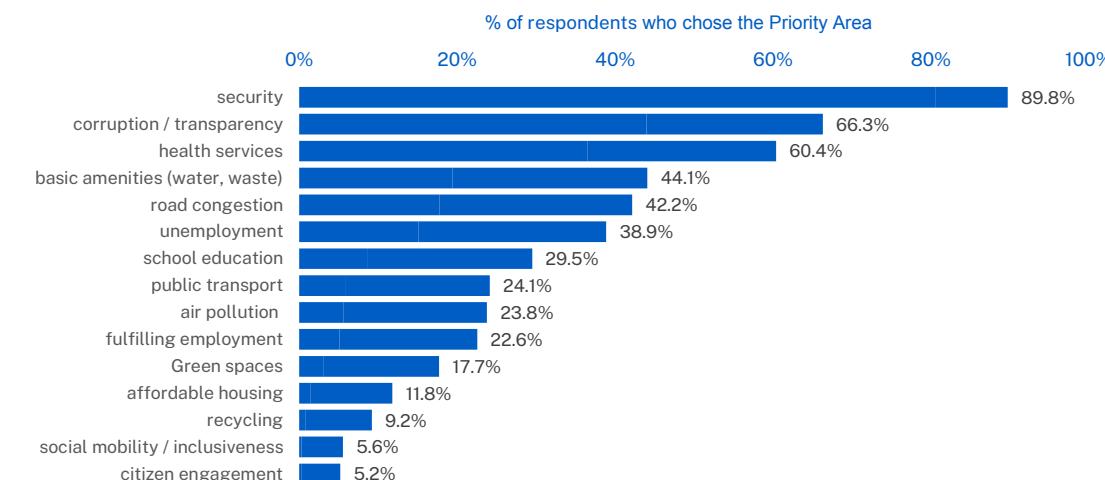
City

Population 9,560,000
(UN Data)

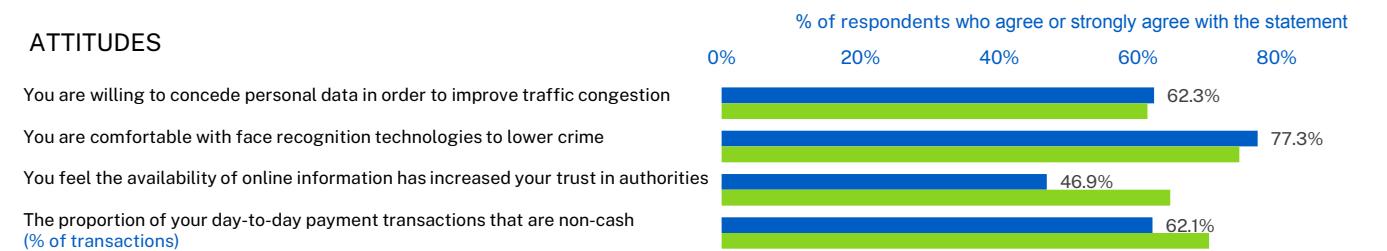
HDI 0.820
(Global Data Lab)



PRIORITY AREAS



ATTITUDES

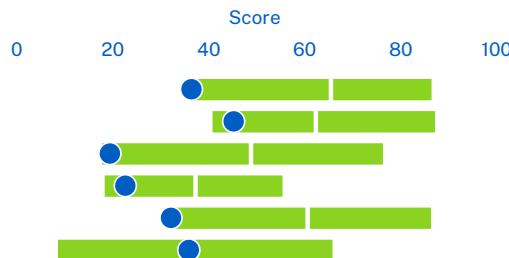


LEGEND: MIN CITY MEAN GROUP MAX

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

TECHNOLOGIES

Mobility

Traffic congestion is not a problem
Public transport is satisfactory

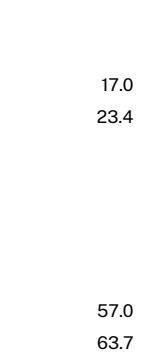


Mobility

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

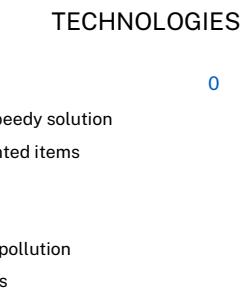
Activities

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



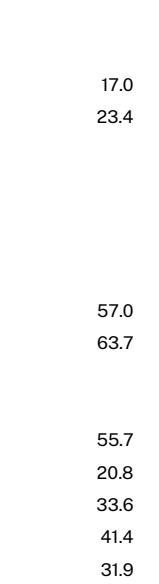
Activities

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



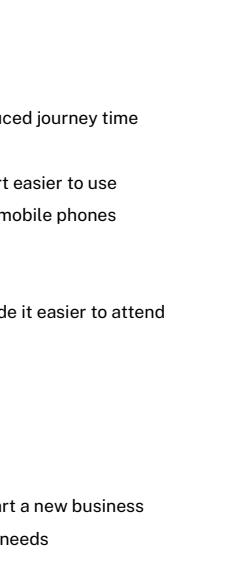
Opportunities (Work & School)

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



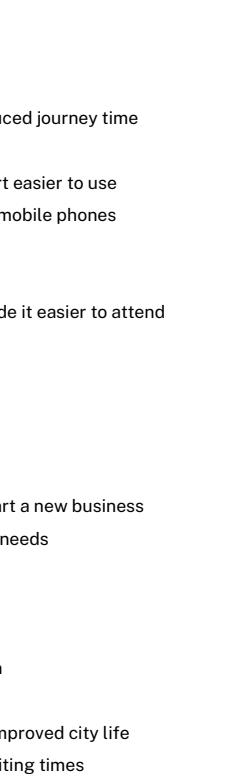
Governance

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



Lisbon

SMART
CITY
RANKING
108
Out of 142

99 in 2023
Out of 141

SMART
CITY RATING

C

CC in 2023

FACTOR
RATINGS

CC

STRUCTURES

CC

TECHNOLOGIES

GROUP
3

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 510,000
(Eurostat)

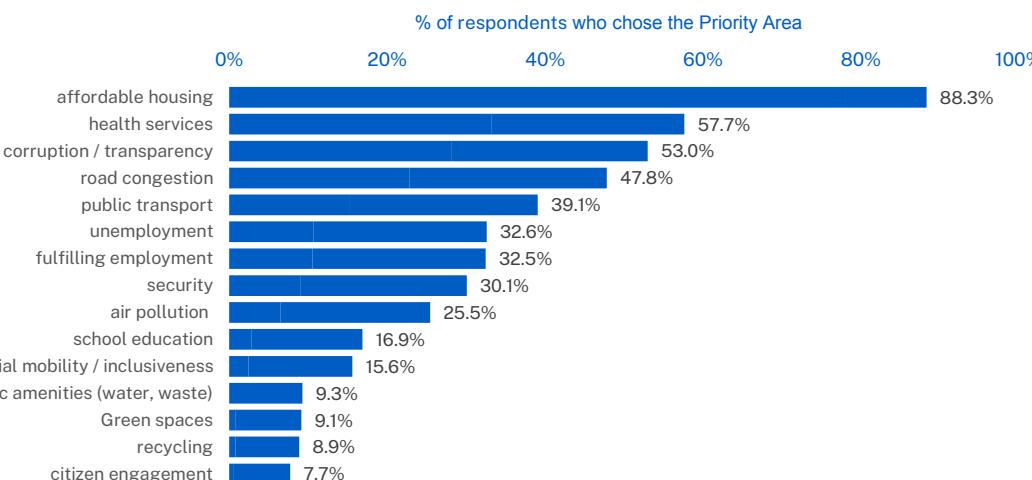


HDI 0.900
(Global Data Lab)

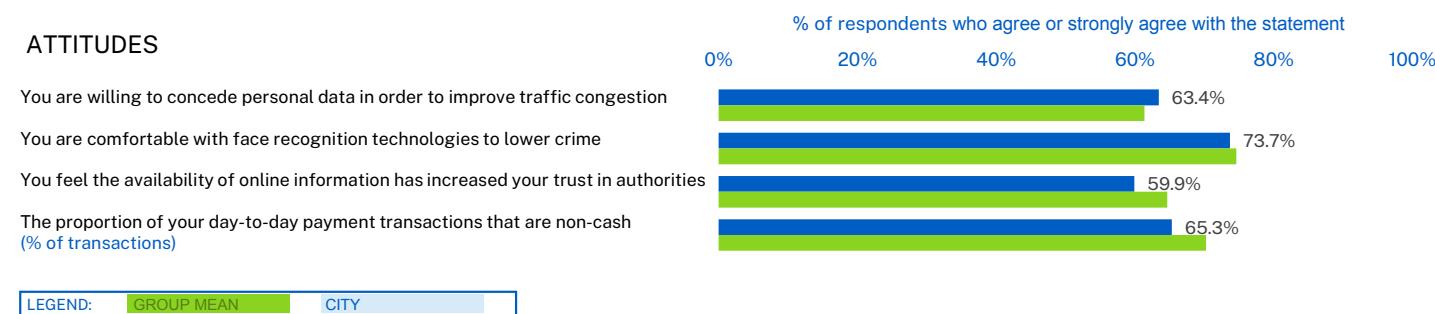
Country

Portugal	2019	2020	2021	2022	1 yr change
HDI	0.864	0.861	0.865	0.874	+0.009
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: 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

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- 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

LEGEND: MIN CITY MEAN GROUP MAX

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

LEGEND: MIN CITY MEAN GROUP MAX

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

LEGEND: MIN CITY MEAN GROUP MAX

Opportunities (Work & School)

- Employment finding services are readily available
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- Lifelong learning opportunities are provided by local institutions
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- 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
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LEGEND: MIN CITY MEAN GROUP MAX

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

LEGEND: MIN CITY MEAN GROUP MAX

Ljubljana

SMART
CITY
RANKING
32
Out of 142

47 in 2023
Out of 141

SMART
CITY RATING

BBB

BBB in 2023

FACTOR
RATINGS

BBB

STRUCTURES

A

TECHNOLOGIES

1

All ratings range
from AAA to D

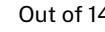
BACKGROUND INFORMATION

City

Population 290,000
(Eurostat)



HDI 0.953
(Global Data Lab)

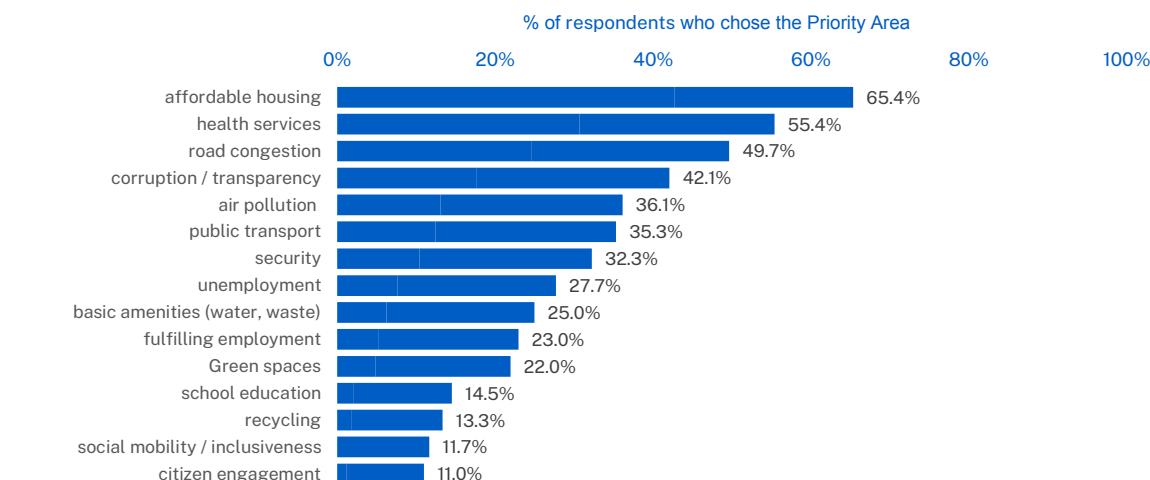


47 in 2023
Out of 141

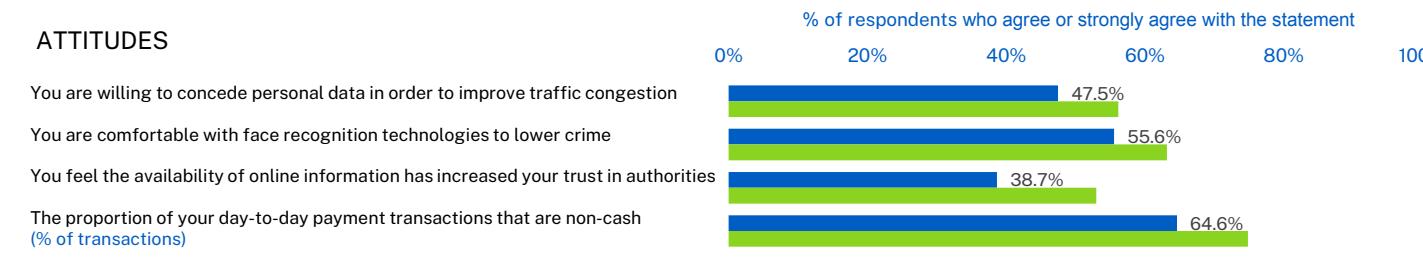
Country

Slovenia	2019	2020	2021	2022	1 yr change
HDI	0.918	0.910	0.916	0.926	+0.010
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

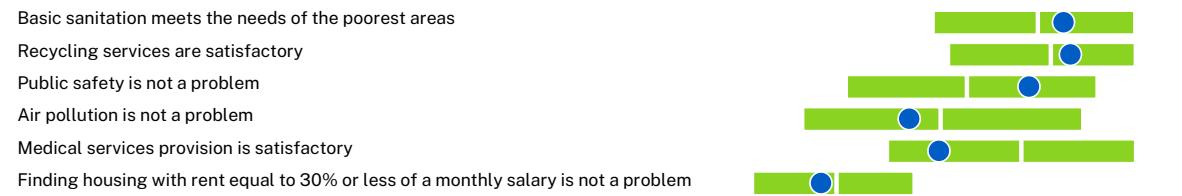


LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



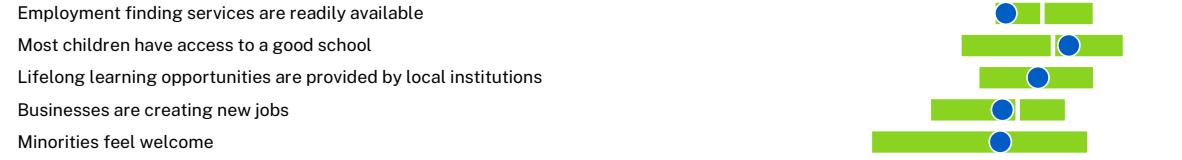
Mobility



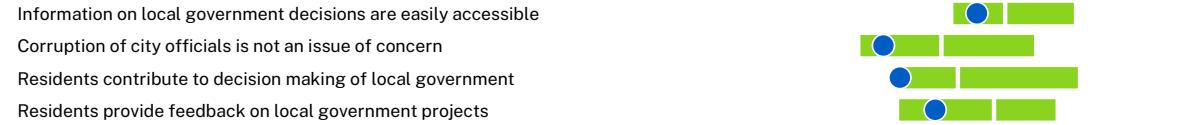
Activities



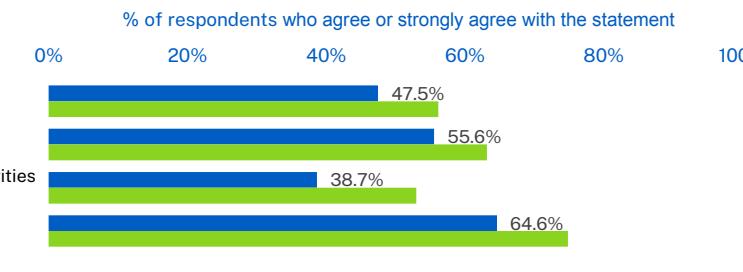
Opportunities (Work & School)



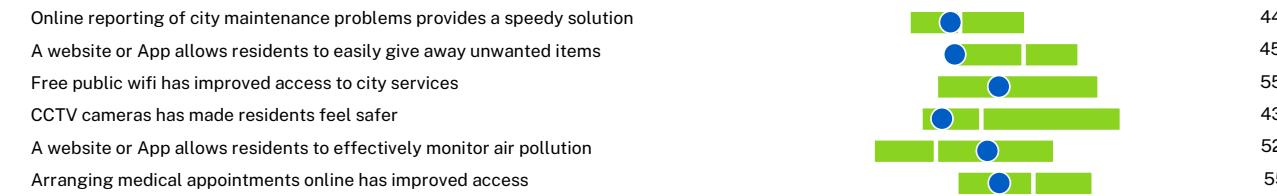
Governance



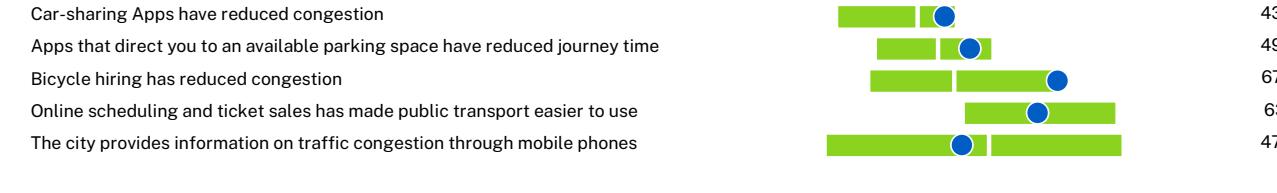
TECHNOLOGIES



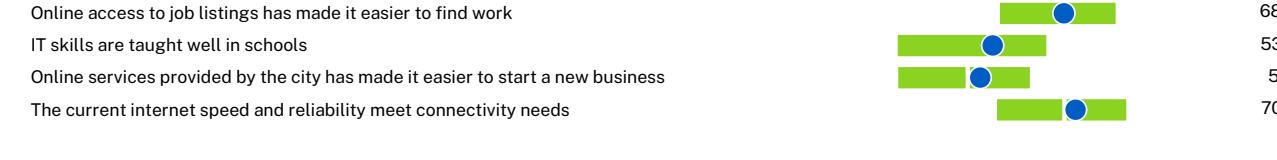
Health & Safety



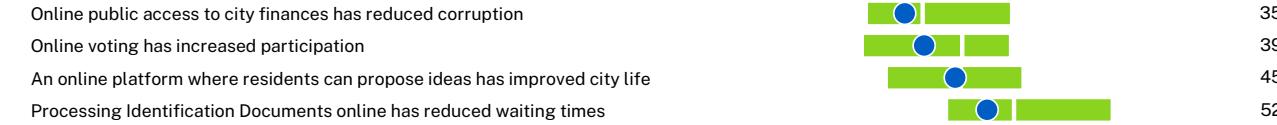
Mobility



Activities



Governance



London

SMART
CITY
RANKING

8

Out of 142



6 in 2023
Out of 141

SMART
CITY RATING

A

A in 2023

FACTOR
RATINGS

BBB

STRUCTURES

AA

TECHNOLOGIES

1

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 8,870,000
(Eurostat)

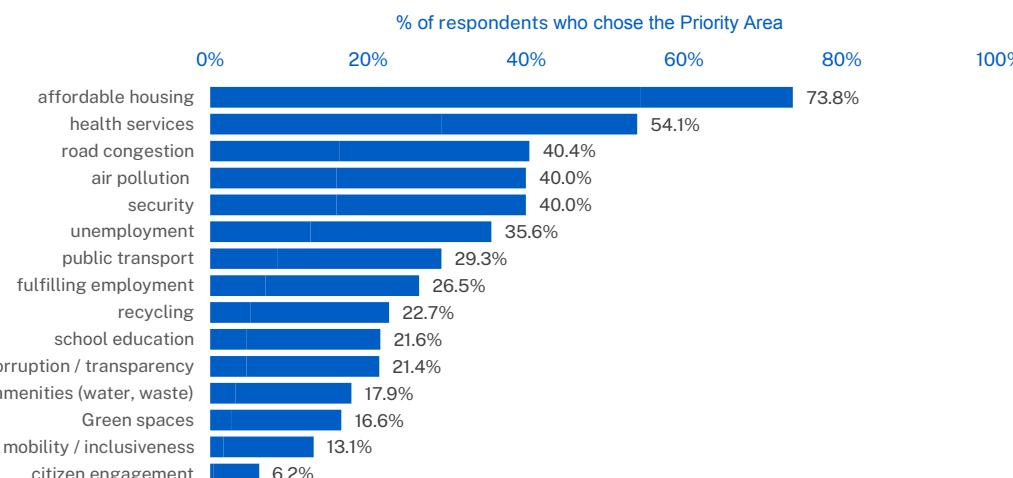
HDI 0.973
(Global Data Lab)



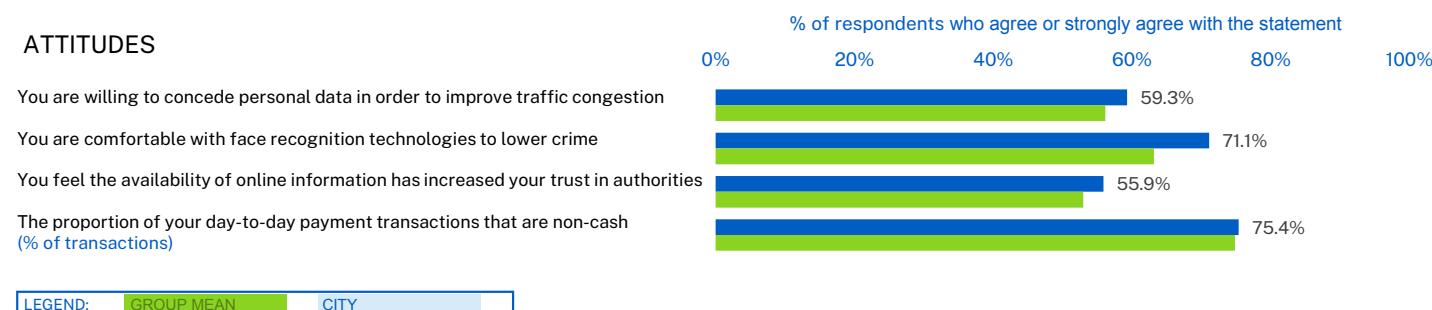
Country

United Kingdom	2019	2020	2021	2022	1 yr change
HDI	0.933	0.920	0.931	0.940	+0.009
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

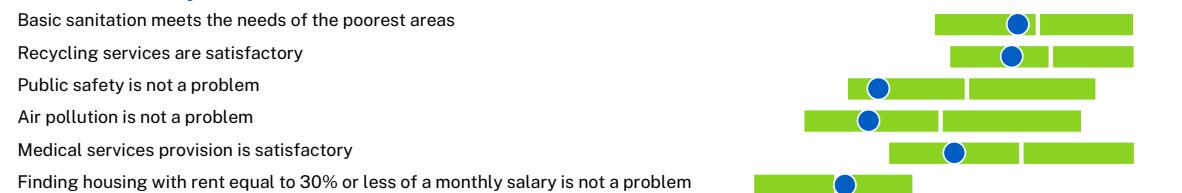


LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



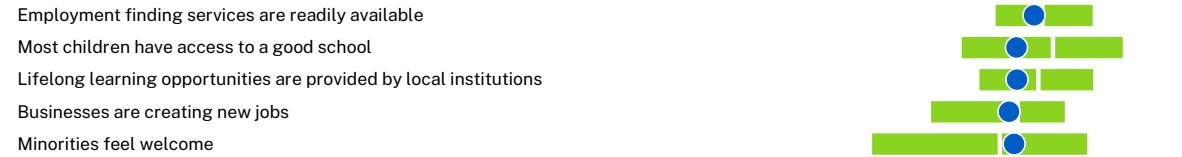
Mobility



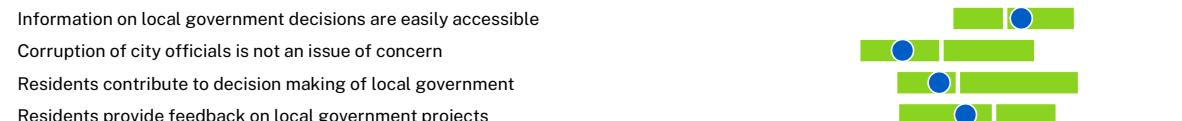
Activities



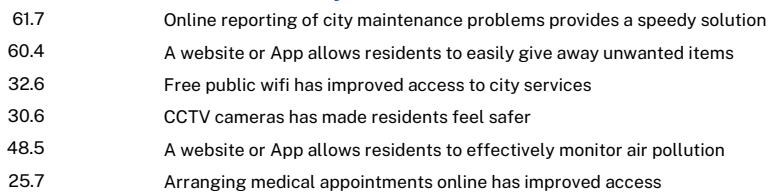
Opportunities (Work & School)



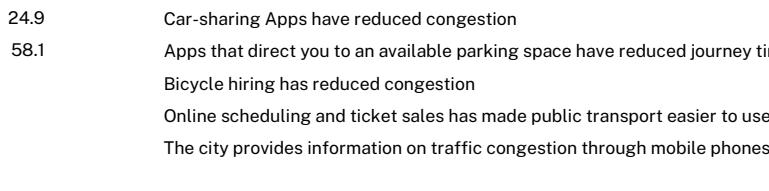
Governance



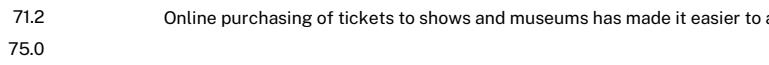
Health & Safety



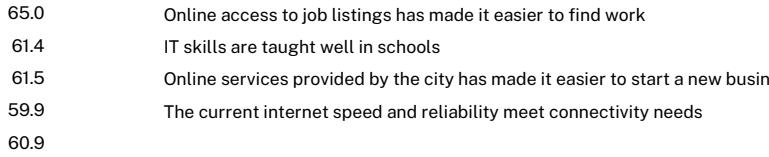
Mobility



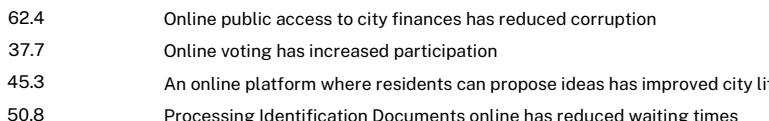
Activities



Opportunities (Work & School)



Governance



Los Angeles

SMART
CITY
RANKING
68

Out of 142



50 in 2023
Out of 141

SMART
CITY RATING

BB

BB in 2023

FACTOR
RATINGS

BB

STRUCTURES

BB

TECHNOLOGIES

2

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 3,900,000
(UN Data)

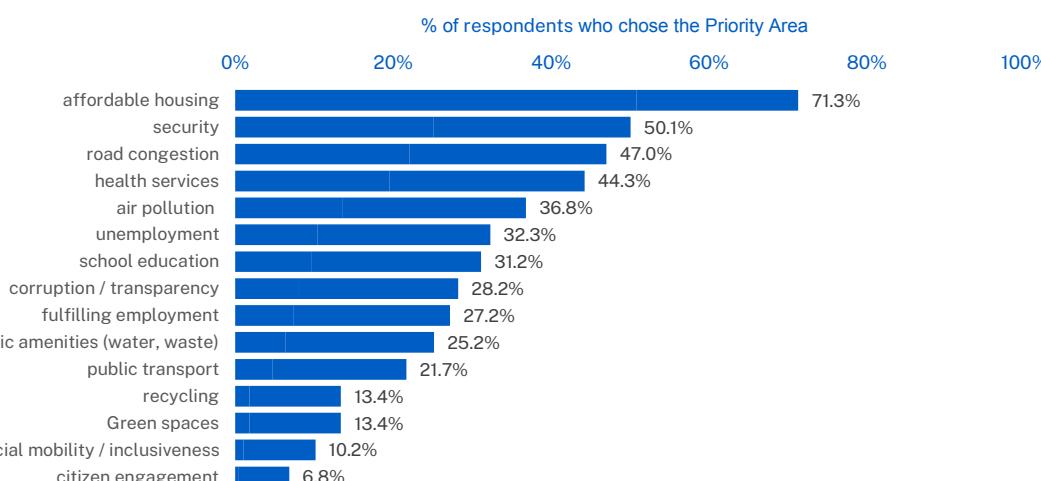
HDI 0.931
(Global Data Lab)



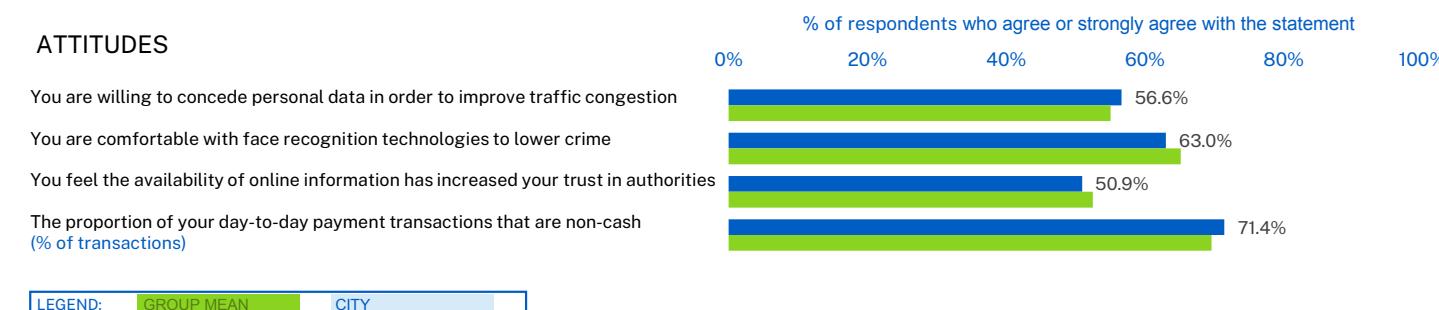
Country

USA	2019	2020	2021	2022	1 yr change
HDI	0.933	0.923	0.921	0.927	+0.006
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



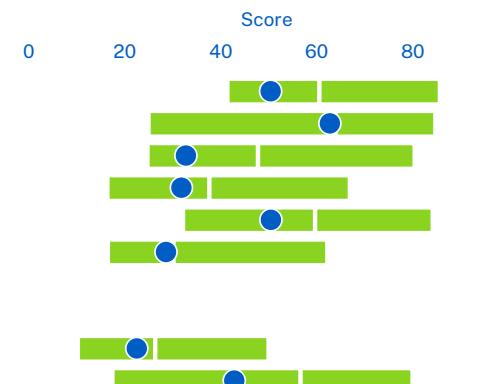
LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety

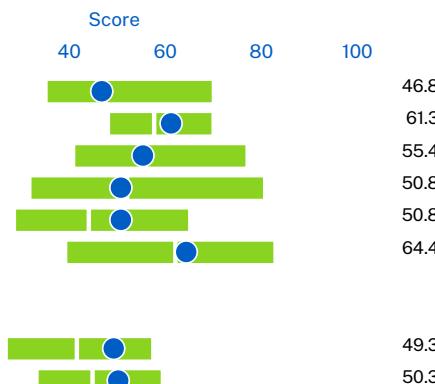
- Basic sanitation meets the needs of the poorest areas
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- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem



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



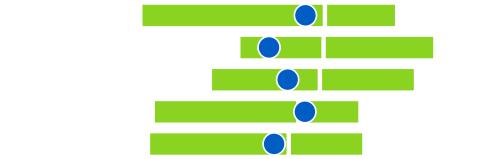
Activities

- 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



Luxembourg

SMART
CITY
RANKING
27

Out of 142



45 in 2023
Out of 141

SMART
CITY RATING

BBB

BB in 2023

FACTOR
RATINGS

A

STRUCTURES

BB

TECHNOLOGIES

2

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

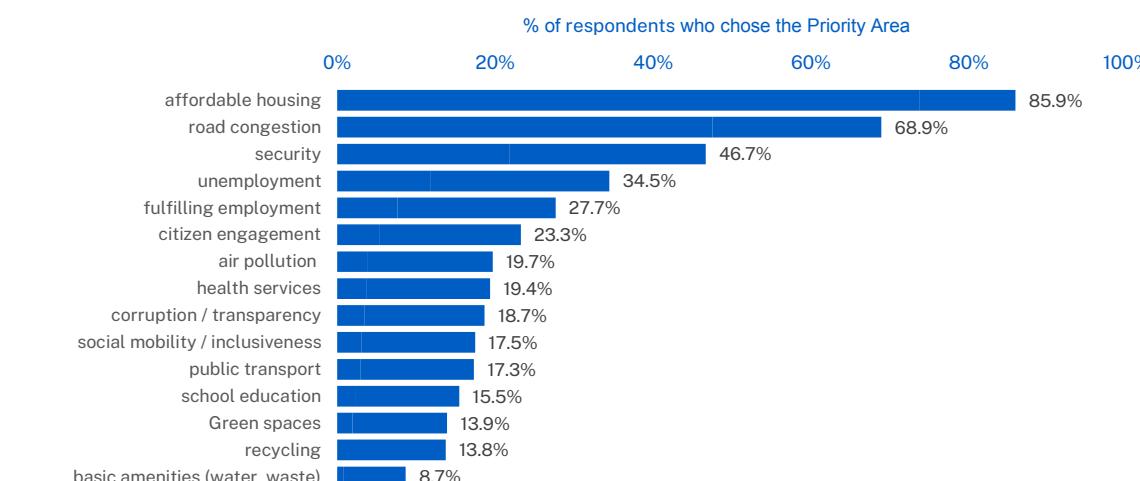
Population 120,000
(Eurostat)



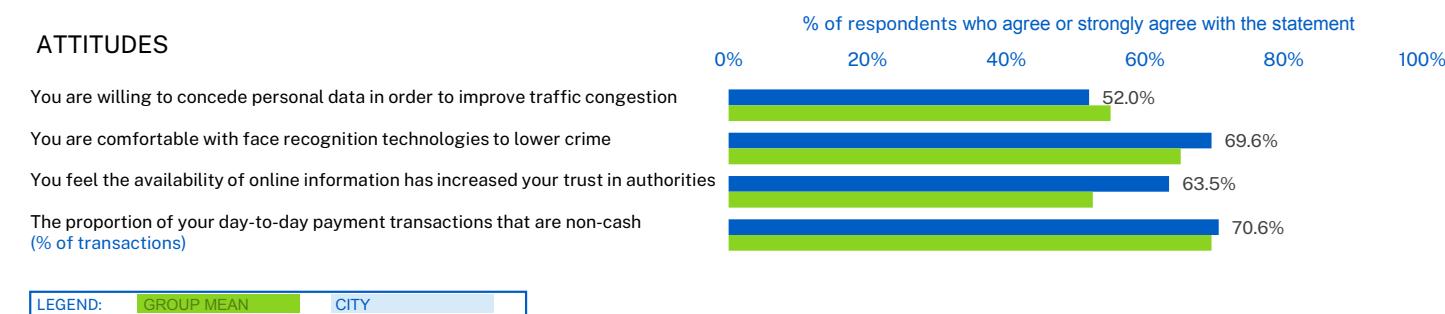
Country

	2019	2020	2021	2022	1 yr change
HDI	0.925	0.921	0.927	0.927	+0.000
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

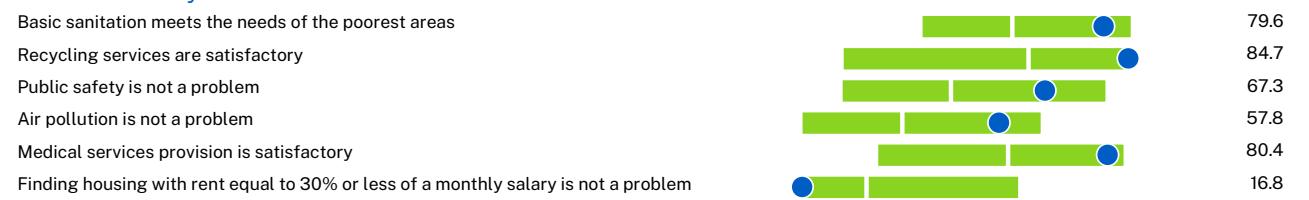


LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



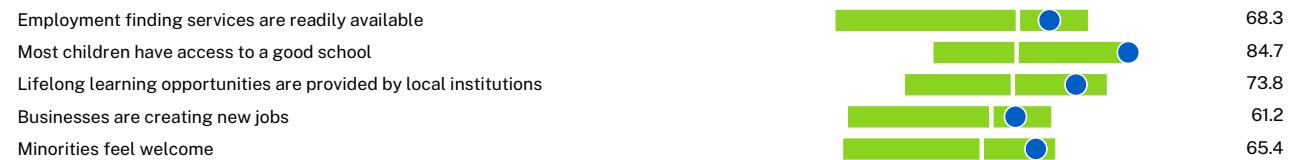
Mobility



Activities



Opportunities (Work & School)



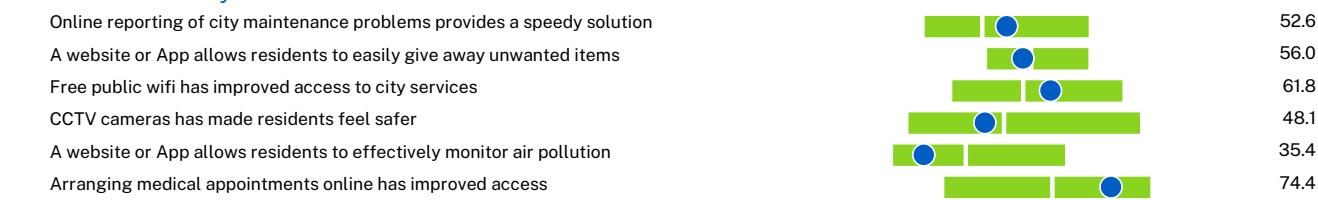
Governance



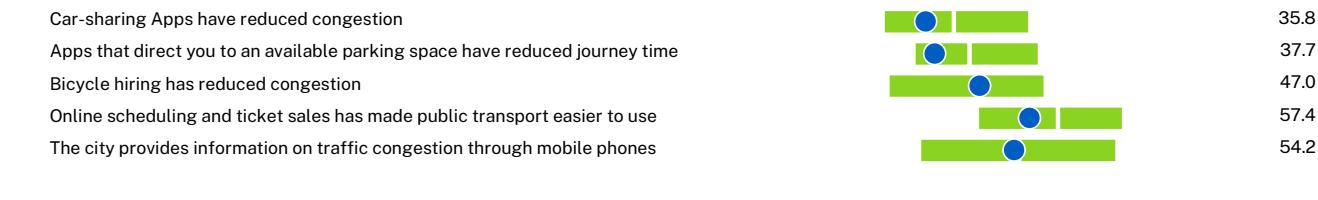
STRUCTURES

TECHNOLOGIES

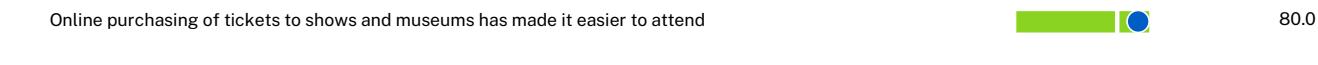
Health & Safety



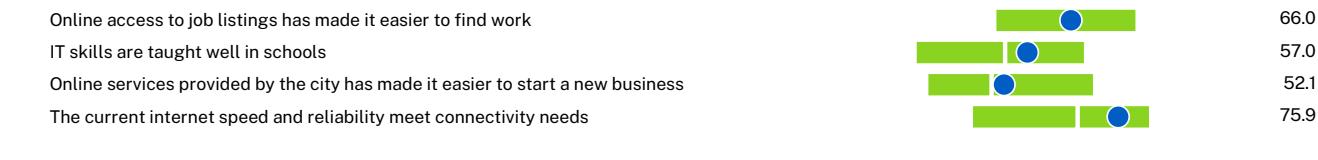
Mobility



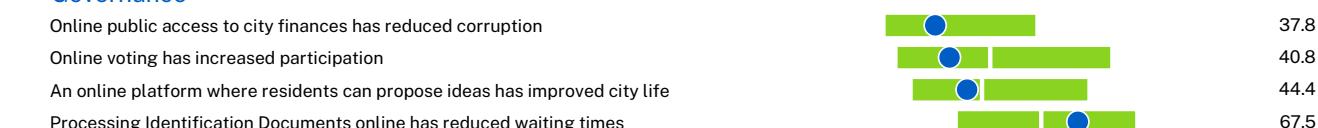
Activities



Opportunities (Work & School)



Governance



SMART CITY RANKING

61

Out of 142



64 in 2023
Out of 141

SMART CITY RATING

BB

BB in 2023

FACTOR RATINGS

BB

STRUCTURES

BBB

TECHNOLOGIES

GROUP

2

All ratings range from AAA to D

BACKGROUND INFORMATION

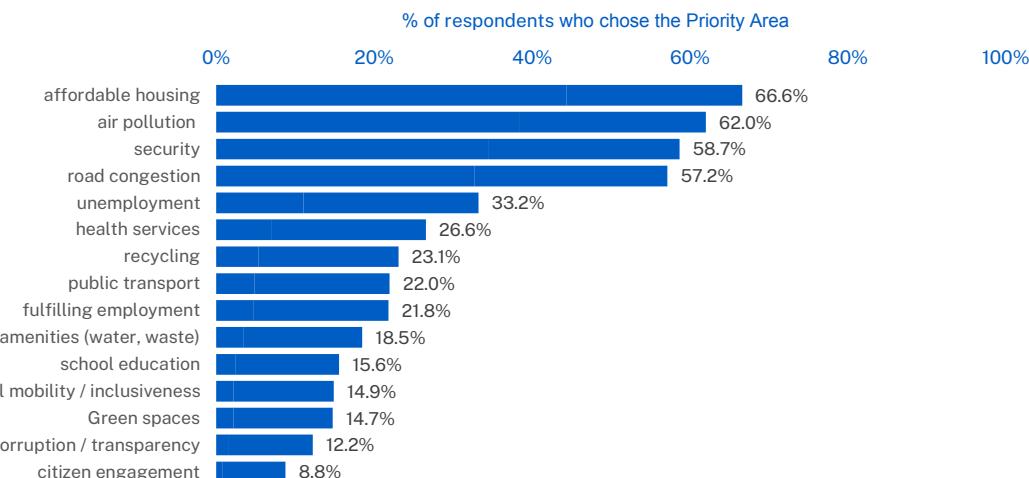
City

Population 1,080,000
(Eurostat)

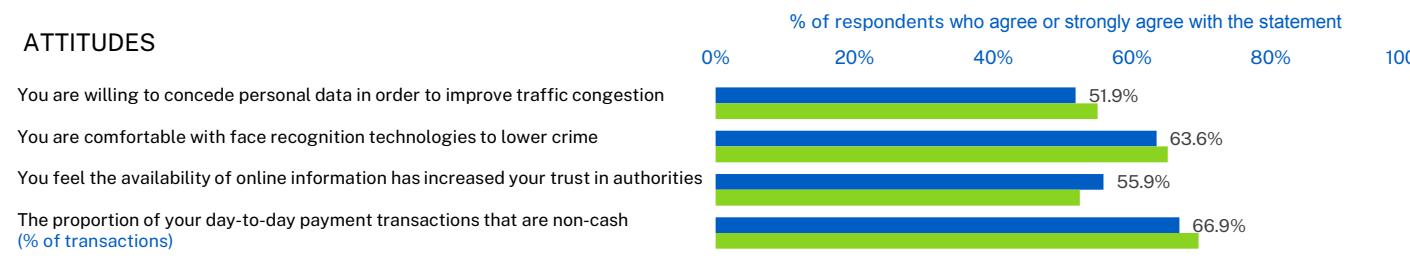
HDI 0.914
(Global Data Lab)



PRIORITY AREAS



ATTITUDES



LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

Health & Safety

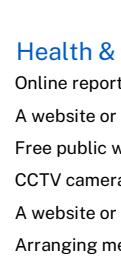
- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem



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

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

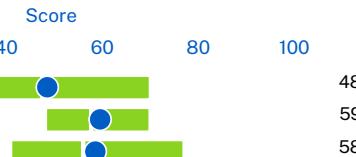
- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory



Activities

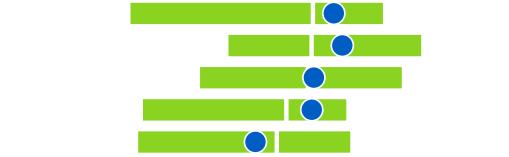
- Online purchasing of tickets to shows and museums has made it easier to attend

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



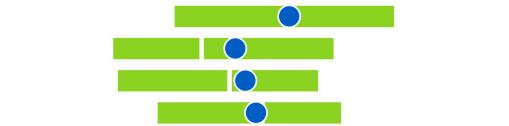
Opportunities (Work & School)

- 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

STRUCTURES

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

TECHNOLOGIES



Madrid

SMART
CITY
RANKING
35

Out of 142



37 in 2023
Out of 141

SMART
CITY RATING

BB

BB in 2023

FACTOR
RATINGS

BB

STRUCTURES

BBB

TECHNOLOGIES

GROUP

2

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 3,270,000
(Eurostat)

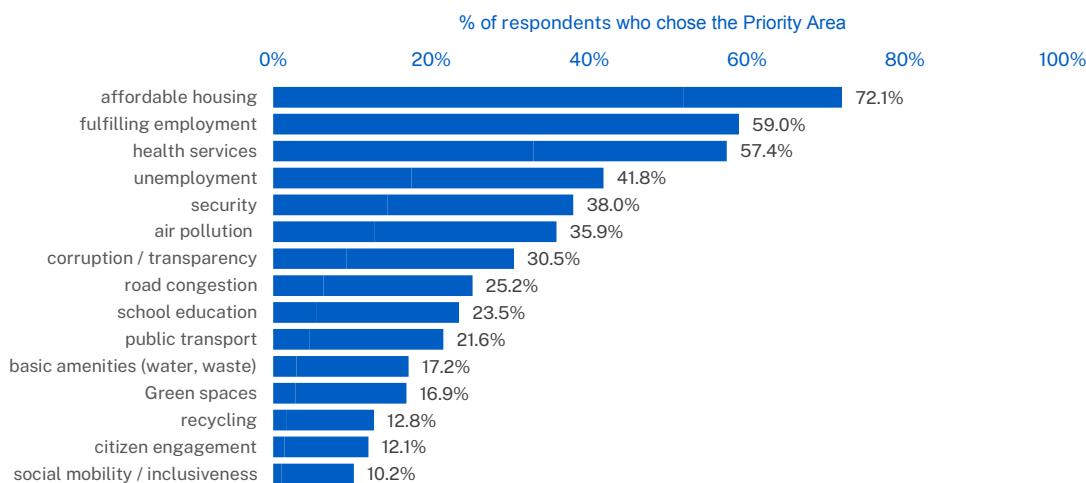
HDI 0.940
(Global Data Lab)



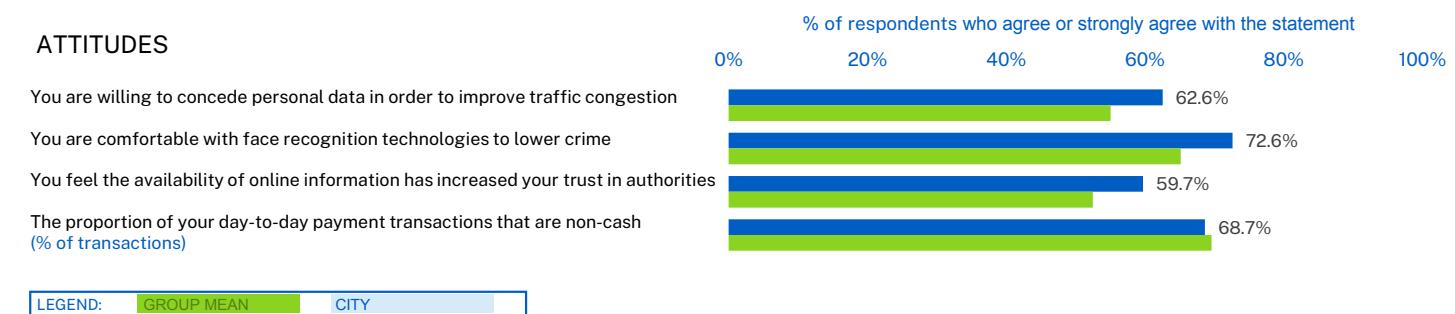
Country

Spain	2019	2020	2021	2022	1 yr change
HDI	0.904	0.894	0.904	0.911	+0.007
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: MIN CITY MEAN GROUP MAX

STRUCTURES

Score: 0 20 40 60 80 100

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: 0 20 40 60 80 100

LEGEND: MIN CITY MEAN GROUP MAX

Mobility

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

Score: 0 20 40 60 80 100

LEGEND: MIN CITY MEAN GROUP MAX

Activities

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

Score: 0 20 40 60 80 100

LEGEND: MIN CITY MEAN GROUP MAX

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

LEGEND: MIN CITY MEAN GROUP MAX

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

LEGEND: MIN CITY MEAN GROUP MAX

Activities

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

Score: 0 20 40 60 80 100

LEGEND: MIN CITY MEAN GROUP MAX

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

LEGEND: MIN CITY MEAN GROUP MAX

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

LEGEND: MIN CITY MEAN GROUP MAX

All ratings range
from AAA to D

Makassar

SMART
CITY
RANKING
115
Out of 142

114 in 2023
Out of 141

SMART
CITY RATING

CC

CC in 2023

FACTOR
RATINGS

CC

STRUCTURES

CC

TECHNOLOGIES

4

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

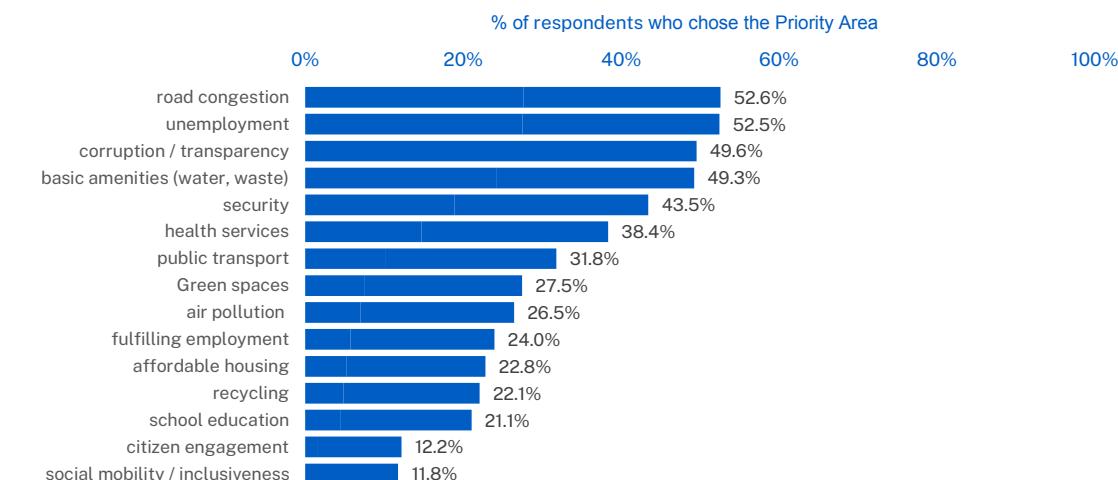
Population 1,580,000
(UN World Urbanization Prospects)
HDI 0.699
(Global Data Lab)



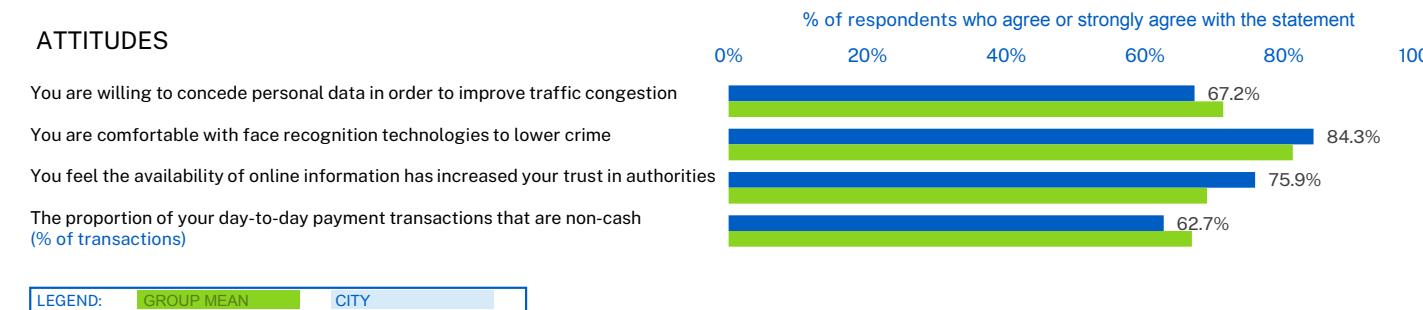
Country

Indonesia	2019	2020	2021	2022	1 yr change
HDI	0.718	0.712	0.707	0.713	+0.006
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



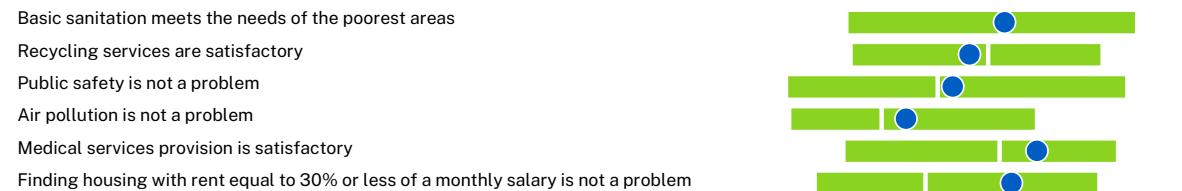
ATTITUDES



LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

Health & Safety



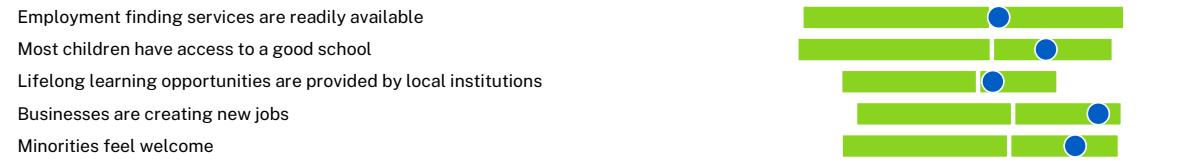
Mobility



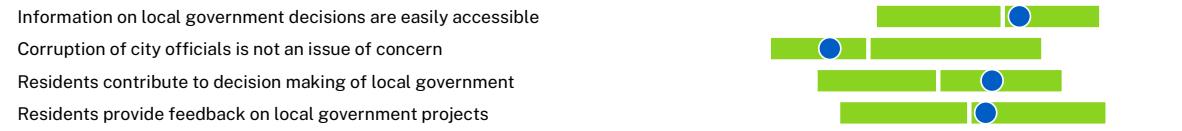
Activities



Opportunities (Work & School)

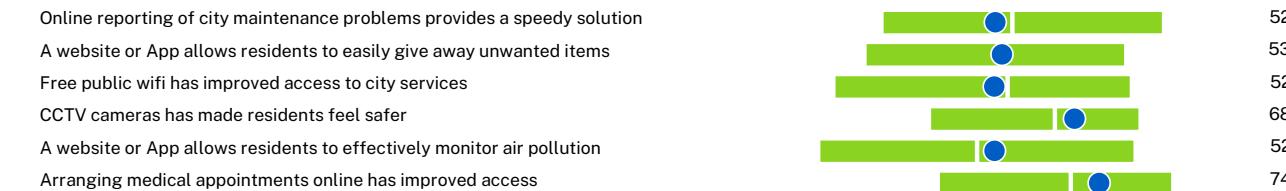


Governance

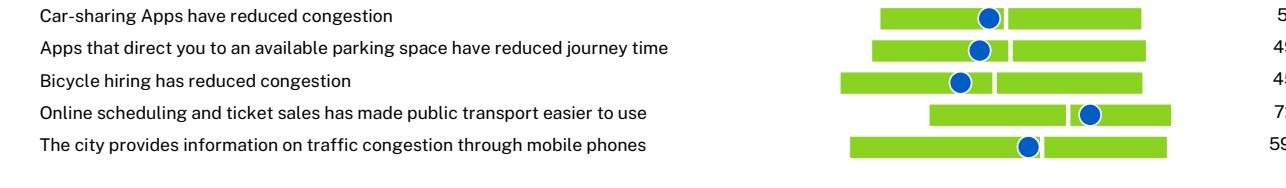


TECHNOLOGIES

Health & Safety



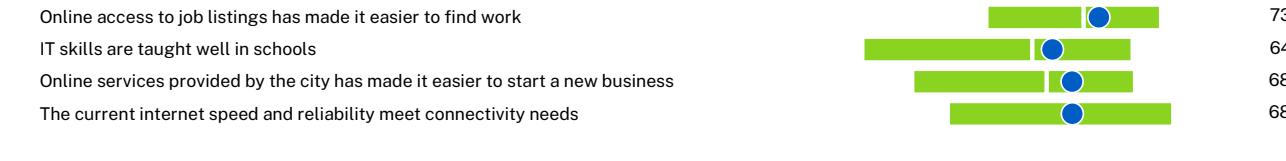
Mobility



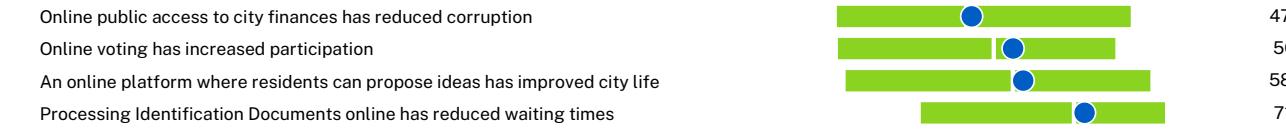
Activities



Opportunities (Work & School)



Governance



Manchester

SMART
CITY
RANKING

71

Out of 142



73 in 2023
Out of 141

SMART
CITY RATING

BB

BB in 2023

FACTOR
RATINGS

BB

STRUCTURES

BB

TECHNOLOGIES

2

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 550,000
(Eurostat)

HDI 0.915
(Global Data Lab)



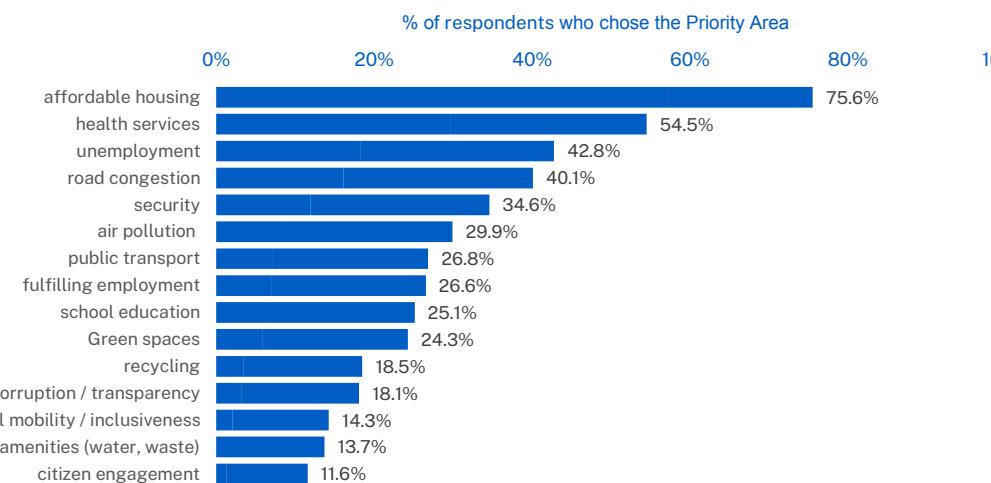
73 in 2023

Out of 141

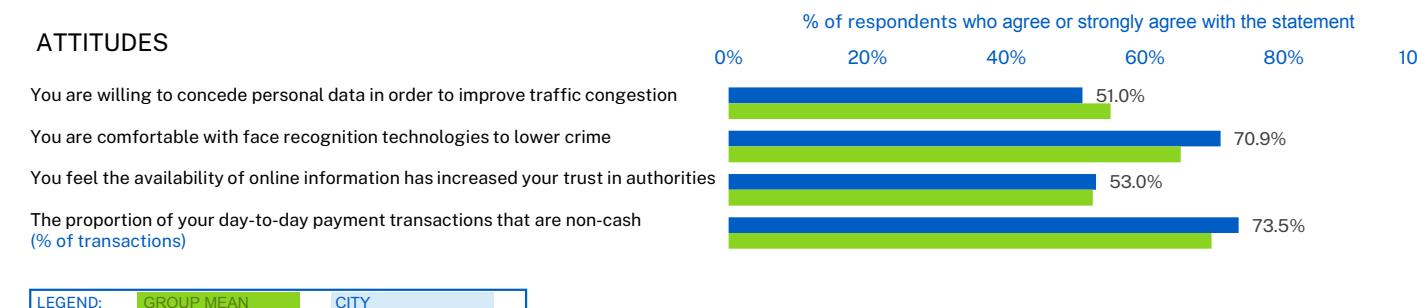
Country

United Kingdom	2019	2020	2021	2022	1 yr change
HDI	0.933	0.920	0.931	0.940	+0.009
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



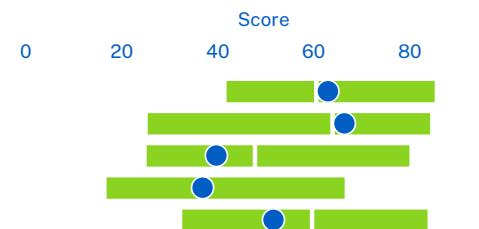
LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

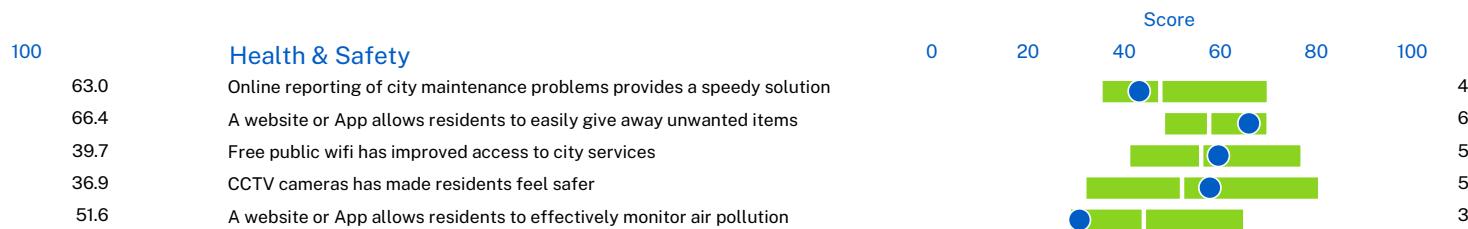
Health & Safety

- 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



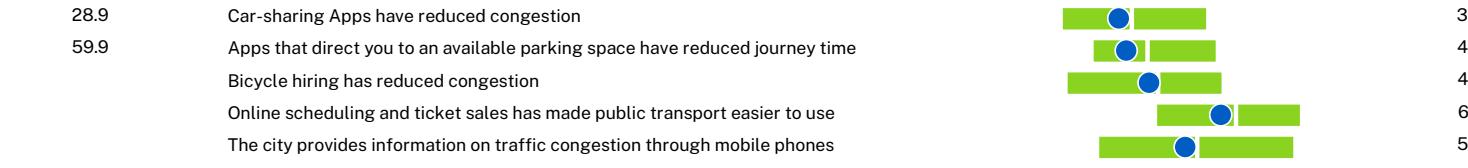
Mobility

- 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

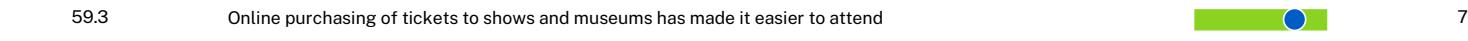


Activities

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

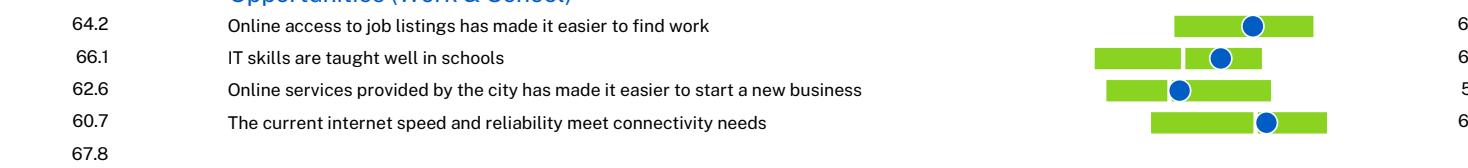
Activities

- 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

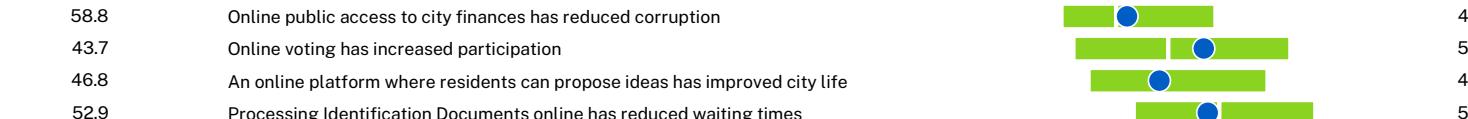


Governance

- 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



Manila

SMART
CITY
RANKING
121

Out of 142



115 in 2023
Out of 141

SMART
CITY RATING

C

C in 2023

FACTOR
RATINGS

C

STRUCTURES

C

TECHNOLOGIES

4

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 1,850,000
(UN World Urbanization Prospects)

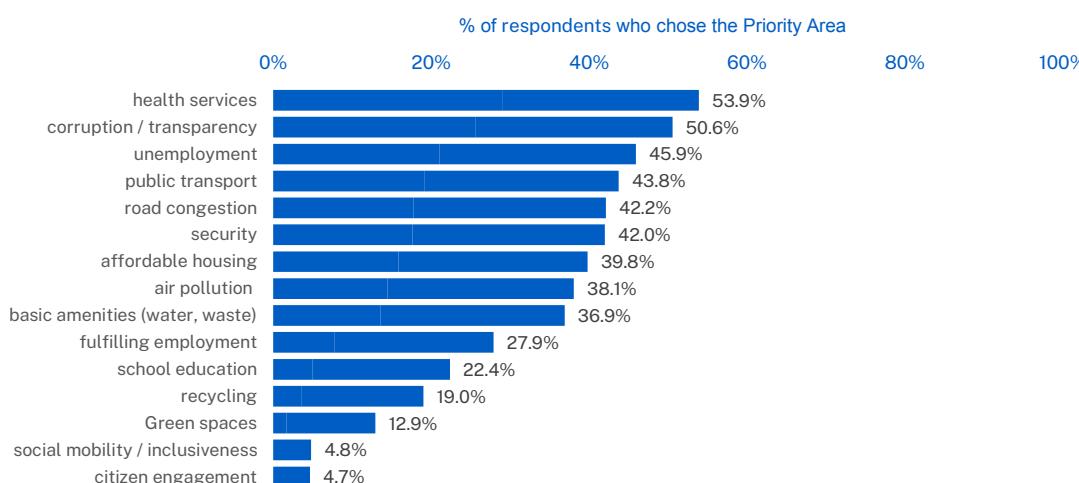
HDI 0.760
(Global Data Lab)



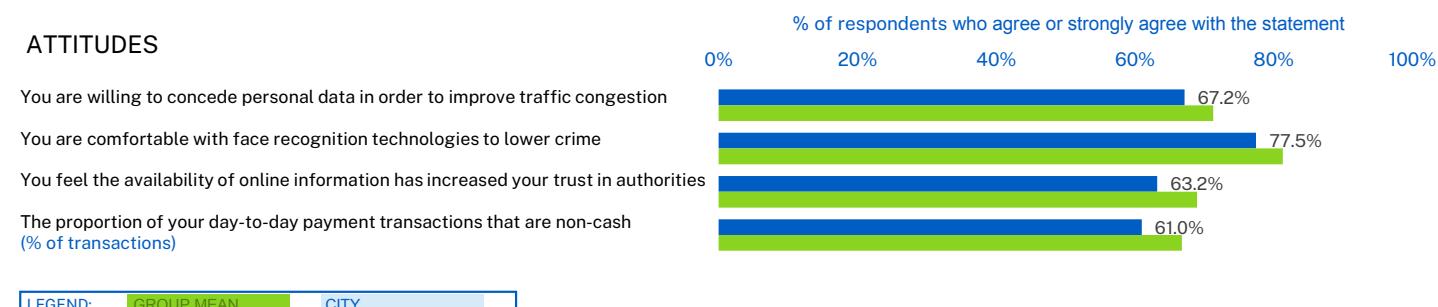
Country

Philippines	2019	2020	2021	2022	1 yr change
HDI	0.714	0.705	0.692	0.710	+0.018
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

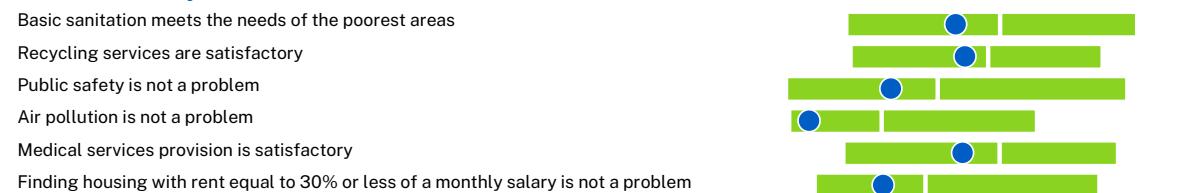


LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



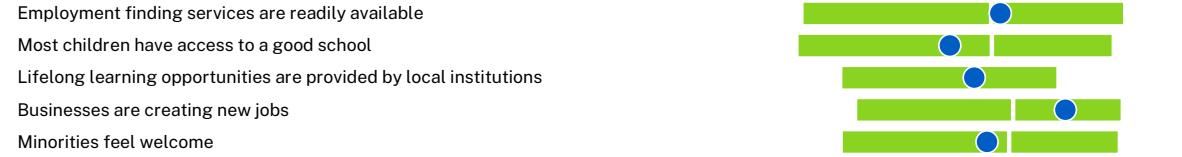
Mobility



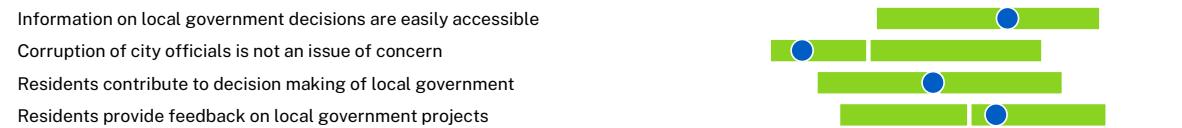
Activities



Opportunities (Work & School)



Governance

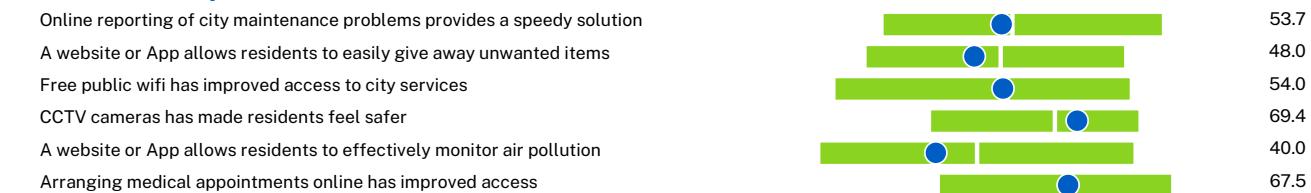


LEGEND: MIN CITY MEAN GROUP MAX

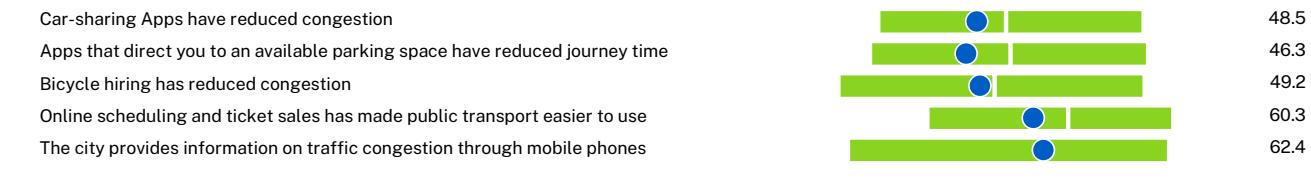
TECHNOLOGIES

LEGEND: MIN CITY MEAN GROUP MAX

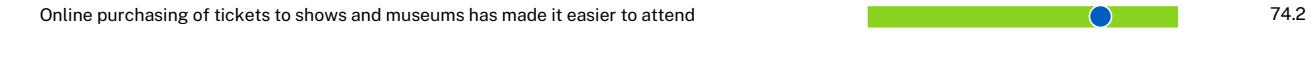
Health & Safety



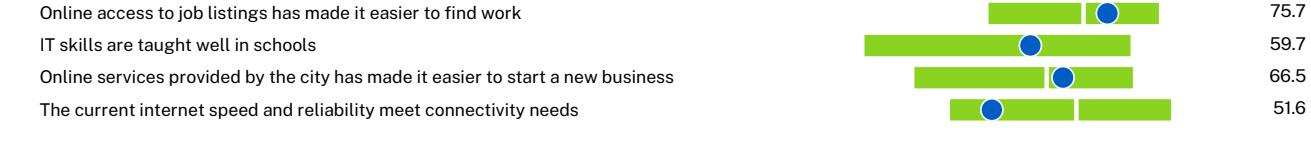
Mobility



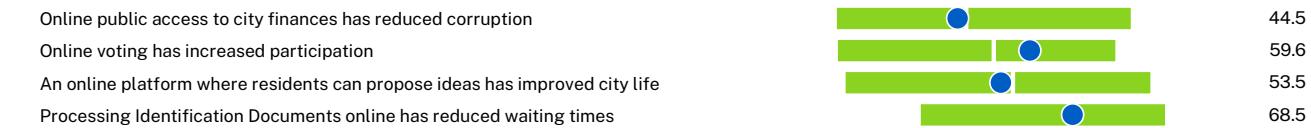
Activities



Opportunities (Work & School)



Governance



All ratings range
from AAA to D

Marseille

SMART
CITY
RANKING
104
Out of 142

101 in 2023
Out of 141

SMART
CITY RATING

CC

CC in 2023

FACTOR
RATINGS

CC

STRUCTURES

CC

TECHNOLOGIES

GROUP

3

All ratings range
from AAA to D

BACKGROUND INFORMATION

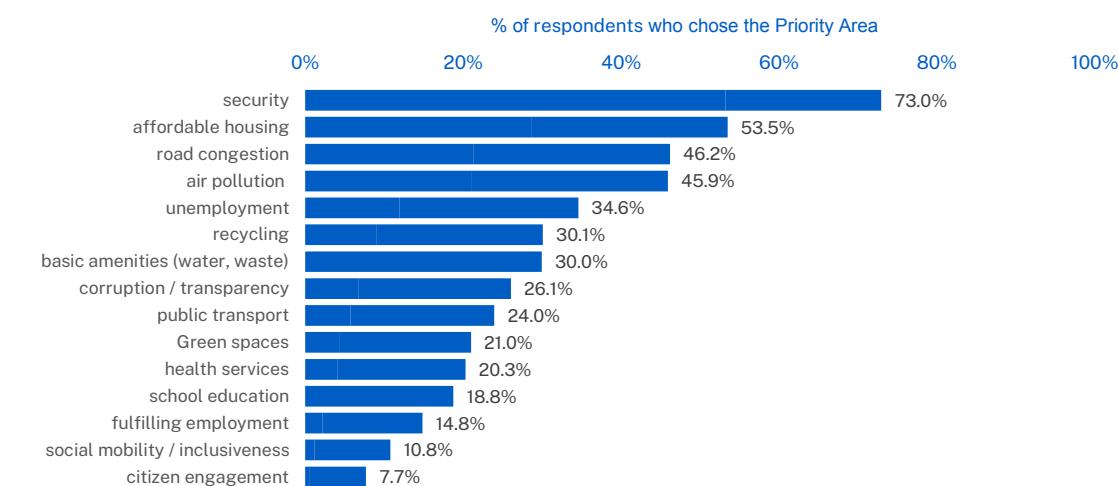
City

Population 900,000
(Eurostat)

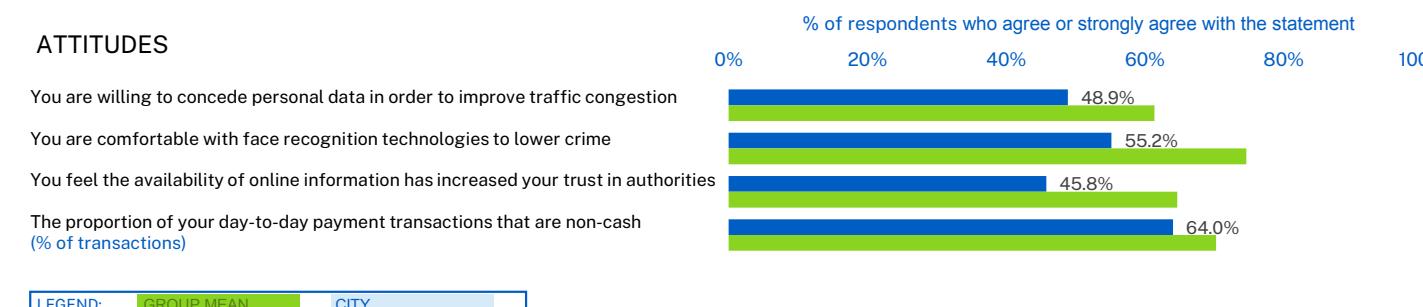
HDI 0.899
(Global Data Lab)



PRIORITY AREAS



ATTITUDES



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

TECHNOLOGIES

Mobility

Traffic congestion is not a problem
Public transport is satisfactory

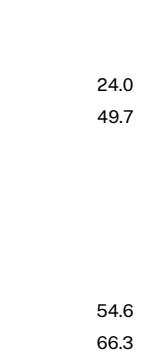


Mobility

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



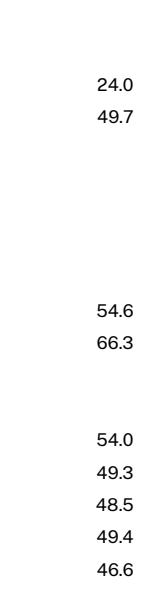
Activities

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

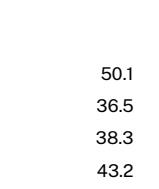


Opportunities (Work & School)

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

SMART CITY RANKING

52

Out of 142

52 in 2023
Out of 141

SMART CITY RATING

B

B in 2023

FACTOR RATINGS

B

STRUCTURES

B

TECHNOLOGIES

3

All ratings range from AAA to D

BACKGROUND INFORMATION

City

Population 2,110,000
(UN World Urbanization Prospects)

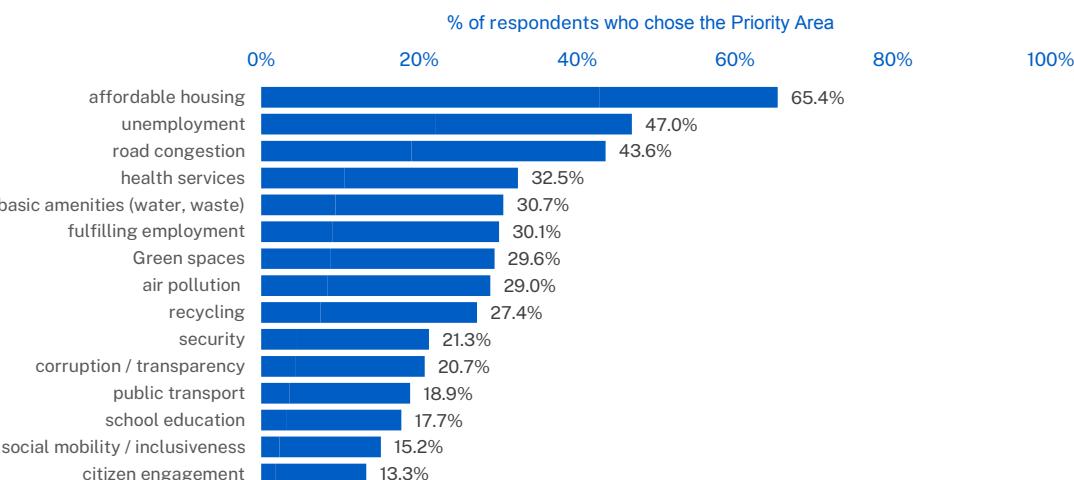
HDI 0.871
(Global Data Lab)



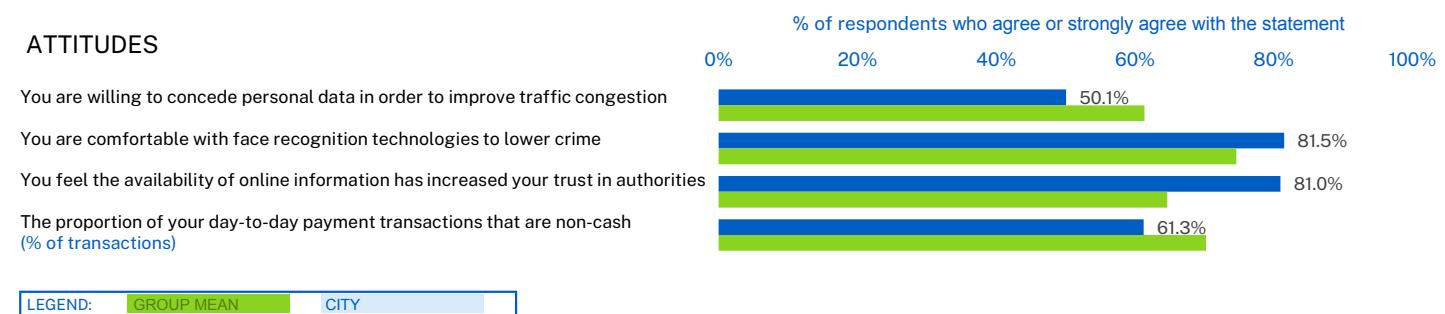
Country

Saudi Arabia	2019	2020	2021	2022	1 yr change
HDI	0.862	0.861	0.867	0.875	+0.008
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

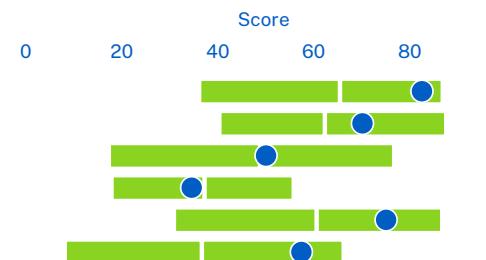


LEGEND: MIN CITY MEAN GROUP MAX

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
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LEGEND: MIN CITY MEAN GROUP MAX

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)

- 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

Medan

SMART
CITY
RANKING
112
Out of 142

112 in 2023
Out of 141

SMART
CITY RATING

CC
CC in 2023

FACTOR
RATINGS

CC

STRUCTURES

CC

TECHNOLOGIES

GROUP

4

All ratings range
from AAA to D

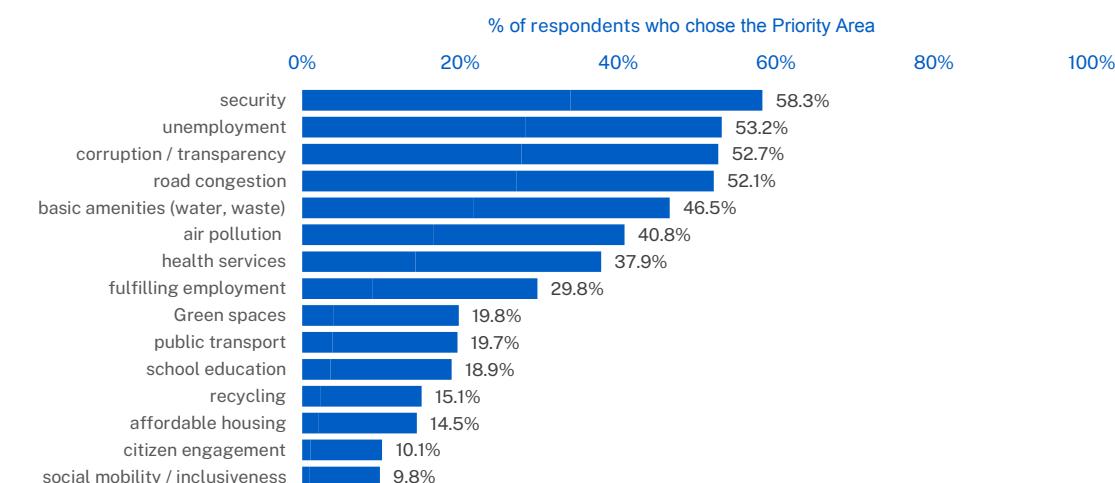
BACKGROUND INFORMATION

City

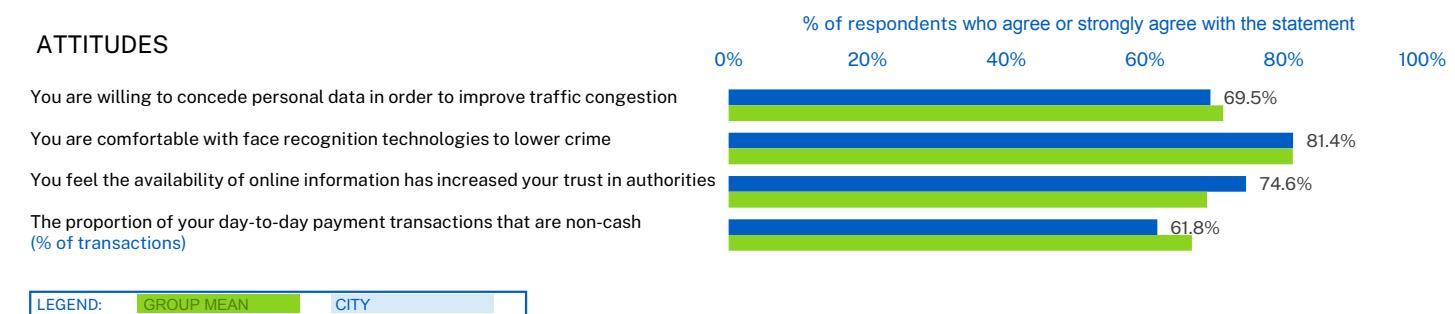
Population 2,340,000
(UN World Urbanization Prospects)
HDI 0.711
(Global Data Lab)



PRIORITY AREAS



ATTITUDES



LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

Health & Safety

Basic sanitation meets the needs of the poorest areas
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Public safety is not a problem
Air pollution is not a problem
Medical services provision is satisfactory
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Health & Safety

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CCTV cameras has made residents feel safer
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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
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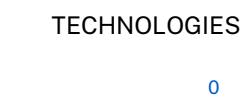
Activities

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



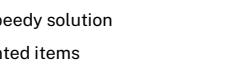
Opportunities (Work & School)

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



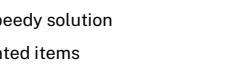
Governance

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

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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



Medellin

SMART
CITY
RANKING
119
Out of 142

118 in 2023
Out of 141

SMART
CITY RATING

C

C in 2023

FACTOR
RATINGS

C

STRUCTURES

C

TECHNOLOGIES

GROUP

4

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 2,370,000
(UN Data)

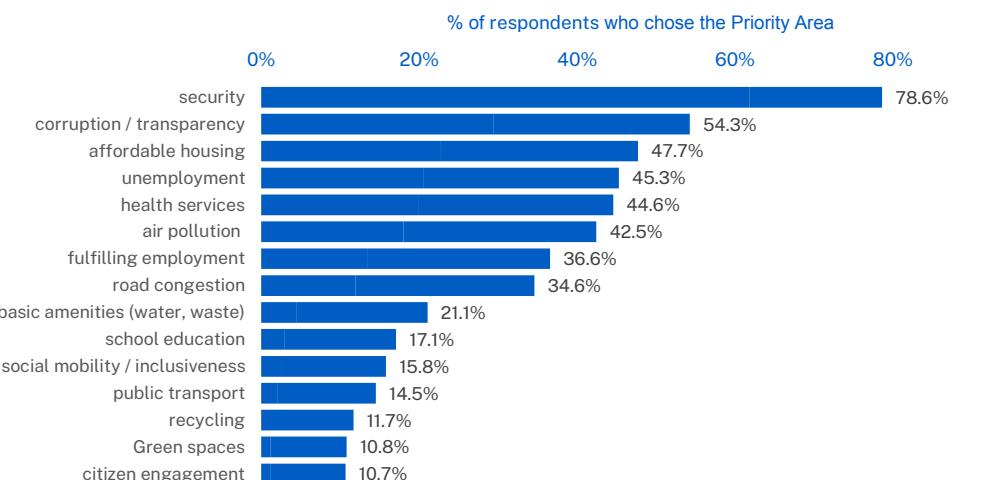
HDI 0.757
(Global Data Lab)



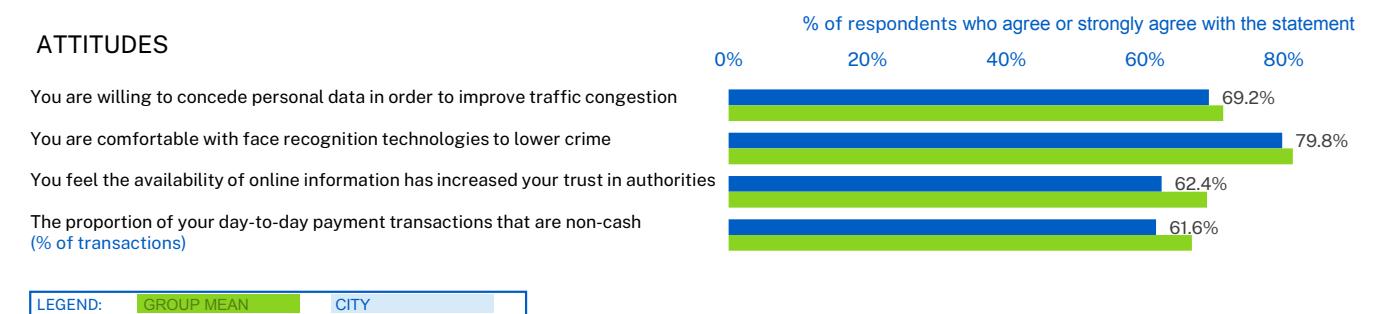
Country

Colombia	2019	2020	2021	2022	1 yr change
HDI	0.768	0.756	0.752	0.758	+0.006
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: MIN CITY MEAN GROUP MAX

STRUCTURES

Health & Safety

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TECHNOLOGIES

Health & Safety

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Mobility

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



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
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- The city provides information on traffic congestion through mobile phones



Activities

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



TECHNOLOGIES

Activities

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



Opportunities (Work & School)

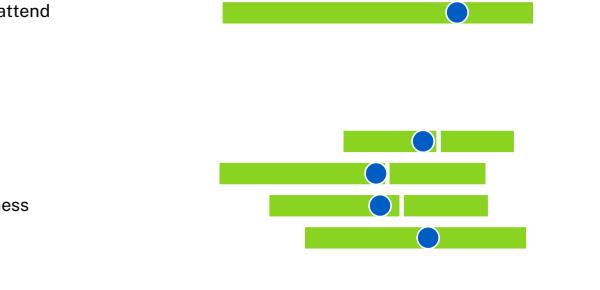
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- Minorities feel welcome



TECHNOLOGIES

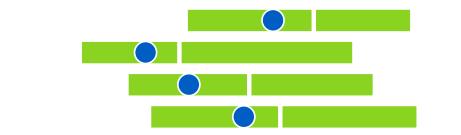
Opportunities (Work & School)

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- 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

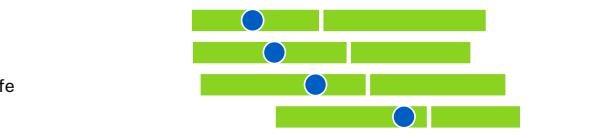
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TECHNOLOGIES

Governance

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Medina

SMART
CITY
RANKING

74

Out of 142



85 in 2023
Out of 141

SMART
CITY RATING

CCC

CCC in 2023

FACTOR
RATINGS

B

STRUCTURES

CCC

TECHNOLOGIES

3

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

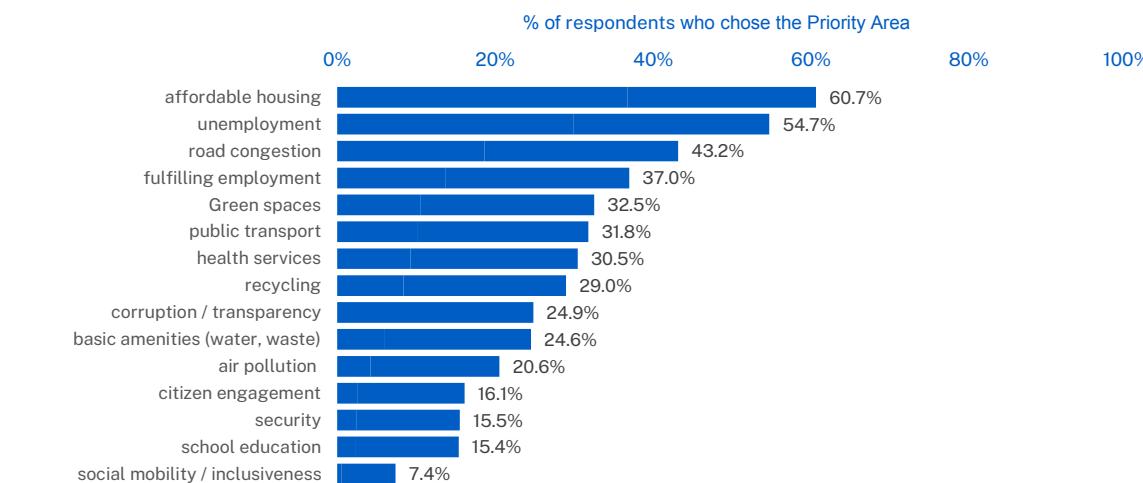
Population 150,000
(UN Data)



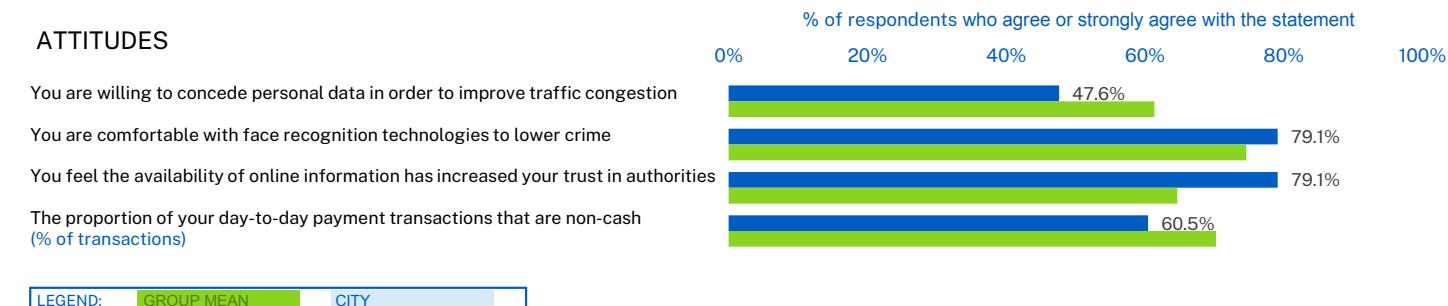
Country

Saudi Arabia	2019	2020	2021	2022	1 yr change
HDI	0.862	0.861	0.867	0.875	+0.008
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: MIN CITY MEAN GROUP MAX

STRUCTURES

Health & Safety

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- 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
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- Residents contribute to decision making of local government
- Residents provide feedback on local government projects



TECHNOLOGIES

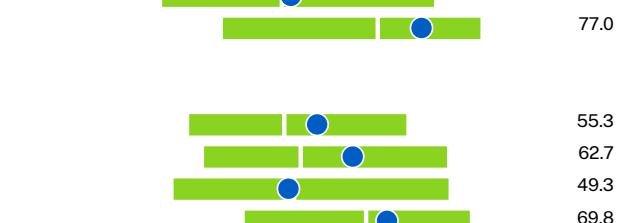
Health & Safety

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- 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



Melbourne

SMART
CITY
RANKING
33

Out of 142



31 in 2023
Out of 141

SMART
CITY RATING



A in 2023

FACTOR
RATINGS

BBB

STRUCTURES



TECHNOLOGIES



All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 4,200,000
(UN Data)

HDI 0.948
(Global Data Lab)

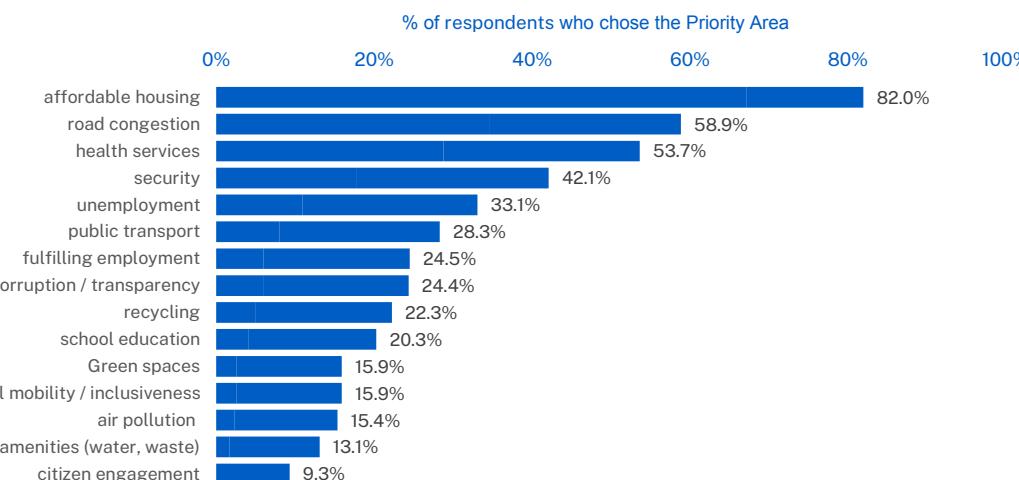


Map tiles by Stamen Design CC BY 3.0 Map Data © OpenStreetMap

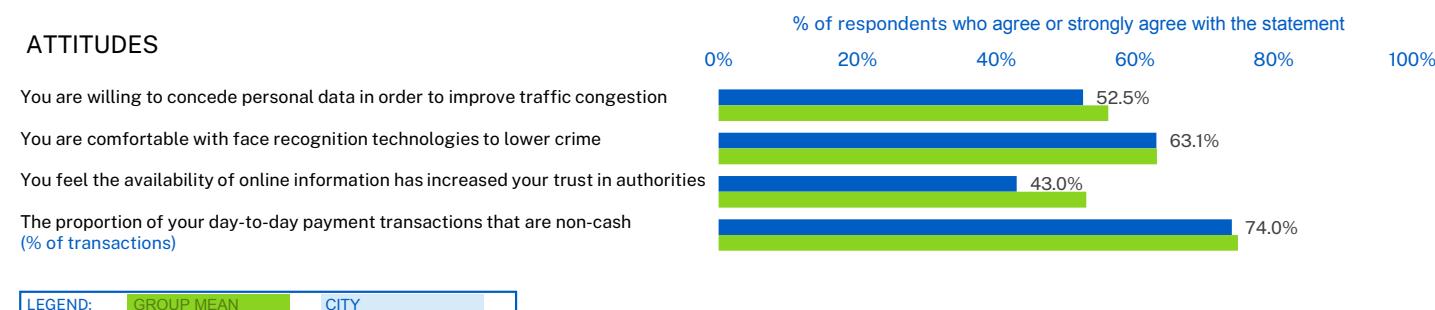
Country

Australia	2019	2020	2021	2022	1 yr change
HDI	0.941	0.948	0.949	0.946	-0.003
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

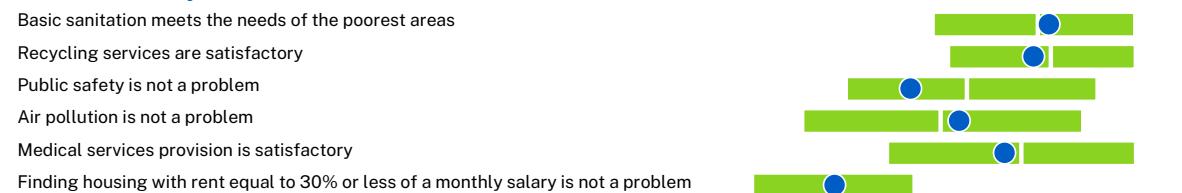


LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



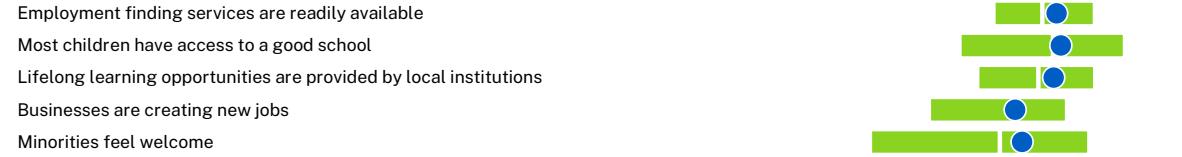
Mobility



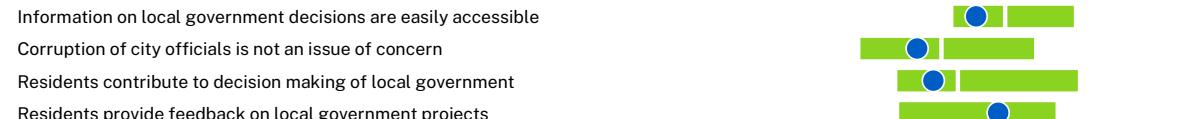
Activities



Opportunities (Work & School)



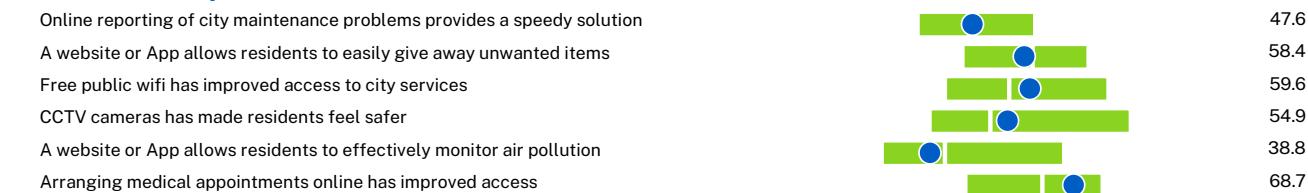
Governance



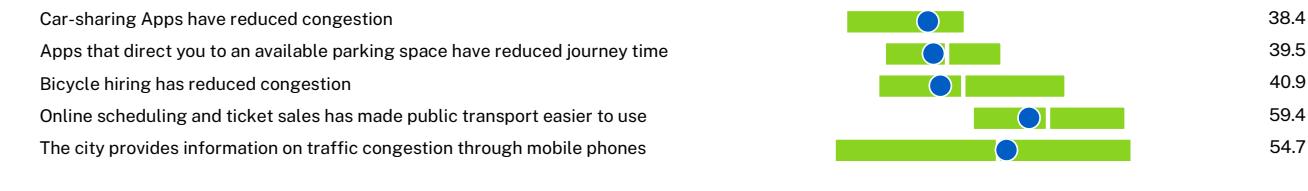
TECHNOLOGIES

Score

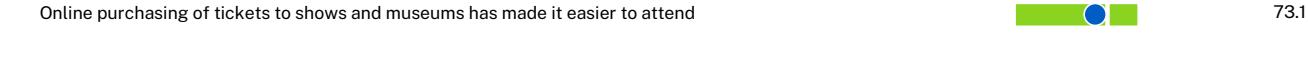
Health & Safety



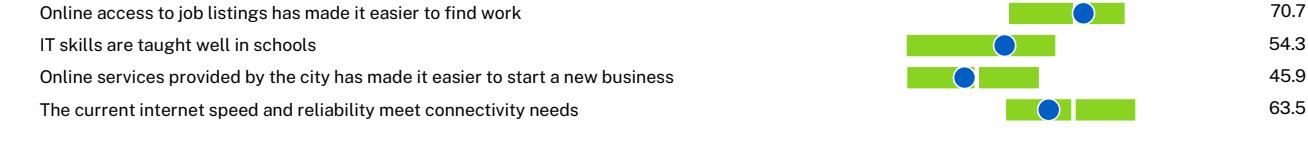
Mobility



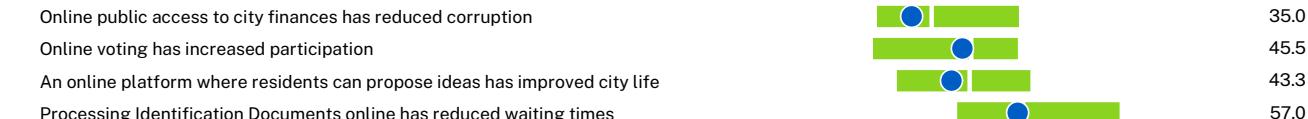
Activities



Opportunities (Work & School)



Governance



All ratings range
from AAA to D

Mexico City

SMART
CITY
RANKING
122

Out of 142



121 in 2023
Out of 141

SMART
CITY RATING

C

C in 2023

FACTOR
RATINGS

D

STRUCTURES

C

TECHNOLOGIES

4

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 21,780,000
(UN World Urbanization Prospects)

HDI 0.815
(Global Data Lab)

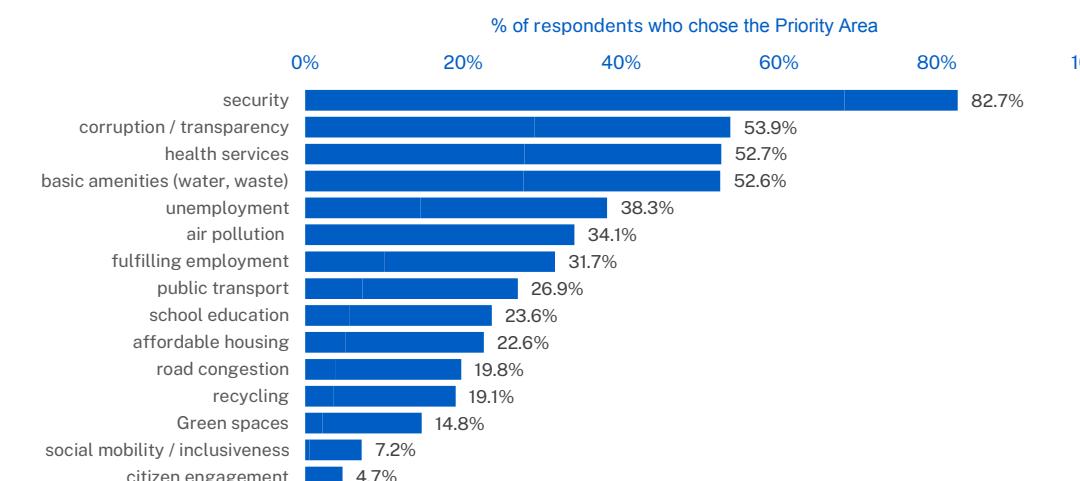


Map tiles by Stamen Design CC BY 3.0 Map Data © OpenStreetMap

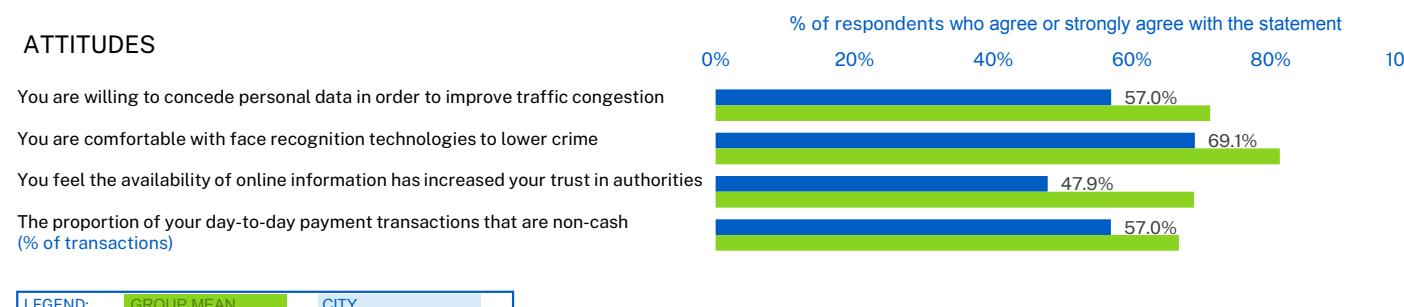
Country

Mexico	2019	2020	2021	2022	1 yr change
HDI	0.781	0.757	0.757	0.781	+0.024
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

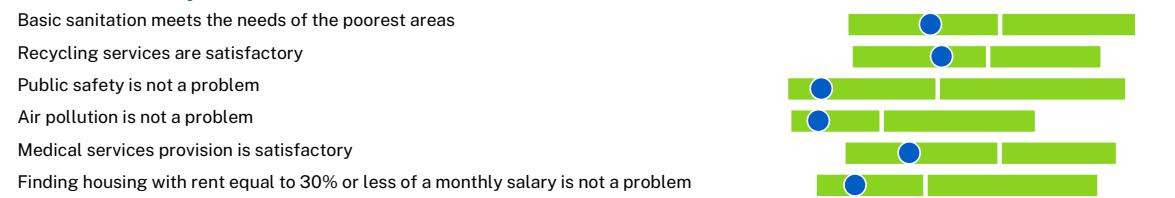


LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



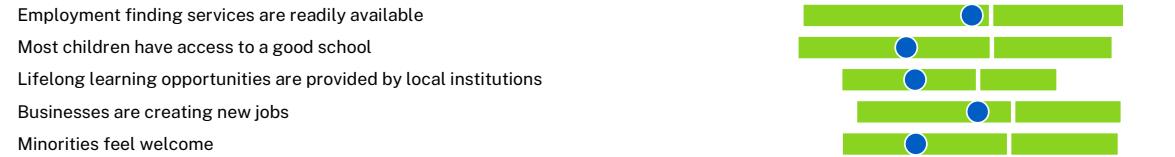
Mobility



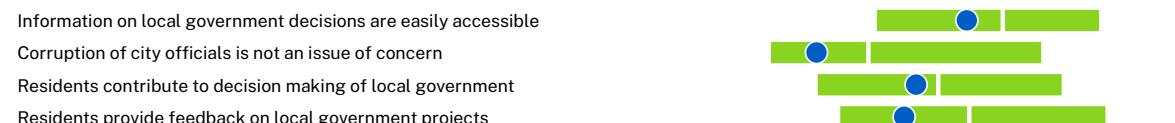
Activities



Opportunities (Work & School)



Governance



% of respondents who chose the Priority Area

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

security 82.7%

corruption / transparency 53.9%

health services 52.7%

basic amenities (water, waste) 52.6%

unemployment 38.3%

air pollution 34.1%

fulfilling employment 31.7%

public transport 26.9%

school education 23.6%

affordable housing 22.6%

road congestion 19.8%

recycling 19.1%

Green spaces 14.8%

social mobility / inclusiveness 7.2%

citizen engagement 4.7%

% of respondents who agree or strongly agree with the statement

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

You are willing to concede personal data in order to improve traffic congestion 57.0%

You are comfortable with face recognition technologies to lower crime 69.1%

You feel the availability of online information has increased your trust in authorities 47.9%

The proportion of your day-to-day payment transactions that are non-cash (% of transactions) 57.0%

LEGEND: MIN CITY MEAN GROUP MAX

TECHNOLOGIES

Score 0 20 40 60 80 100

Health & Safety 41.8

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 42.6

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 71.5

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

Opportunities (Work & School) 60.6

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 35.0

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

Milan

SMART
CITY
RANKING
91

Out of 142



82 in 2023
Out of 141

SMART
CITY RATING



BB in 2023

FACTOR
RATINGS



STRUCTURES

TECHNOLOGIES



GROUP
2

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

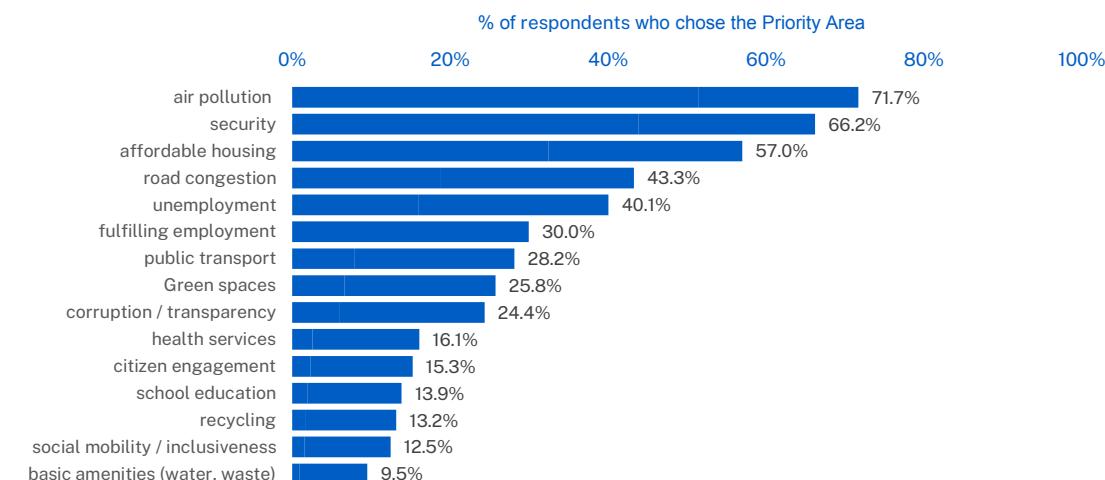
Population 1,410,000
(Eurostat)



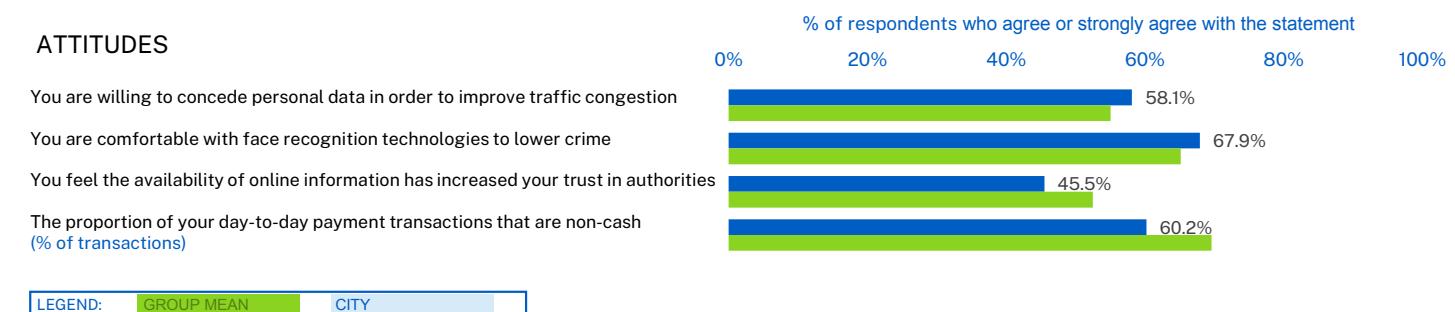
Country

Italy	2019	2020	2021	2022	1 yr change
HDI	0.899	0.892	0.899	0.906	+0.007
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



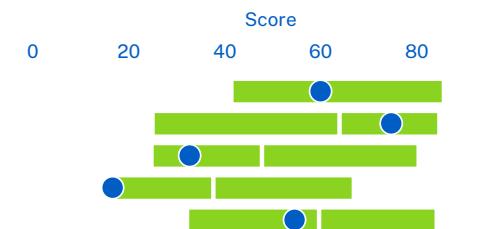
LEGEND: GROUP MEAN CITY

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



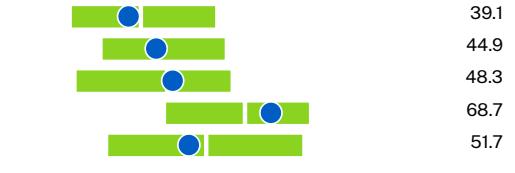
Mobility

- 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



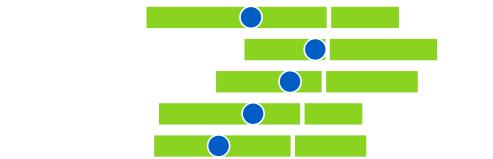
Activities

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



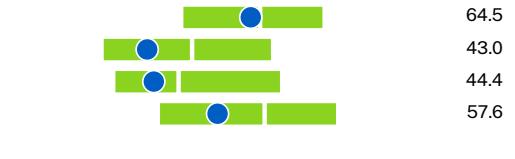
Opportunities (Work & School)

- 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



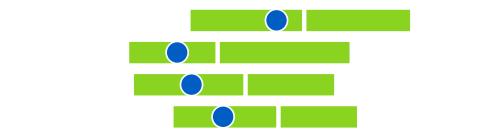
Opportunities (Work & School)

- 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



Montreal

SMART CITY RANKING
80
Out of 142

69 in 2023
Out of 141

SMART CITY RATING

BB

BB in 2023

FACTOR RATINGS

BB

STRUCTURES

B

TECHNOLOGIES

2

All ratings range from AAA to D

BACKGROUND INFORMATION

City

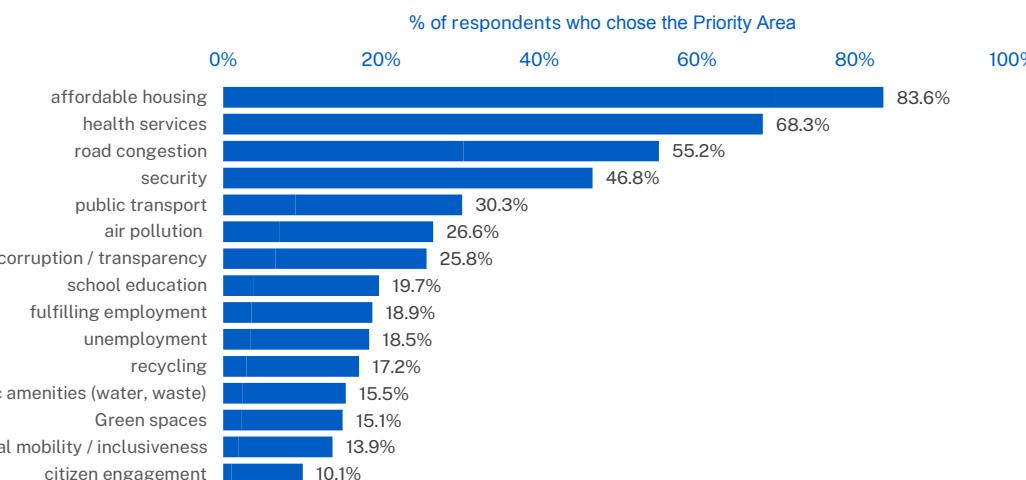
Population 1,700,000
(UN Data)



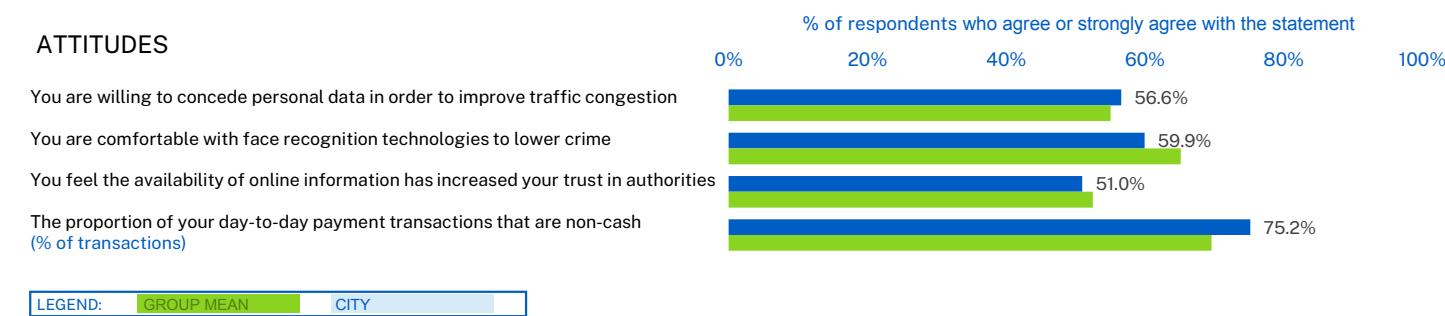
Country

Canada	2019	2020	2021	2022	1 yr change
HDI	0.932	0.928	0.934	0.935	+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

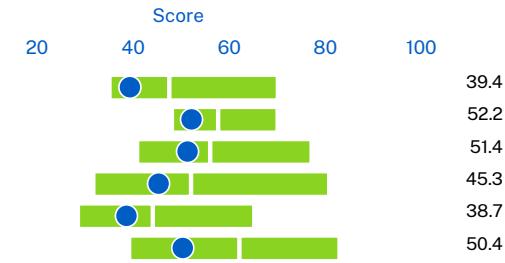
- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem



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



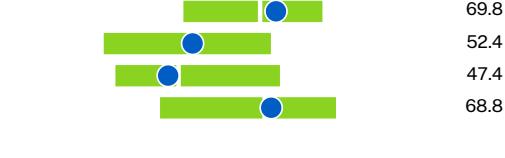
Opportunities (Work & School)

- 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



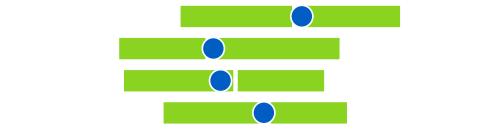
Opportunities (Work & School)

- 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



Mumbai

SMART
CITY
RANKING
107
Out of 142



109 in 2023
Out of 141

SMART
CITY RATING

CC

CC in 2023

FACTOR
RATINGS

CC

STRUCTURES

CCC

TECHNOLOGIES

GROUP
4

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 20,410,000
(UN World Urbanization Prospects)

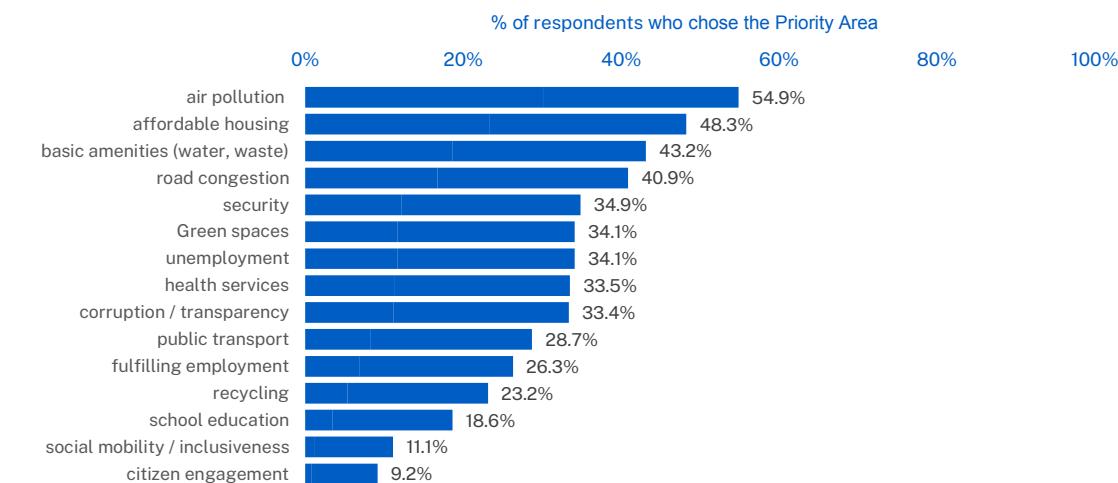
HDI 0.688
(Global Data Lab)



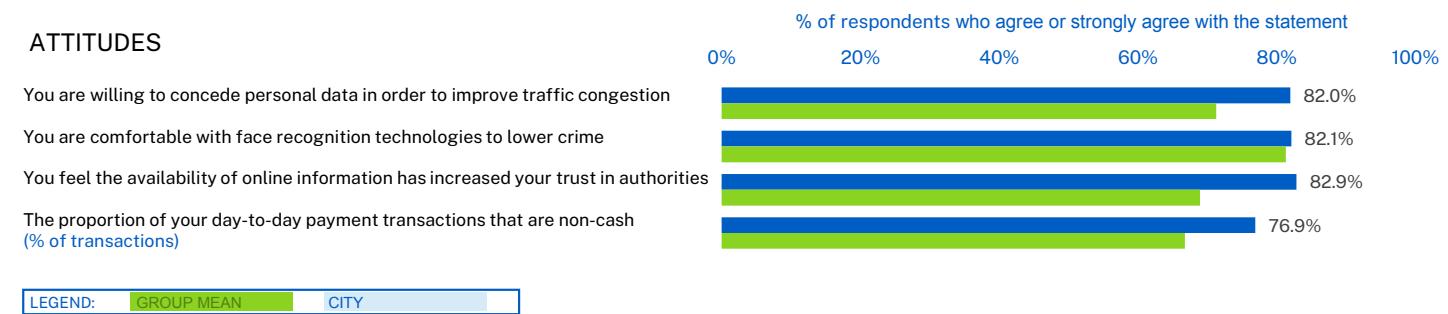
Country

India	2019	2020	2021	2022	1 yr change
HDI	0.638	0.638	0.633	0.644	+0.011
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

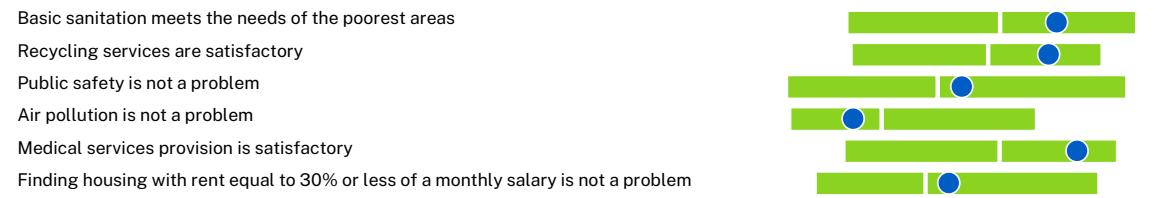


LEGEND: GROUP MEAN CITY

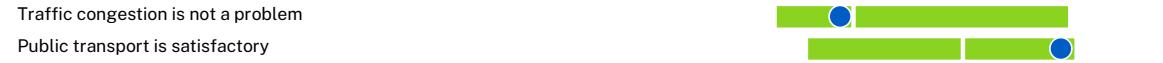
STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



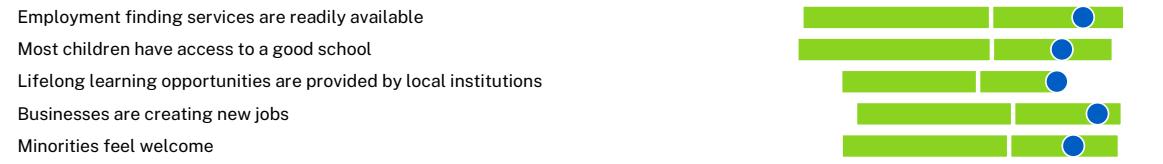
Mobility



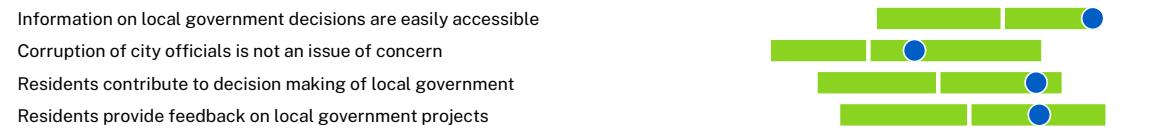
Activities



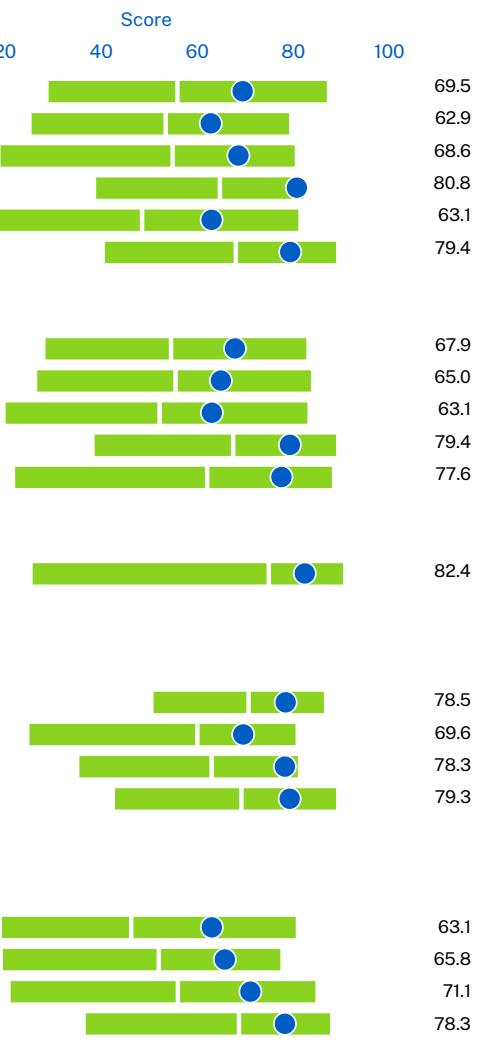
Opportunities (Work & School)



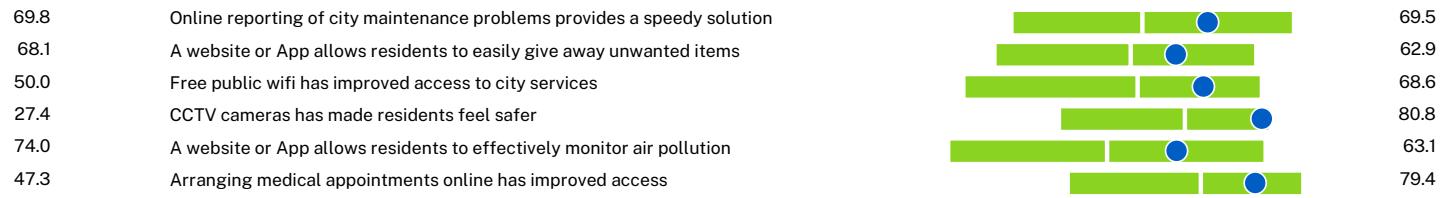
Governance



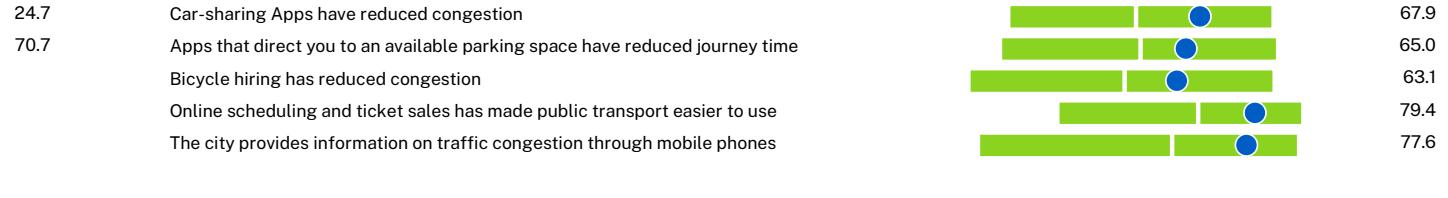
TECHNOLOGIES



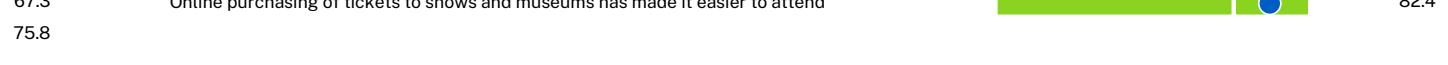
Health & Safety



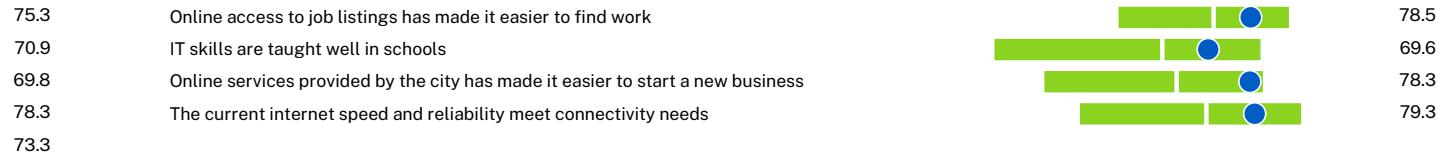
Mobility



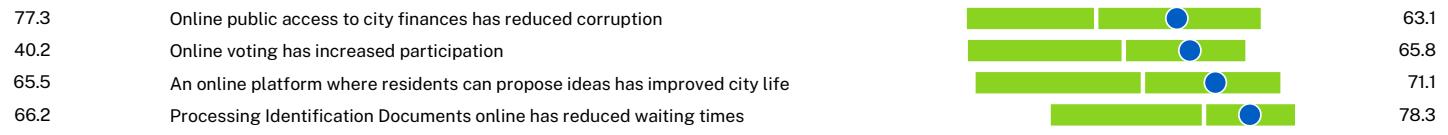
Activities



Opportunities (Work & School)



Governance



Munich

SMART
CITY
RANKING
21

Out of 142



20 in 2023
Out of 141

SMART
CITY RATING



AA in 2023

FACTOR
RATINGS



STRUCTURES



TECHNOLOGIES

1

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

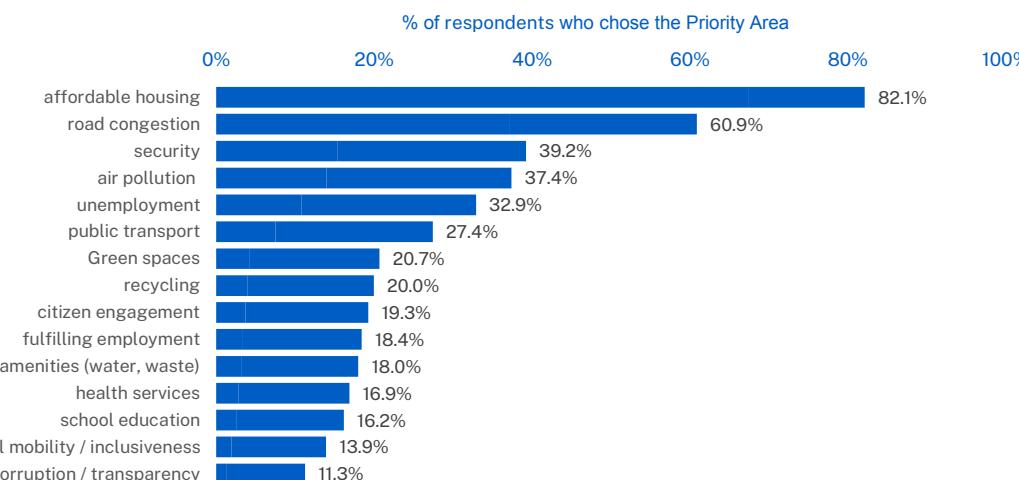
Population 1,540,000
(UN World Urbanization Prospects)
HDI 0.950
(Global Data Lab)



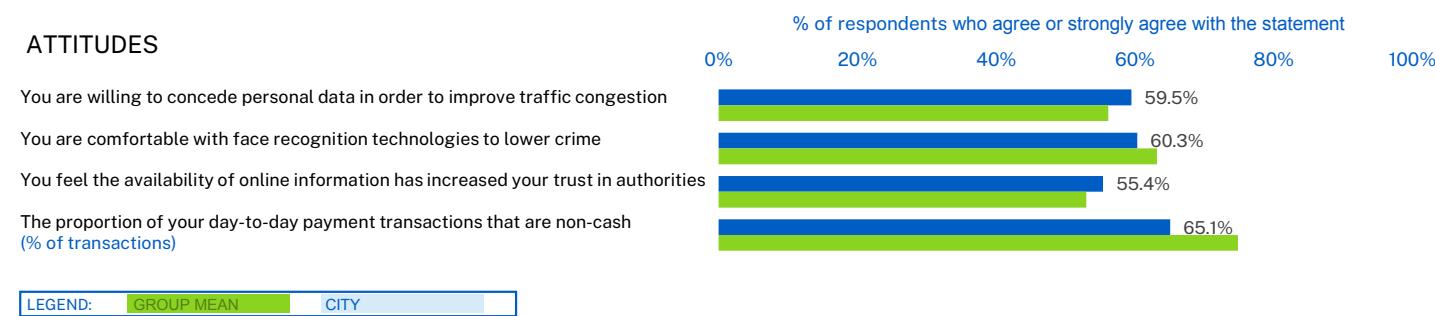
Country

Germany	2019	2020	2021	2022	1 yr change
HDI	0.951	0.948	0.948	0.950	+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



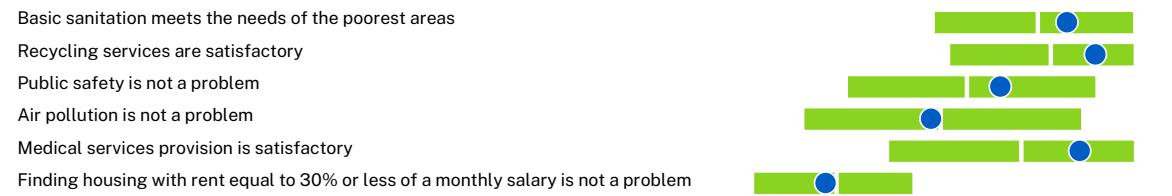
ATTITUDES



LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

Health & Safety



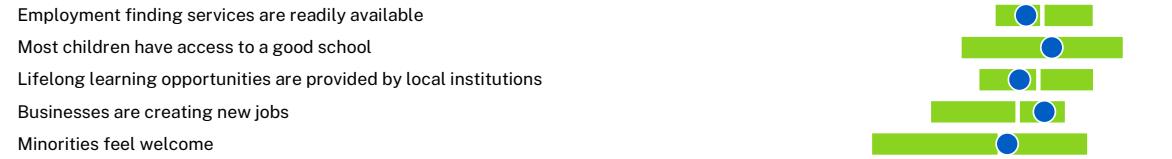
Mobility



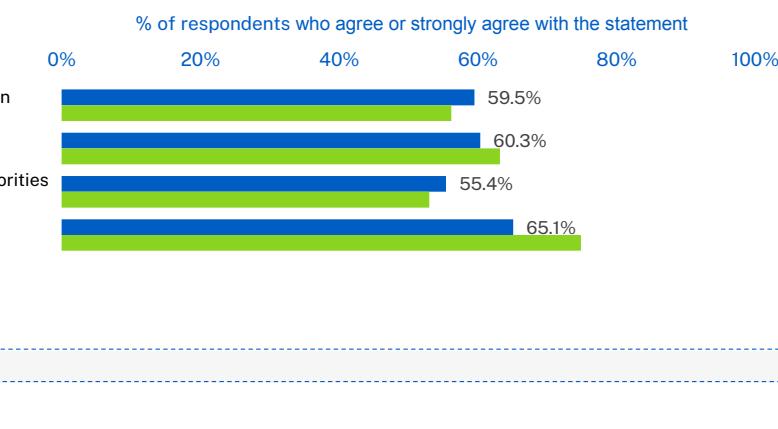
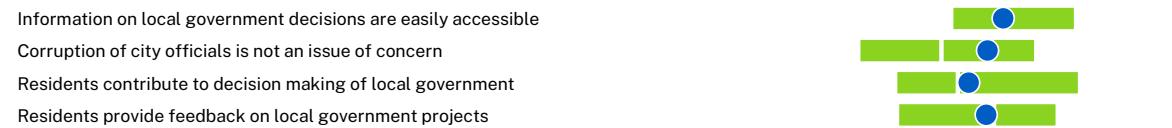
Activities



Opportunities (Work & School)



Governance



LEGEND: MIN CITY MEAN GROUP MAX

LEGEND: MIN CITY MEAN GROUP MAX

Muscat

SMART
CITY
RANKING
88

Out of 142



96 in 2023
Out of 141

SMART
CITY RATING



B in 2023

FACTOR
RATINGS



STRUCTURES

CCC

TECHNOLOGIES

GROUP



All ratings range
from AAA to D

BACKGROUND INFORMATION

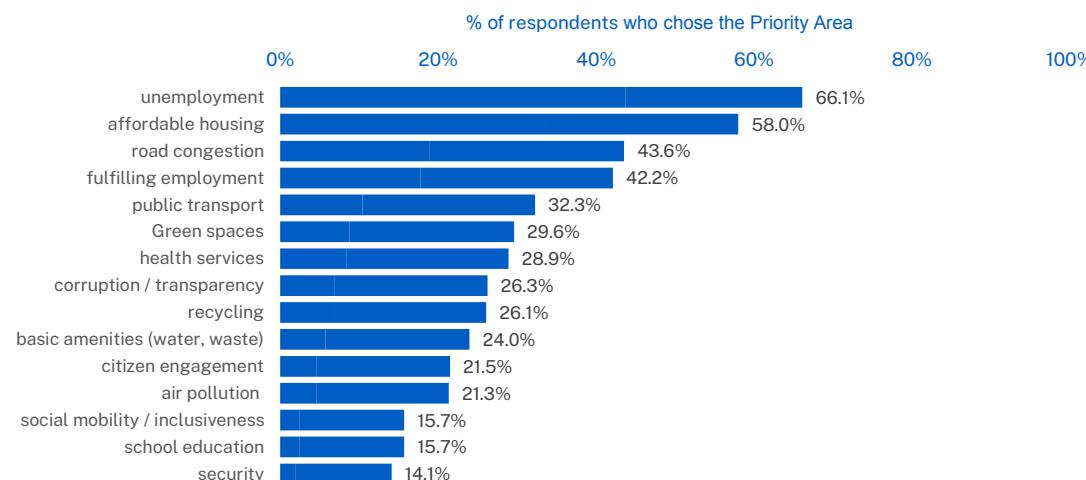
City

Population 1,620,000
(UN World Urbanization Prospects)

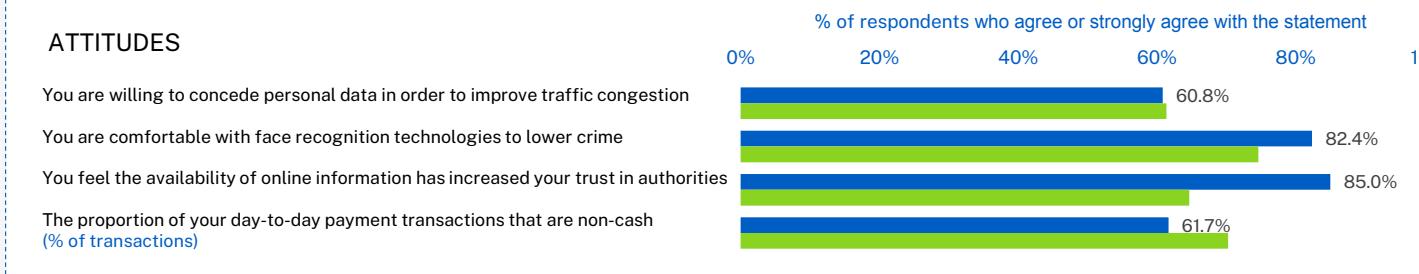
HDI 0.816
(Global Data Lab)



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



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

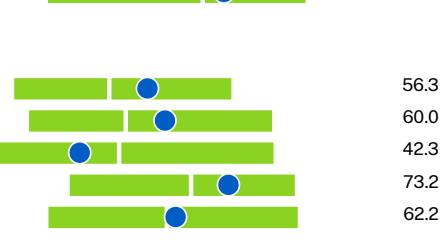
Car-sharing Apps have reduced congestion
Apps that direct you to an available parking space have reduced journey time
Bicycle hiring has reduced congestion
Online scheduling and ticket sales has made public transport easier to use
The city provides information on traffic congestion through mobile phones

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

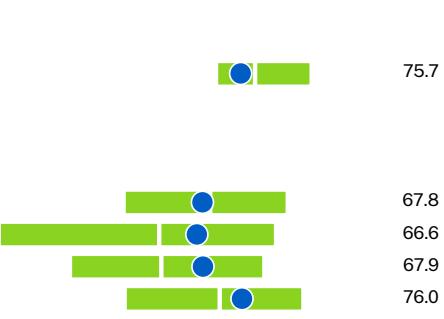


Opportunities (Work & School)

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

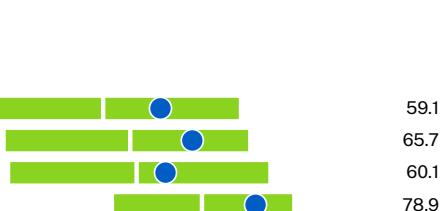


Governance

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



Nairobi

SMART
CITY
RANKING
131
Out of 142

131 in 2023
Out of 141

SMART
CITY RATING

C

C in 2023

FACTOR
RATINGS

C

STRUCTURES

TECHNOLOGIES

GROUP

4

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

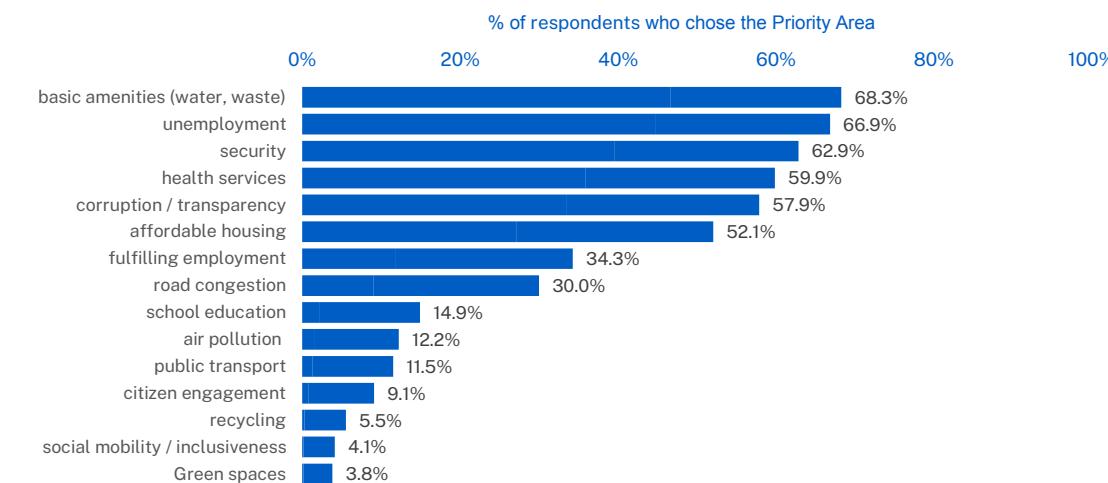
Population 4,730,000
(UN World Urbanization Prospects)
HDI 0.636
(Global Data Lab)



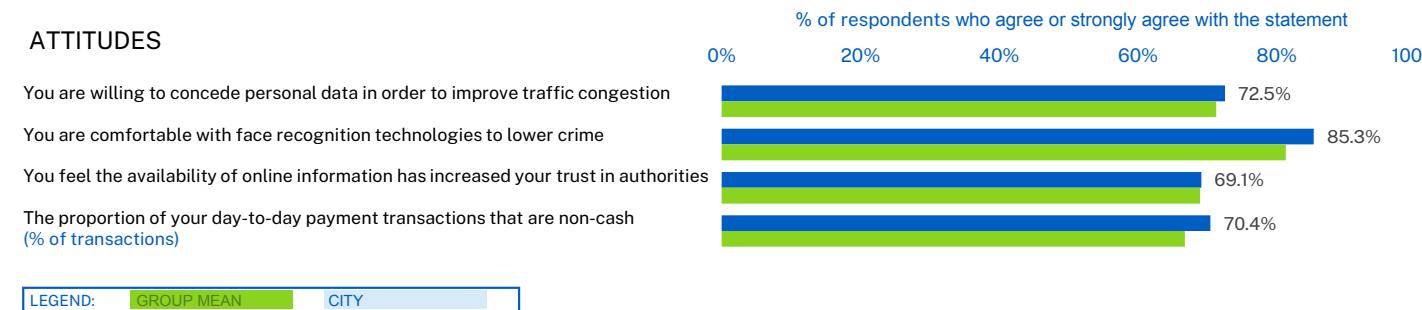
Country

Kenya	2019	2020	2021	2022	1 yr change
HDI	0.604	0.599	0.596	0.601	+0.005
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



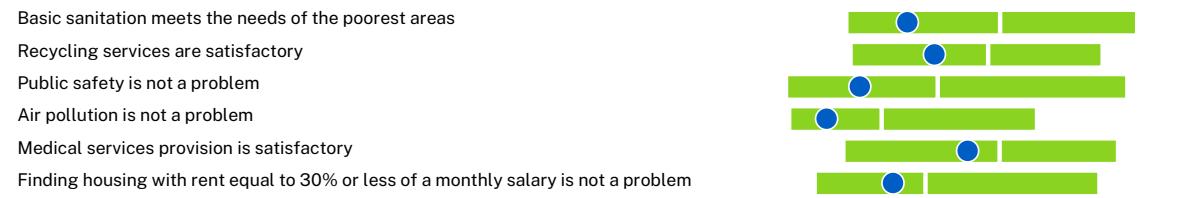
ATTITUDES



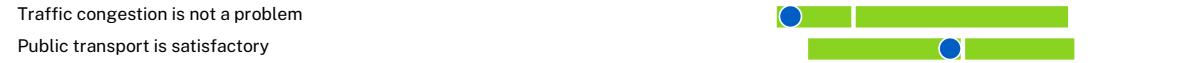
LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

Health & Safety



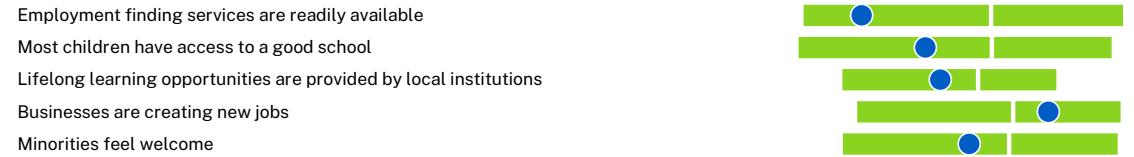
Mobility



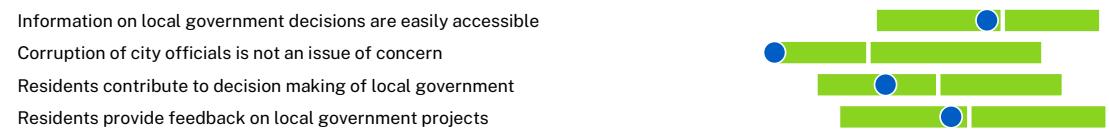
Activities



Opportunities (Work & School)

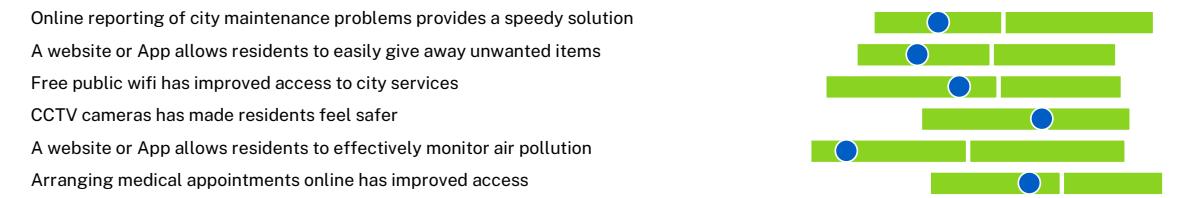


Governance

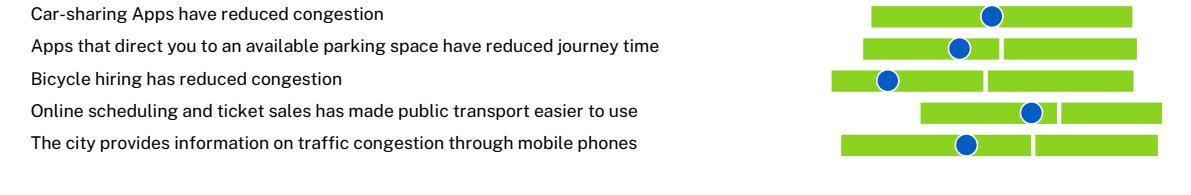


TECHNOLOGIES

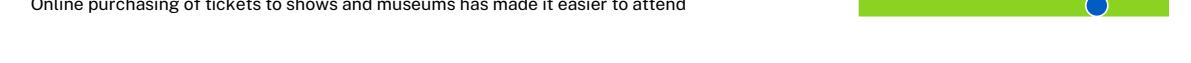
Health & Safety



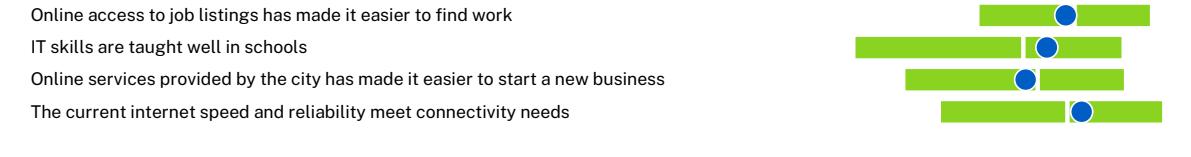
Mobility



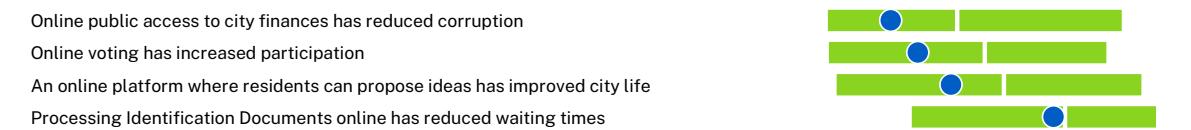
Activities



Opportunities (Work & School)



Governance



Nanjing

SMART
CITY
RANKING
62

Out of 142



58 in 2023
Out of 141

SMART
CITY RATING

CCC

CCC in 2023

FACTOR
RATINGS

CCC

STRUCTURES

CCC

TECHNOLOGIES

GROUP



All ratings range
from AAA to D

BACKGROUND INFORMATION

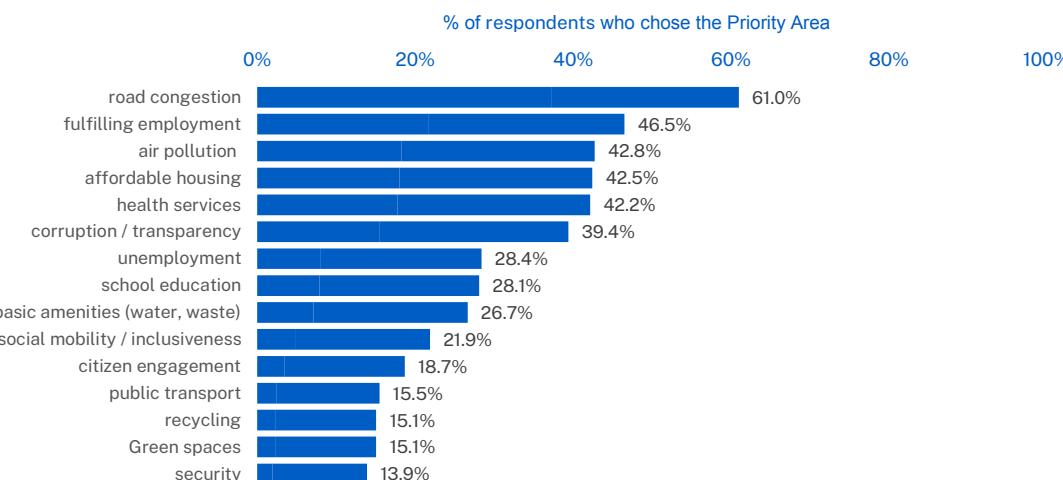
City

Population 8,850,000
(UN World Urbanization Prospects)

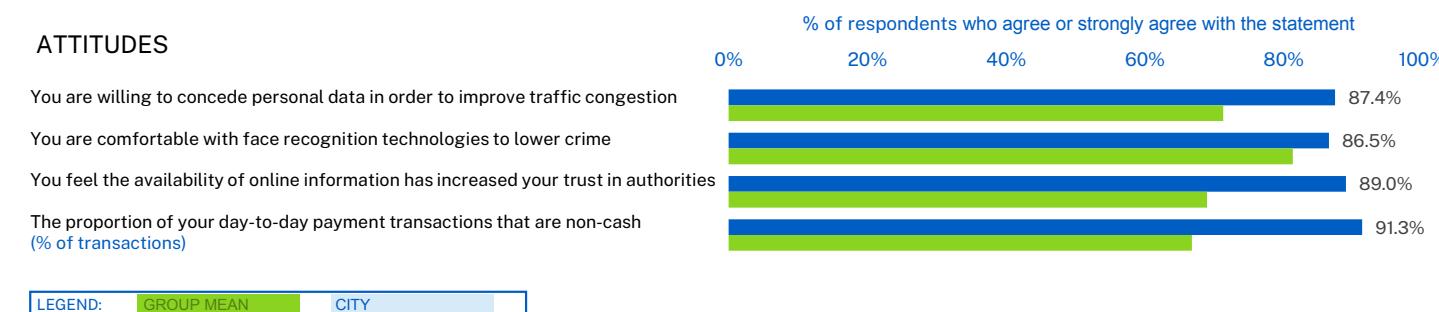
HDI 0.810
(Global Data Lab)



PRIORITY AREAS



ATTITUDES



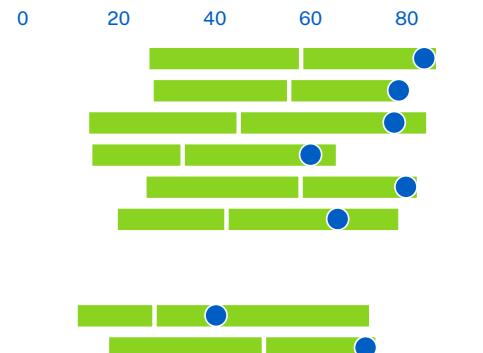
LEGEND: MIN CITY MEAN GROUP MAX

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



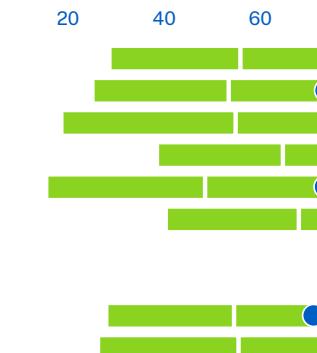
LEGEND: MIN CITY MEAN GROUP MAX

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

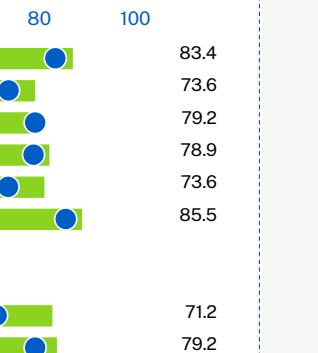
Score



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

Score



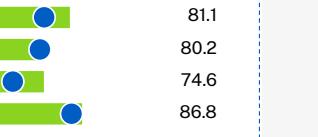
Activities

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

Score

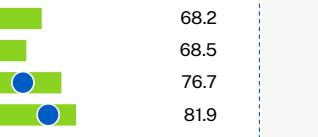
Opportunities (Work & School)

- 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

- 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
34

Out of 142



21 in 2023
Out of 141

SMART
CITY RATING

BB

BBB in 2023

FACTOR
RATINGS

BB

STRUCTURES

BB

TECHNOLOGIES

2

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

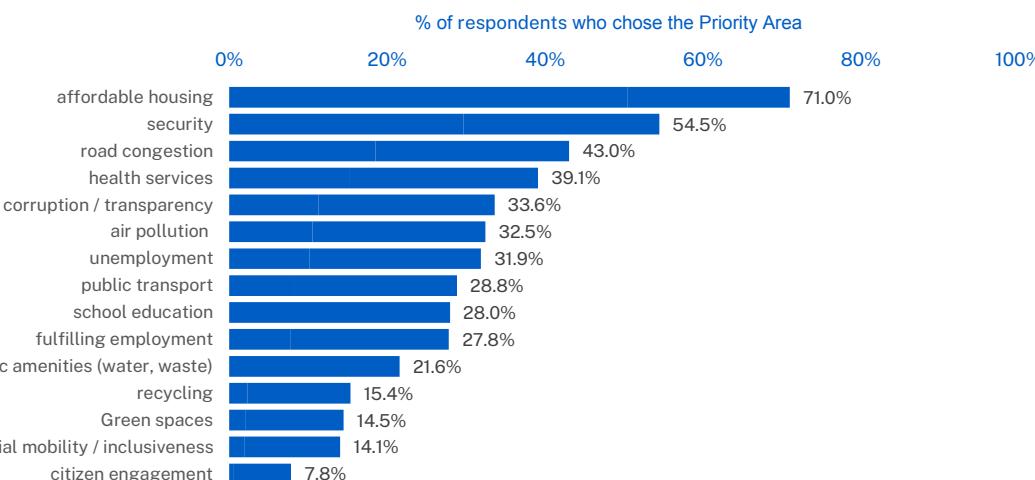
Population 8,800,000
(UN Data)



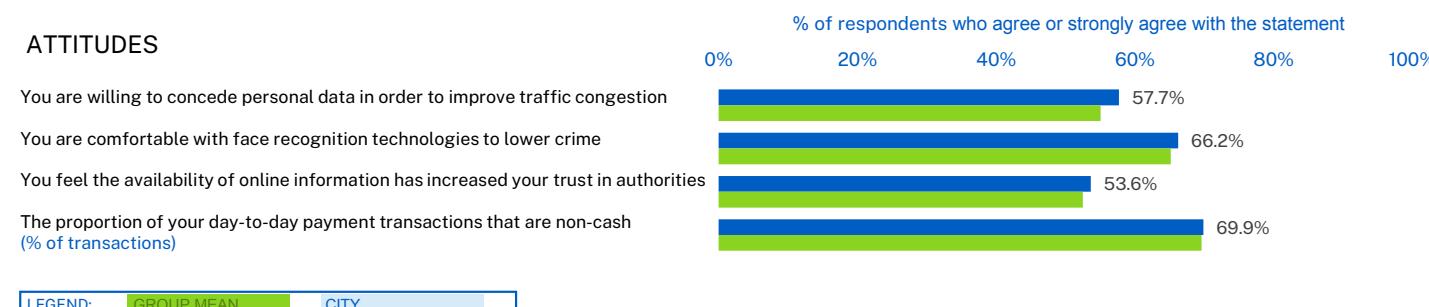
Country

USA	2019	2020	2021	2022	1 yr change
HDI	0.933	0.923	0.921	0.927	+0.006
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: 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

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

Mobility

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

Score: 0 20 40 60 80 100

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

Score: 0 20 40 60 80 100

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

Score: 0 20 40 60 80 100

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

Score: 0 20 40 60 80 100

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

Newcastle

SMART
CITY
RANKING
77

Out of 142

77 in 2023
Out of 141

SMART
CITY RATING

CC

CCC in 2023

FACTOR
RATINGS

B

STRUCTURES

CC

TECHNOLOGIES

GROUP
3

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 300,000
(Eurostat)

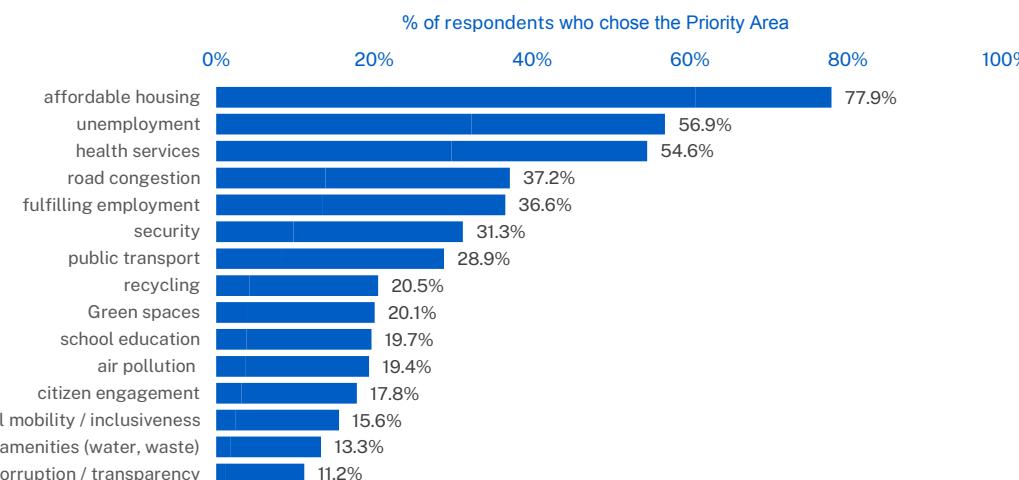
HDI 0.901
(Global Data Lab)



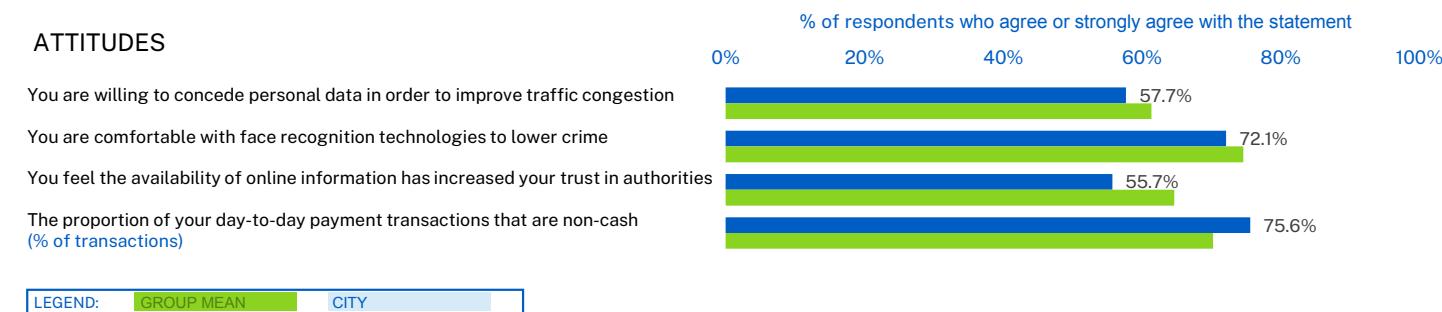
Country

United Kingdom	2019	2020	2021	2022	1 yr change
HDI	0.933	0.920	0.931	0.940	+0.009
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

	Score	
Basic sanitation meets the needs of the poorest areas	63.1	
Recycling services are satisfactory	68.9	
Public safety is not a problem	47.7	
Air pollution is not a problem	48.7	
Medical services provision is satisfactory	57.0	
Finding housing with rent equal to 30% or less of a monthly salary is not a problem	36.1	

Mobility

	Score	
Traffic congestion is not a problem	36.5	
Public transport is satisfactory	60.7	

Activities

	Score	
Green spaces are satisfactory	65.5	
Cultural activities (shows, bars, and museums) are satisfactory	80.8	

Opportunities (Work & School)

	Score	
Employment finding services are readily available	64.7	
Most children have access to a good school	70.7	
Lifelong learning opportunities are provided by local institutions	60.9	
Businesses are creating new jobs	58.4	
Minorities feel welcome	64.6	

Governance

	Score	
Information on local government decisions are easily accessible	54.2	
Corruption of city officials is not an issue of concern	51.8	
Residents contribute to decision making of local government	45.5	
Residents provide feedback on local government projects	55.8	

TECHNOLOGIES

Score

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety

	Score	
Online reporting of city maintenance problems provides a speedy solution	44.5	
A website or App allows residents to easily give away unwanted items	66.3	
Free public wifi has improved access to city services	62.2	
CCTV cameras has made residents feel safer	58.2	
A website or App allows residents to effectively monitor air pollution	29.9	
Arranging medical appointments online has improved access	53.0	

Mobility

	Score	
Car-sharing Apps have reduced congestion	38.4	
Apps that direct you to an available parking space have reduced journey time	38.6	
Bicycle hiring has reduced congestion	42.6	
Online scheduling and ticket sales has made public transport easier to use	62.1	
The city provides information on traffic congestion through mobile phones	45.6	

Activities

	Score	
Online purchasing of tickets to shows and museums has made it easier to attend	75.1	

Opportunities (Work & School)

	Score	
Online access to job listings has made it easier to find work	66.0	
IT skills are taught well in schools	61.1	
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	68.0	

Governance

	Score	
Online public access to city finances has reduced corruption	37.7	
Online voting has increased participation	57.4	
An online platform where residents can propose ideas has improved city life	43.4	
Processing Identification Documents online has reduced waiting times	55.0	

All ratings range from AAA to D

Nicosia

SMART
CITY
RANKING
118
Out of 142

117 in 2023
Out of 141

SMART
CITY RATING

C

C in 2023

FACTOR
RATINGS

CC

STRUCTURES

C

TECHNOLOGIES

GROUP

3

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 900,000
(Eurostat)

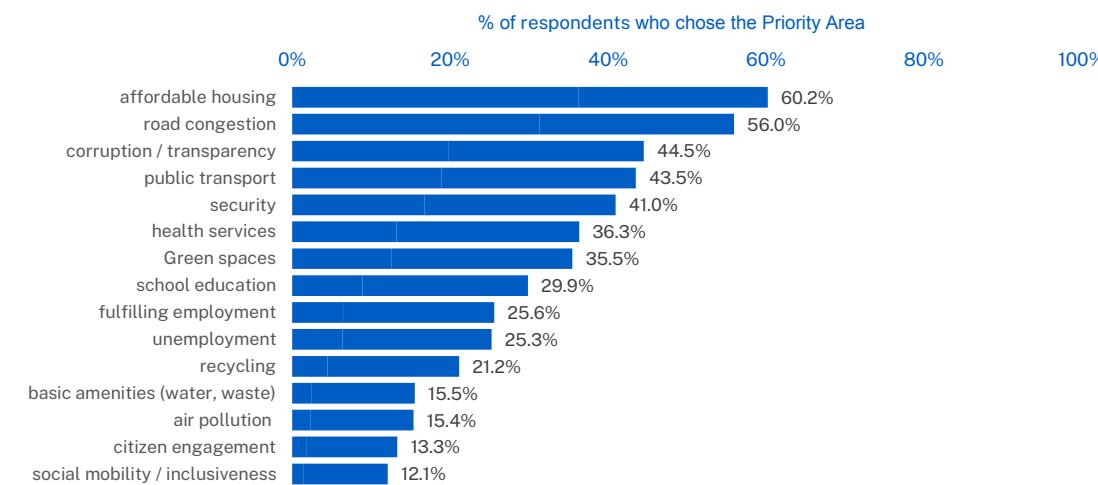


HDI 0.896
(Global Data Lab)

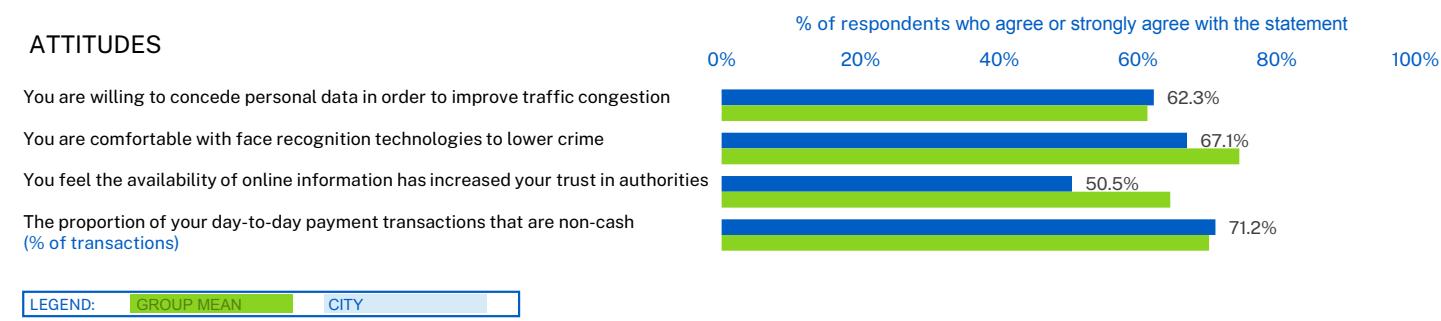
Country

Cyprus	2019	2020	2021	2022	1 yr change
HDI	0.901	0.900	0.901	0.907	+0.006
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



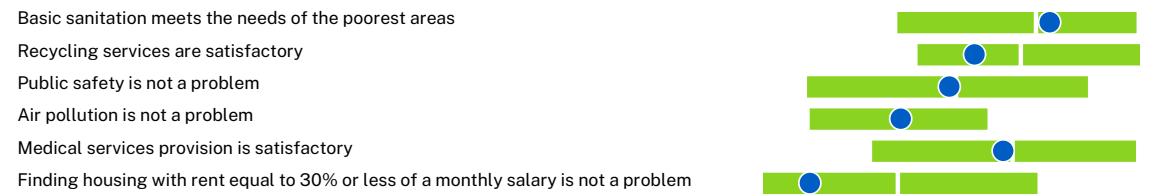
ATTITUDES



LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

Health & Safety



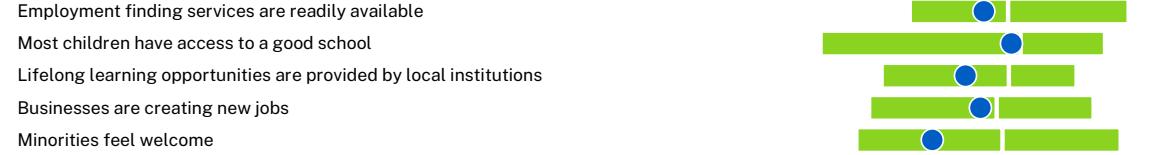
Mobility



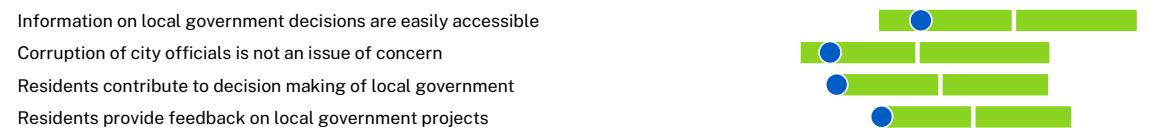
Activities



Opportunities (Work & School)



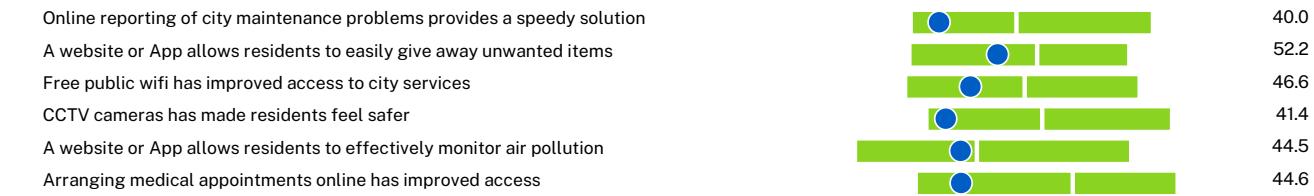
Governance



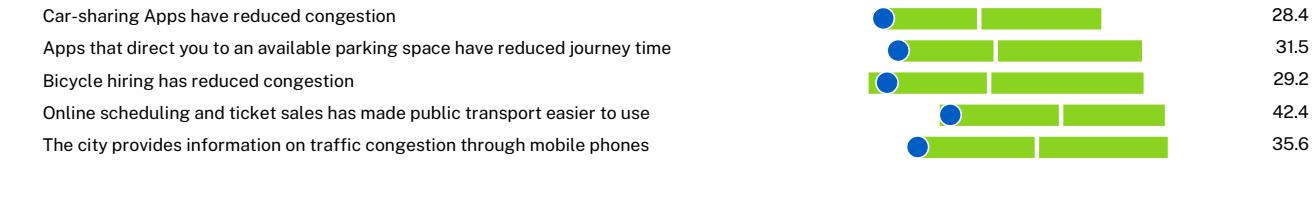
LEGEND: MIN CITY MEAN GROUP MAX

TECHNOLOGIES

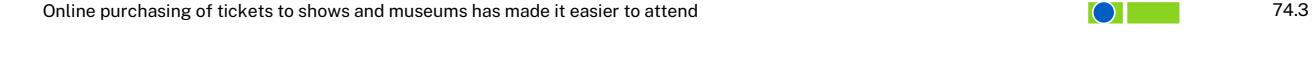
Health & Safety



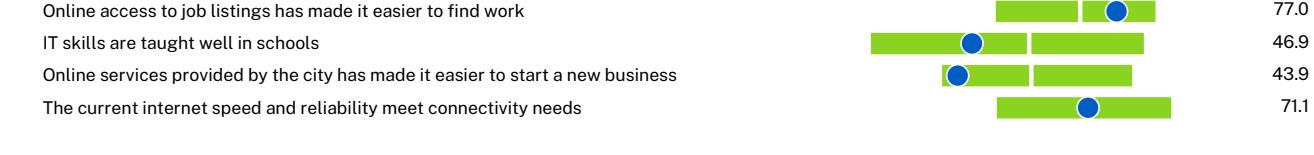
Mobility



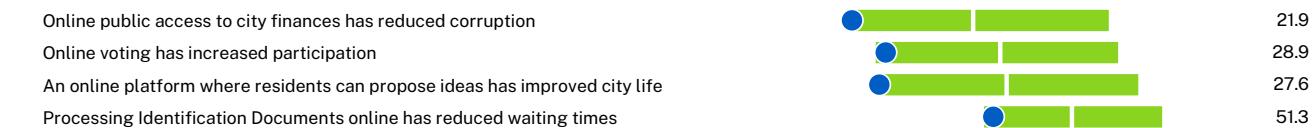
Activities



Opportunities (Work & School)



Governance



Osaka

SMART
CITY
RANKING
95

Out of 142



98 in 2023
Out of 141

SMART
CITY RATING



B in 2023

FACTOR
RATINGS

BB

STRUCTURES

CCC

TECHNOLOGIES

GROUP



All ratings range
from AAA to D

BACKGROUND INFORMATION

City

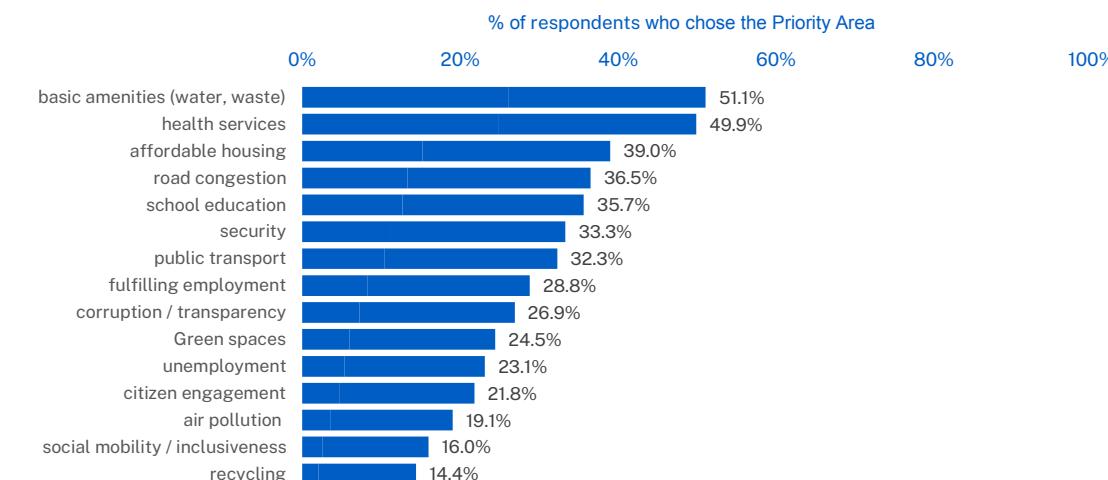
Population 2,750,000
(UN Data)



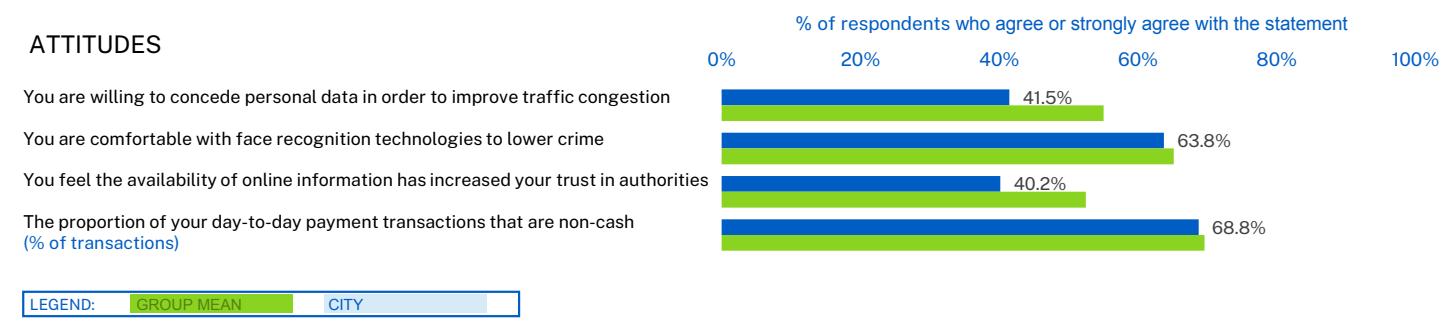
Country

Japan	2019	2020	2021	2022	1 yr change
HDI	0.918	0.917	0.920	0.920	+0.000
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

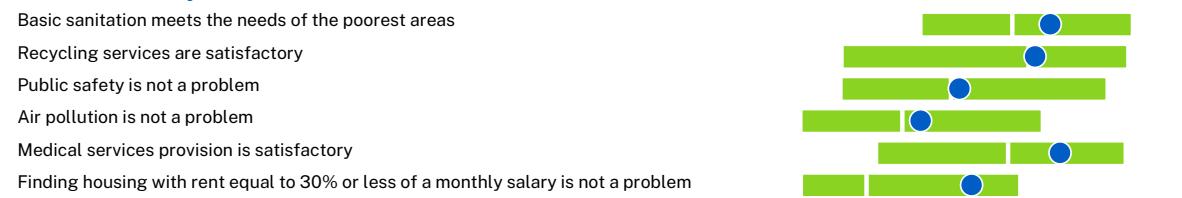


LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



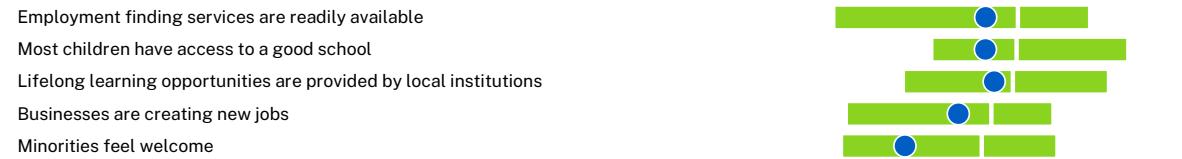
Mobility



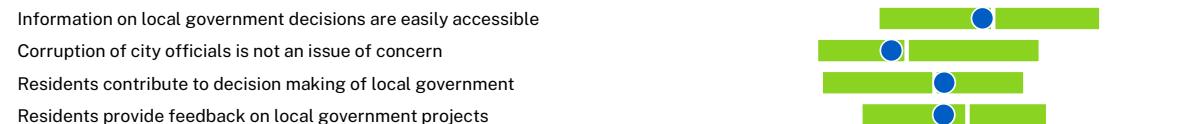
Activities



Opportunities (Work & School)



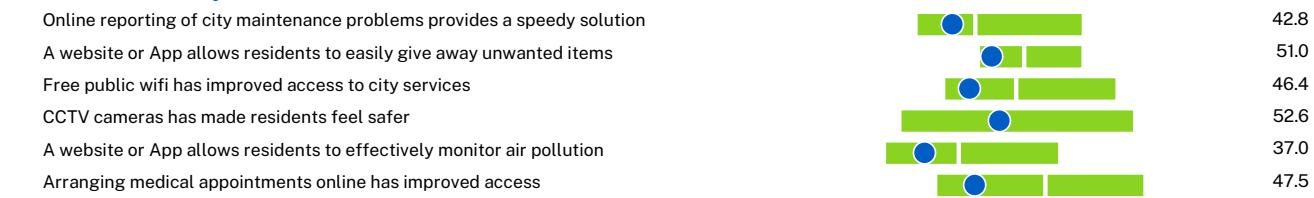
Governance



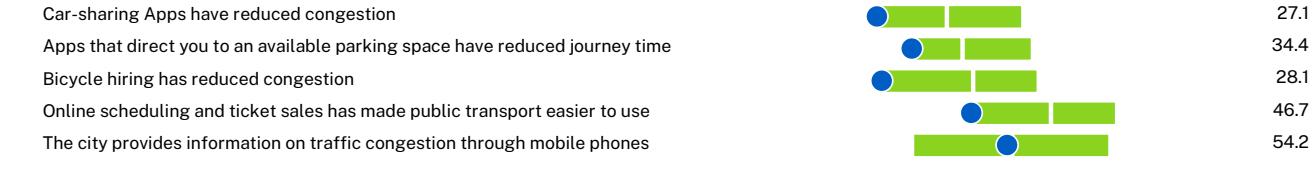
TECHNOLOGIES

LEGEND: MIN CITY MEAN GROUP MAX

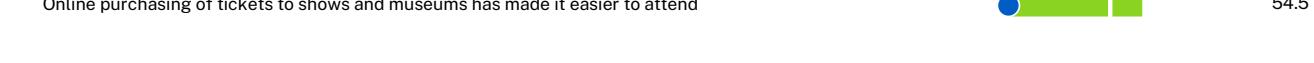
Health & Safety



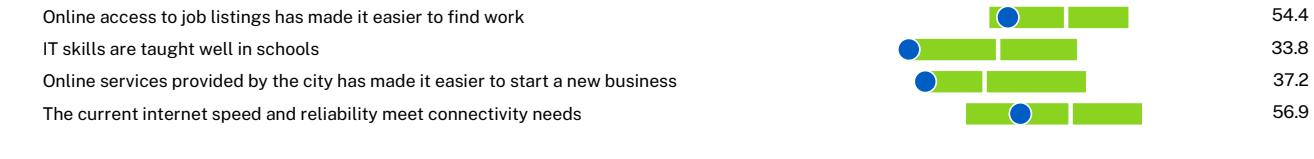
Mobility



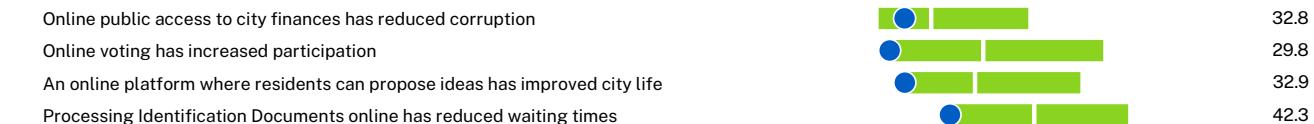
Activities



Opportunities (Work & School)



Governance



SMART CITY RANKING

2

Out of 142

2 in 2023
Out of 141

SMART CITY RATING

AA

AAA in 2023

FACTOR RATINGS

AA

STRUCTURES

A

TECHNOLOGIES

GROUP 1

All ratings range from AAA to D

BACKGROUND INFORMATION

City

Population 1,040,000
(UN World Urbanization Prospects)

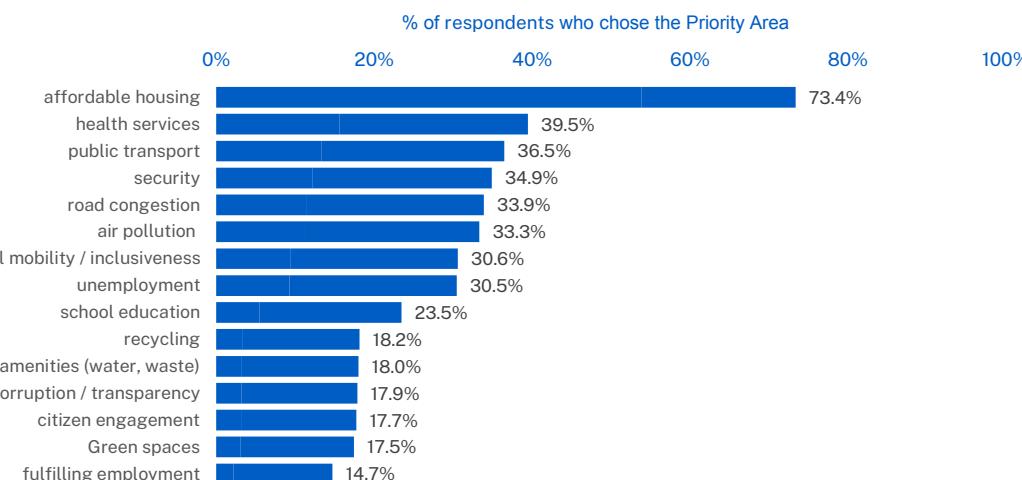
HDI 0.980
(Global Data Lab)



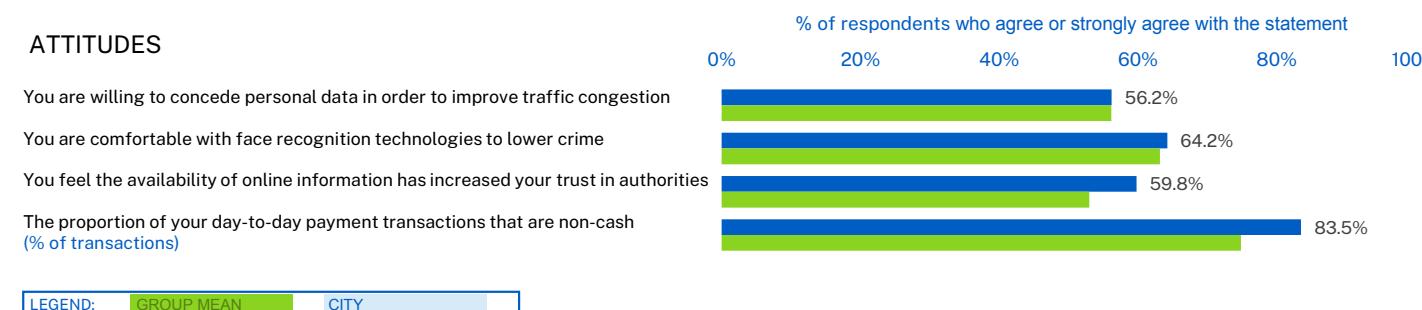
COUNTRY

Norway	2019	2020	2021	2022	1 yr change
HDI	0.961	0.963	0.964	0.966	+0.002
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

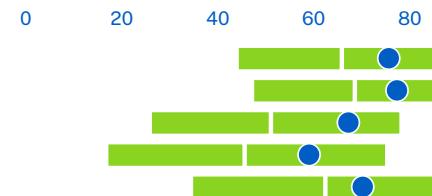


LEGEND: MIN CITY MEAN GROUP MAX

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



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

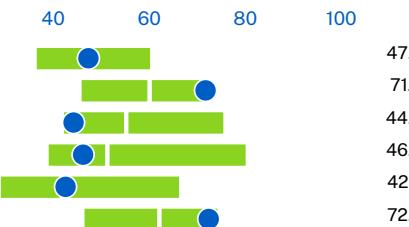
- Information on local government decisions are easily accessible
- Corruption of city officials is not an issue of concern
- Residents contribute to decision making of local government
- Residents provide feedback on local government projects



TECHNOLOGIES

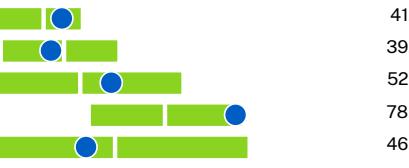
Score: 0 20 40 60 80 100

- 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



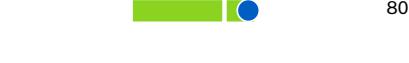
Mobility

- 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



Ottawa

SMART
CITY
RANKING

46

Out of 142



40 in 2023
Out of 141

SMART
CITY RATING

BBB

A in 2023

FACTOR
RATINGS

A

STRUCTURES

BBB

TECHNOLOGIES

GROUP
1

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

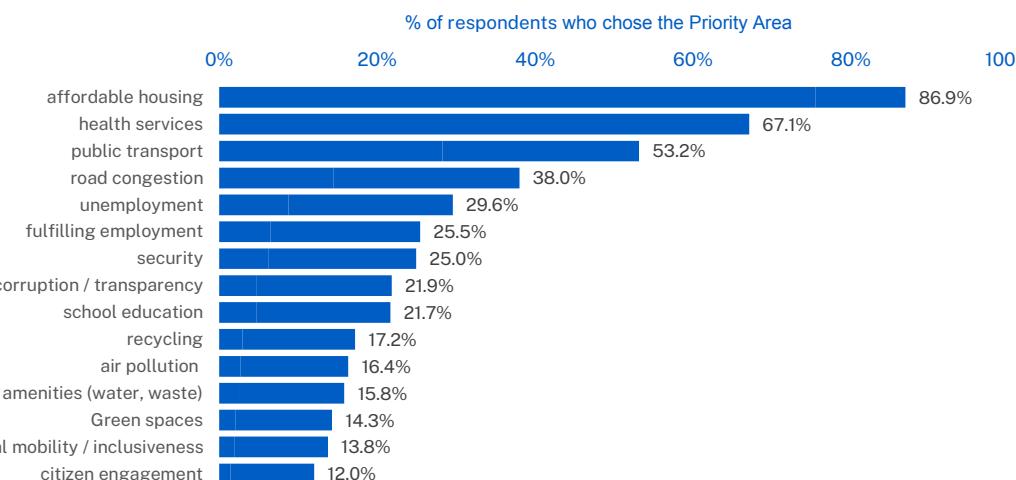
Population 930,000
(UN Data)



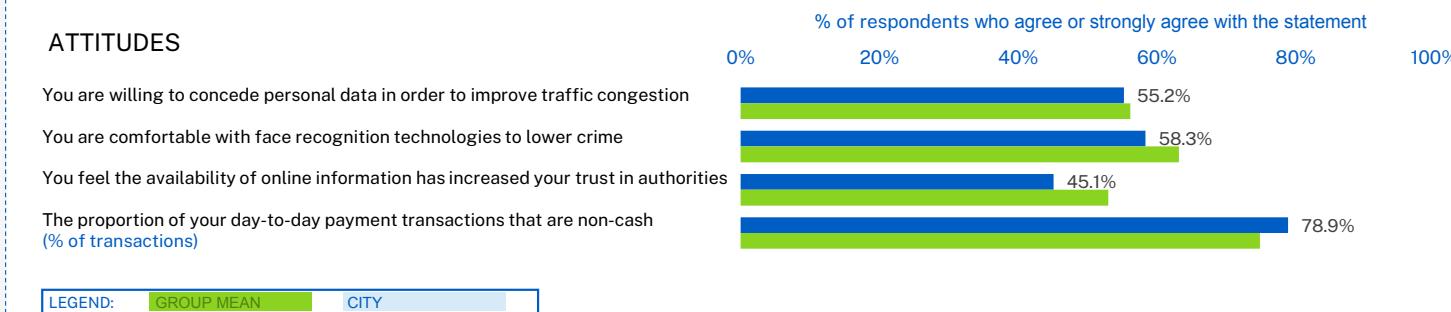
Country

Canada	2019	2020	2021	2022	1 yr change
HDI	0.932	0.928	0.934	0.935	+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

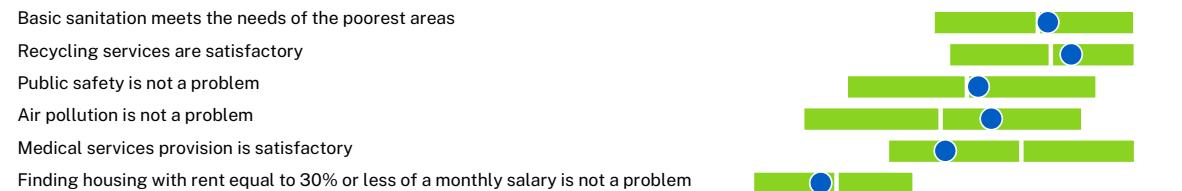


LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



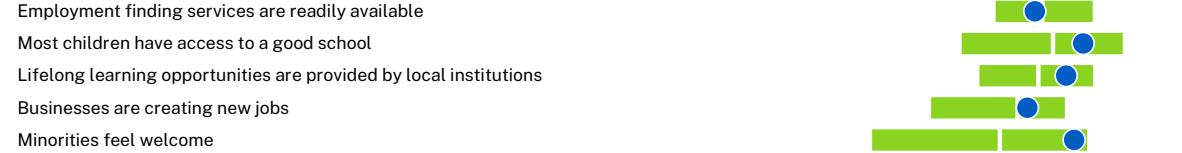
Mobility



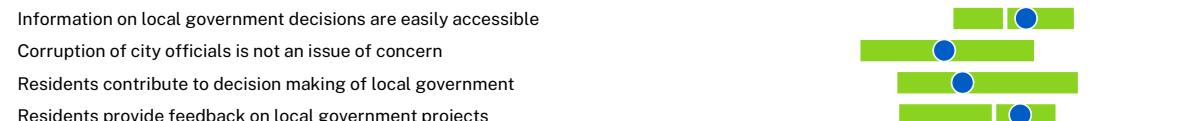
Activities



Opportunities (Work & School)



Governance



TECHNOLOGIES

Score



Paris

SMART
CITY
RANKING

49

Out of 142



46 in 2023
Out of 141

SMART
CITY RATING

BBB

BBB in 2023

FACTOR
RATINGS

BB

STRUCTURES

A

TECHNOLOGIES

GROUP

1

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 2,150,000
(UN Data)

HDI 0.949
(Global Data Lab)

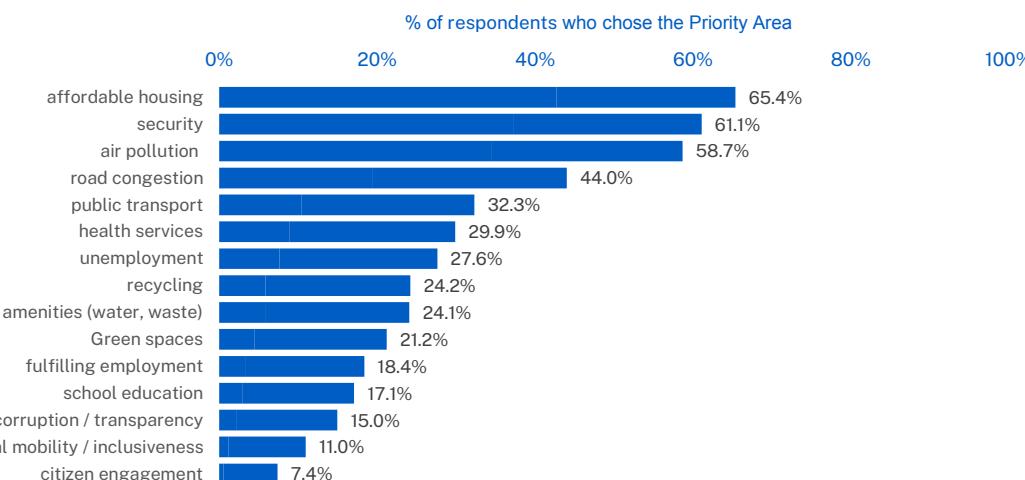


Map tiles by Stamen Design CC BY 3.0 Map Data © OpenStreetMap

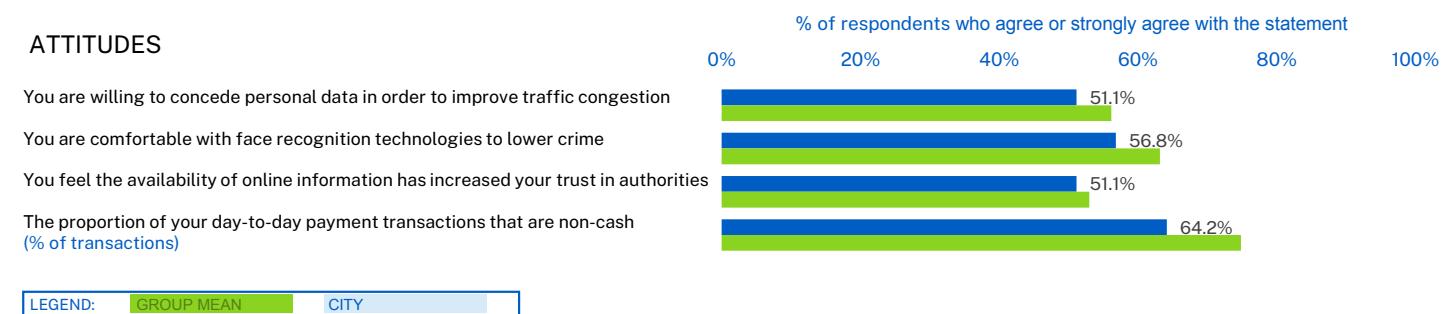
Country

France	2019	2020	2021	2022	1 yr change
HDI	0.905	0.900	0.906	0.910	+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



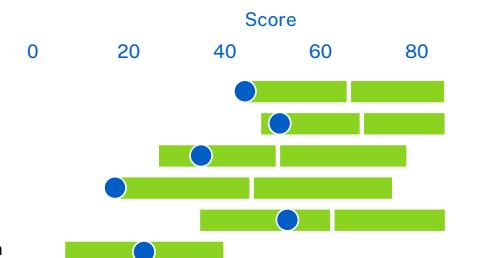
LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety

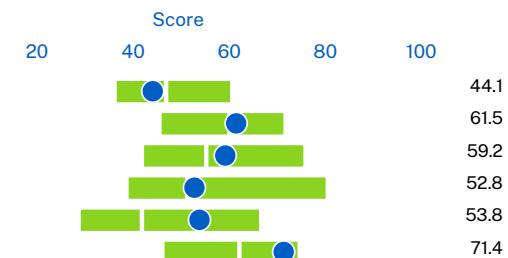
- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem



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



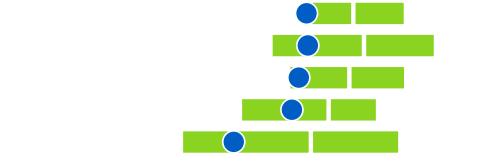
Activities

- 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



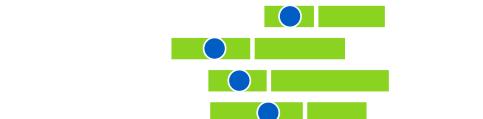
Opportunities (Work & School)

- 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



Philadelphia

SMART
CITY
RANKING
90

Out of 142



92 in 2023
Out of 141

SMART
CITY RATING

B

B in 2023

FACTOR
RATINGS

B

STRUCTURES

TECHNOLOGIES

B

GROUP
2
All ratings range
from AAA to D

BACKGROUND INFORMATION

City

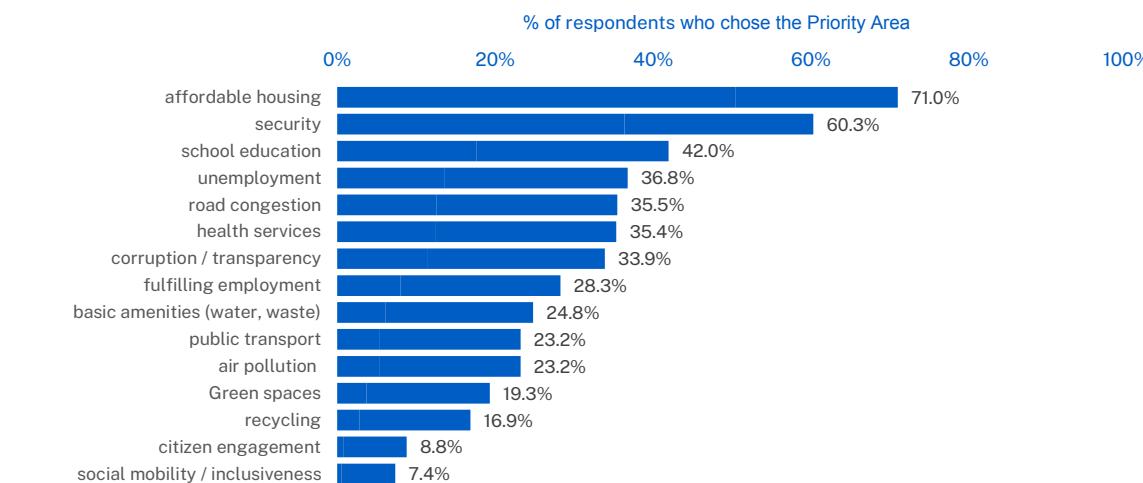
Population 1,600,000
(UN Data)



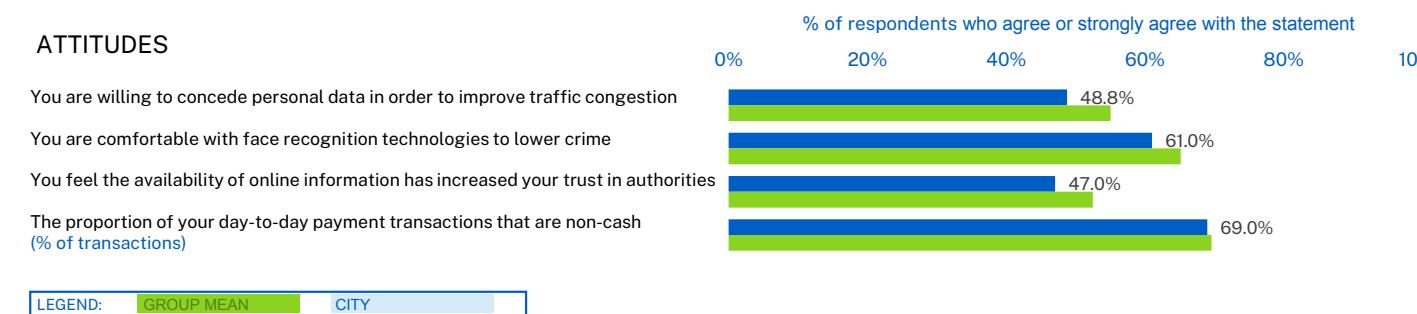
Country

USA	2019	2020	2021	2022	1 yr change
HDI	0.933	0.923	0.921	0.927	+0.006
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

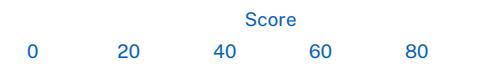


LEGEND: MIN CITY MEAN GROUP MAX

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



Activities

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



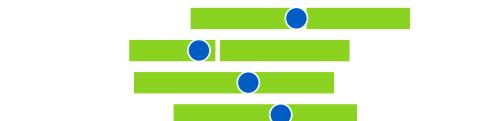
Opportunities (Work & School)

- 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



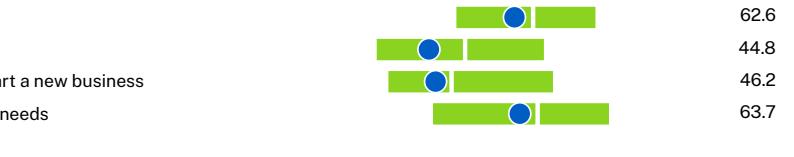
Activities

- 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

Phoenix

SMART
CITY
RANKING
98
Out of 142

93 in 2023
Out of 141

SMART
CITY RATING

CC
CC in 2023

FACTOR
RATINGS
CCC

STRUCTURES
C

TECHNOLOGIES
3

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 1,610,000
(UN Data)

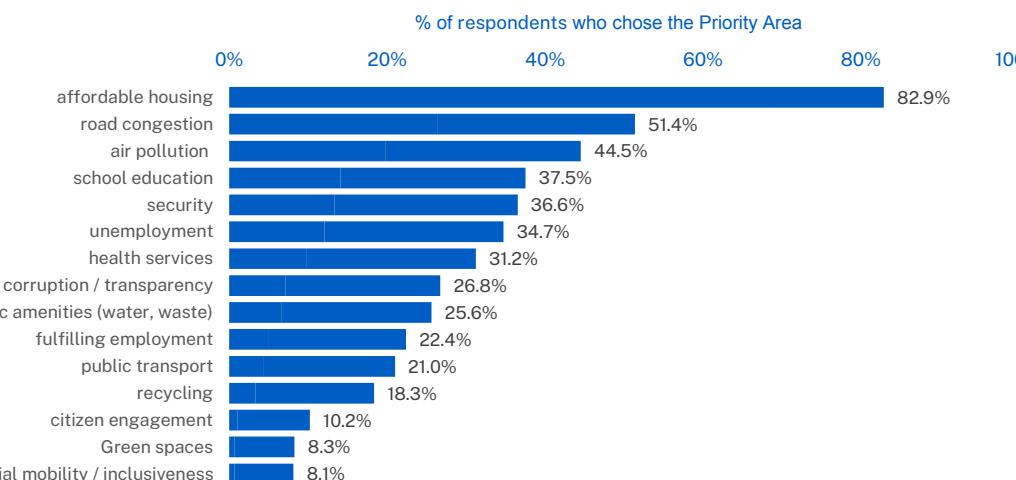
HDI 0.908
(Global Data Lab)



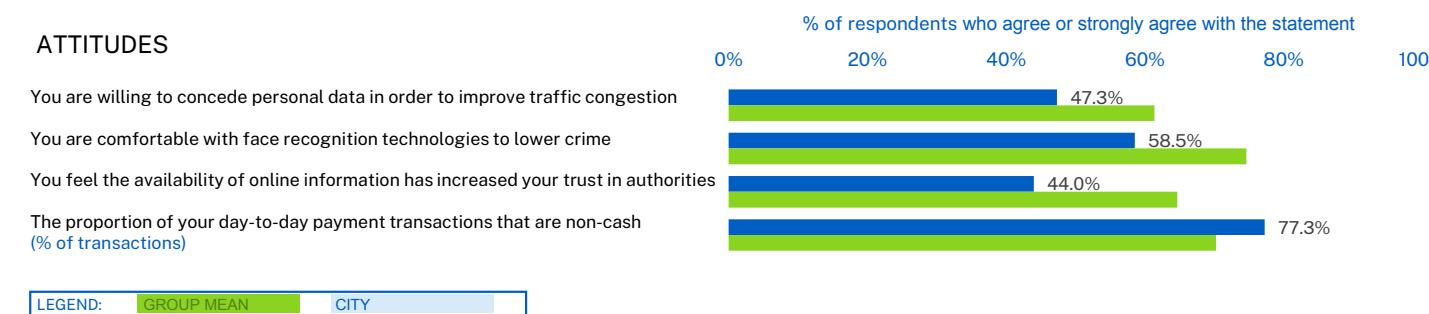
Country

USA	2019	2020	2021	2022	1 yr change
HDI	0.933	0.923	0.921	0.927	+0.006
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



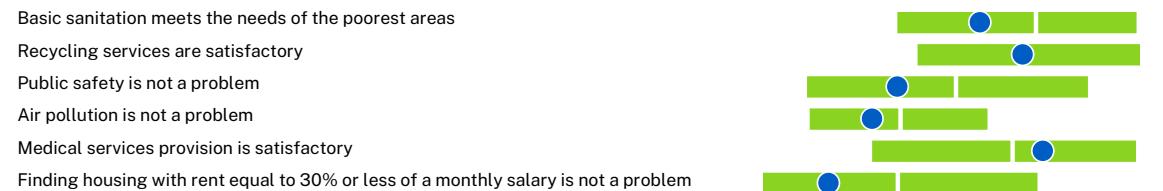
ATTITUDES



LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

Health & Safety



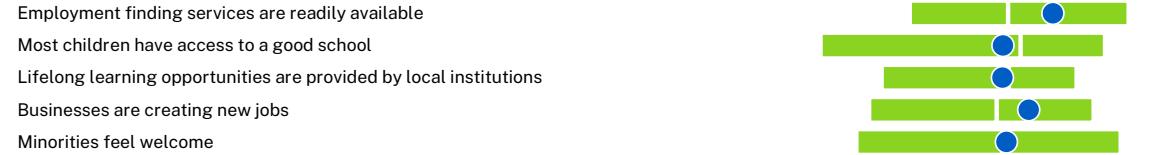
Mobility



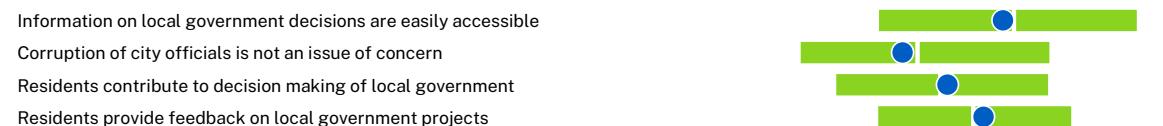
Activities



Opportunities (Work & School)

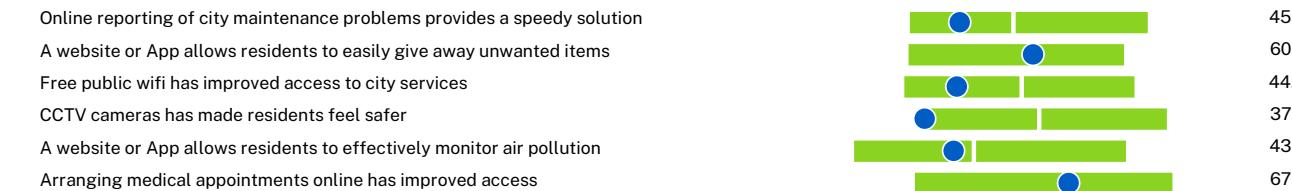


Governance

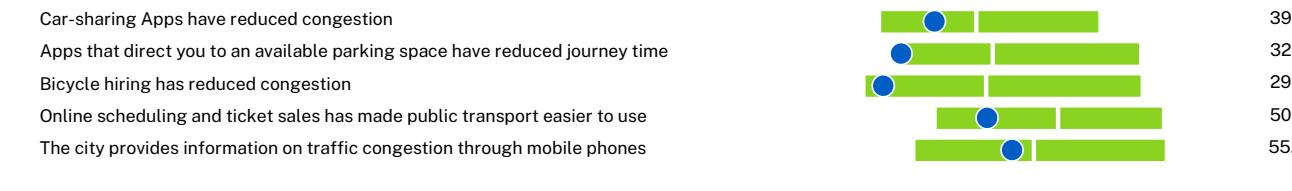


TECHNOLOGIES

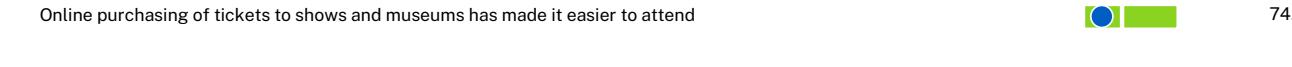
Health & Safety



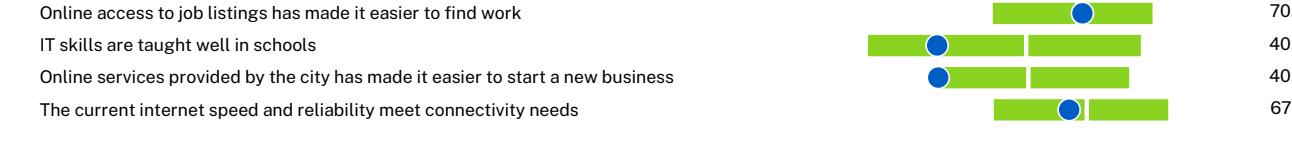
Mobility



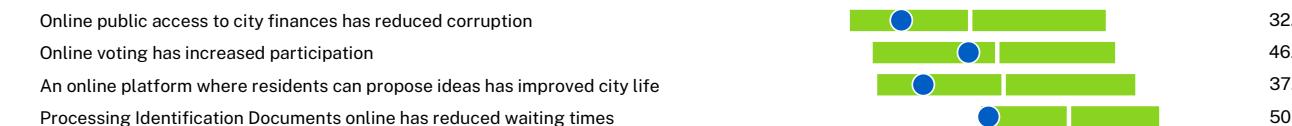
Activities



Opportunities (Work & School)



Governance



Prague

SMART
CITY
RANKING
15

Out of 142



14 in 2023
Out of 141

SMART
CITY RATING



AA in 2023

FACTOR
RATINGS



STRUCTURES



TECHNOLOGIES



All ratings range
from AAA to D

BACKGROUND INFORMATION

City

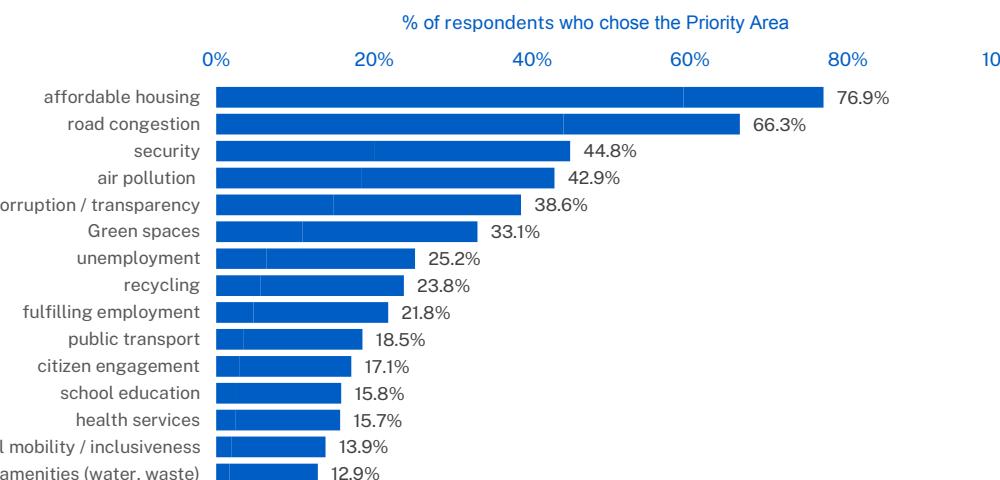
Population 1,320,000
(Eurostat)



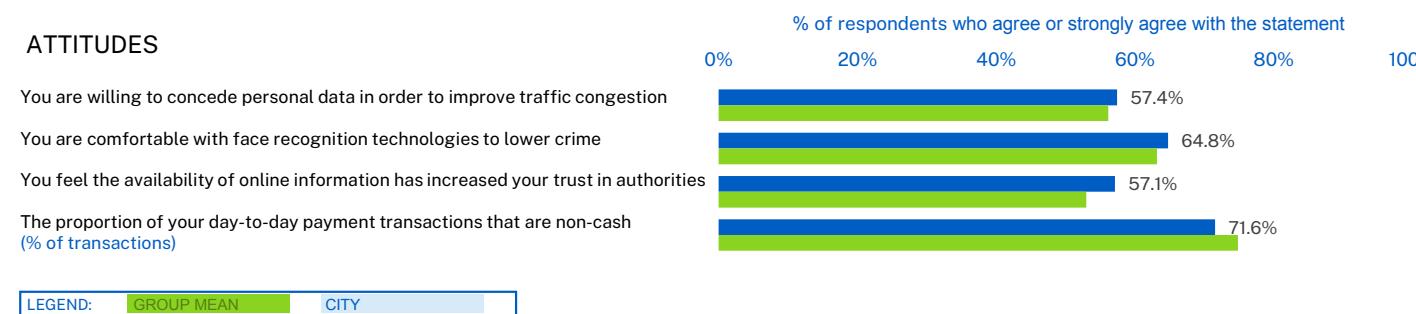
Country

Czech Rep.	2019	2020	2021	2022	1 yr change
HDI	0.896	0.891	0.891	0.895	+0.004
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: 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

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

LEGEND: MIN CITY MEAN GROUP MAX

Rabat

SMART
CITY
RANKING
126

Out of 142

126 in 2023
Out of 141

SMART
CITY RATING

C

C in 2023

FACTOR
RATINGS

C

STRUCTURES

TECHNOLOGIES

4

All ratings range
from AAA to D

BACKGROUND INFORMATION

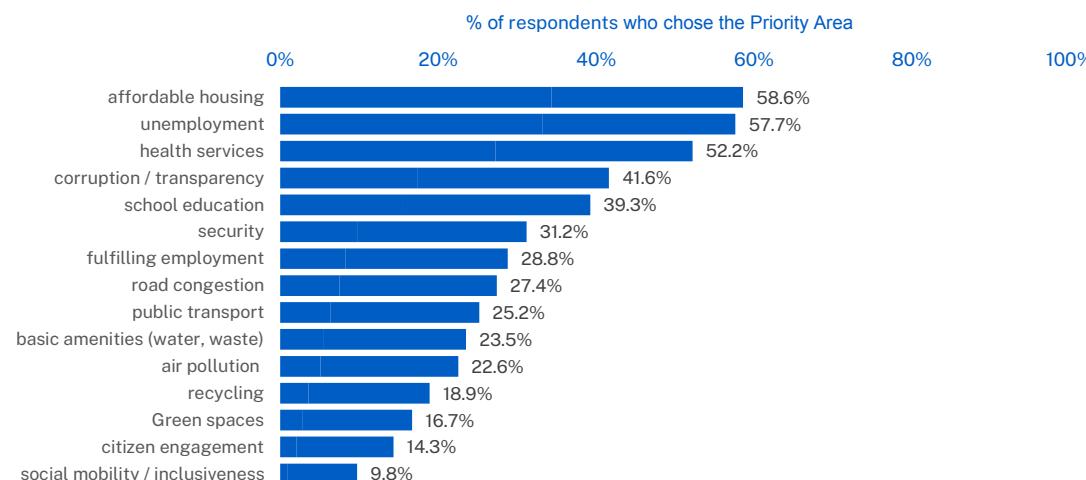
City

Population 190,000
(UN Data)

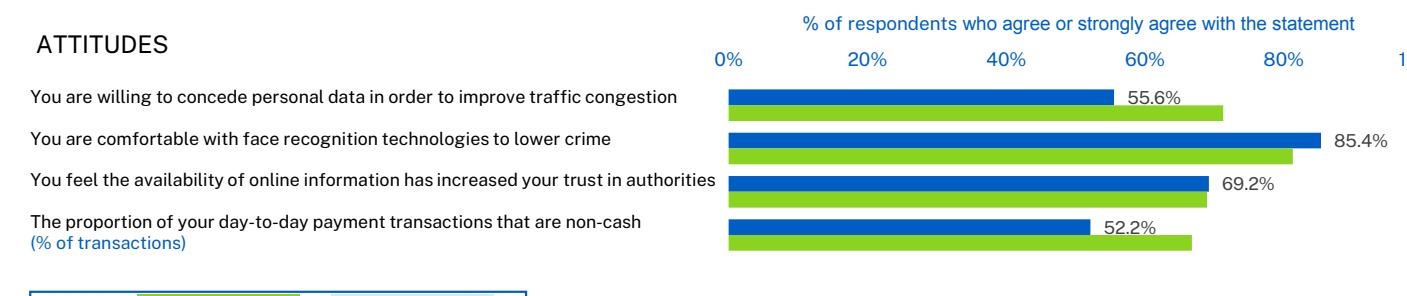
HDI 0.702
(Global Data Lab)



PRIORITY AREAS



ATTITUDES

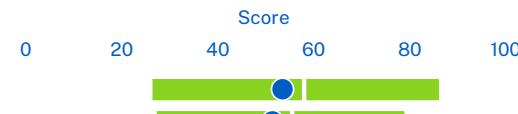


LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

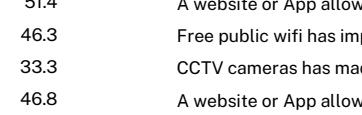
Health & Safety

- 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



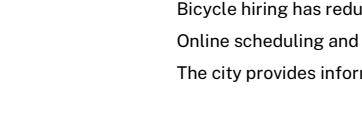
Mobility

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



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



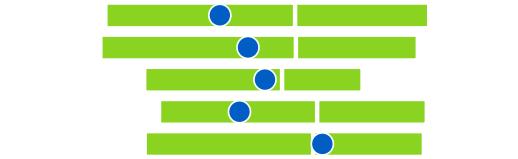
Activities

- 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



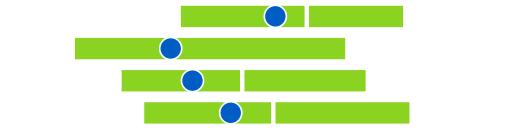
Opportunities (Work & School)

- 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



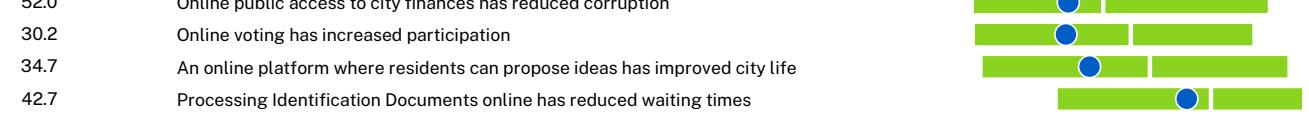
Governance

- 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



Reykjavik

SMART
CITY
RANKING
26

Out of 142

26 in 2023
Out of 141

SMART
CITY RATING

BBB

BBB in 2023

FACTOR
RATINGS

A

STRUCTURES

BBB

TECHNOLOGIES

GROUP

1

All ratings range
from AAA to D

BACKGROUND INFORMATION

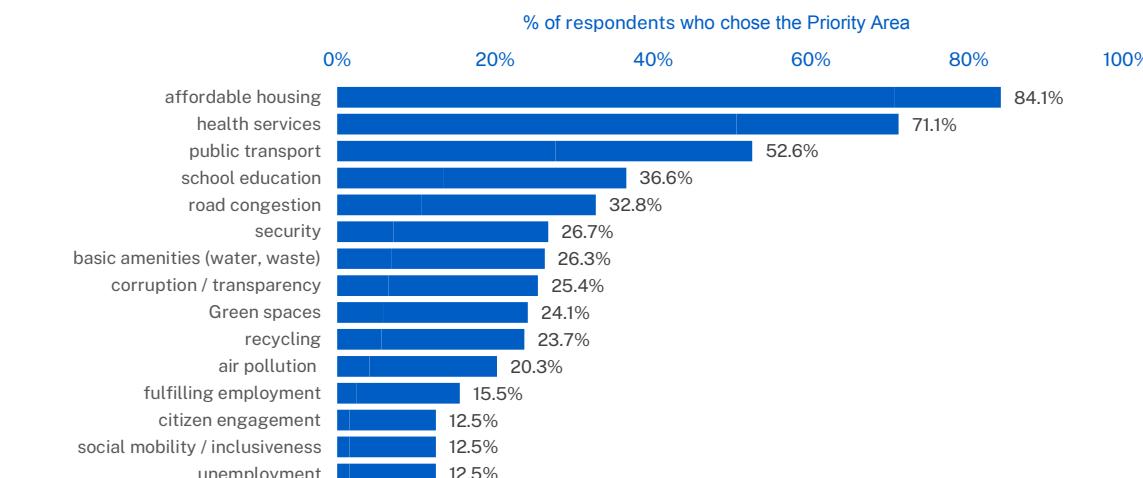
City

Population 240,000
(Eurostat)

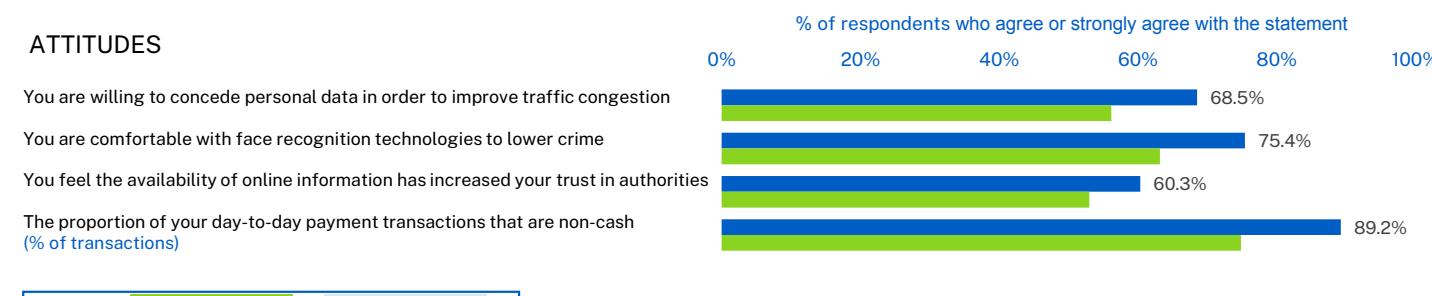
HDI 0.959
(Global Data Lab)



PRIORITY AREAS



ATTITUDES

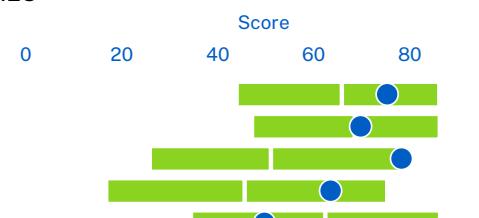


LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

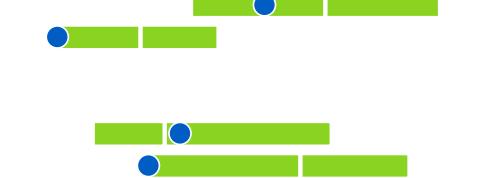
Health & Safety

- 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



Activities

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



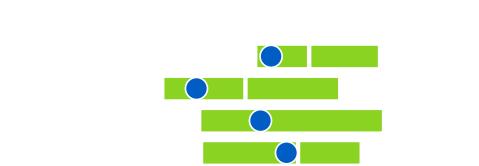
Opportunities (Work & School)

- 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

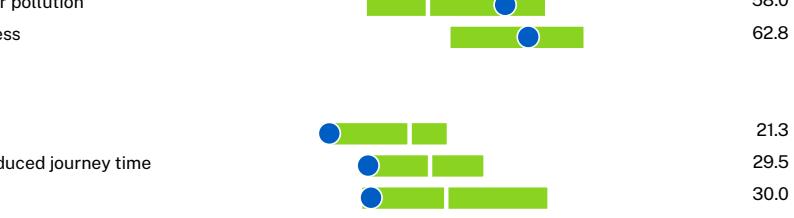
Health & Safety

- 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



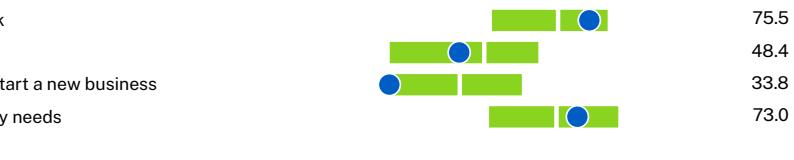
Activities

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



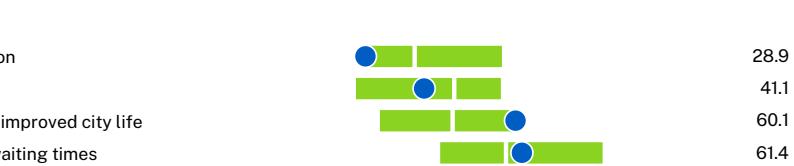
Opportunities (Work & School)

- 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

59

Out of 142



83 in 2023
Out of 141

SMART CITY RATING

BB

B in 2023

FACTOR RATINGS

BB

STRUCTURES

BB

TECHNOLOGIES

2

All ratings range from AAA to D

BACKGROUND INFORMATION

City

Population 630,000
(Eurostat)



Country

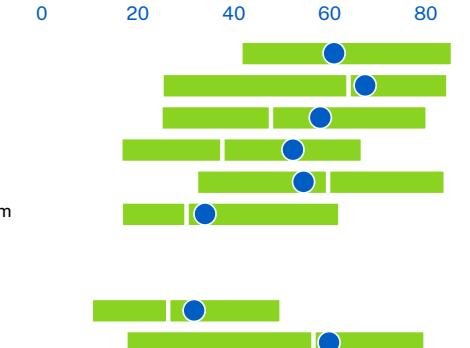
Latvia	2019	2020	2021	2022	1 yr change
HDI	0.873	0.873	0.865	0.879	+0.014
Life expectancy at birth	75.5	75.5	73.6	75.9	+2.3
Expected years of schooling	16.5	16.5	16.6	16.6	+0.0
Mean years of schooling	13.3	13.3	13.3	13.3	+0.0
GNI per capita (PPP \$)	30,570	30,562	31,443	32,083	+640

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

Score



LEGEND: MIN CITY MEAN GROUP MAX

Mobility

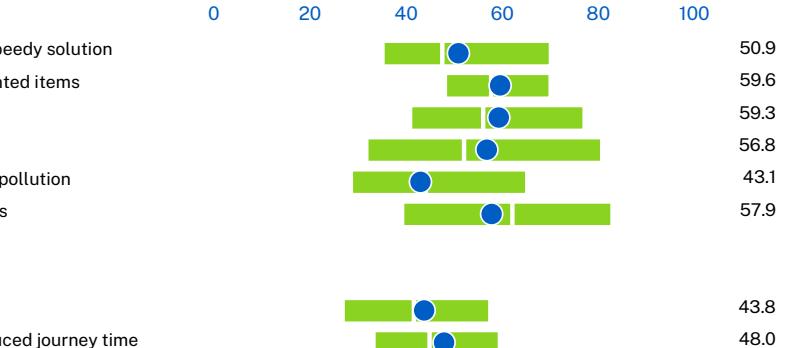
- Traffic congestion is not a problem
- Public transport is satisfactory

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

Score



Activities

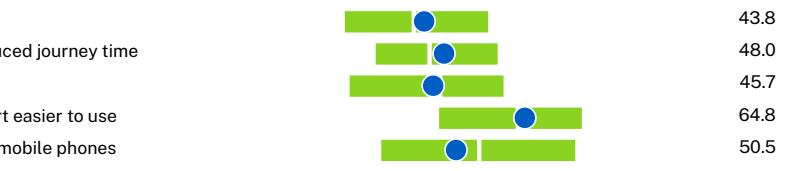
- Green spaces are satisfactory
- Cultural activities (shows, bars, and museums) are satisfactory

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



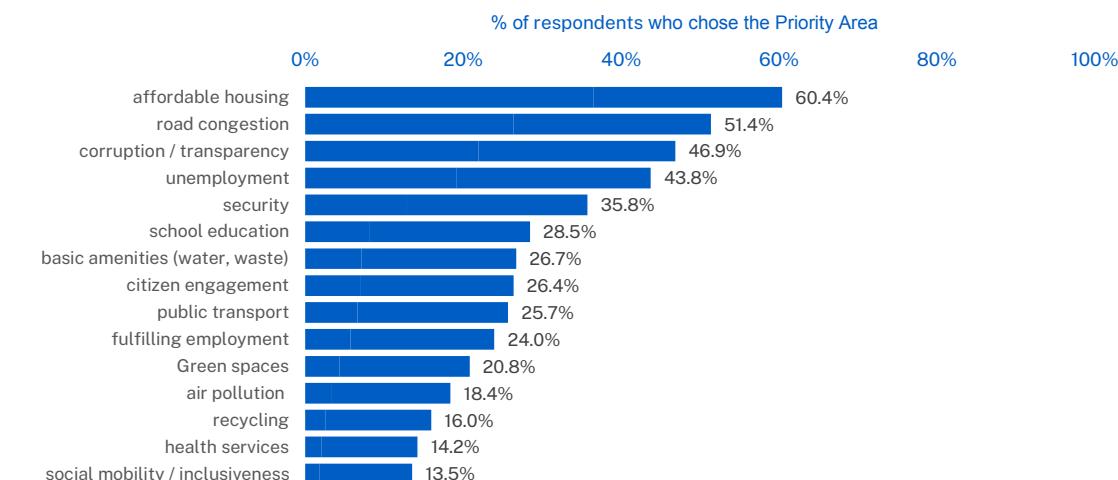
Governance

- 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

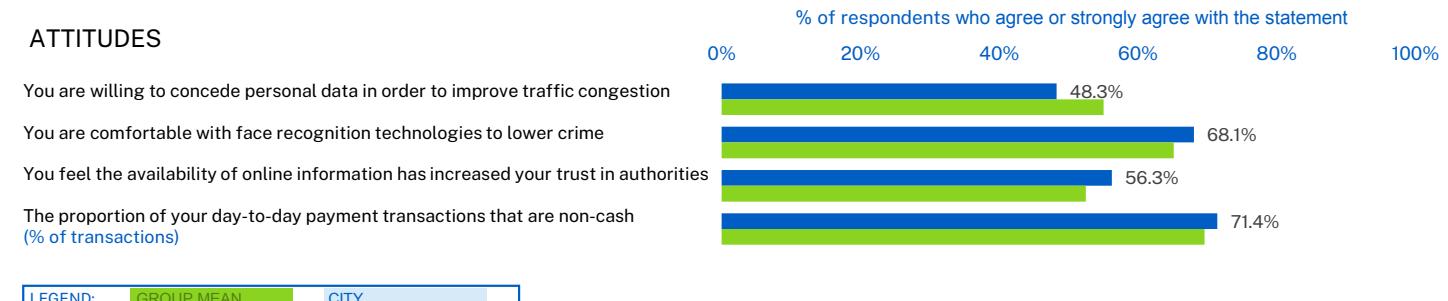
Governance

- 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

PRIORITY AREAS



ATTITUDES



LEGEND: MIN CITY MEAN GROUP MAX

All ratings range from AAA to D

Rio de Janeiro

SMART
CITY
RANKING
139

Out of 142



136 in 2023
Out of 141

SMART
CITY RATING



D in 2023

FACTOR
RATINGS



STRUCTURES
TECHNOLOGIES



GROUP
4

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 13,460,000
(UN World Urbanization Prospects)

HDI 0.783
(Global Data Lab)

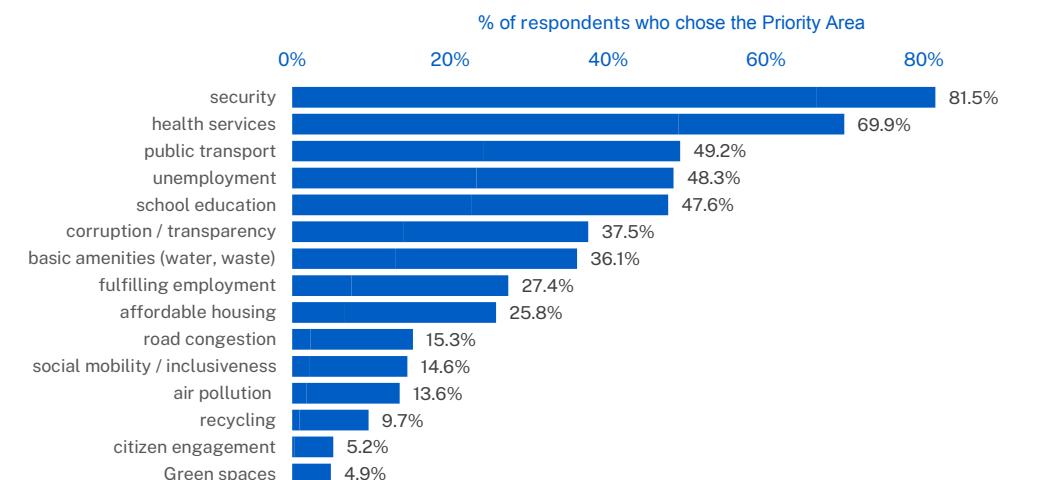


136 in 2023
Out of 141

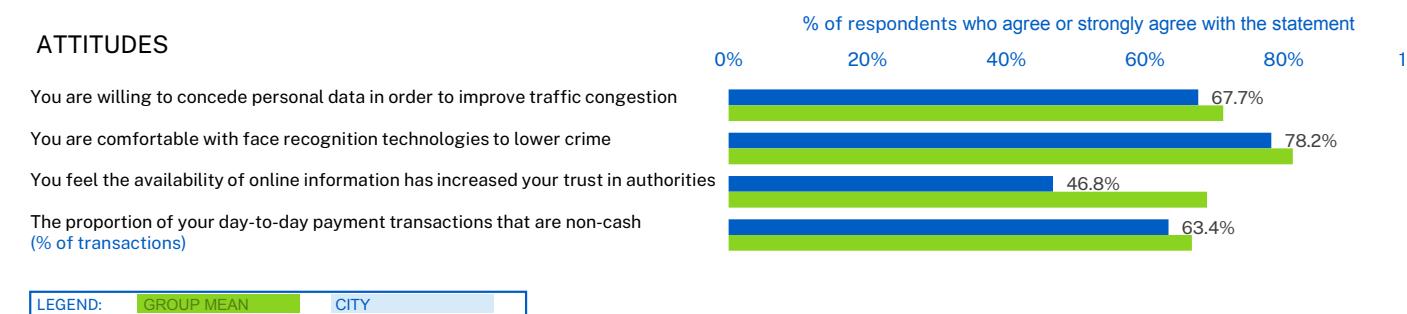
Country

Brazil	2019	2020	2021	2022	1 yr change
HDI	0.764	0.758	0.756	0.760	+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: MIN CITY MEAN GROUP MAX

STRUCTURES TECHNOLOGIES

LEGEND: MIN CITY MEAN GROUP MAX

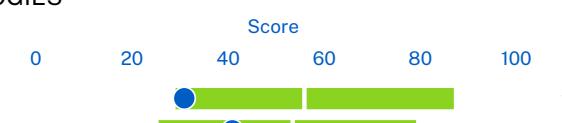
Health & Safety

Basic sanitation meets the needs of the poorest areas



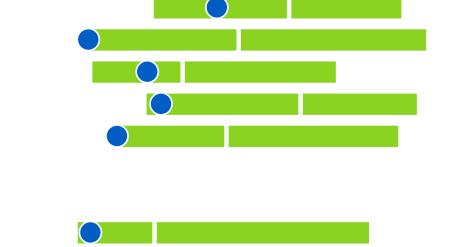
Health & Safety

Online reporting of city maintenance problems provides a speedy solution



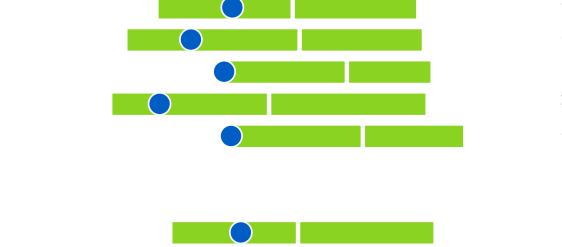
Mobility

Traffic congestion is not a problem



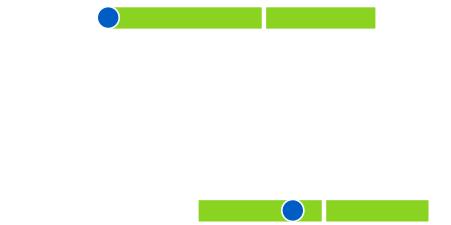
Mobility

Car-sharing Apps have reduced congestion



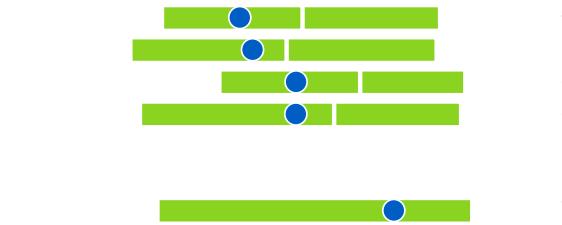
Activities

Green spaces are satisfactory



Activities

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



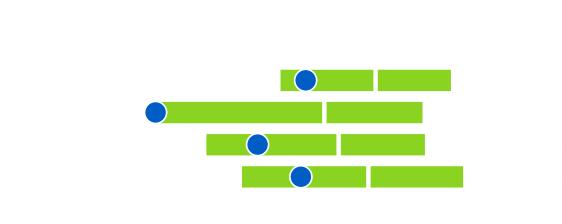
Opportunities (Work & School)

Employment finding services are readily available



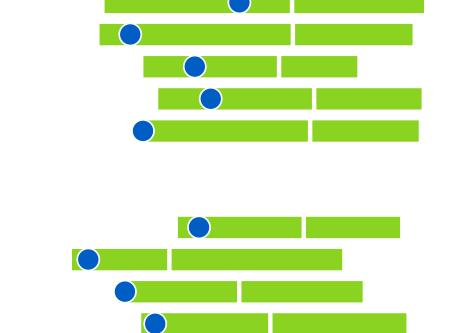
Opportunities (Work & School)

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



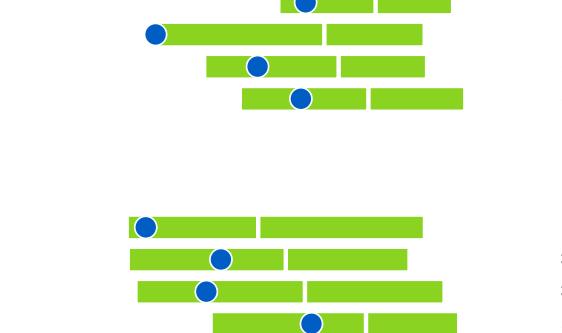
Governance

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

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

Riyadh

SMART
CITY
RANKING
25

Out of 142



30 in 2023
Out of 141

SMART
CITY RATING



BB in 2023

FACTOR
RATINGS



STRUCTURES

TECHNOLOGIES



All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 7,230,000
(UN World Urbanization Prospects)

HDI 0.900
(Global Data Lab)

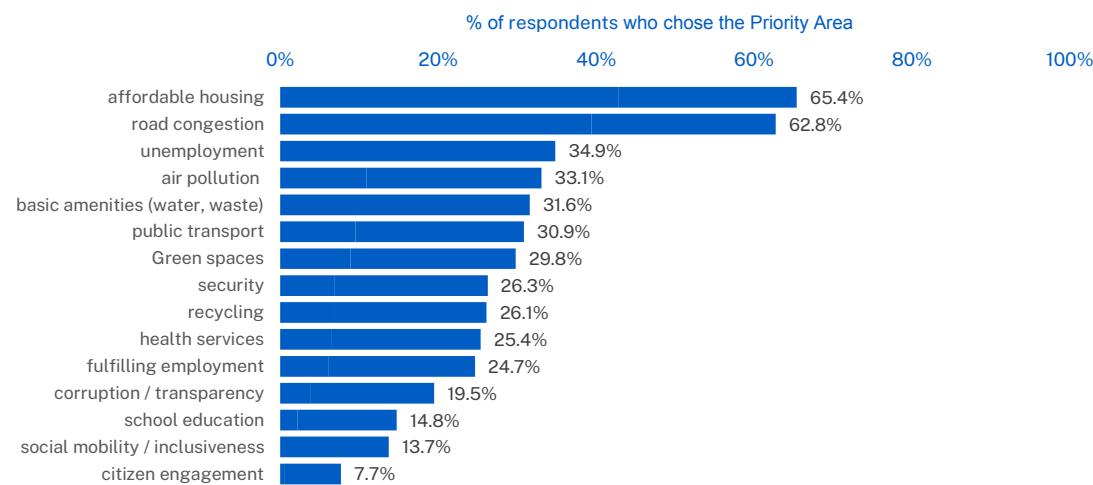


30 in 2023
Out of 141

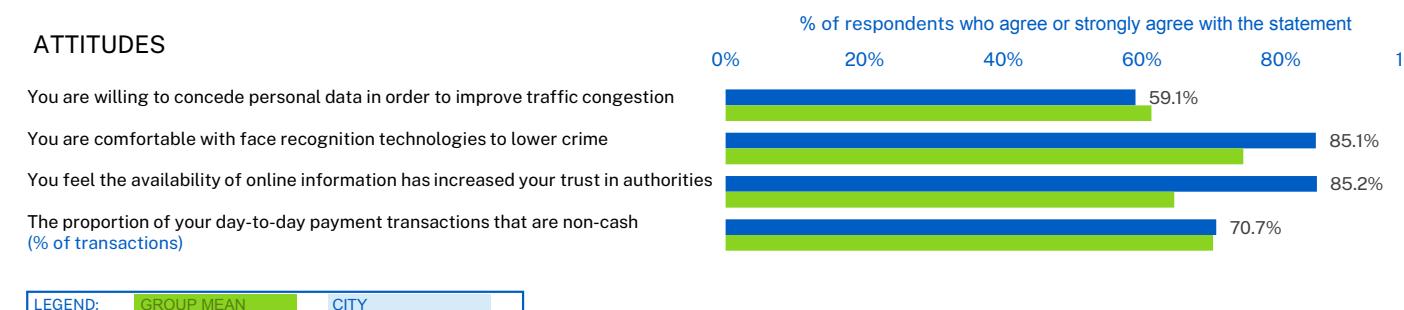
Country

Saudi Arabia	2019	2020	2021	2022	1 yr change
HDI	0.862	0.861	0.867	0.875	+0.008
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

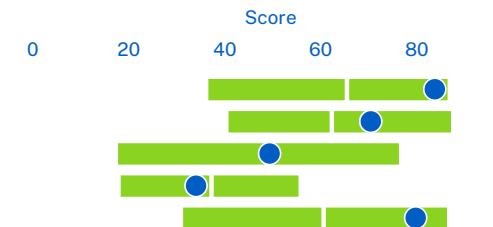


LEGEND: MIN CITY MEAN GROUP MAX

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

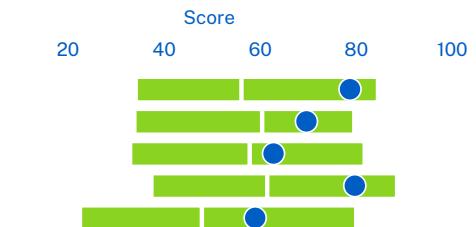
- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor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

LEGEND: MIN CITY MEAN GROUP MAX

TECHNOLOGIES

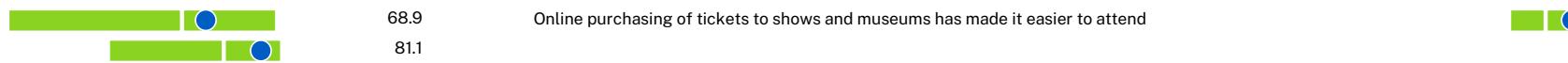
Mobility

- 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



Activities

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



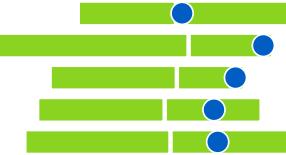
Opportunities (Work & School)

- 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



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



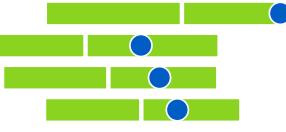
Governance

- 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



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



Rome

SMART
CITY
RANKING
133
Out of 142

122 in 2023
Out of 141

SMART
CITY RATING

CCC

CCC in 2023

FACTOR
RATINGS

CCC

STRUCTURES

CCC

TECHNOLOGIES

GROUP

2

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

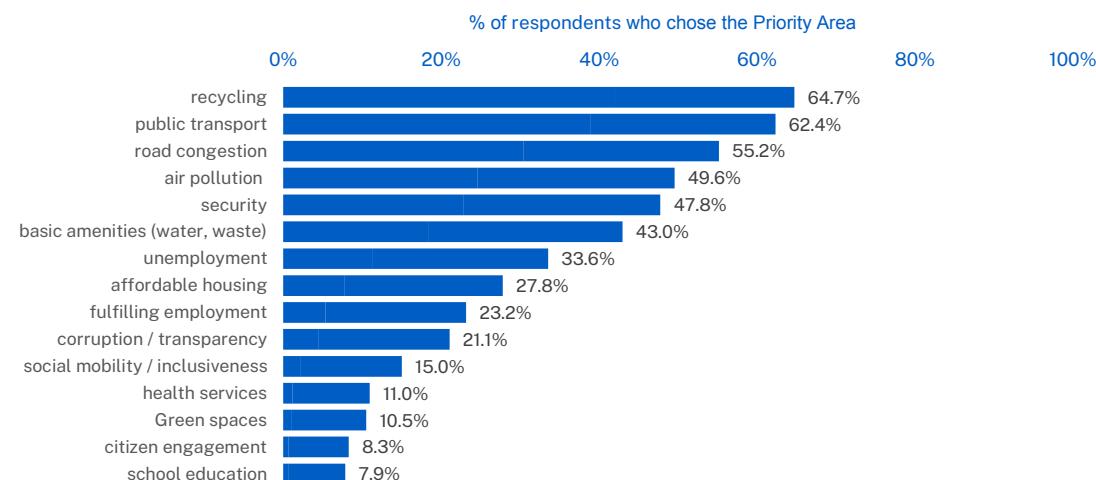
Population 2,810,000
(Eurostat)



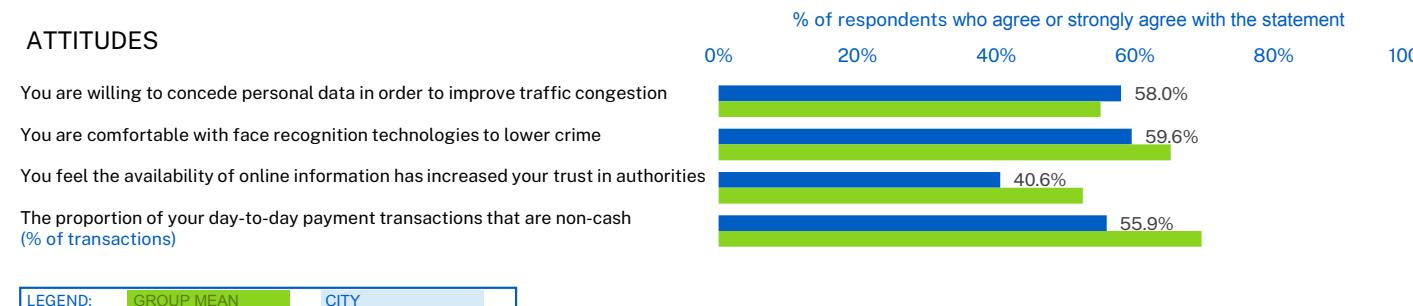
Country

Italy	2019	2020	2021	2022	1 yr change
HDI	0.899	0.892	0.899	0.906	+0.007
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

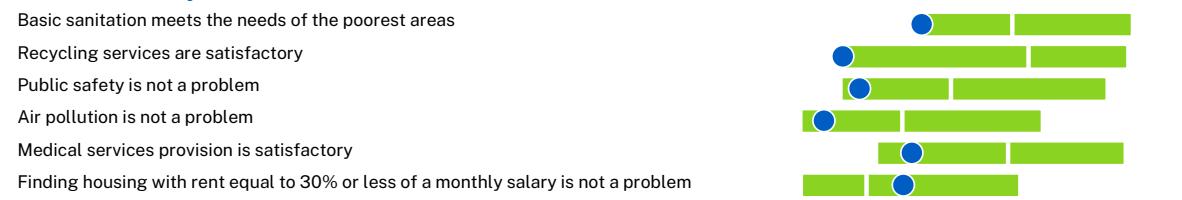


LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



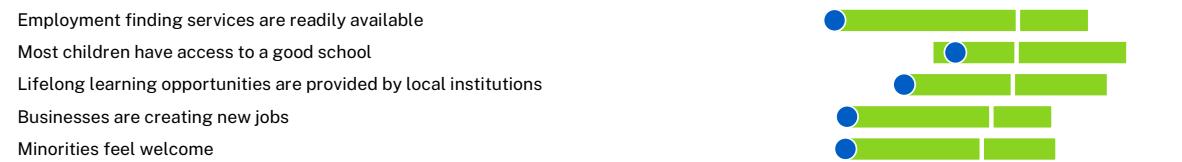
Mobility



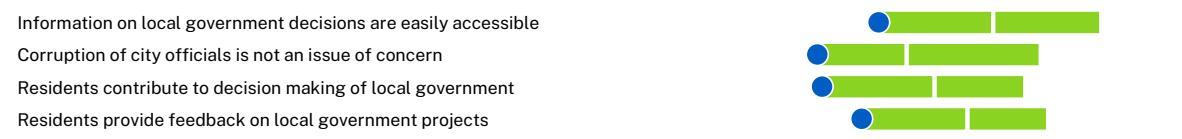
Activities



Opportunities (Work & School)



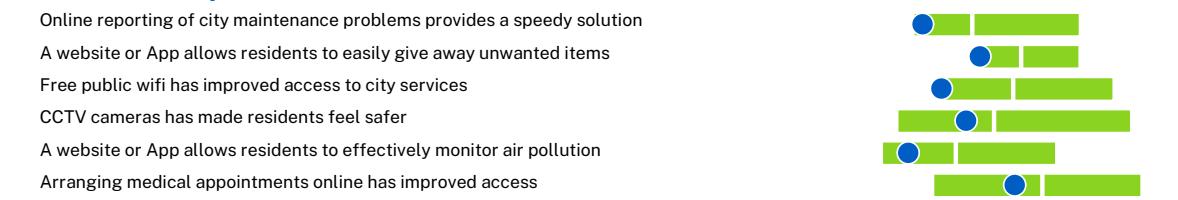
Governance



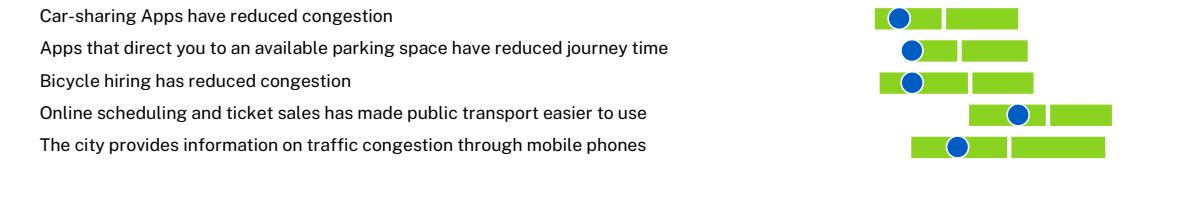
TECHNOLOGIES

LEGEND: MIN CITY MEAN GROUP MAX

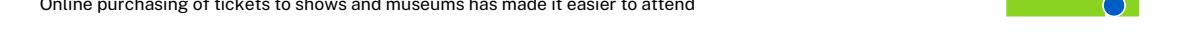
Health & Safety



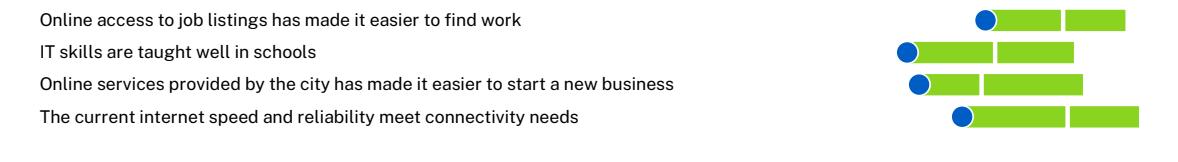
Mobility



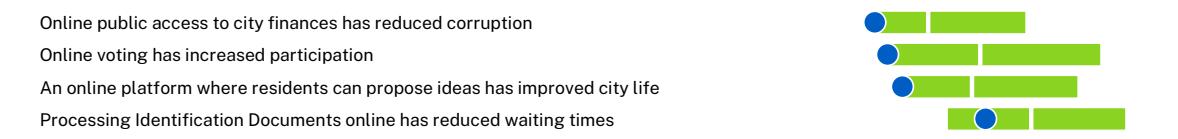
Activities



Opportunities (Work & School)



Governance



Rotterdam

SMART
CITY
RANKING

41

Out of 142

41 in 2023
Out of 141

SMART
CITY RATING

A

A in 2023

FACTOR
RATINGS

BBB

STRUCTURES

A

TECHNOLOGIES

1

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 620,000
(Eurostat)

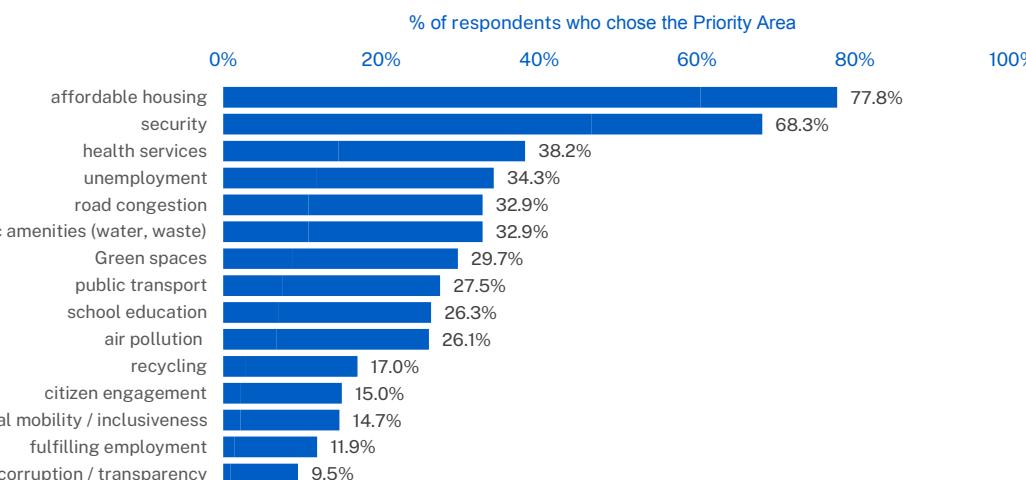
HDI 0.941
(Global Data Lab)



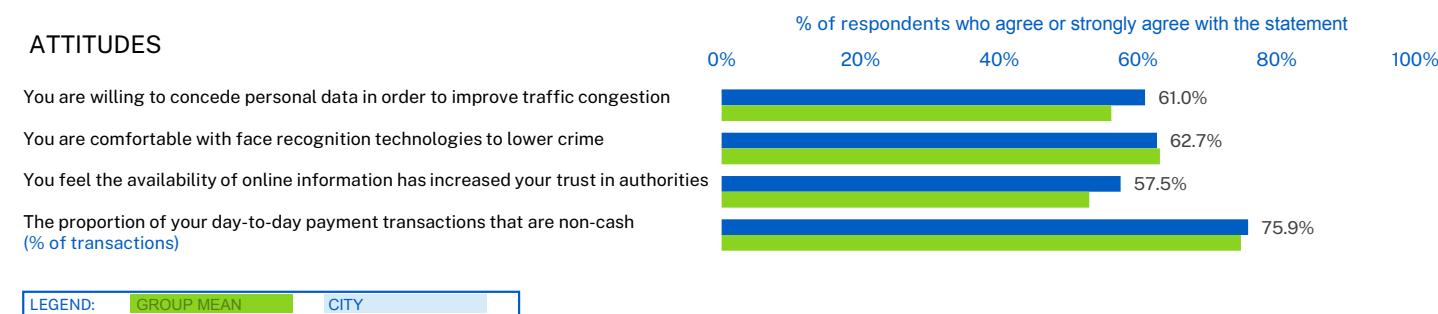
Country

Netherlands	2019	2020	2021	2022	1 yr change
HDI	0.941	0.938	0.941	0.946	+0.005
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

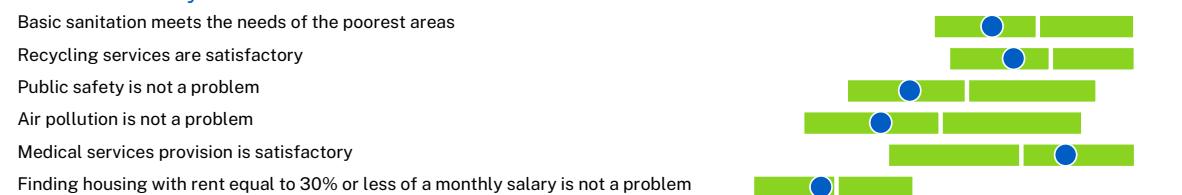


LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



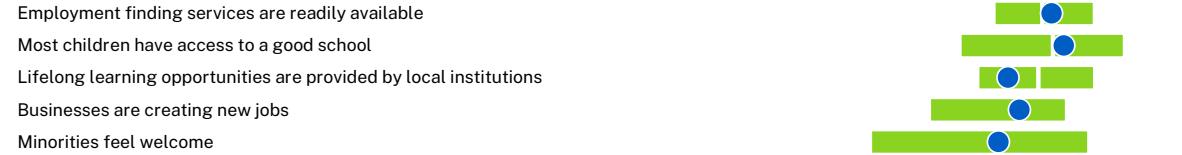
Mobility



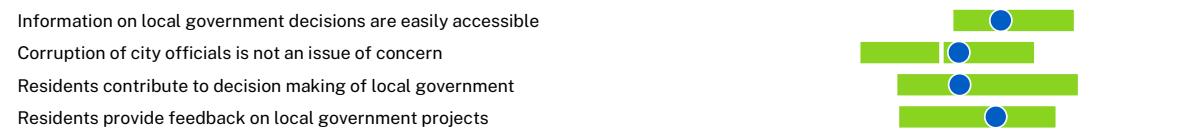
Activities



Opportunities (Work & School)



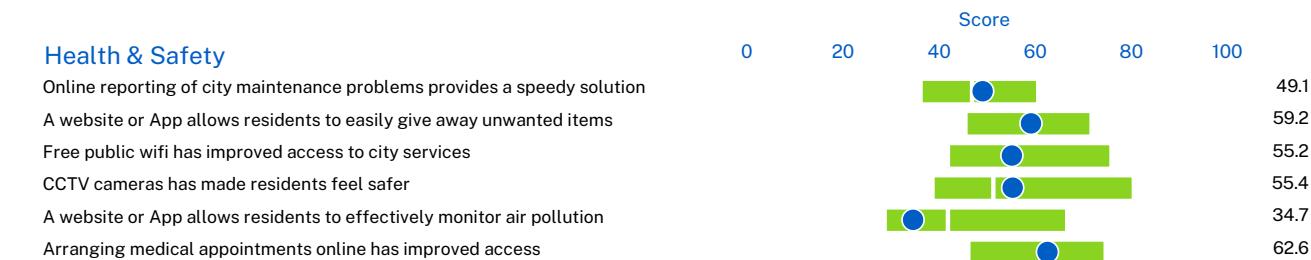
Governance



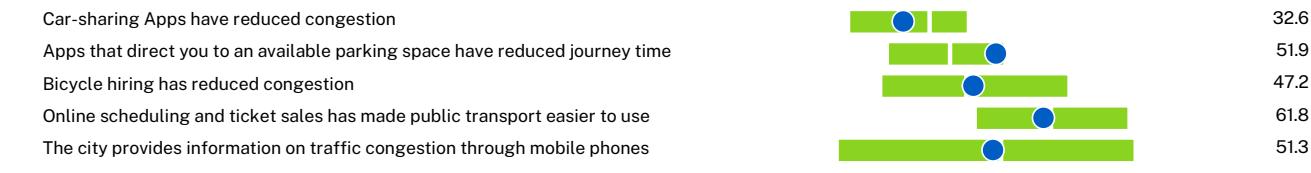
TECHNOLOGIES

Score

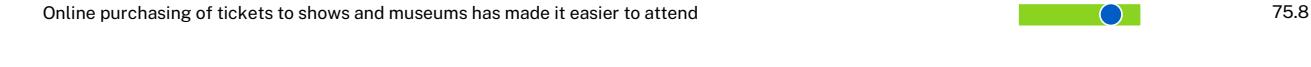
Health & Safety



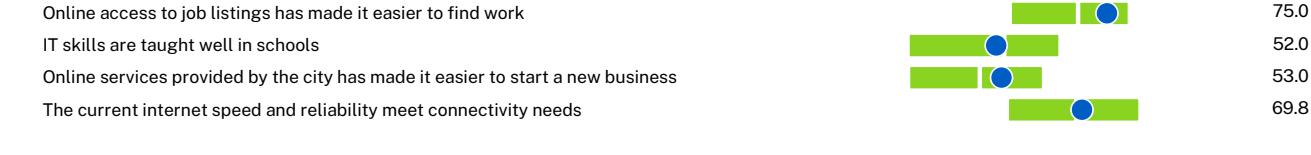
Mobility



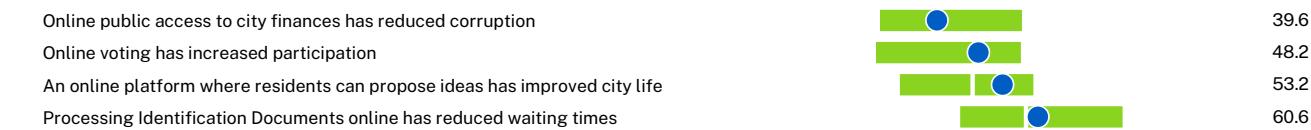
Activities



Opportunities (Work & School)



Governance



San Francisco

SMART
CITY
RANKING
75

Out of 142



68 in 2023
Out of 141

SMART
CITY RATING

BB

BB in 2023

FACTOR
RATINGS

BB

STRUCTURES

B

TECHNOLOGIES

2

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 870,000
(UN Data)

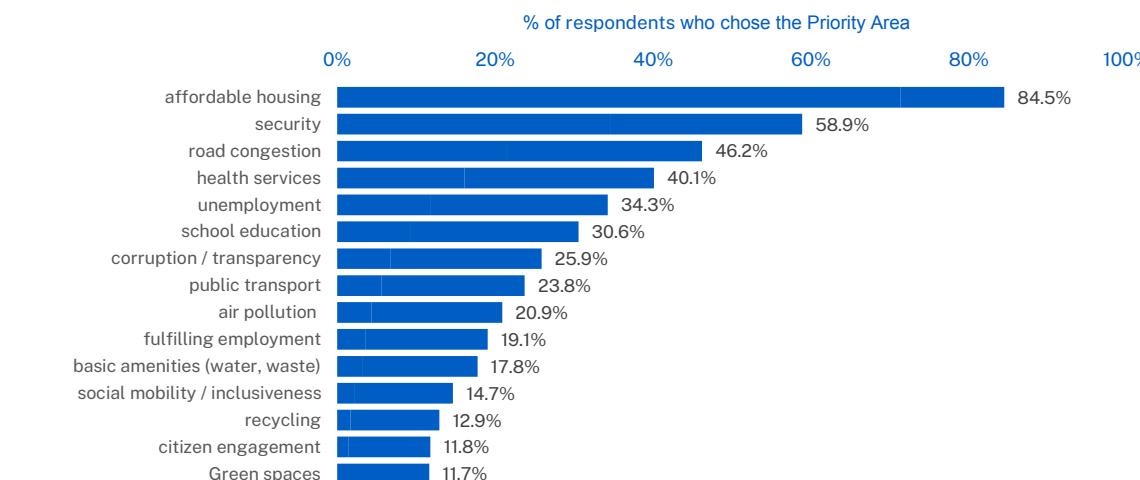
HDI 0.931
(Global Data Lab)



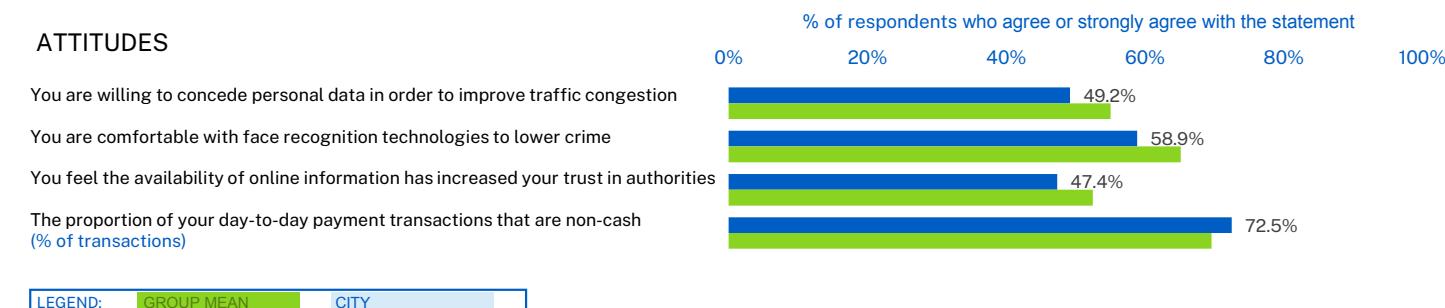
Country

USA	2019	2020	2021	2022	1 yr change
HDI	0.933	0.923	0.921	0.927	+0.006
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



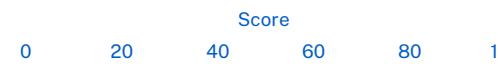
LEGEND: MIN CITY MEAN GROUP MAX

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



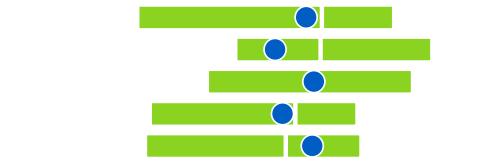
Activities

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



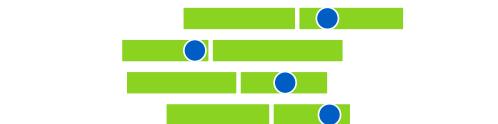
Opportunities (Work & School)

- 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



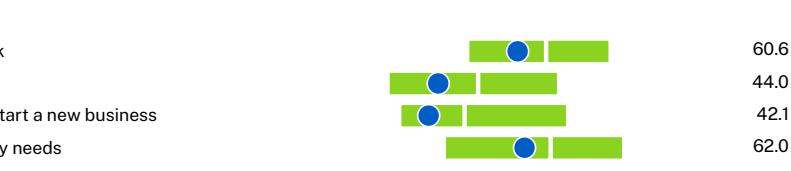
Activities

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



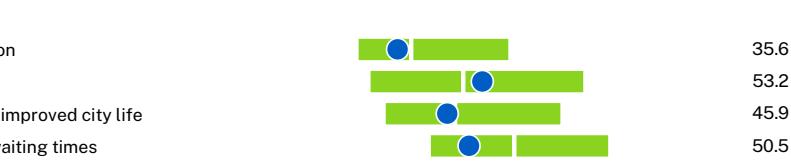
Opportunities (Work & School)

- 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



San José

SMART
CITY
RANKING
125

Out of 142



127 in 2023
Out of 141

SMART
CITY RATING

C

C in 2023

FACTOR
RATINGS

CC

STRUCTURES

C

TECHNOLOGIES

3

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 350,000
(UN Data)

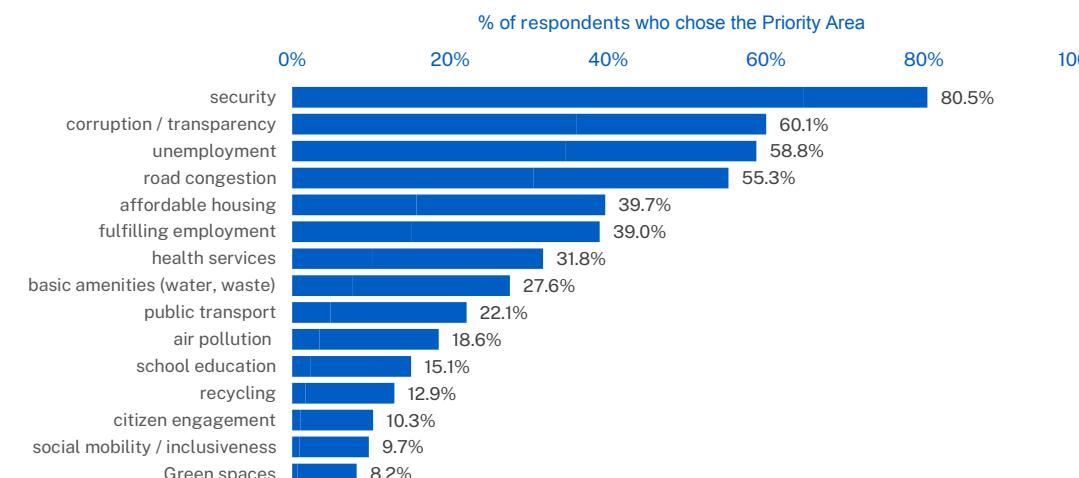
HDI 0.826
(Global Data Lab)



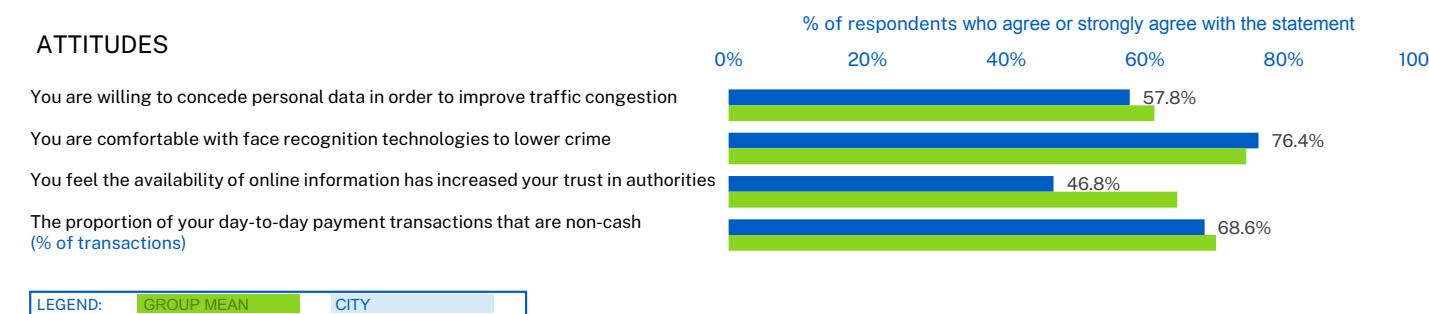
Country

Costa Rica	2019	2020	2021	2022	1 yr change
HDI	0.811	0.811	0.804	0.806	+0.002
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



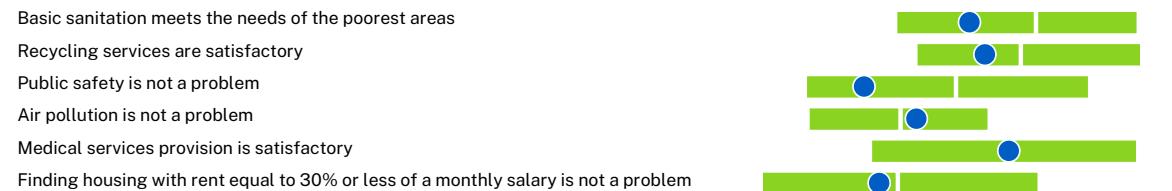
ATTITUDES



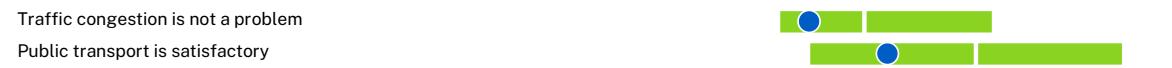
LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

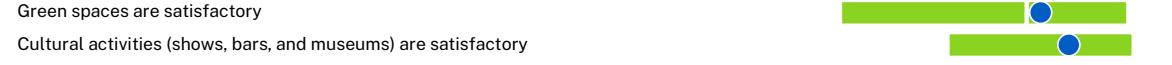
Health & Safety



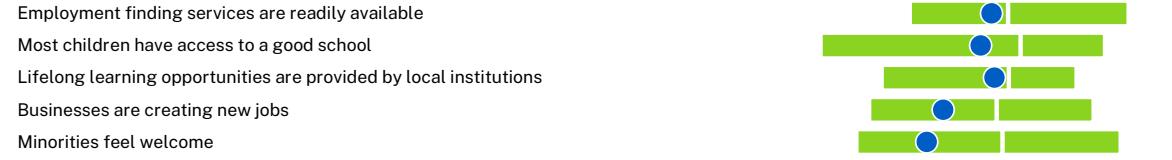
Mobility



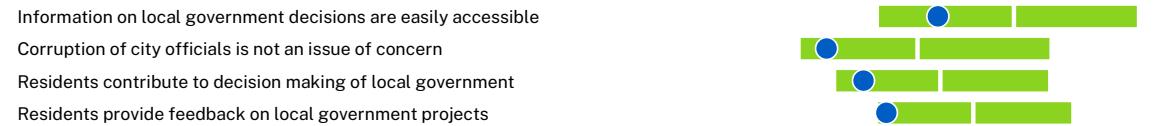
Activities



Opportunities (Work & School)

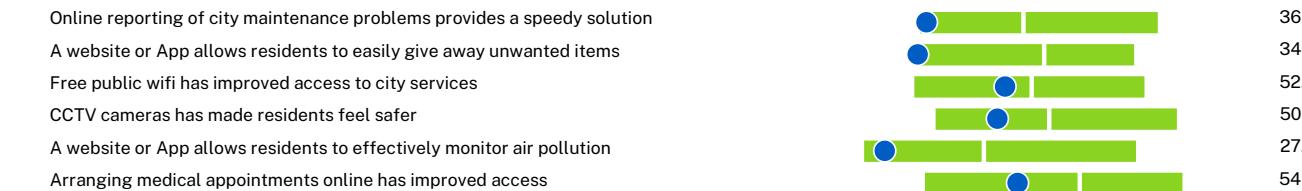


Governance

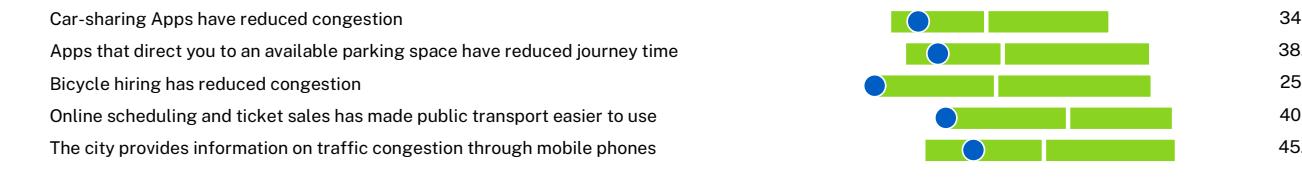


TECHNOLOGIES

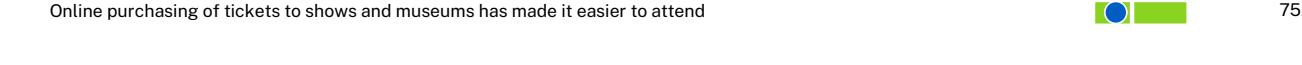
Health & Safety



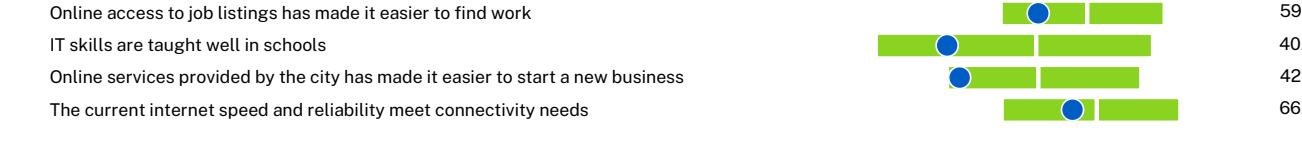
Mobility



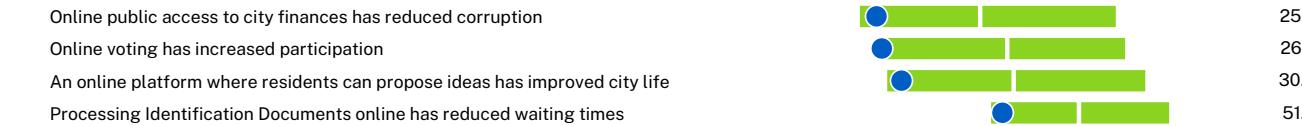
Activities



Opportunities (Work & School)



Governance



SMART
CITY
RANKING
141

Out of 142



140 in 2023
Out of 141

SMART
CITY RATING

D

D in 2023

FACTOR
RATINGS

D

STRUCTURES

D

TECHNOLOGIES

4

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 3,180,000
(UN World Urbanization Prospects)

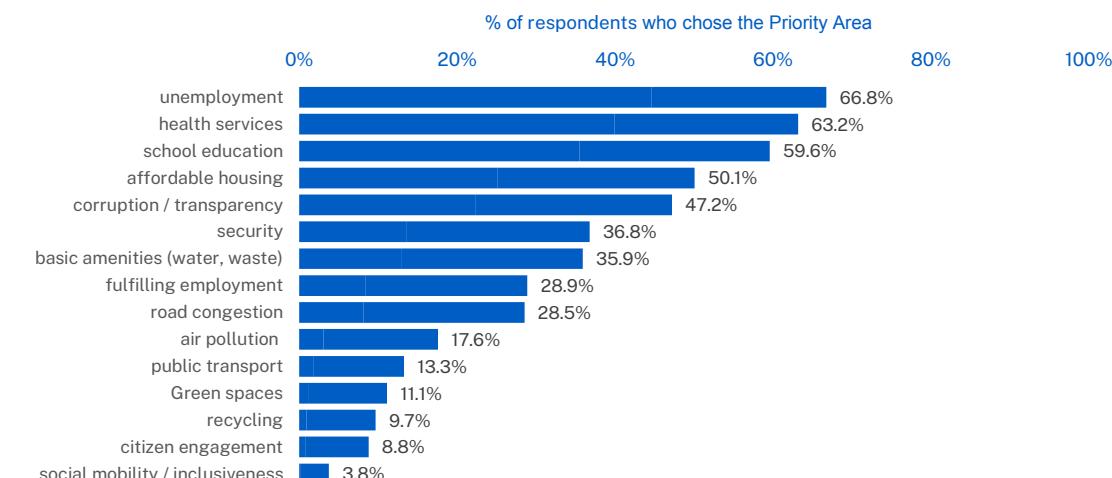
HDI 0.521
(Global Data Lab)



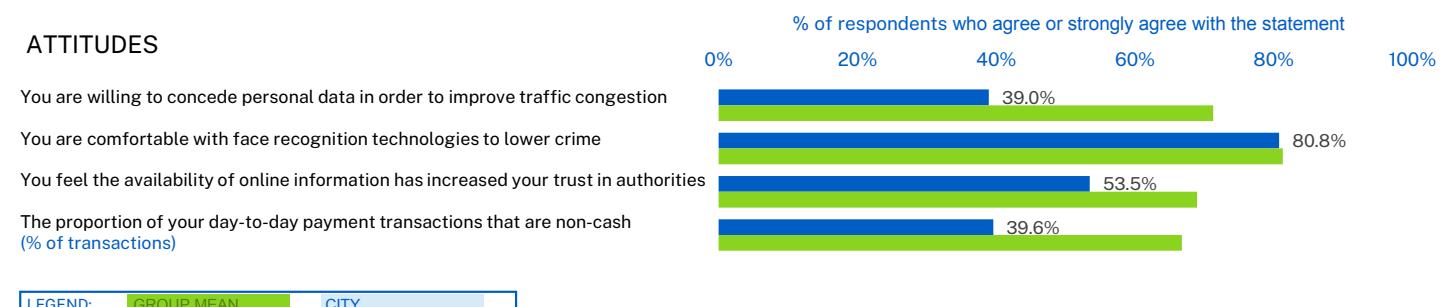
Country

Yemen	2019	2020	2021	2022	1 yr change
HDI	0.430	0.430	0.425	0.424	-0.001
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



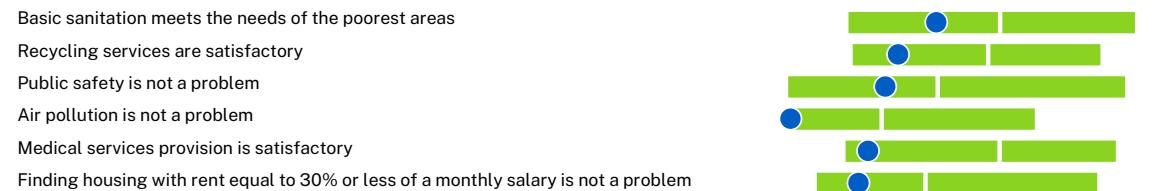
ATTITUDES



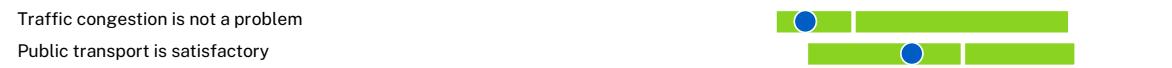
LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

Health & Safety



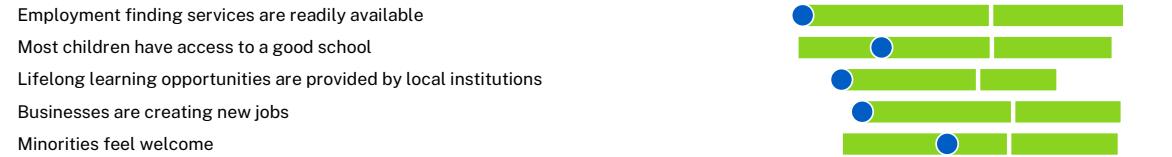
Mobility



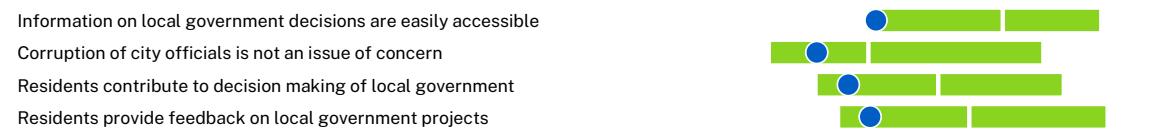
Activities



Opportunities (Work & School)



Governance

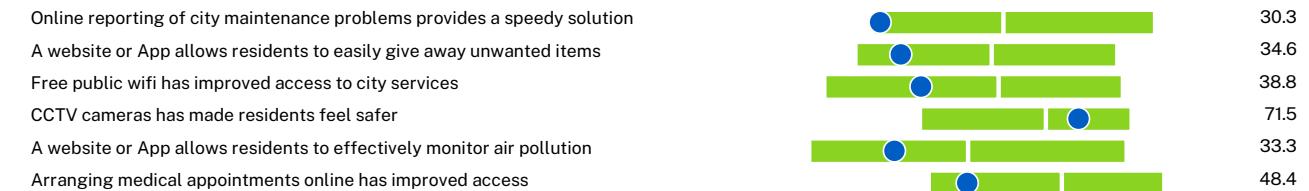


TECHNOLOGIES

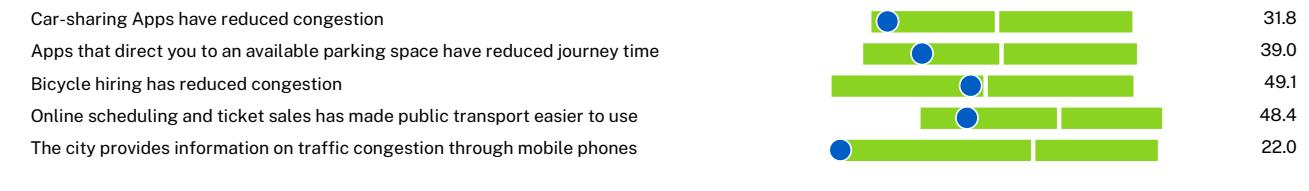
LEGEND: MIN CITY MEAN GROUP MAX

TECHNOLOGIES

Health & Safety



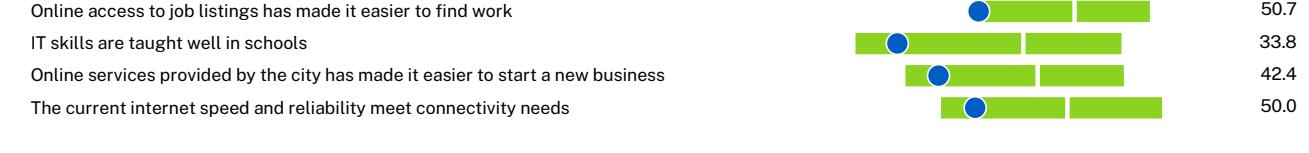
Mobility



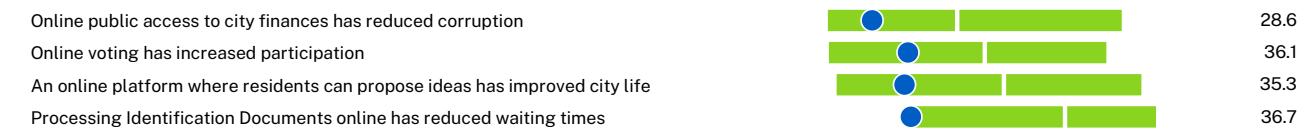
Activities



Opportunities (Work & School)



Governance



Santiago

SMART
CITY
RANKING
117

Out of 142



119 in 2023
Out of 141

SMART
CITY RATING



C in 2023

FACTOR
RATINGS



STRUCTURES



TECHNOLOGIES



All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 5,270,000
(UN World Urbanization Prospects)

HDI 0.886
(Global Data Lab)



SMART
CITY RATING

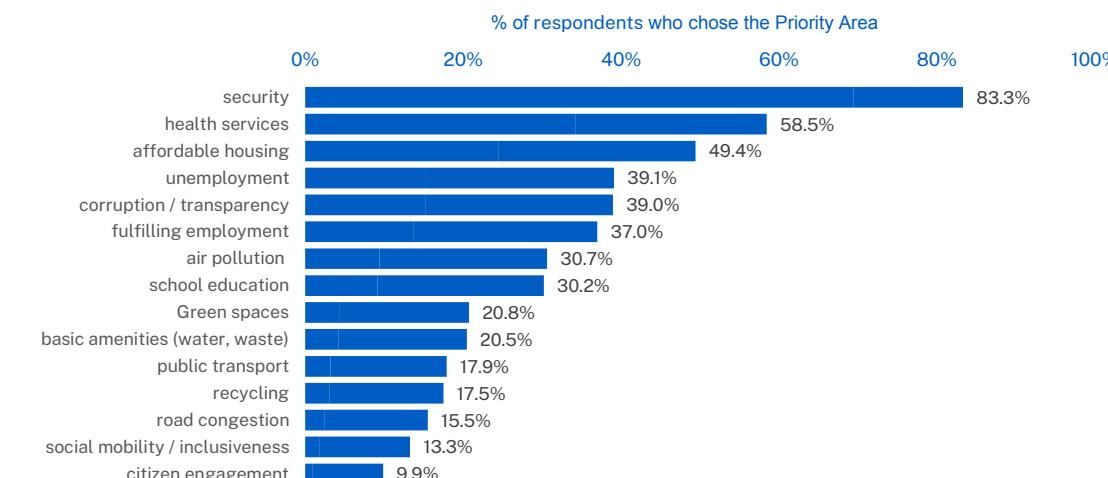


C in 2023

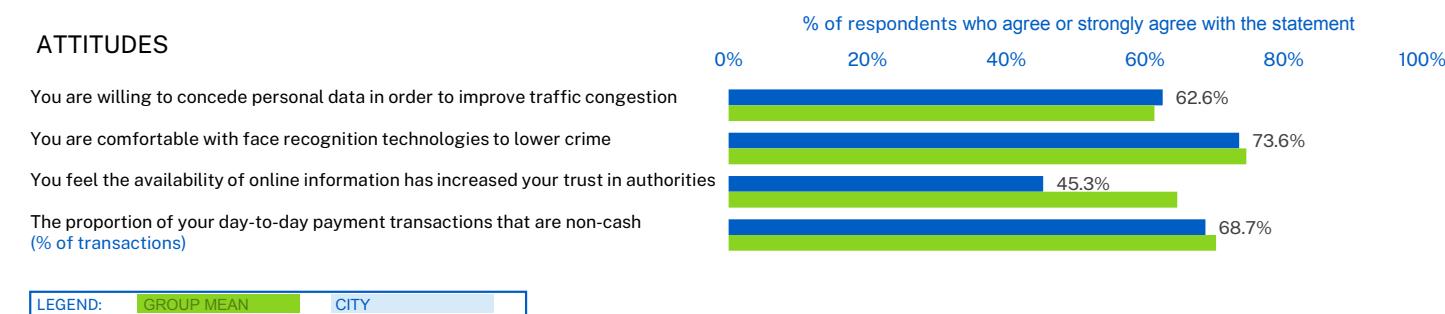
Country

Chile	2019	2020	2021	2022	1 yr change
HDI	0.859	0.849	0.856	0.860	+0.004
Life expectancy at birth	80.3	79.4	78.9	79.5	+0.6
Expected years of schooling	16.6	16.3	16.8	16.8	+0.0
Mean years of schooling	10.9	11.1	11.1	11.1	+0.0
GNI per capita (PPP \$)	23,893	21,509	23,853	24,431	+578

PRIORITY AREAS



ATTITUDES



LEGEND: GROUP MEAN CITY

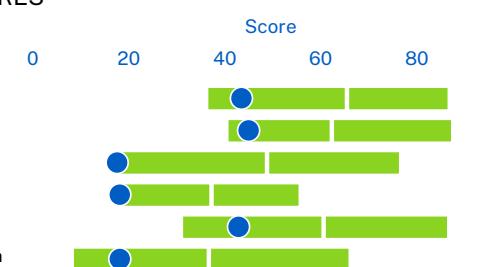
STRUCTURES

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

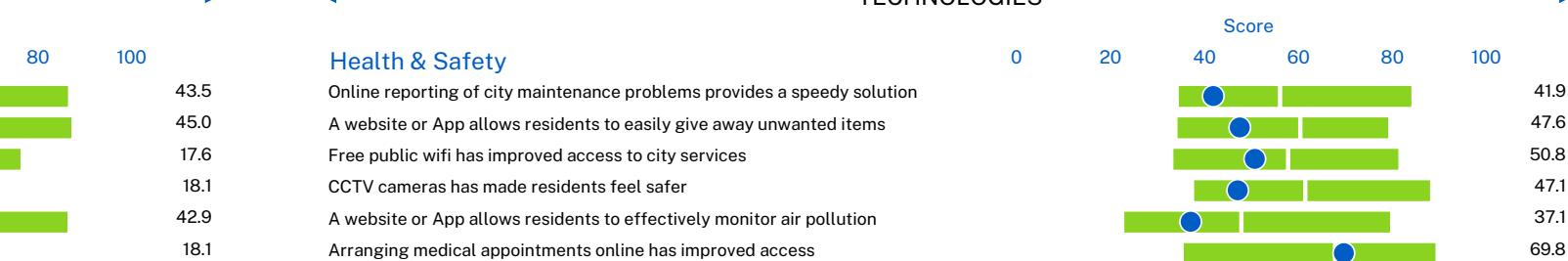
Health & Safety

- 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



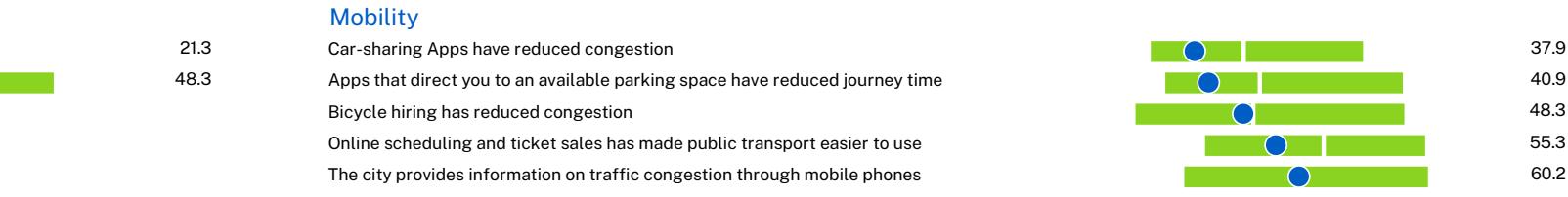
Mobility

- 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



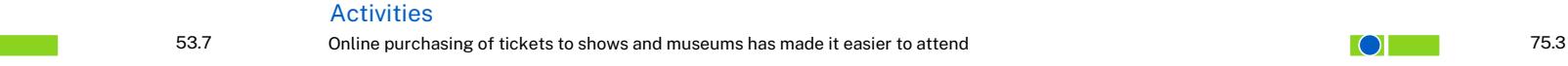
Activities

- 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



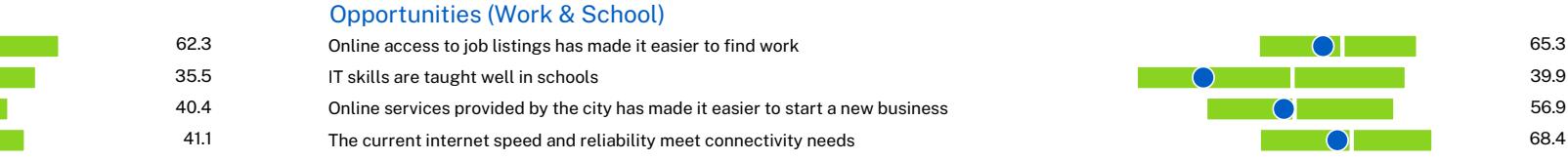
Opportunities (Work & School)

- 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



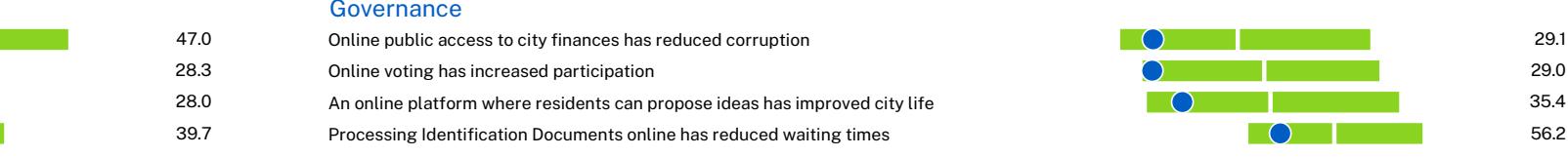
Governance

- 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



Sao Paulo

SMART
CITY
RANKING
132

Out of 142



130 in 2023
Out of 141

SMART
CITY RATING



D in 2023

FACTOR
RATINGS



STRUCTURES
TECHNOLOGIES



GROUP
4

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 22,040,000
(UN World Urbanization Prospects)

HDI 0.780
(Global Data Lab)



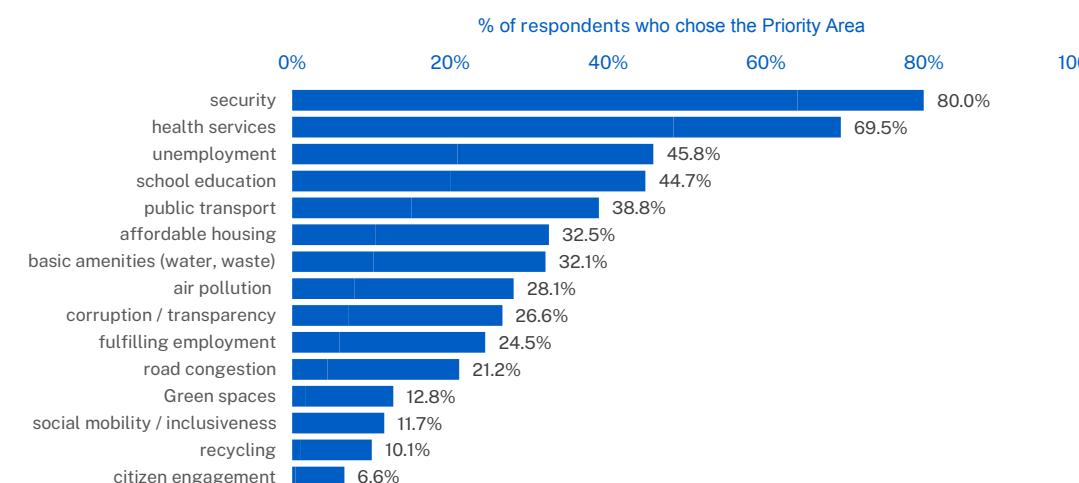
130 in 2023

Out of 141

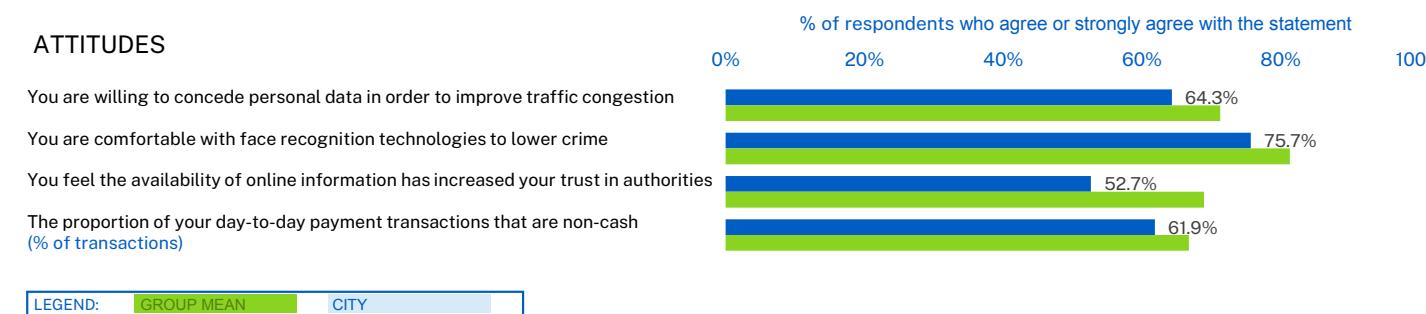
Country

Brazil	2019	2020	2021	2022	1 yr change
HDI	0.764	0.758	0.756	0.760	+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

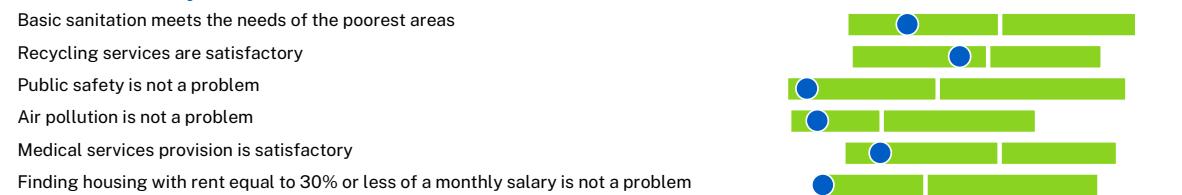


LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



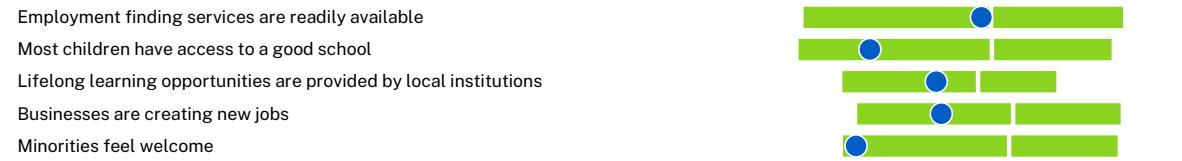
Mobility



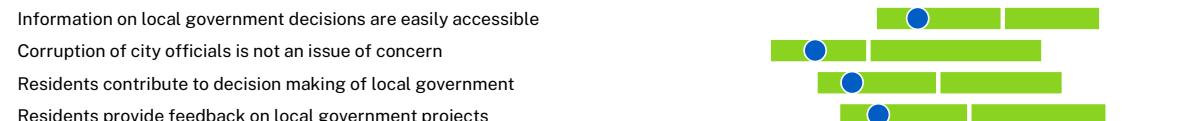
Activities



Opportunities (Work & School)

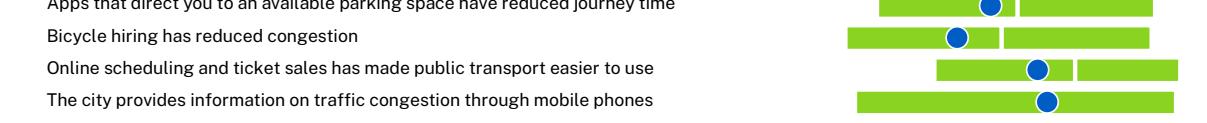


Governance

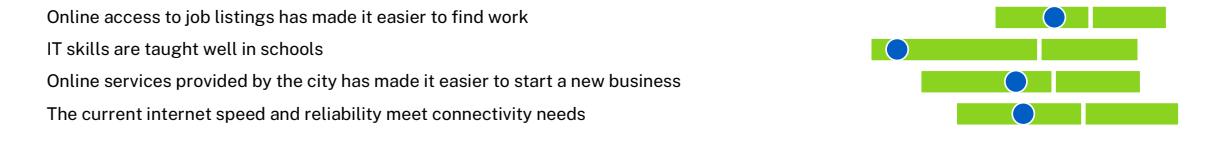


TECHNOLOGIES

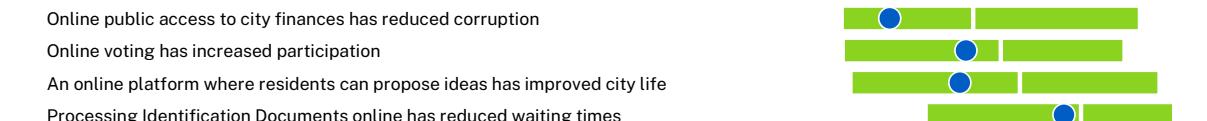
Activities



Opportunities (Work & School)



Governance



All ratings range from AAA to D

Seattle

SMART
CITY
RANKING
63

Out of 142



55 in 2023
Out of 141

SMART
CITY RATING

BB

BB in 2023

FACTOR
RATINGS

BB

STRUCTURES

B

TECHNOLOGIES

2

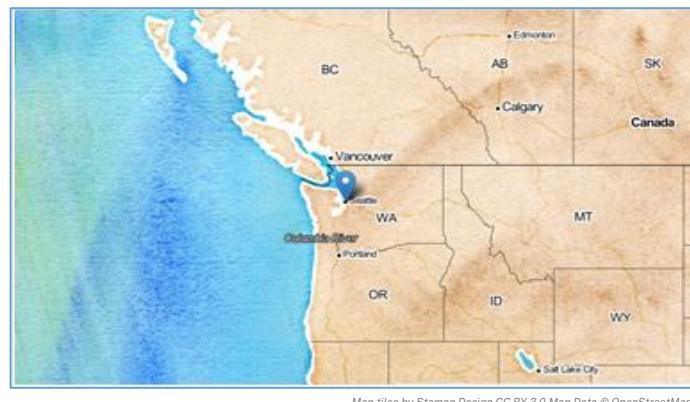
All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 740,000
(UN Data)

HDI 0.940
(Global Data Lab)

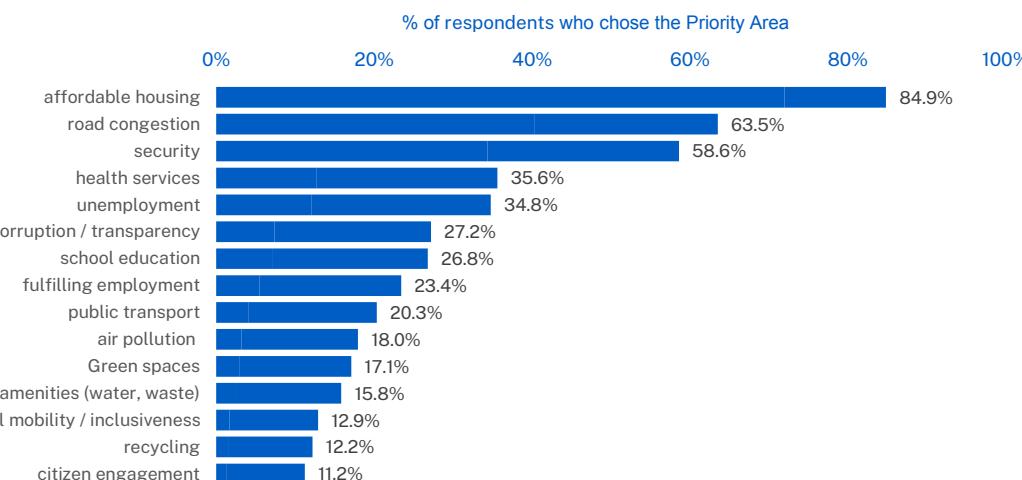


55 in 2023
Out of 141

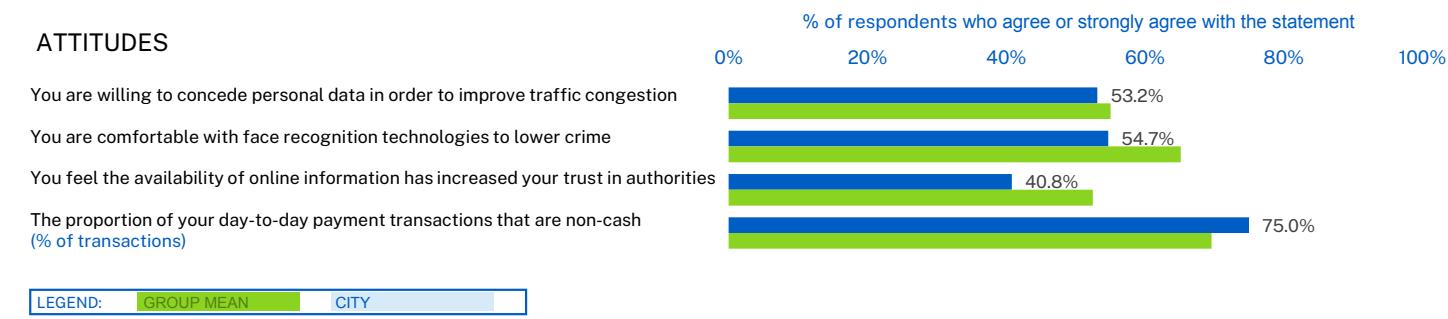
Country

USA	2019	2020	2021	2022	1 yr change
HDI	0.933	0.923	0.921	0.927	+0.006
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: 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

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

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

Seoul

SMART
CITY
RANKING
17

Out of 142



16 in 2023
Out of 141

SMART
CITY RATING

AA

AA in 2023

FACTOR
RATINGS

BBB

STRUCTURES

AAA

TECHNOLOGIES

GROUP

1

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 9,960,000
(UN World Urbanization Prospects)

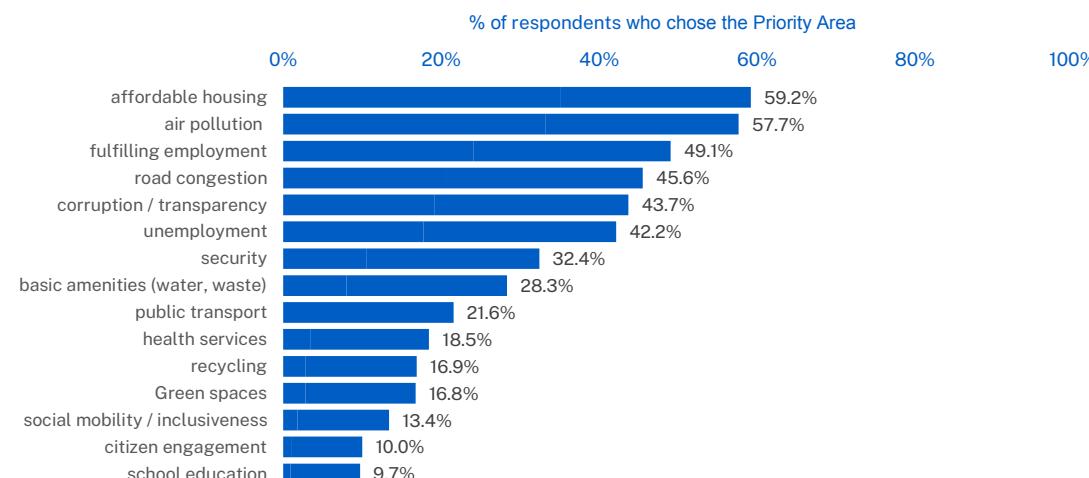
HDI 0.952
(Global Data Lab)



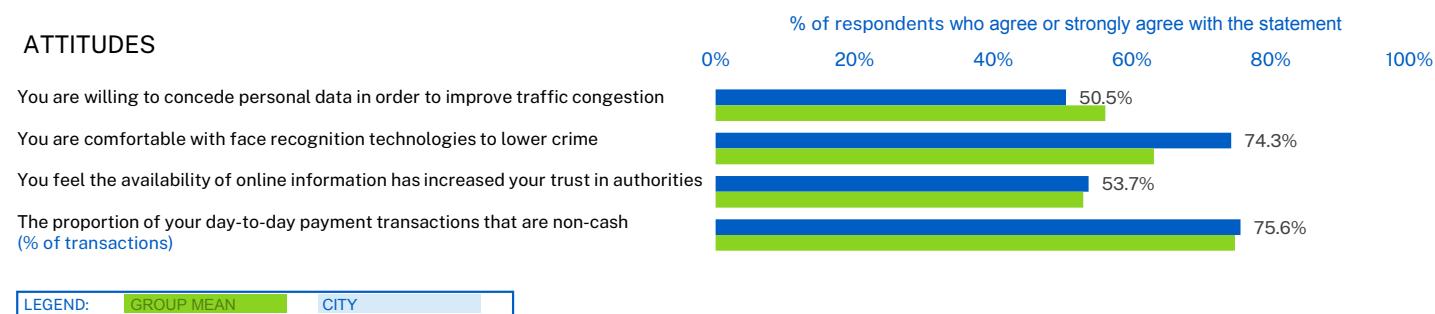
Country

Korea, South	2019	2020	2021	2022	1 yr change
HDI	0.922	0.922	0.926	0.929	+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: 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

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

Mobility

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

Score: 0 20 40 60 80 100

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

Score: 0 20 40 60 80 100

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

Score: 0 20 40 60 80 100

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

Score: 0 20 40 60 80 100

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

Shanghai

SMART
CITY
RANKING
19

Out of 142



25 in 2023
Out of 141

SMART
CITY RATING

BB

BB in 2023

FACTOR
RATINGS

BB

STRUCTURES

BB

TECHNOLOGIES

3

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 27,060,000
(UN World Urbanization Prospects)

HDI 0.880
(Global Data Lab)

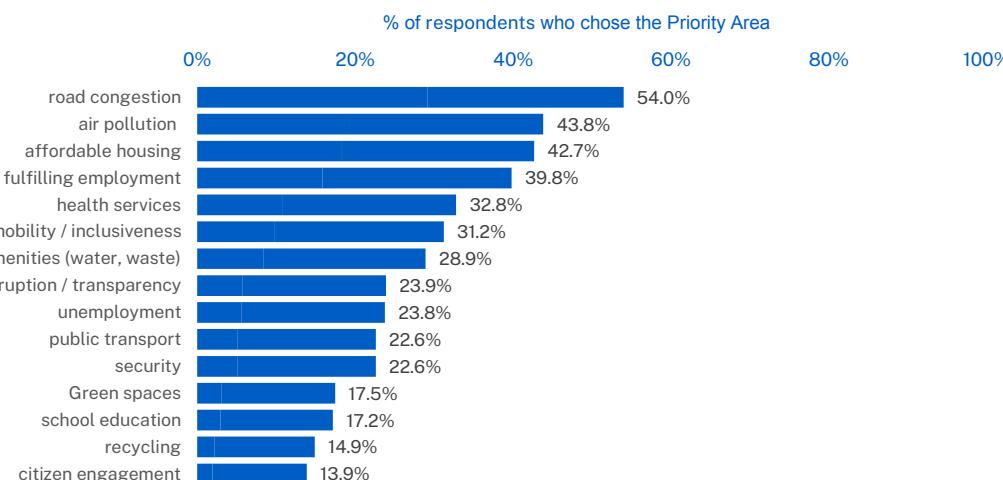


Map tiles by Stamen Design CC BY 3.0 Map Data © OpenStreetMap

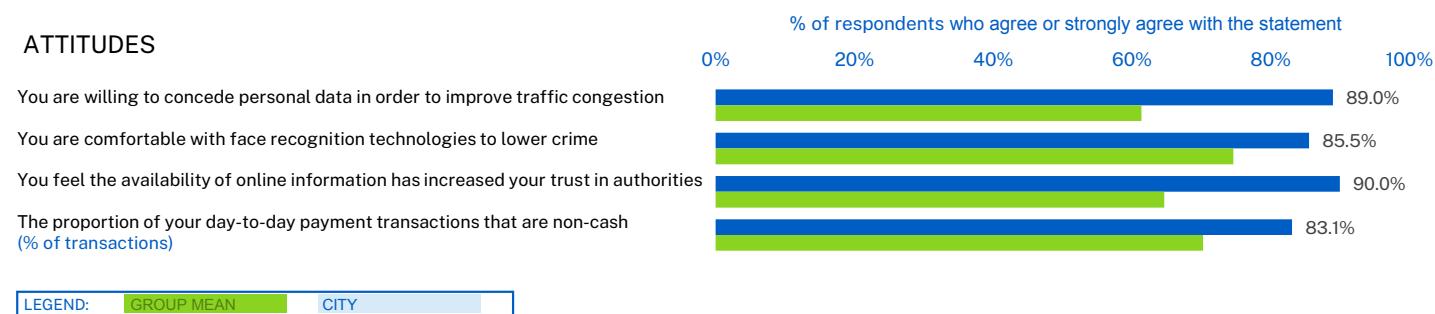
Country

China	2019	2020	2021	2022	1 yr change
HDI	0.775	0.781	0.785	0.788	+0.003
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

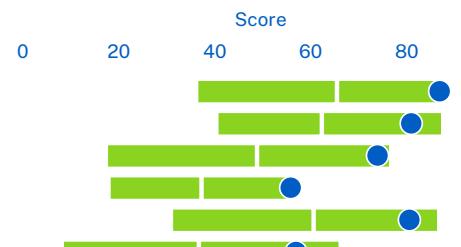
STRUCTURES

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety

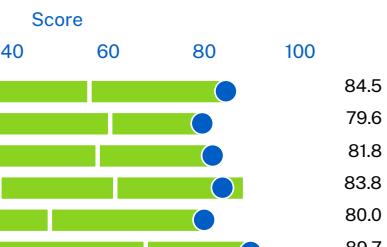
- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem



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



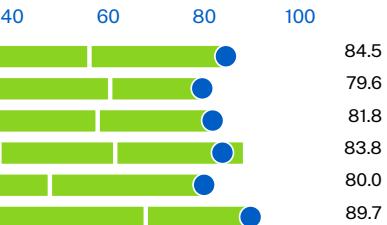
Mobility

- 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



Shenzhen

SMART
CITY
RANKING
60
Out of 142



66 in 2023
Out of 141

SMART
CITY RATING

CCC

CCC in 2023

FACTOR
RATINGS

CCC

STRUCTURES

CCC

TECHNOLOGIES

GROUP

4

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 12,360,000
(UN World Urbanization Prospects)

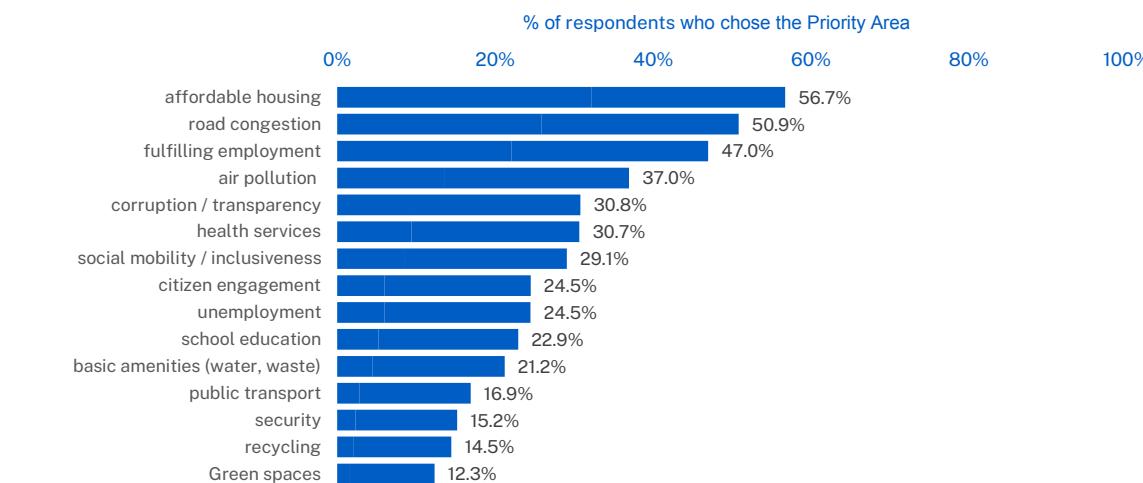
HDI 0.799
(Global Data Lab)



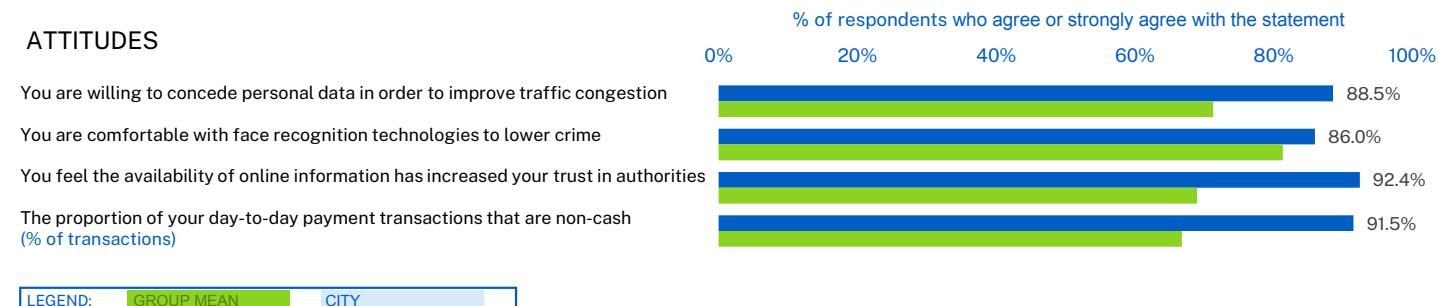
Country

China	2019	2020	2021	2022	1 yr change
HDI	0.775	0.781	0.785	0.788	+0.003
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

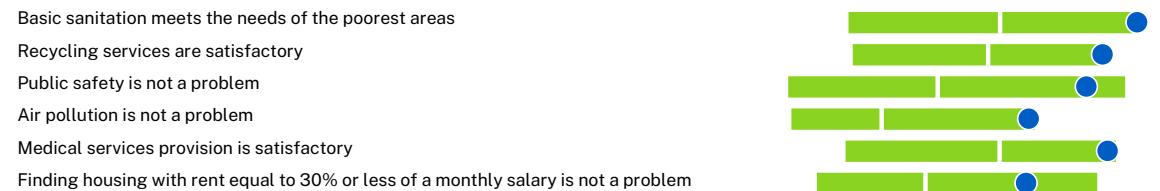


LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



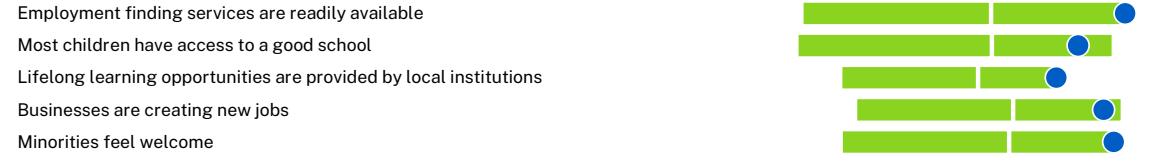
Mobility



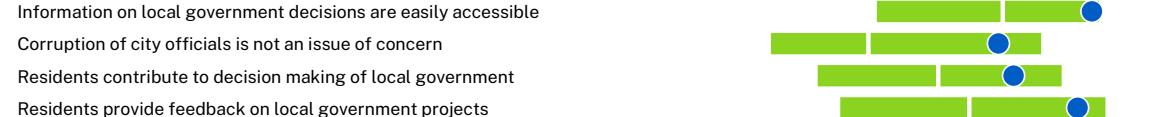
Activities



Opportunities (Work & School)



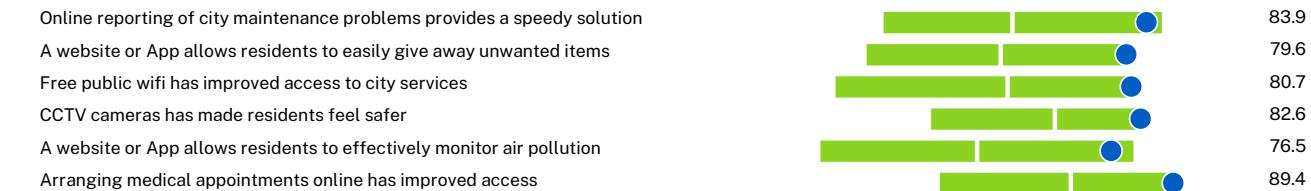
Governance



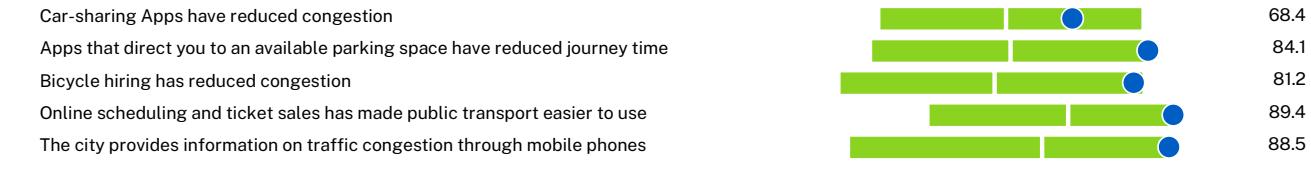
TECHNOLOGIES

Score

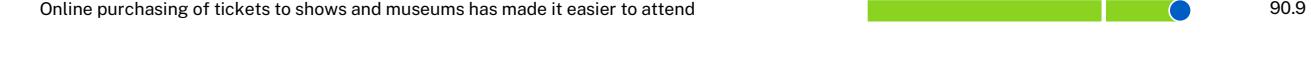
Health & Safety



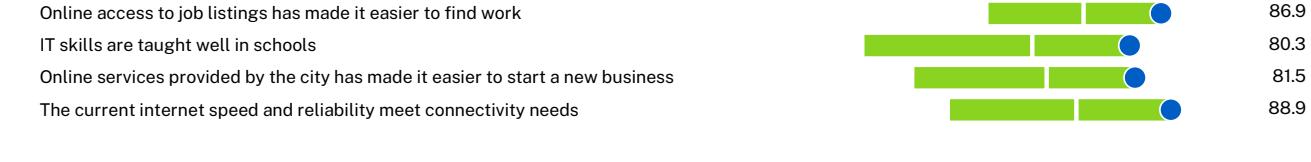
Mobility



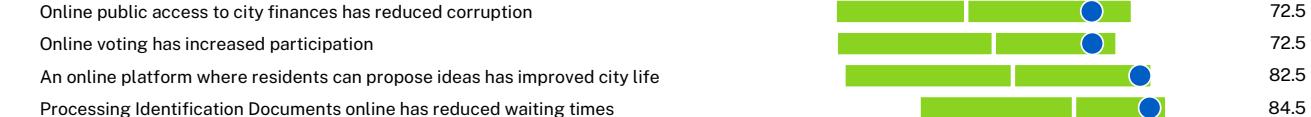
Activities



Opportunities (Work & School)



Governance



All ratings range
from AAA to D

Singapore

SMART
CITY
RANKING
5

Out of 142



7 in 2023
Out of 141

SMART
CITY RATING



A in 2023

FACTOR
RATINGS



STRUCTURES

TECHNOLOGIES



GROUP



All ratings range
from AAA to D

BACKGROUND INFORMATION

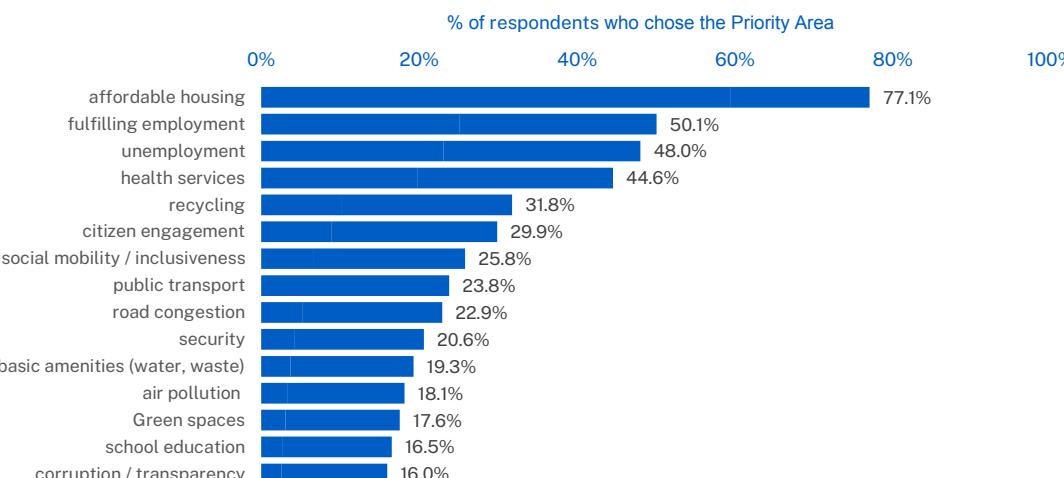
City

Population 5,940,000
(UN World Urbanization Prospects)

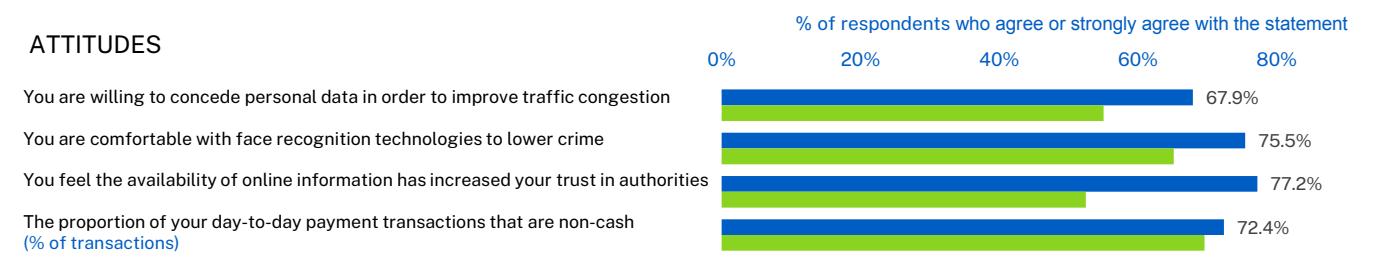
HDI 0.939
(Global Data Lab)



PRIORITY AREAS



ATTITUDES

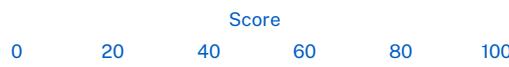


LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

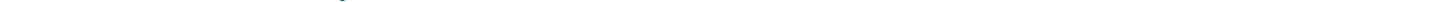
Health & Safety

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



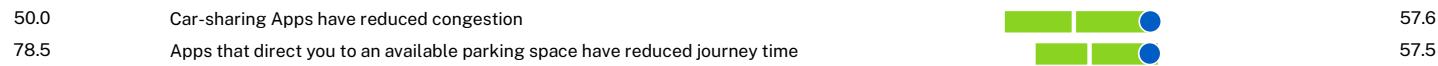
Mobility

Traffic congestion is not a problem
Public transport is satisfactory



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



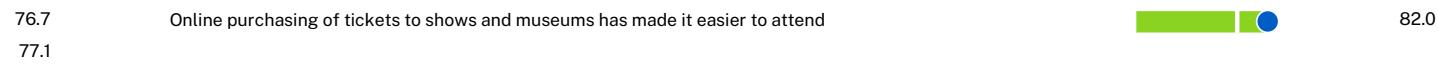
Activities

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



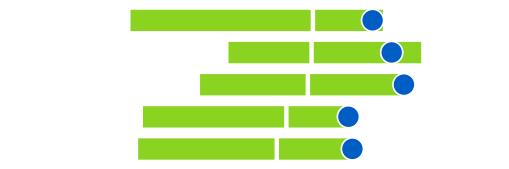
Activities

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



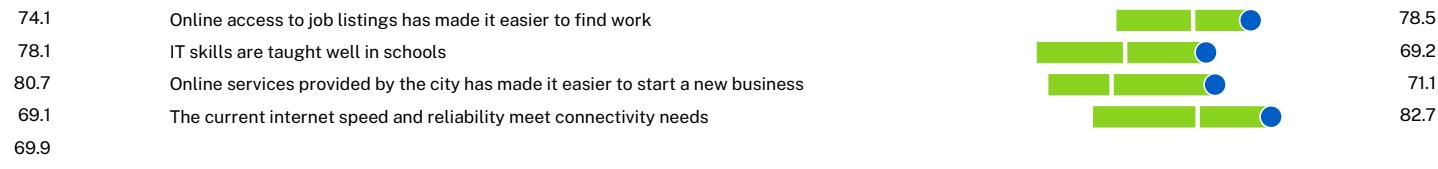
Opportunities (Work & School)

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



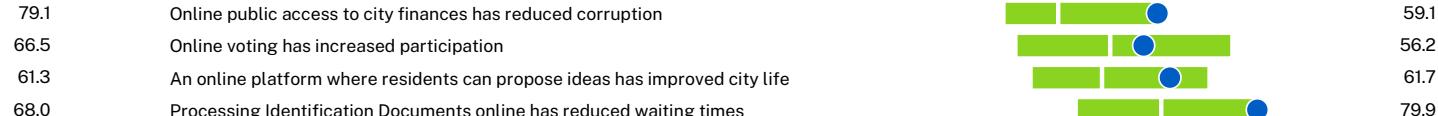
Governance

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



Sofia

SMART
CITY
RANKING
113
Out of 142

111 in 2023
Out of 141

SMART
CITY RATING

C

CC in 2023

FACTOR
RATINGS

CC

STRUCTURES

CC

TECHNOLOGIES

GROUP
3

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

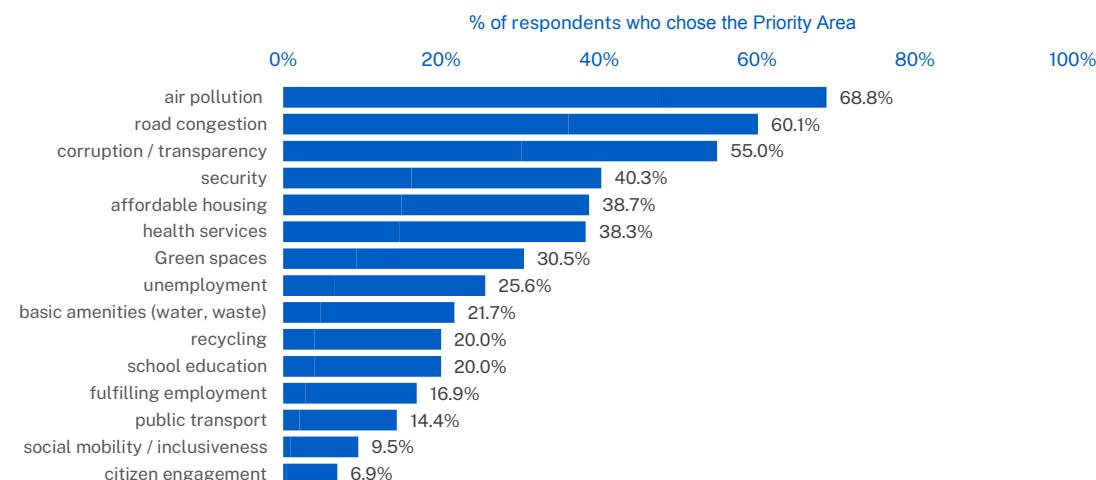
Population 1,240,000
(Eurostat)



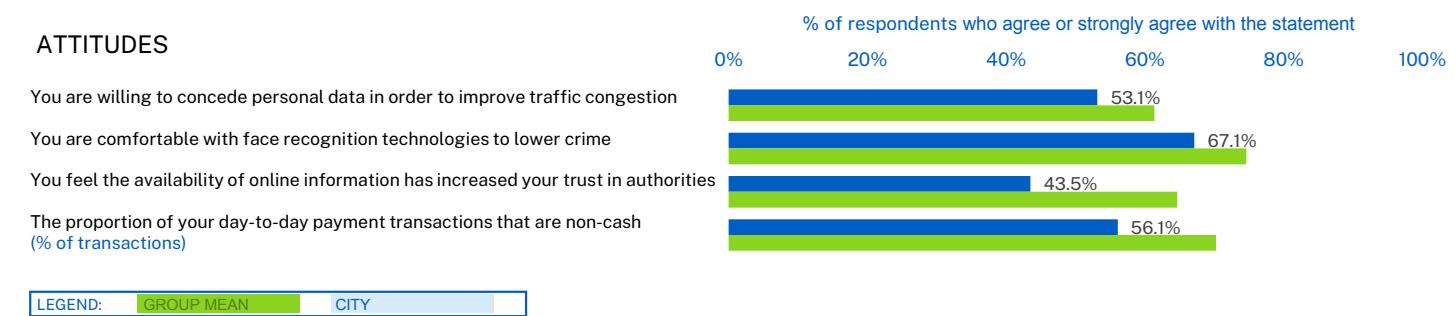
Country

Bulgaria	2019	2020	2021	2022	1 yr change
HDI	0.813	0.802	0.796	0.799	+0.003
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



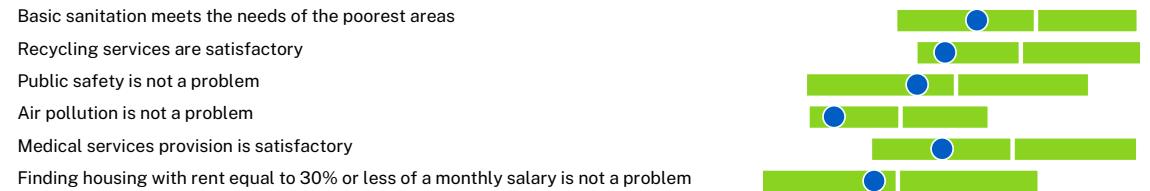
ATTITUDES



LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

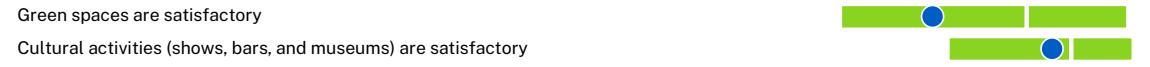
Health & Safety



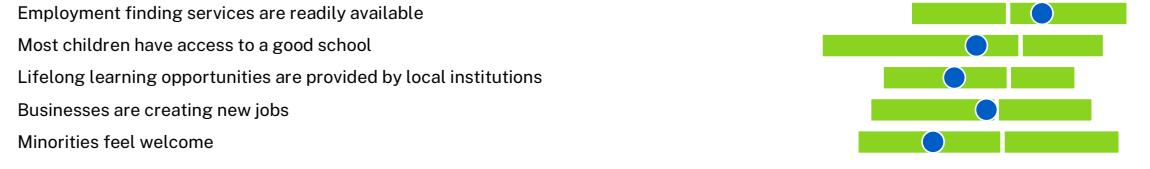
Mobility



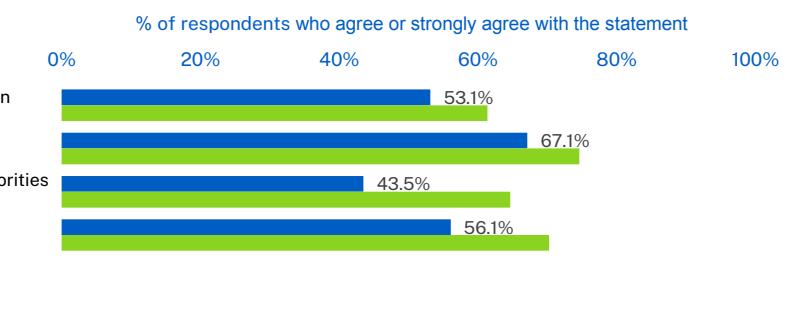
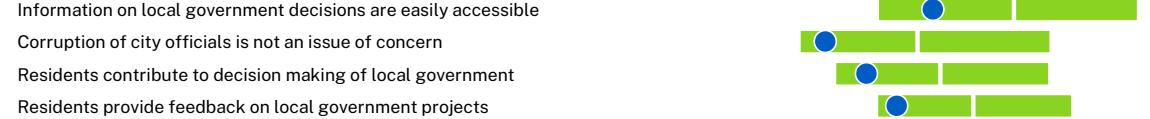
Activities



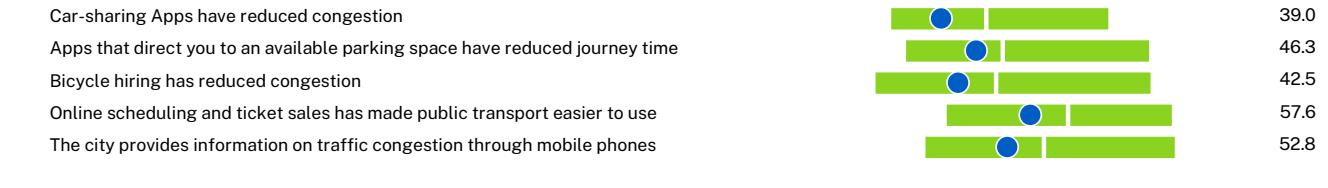
Opportunities (Work & School)



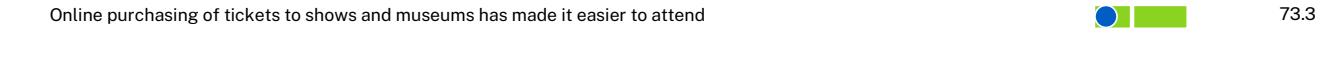
Governance



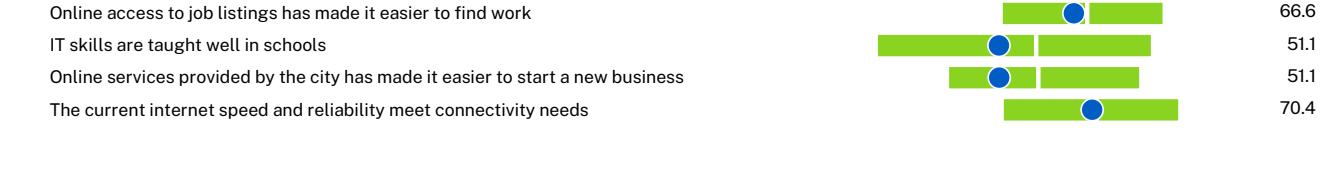
Mobility



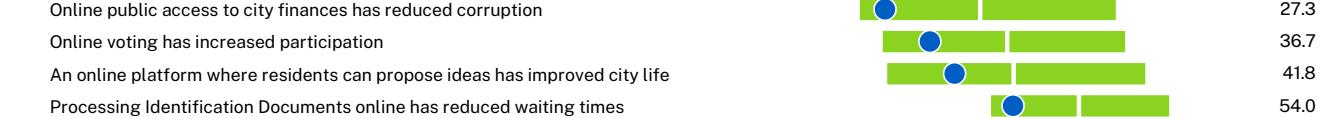
Activities



Opportunities (Work & School)



Governance



Stockholm

SMART
CITY
RANKING
11
Out of 142

10 in 2023
Out of 141

SMART
CITY RATING

A

A in 2023

FACTOR
RATINGS

A

STRUCTURES

A

TECHNOLOGIES

GROUP

1

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 950,000
(Eurostat)

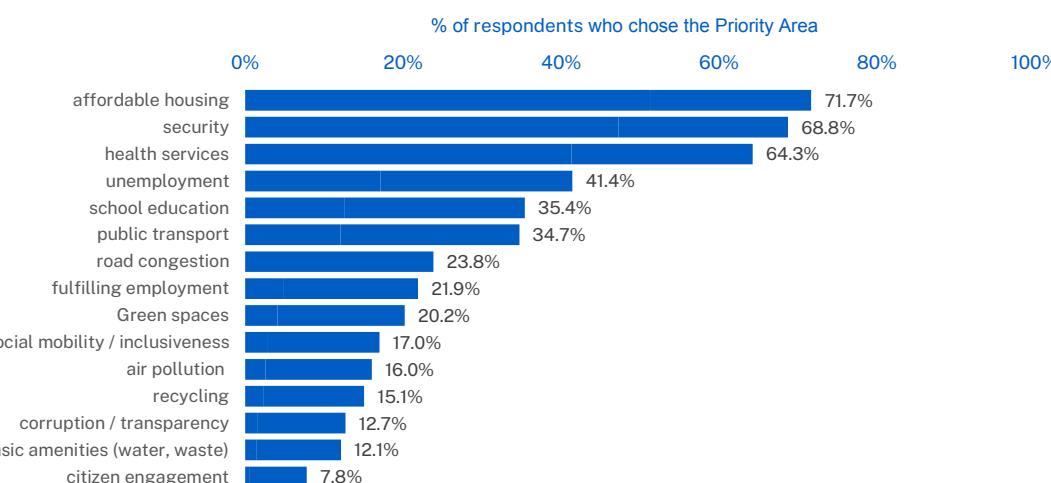
HDI 0.972
(Global Data Lab)



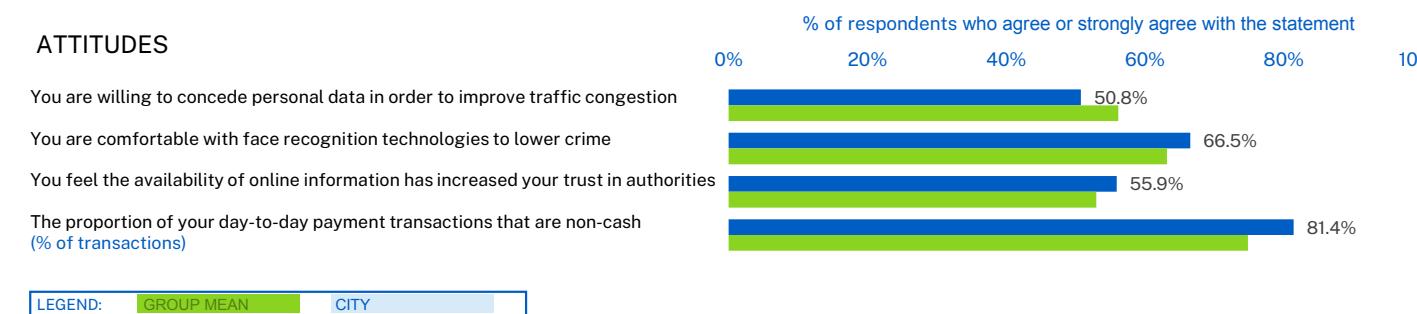
Country

Sweden	2019	2020	2021	2022	1 yr change
HDI	0.947	0.944	0.949	0.952	+0.003
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

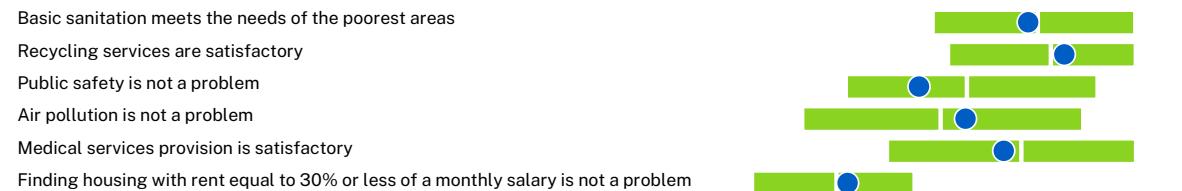


LEGEND: GROUP MEAN CITY

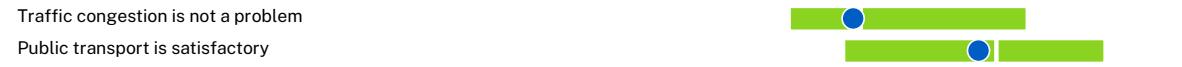
STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



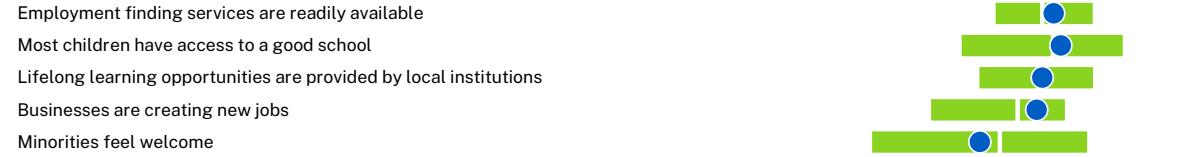
Mobility



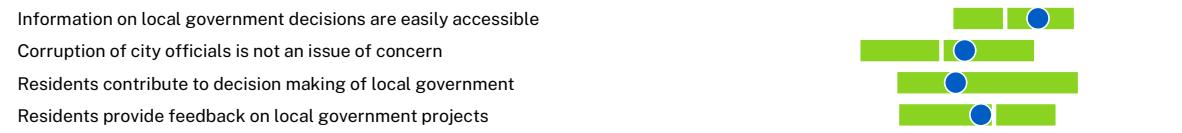
Activities



Opportunities (Work & School)

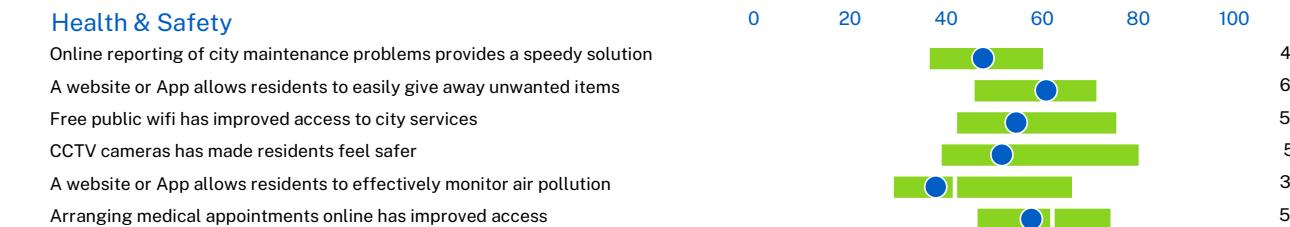


Governance

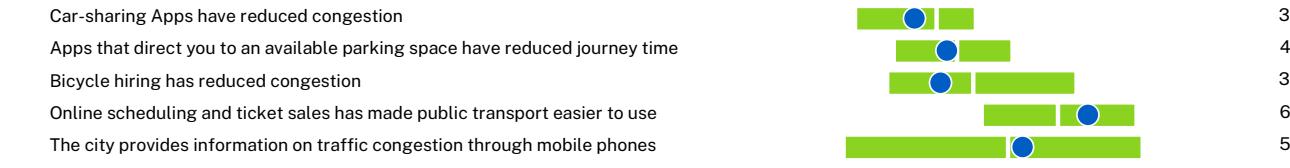


TECHNOLOGIES

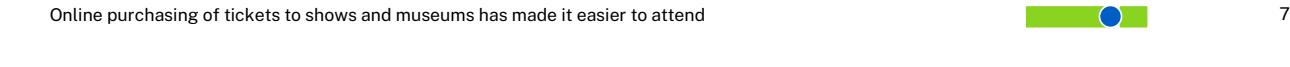
Score



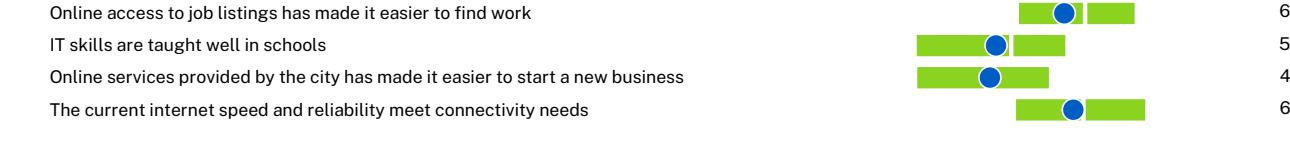
Mobility



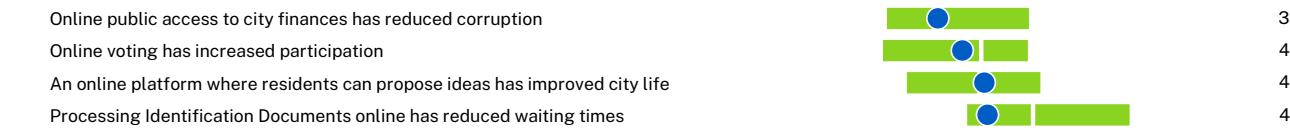
Activities



Opportunities (Work & School)



Governance



Sydney

SMART
CITY
RANKING
22

Out of 142



18 in 2023
Out of 141

SMART
CITY RATING



AA in 2023

FACTOR
RATINGS

BBB

STRUCTURES



TECHNOLOGIES

1

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 4,930,000
(UN World Urbanization Prospects)
HDI 0.952
(Global Data Lab)



18 in 2023

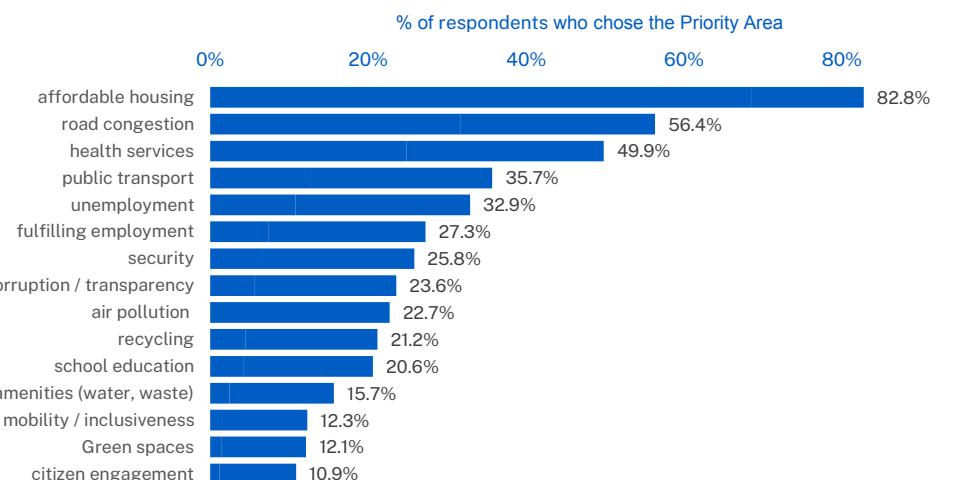
Out of 141

Country

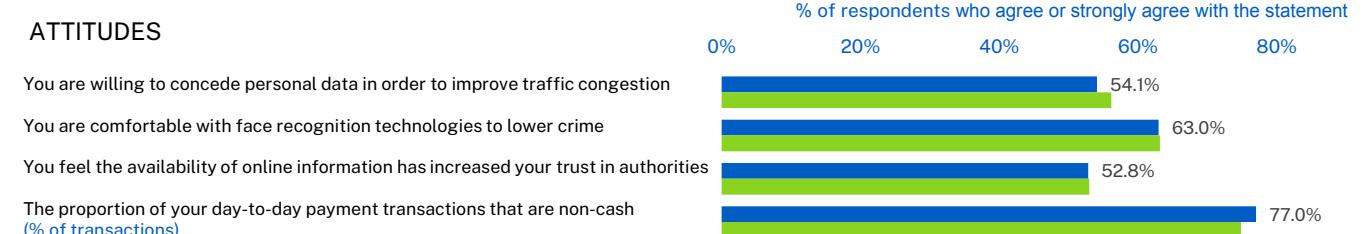
Australia	2019	2020	2021	2022	1 yr change
HDI	0.941	0.948	0.949	0.946	-0.003
Life expectancy at birth	83.1	84.3	84.5	83.6	-0.9
Expected years of schooling	21.4	20.9	21.1	21.1	+0.0
Mean years of schooling	12.7	12.7	12.7	12.7	+0.0
GNI per capita (PPP \$)	47,054	48,075	48,076	49,257	+1,181

PRIORITY AREAS

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: MIN CITY MEAN GROUP MAX

STRUCTURES

Score: 0 20 40 60 80 100

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

All ratings range from AAA to D

Taipei City

SMART
CITY
RANKING
16

Out of 142



29 in 2023
Out of 141

SMART
CITY RATING



A in 2023

FACTOR
RATINGS

BBB

STRUCTURES



TECHNOLOGIES



All ratings range
from AAA to D

BACKGROUND INFORMATION

City

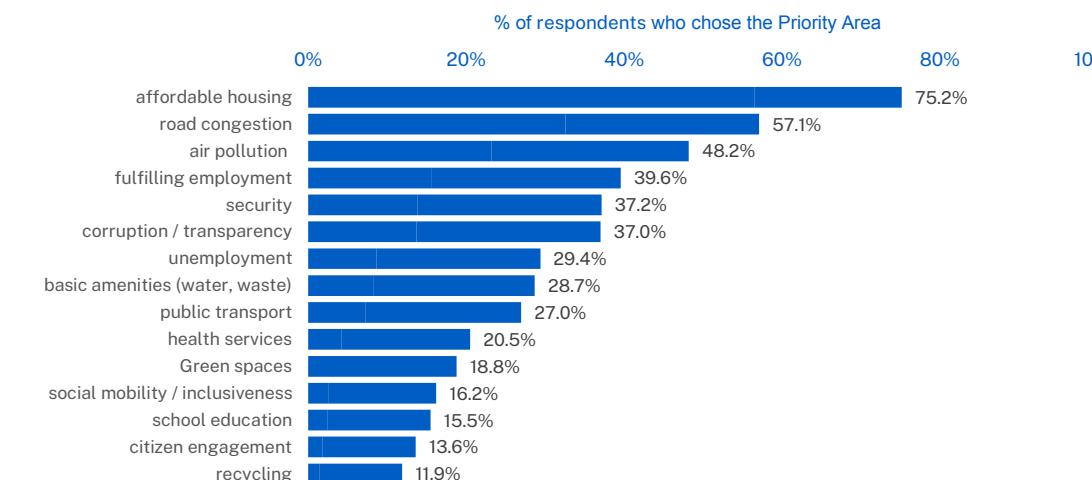
Population 2,720,000
(UN World Urbanization Prospects)



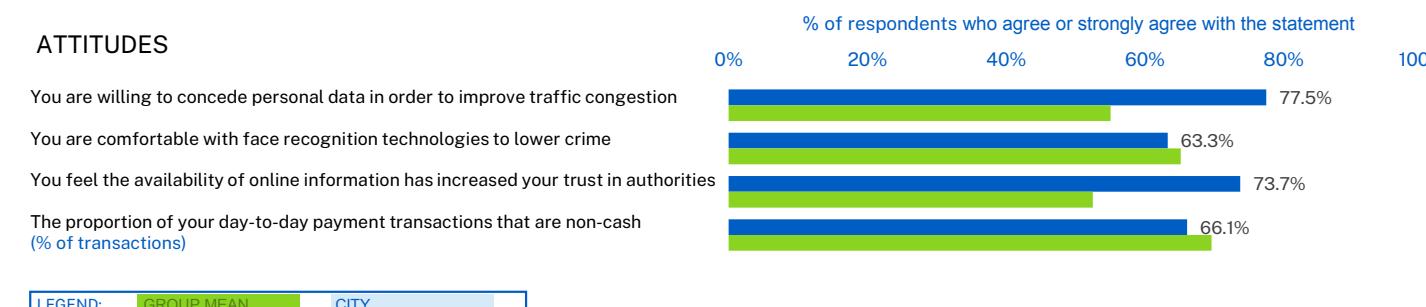
Country

Taiwan	2019	2020	2021	2022	1 yr change
HDI	0.916		0.926		N/A
Life expectancy at birth	80.9	81.3	80.9	79.8	-1.1
Expected years of schooling	16.5			16.9	N/A
Mean years of schooling			13.0		N/A
GNI per capita (PPP \$)	42,404	41,946	44,057		N/A

PRIORITY AREAS



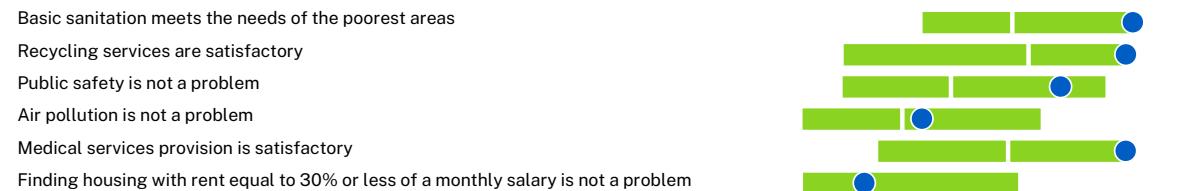
ATTITUDES



LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

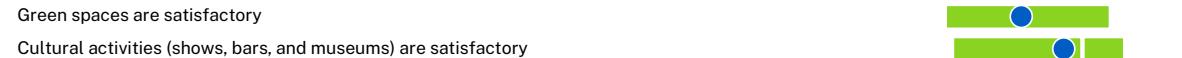
Health & Safety



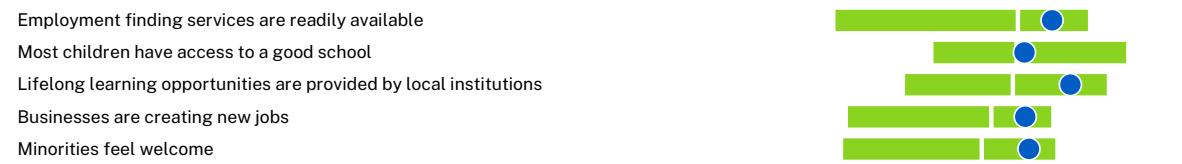
Mobility



Activities



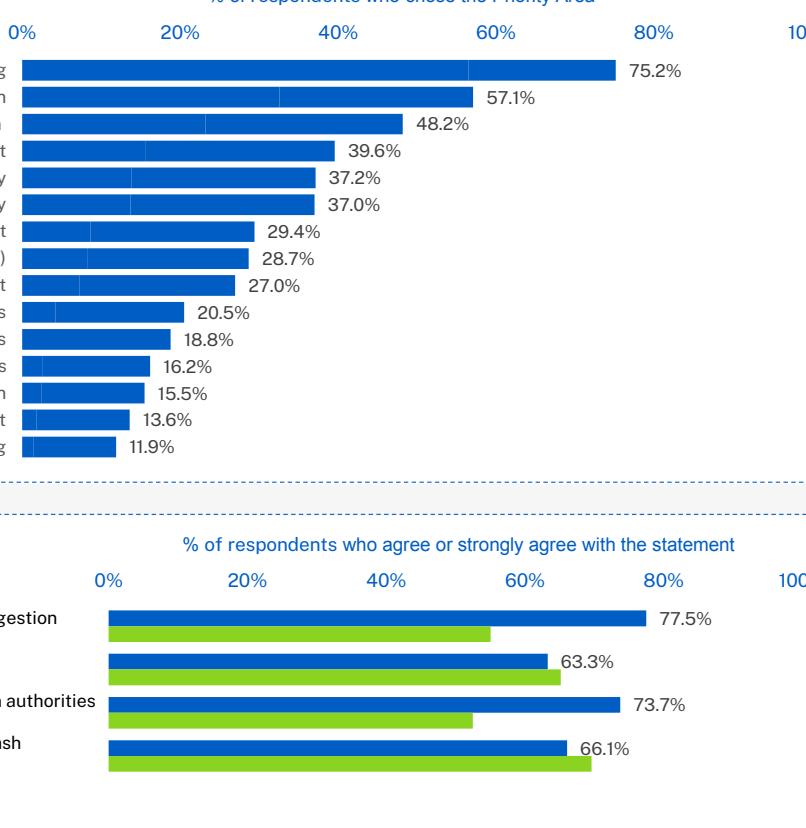
Opportunities (Work & School)



Governance



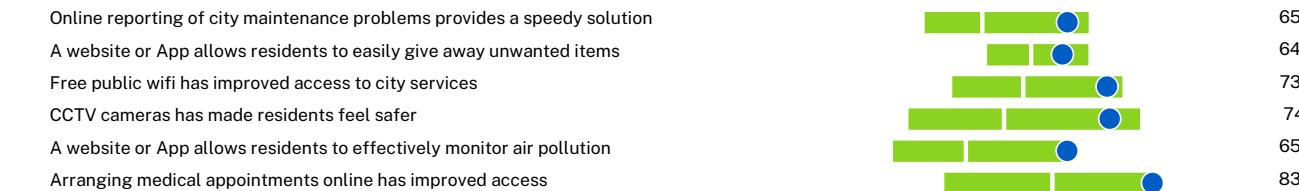
STRUCTURES



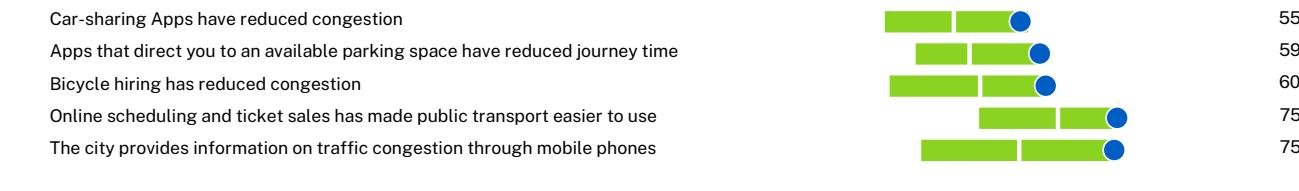
LEGEND: MIN CITY MEAN GROUP MAX

TECHNOLOGIES

Health & Safety



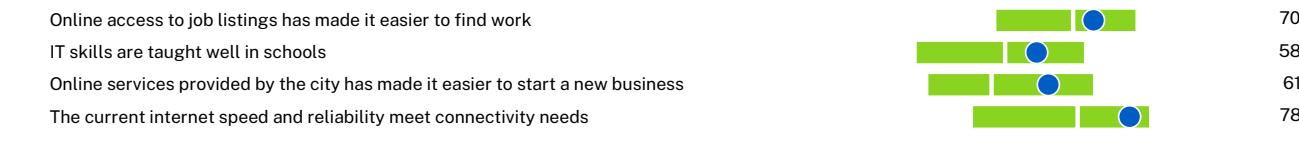
Mobility



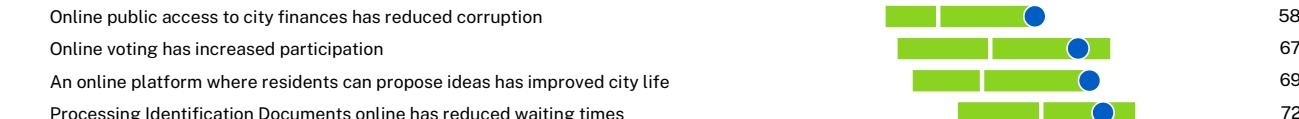
Activities



Opportunities (Work & School)



Governance



SMART CITY RANKING

24

Out of 142



32 in 2023
Out of 141

SMART CITY RATING

BBB

BBB in 2023

FACTOR RATINGS

BBB

STRUCTURES

BBB

TECHNOLOGIES

2

All ratings range from AAA to D

BACKGROUND INFORMATION

City

Population 440,000
(Eurostat)



HDI 0.932
(Global Data Lab)

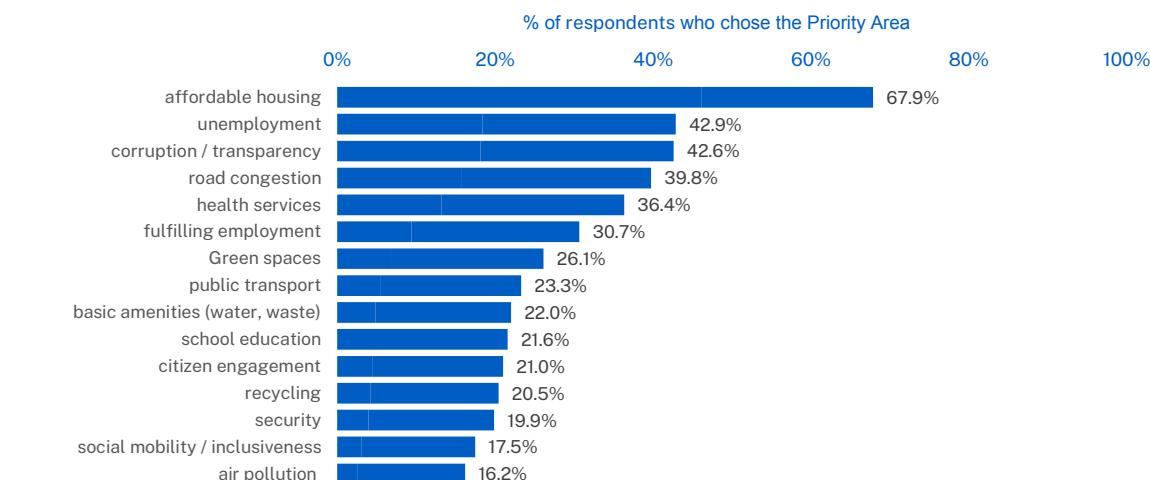
▲

32 in 2023
Out of 141

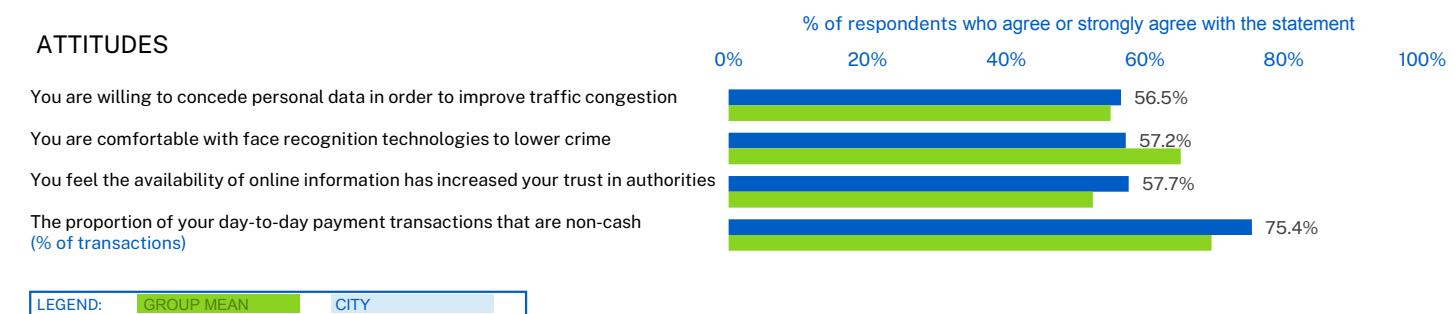
Country

Estonia	2019	2020	2021	2022	1 yr change
HDI	0.893	0.891	0.890	0.899	+0.009
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

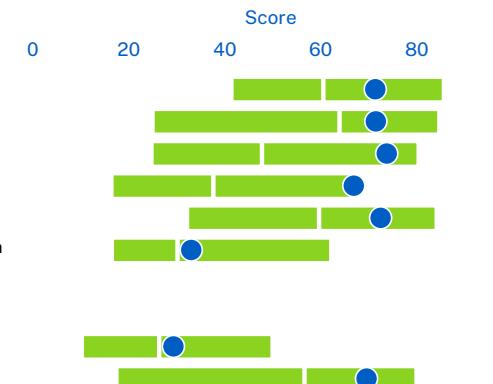


LEGEND: MIN CITY MEAN GROUP MAX

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



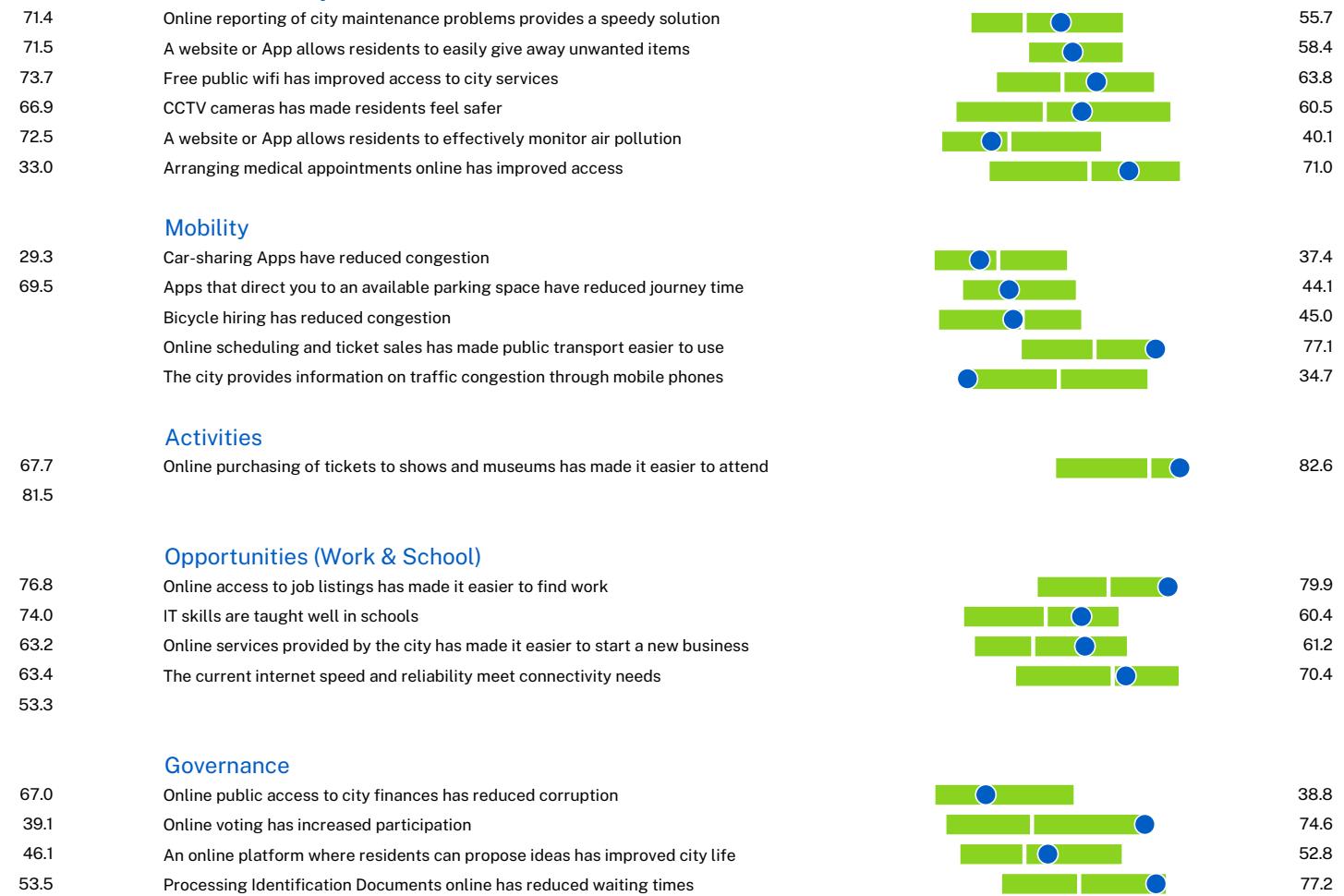
Health & Safety

- 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

LEGEND: MIN CITY MEAN GROUP MAX

TECHNOLOGIES

- Health & Safety
- Mobility
- Activities
- Opportunities (Work & School)
- Governance



Tel Aviv

SMART
CITY
RANKING
94

Out of 142



91 in 2023
Out of 141

SMART
CITY RATING

B

B in 2023

FACTOR
RATINGS

B

STRUCTURES

TECHNOLOGIES

B

GROUP
2
All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 460,000
(UN Data)

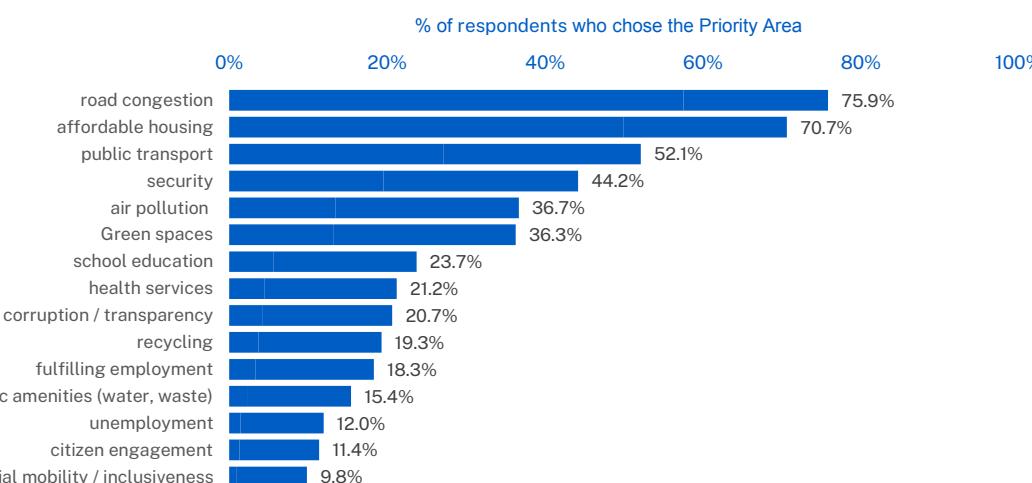
HDI 0.919
(Global Data Lab)



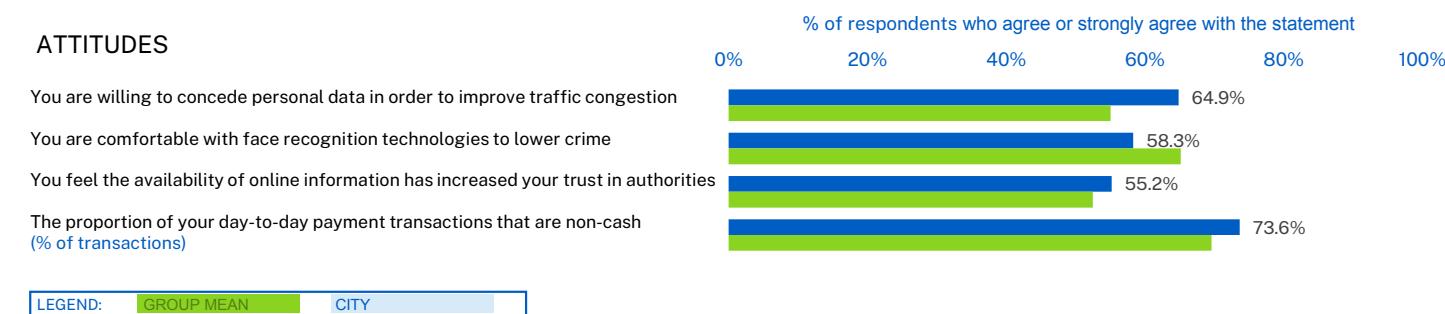
Country

Israel	2019	2020	2021	2022	1 yr change
HDI	0.909	0.906	0.911	0.915	+0.004
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

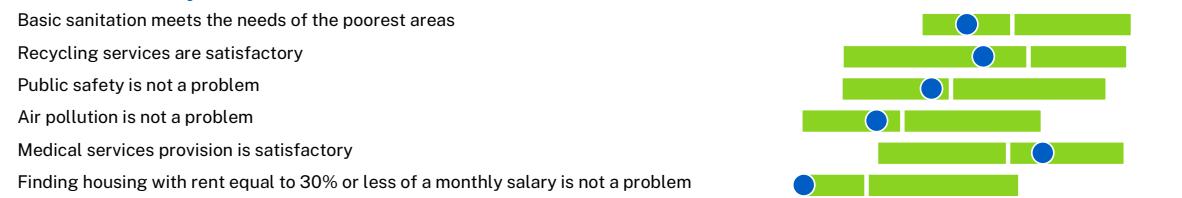


LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



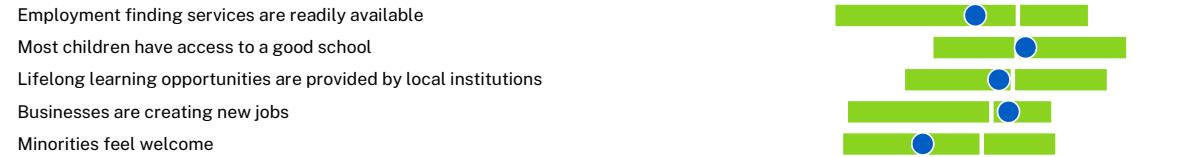
Mobility



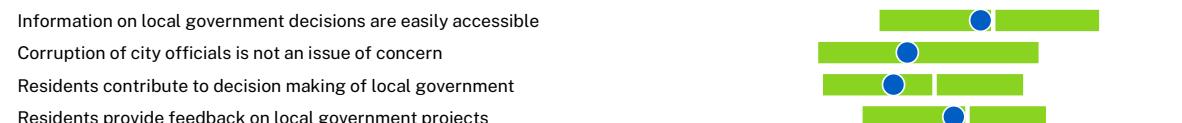
Activities



Opportunities (Work & School)



Governance



TECHNOLOGIES

Score



The Hague

SMART
CITY
RANKING

42

Out of 142



43 in 2023
Out of 141

SMART
CITY RATING

A

A in 2023

FACTOR
RATINGS

BBB

STRUCTURES

A

TECHNOLOGIES

1

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 770,000
(Eurostat)

HDI 0.941
(Global Data Lab)

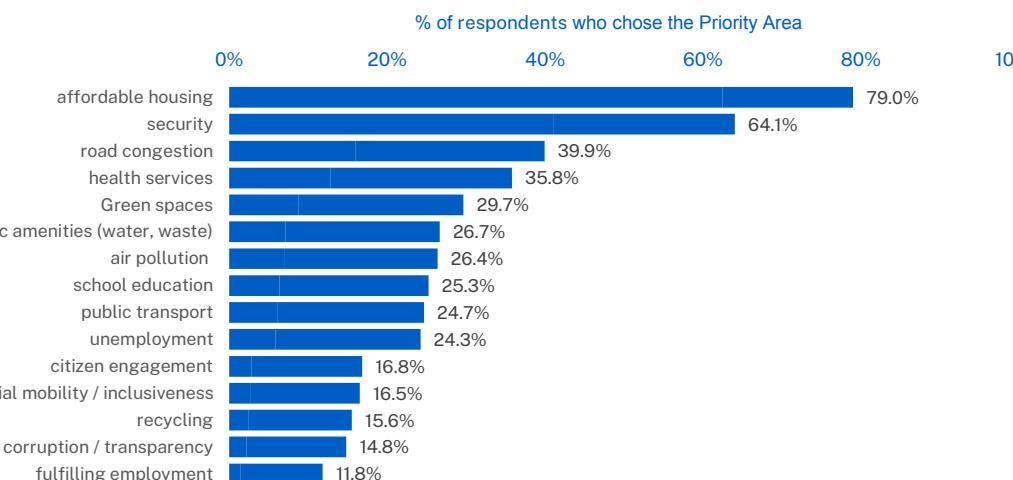


43 in 2023
Out of 141

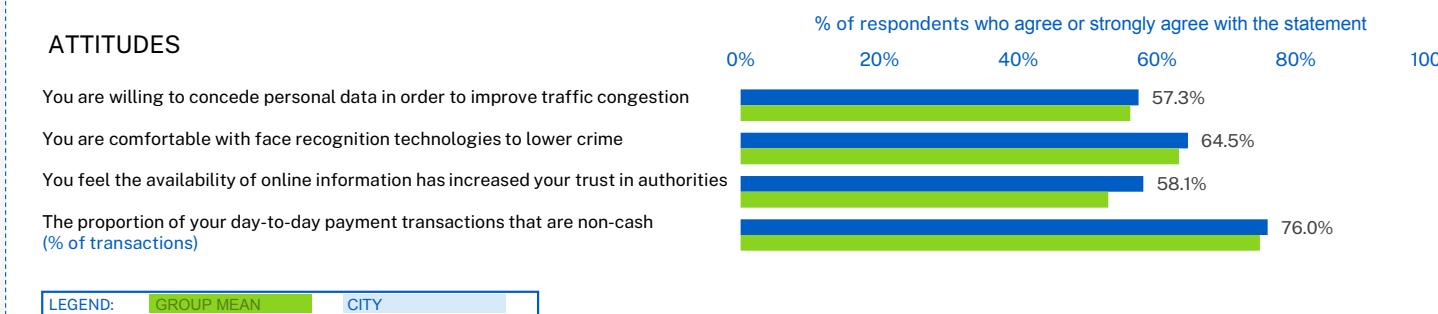
Country

Netherlands	2019	2020	2021	2022	1 yr change
HDI	0.941	0.938	0.941	0.946	+0.005
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

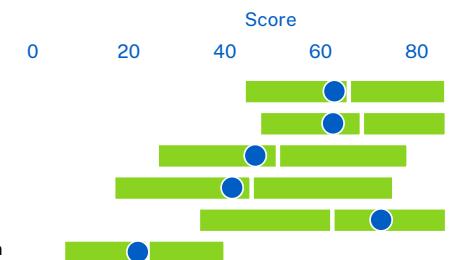


LEGEND: MIN CITY MEAN GROUP MAX

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

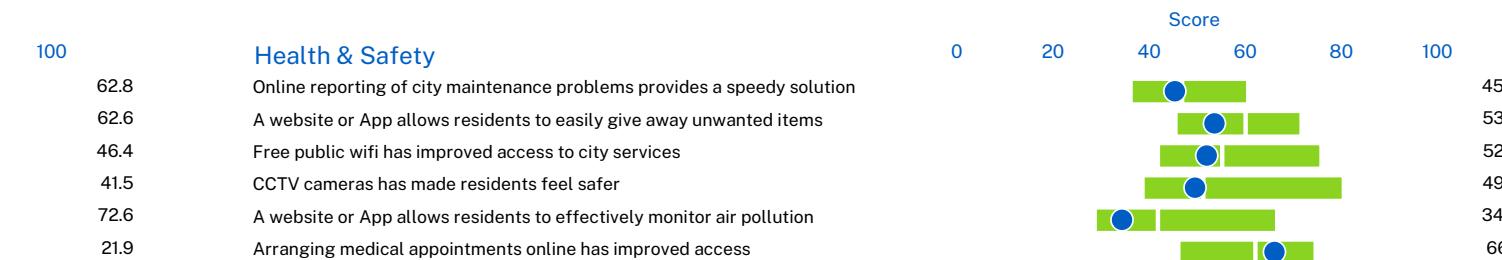
- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
- Free public wifi has improved access to city services
- CCTV cameras has made residents feel safer
- A website or App allows residents to effectively monitor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

LEGEND: MIN CITY MEAN GROUP MAX

TECHNOLOGIES

Mobility

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

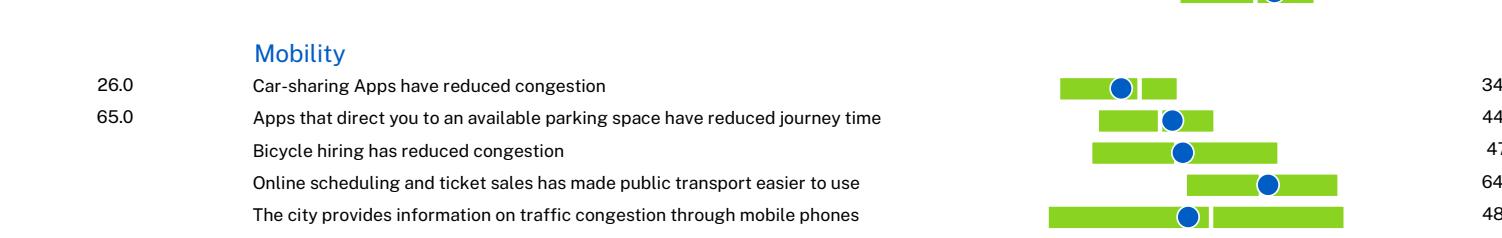


Mobility

- 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

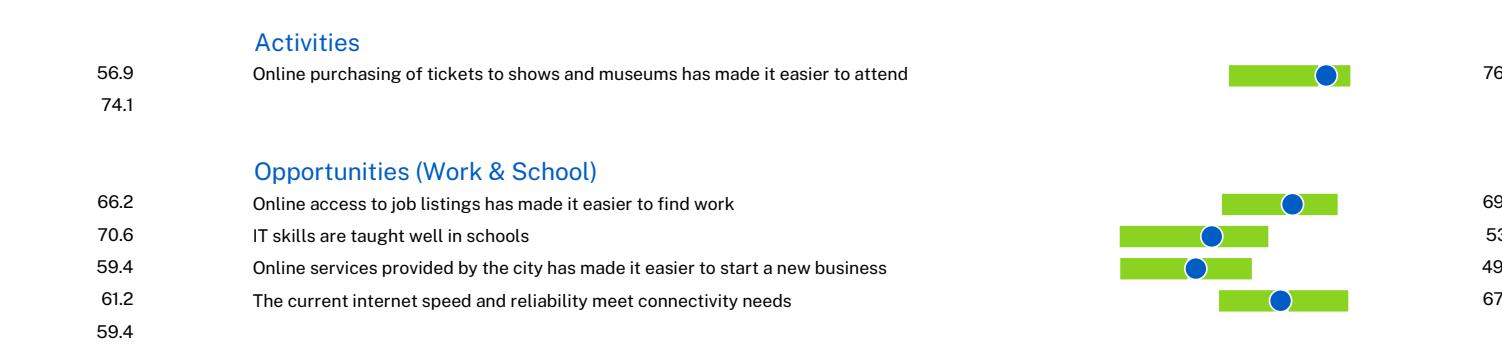


Activities

- 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

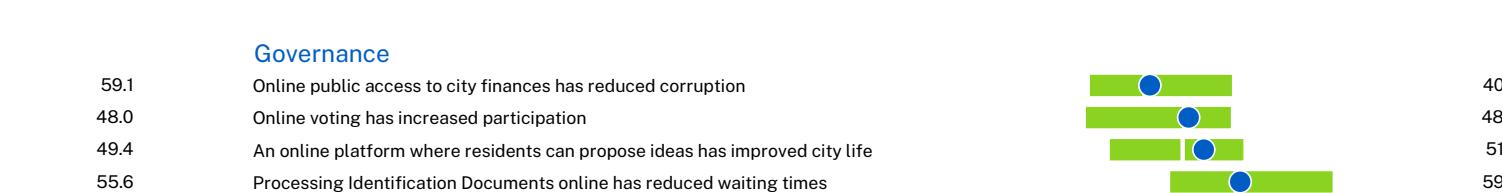


Opportunities (Work & School)

- 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

Tianjin

SMART
CITY
RANKING
54

Out of 142



67 in 2023
Out of 141

SMART
CITY RATING

BB

BB in 2023

FACTOR
RATINGS

BB

STRUCTURES

BB

TECHNOLOGIES

3

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 13,590,000
(UN World Urbanization Prospects)

HDI 0.844
(Global Data Lab)



SMART CITY RATING

BB

BB in 2023

FACTOR
RATINGS

BB

STRUCTURES

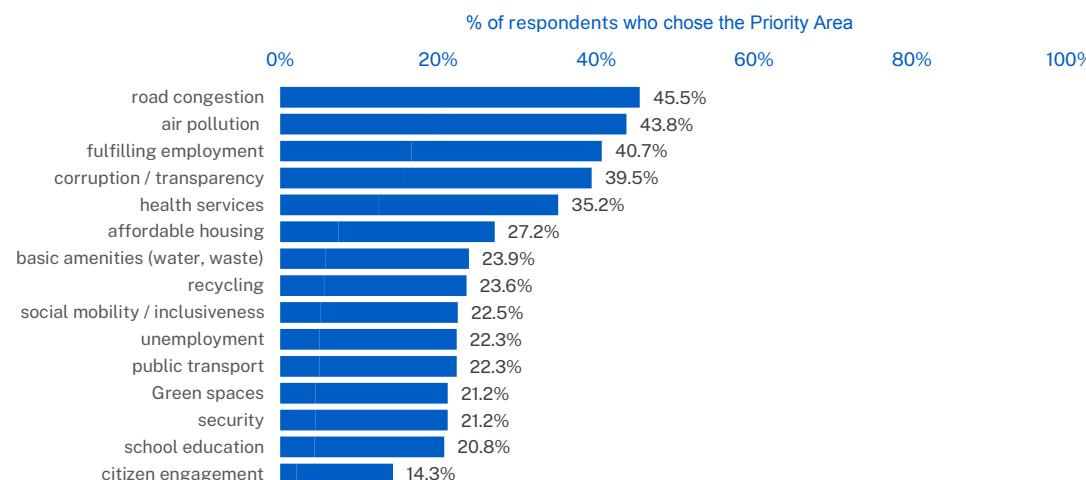
BB

TECHNOLOGIES

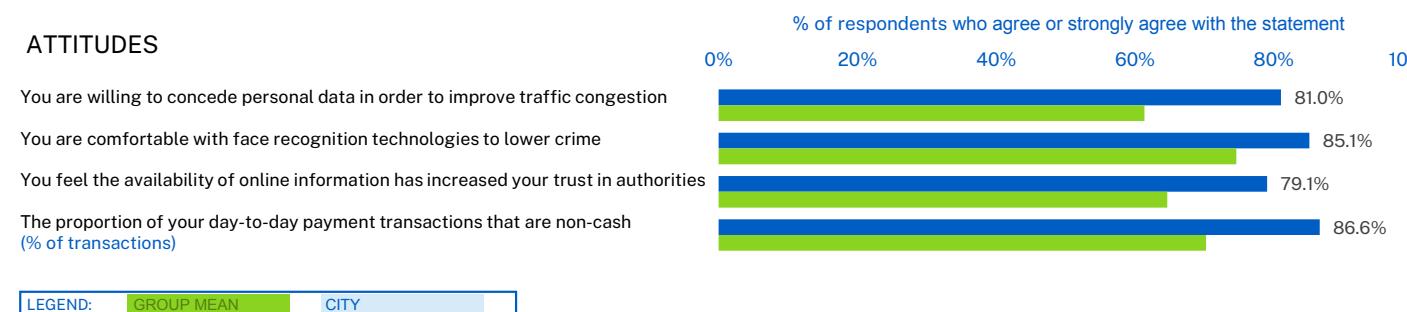
3

All ratings range
from AAA to D

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

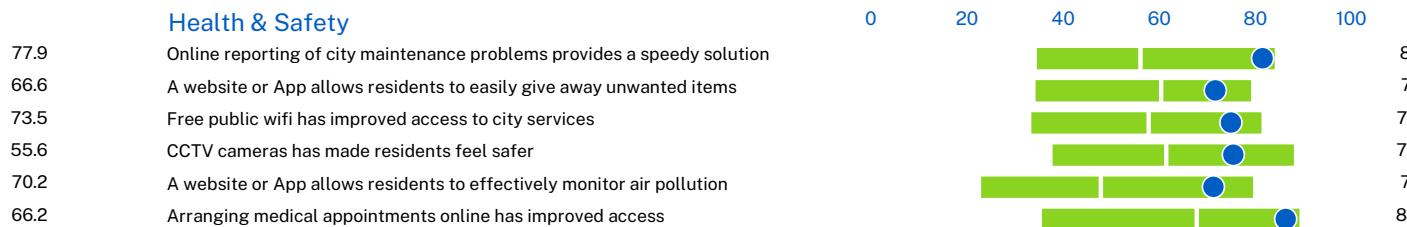


Health & Safety

- 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

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

Tokyo

SMART
CITY
RANKING
86

Out of 142



72 in 2023
Out of 141

SMART
CITY RATING

BB

BB in 2023

FACTOR
RATINGS

BB

STRUCTURES

BB

TECHNOLOGIES

1

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

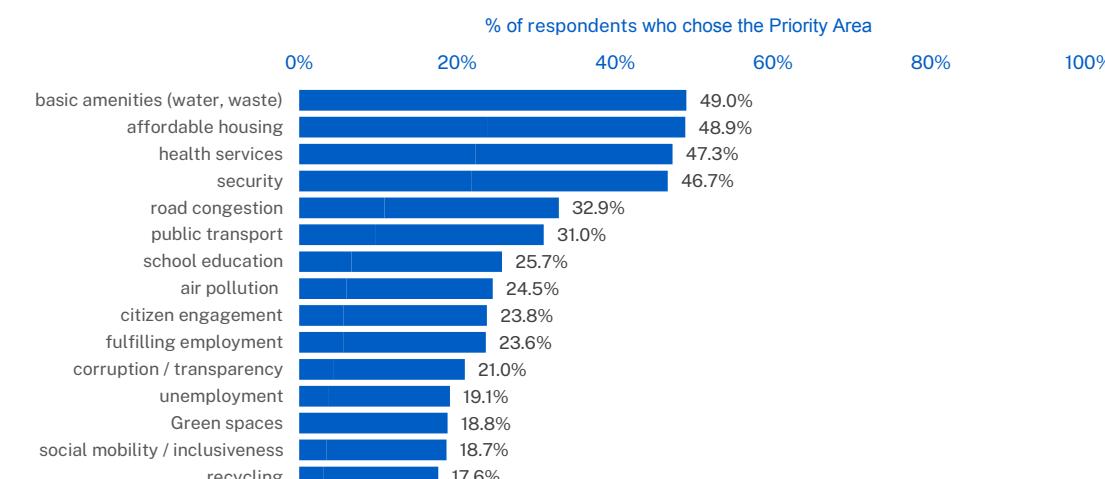
Population 9,730,000
(UN Data)



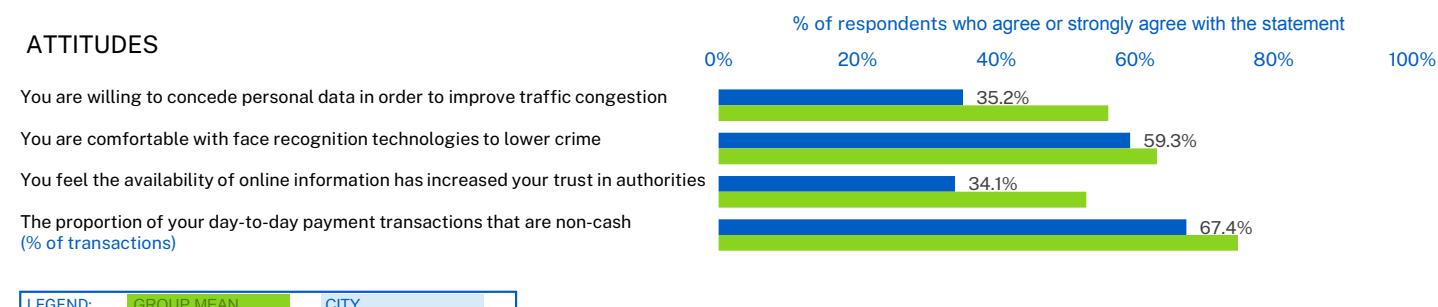
Country

Japan	2019	2020	2021	2022	1 yr change
HDI	0.918	0.917	0.920	0.920	+0.000
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: MIN CITY MEAN GROUP MAX

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety

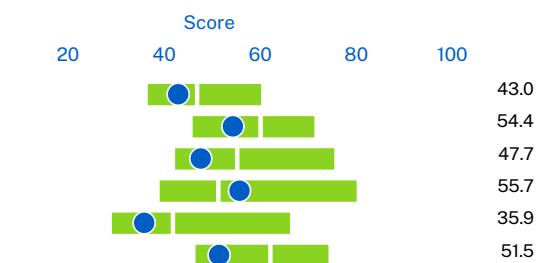
- Basic sanitation meets the needs of the poorest areas
- Recycling services are satisfactory
- Public safety is not a problem
- Air pollution is not a problem
- Medical services provision is satisfactory
- Finding housing with rent equal to 30% or less of a monthly salary is not a problem



Health & Safety

- Online reporting of city maintenance problems provides a speedy solution
- A website or App allows residents to easily give away unwanted items
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- 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



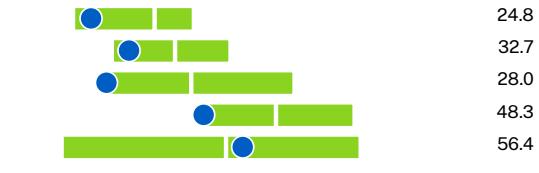
Mobility

- 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



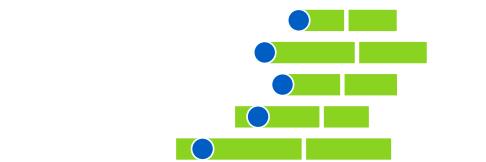
Activities

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



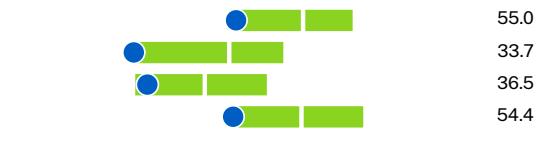
Opportunities (Work & School)

- 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

51

Out of 142



48 in 2023
Out of 141

SMART
CITY RATING

BBB

BBB in 2023

FACTOR
RATINGS

BBB

STRUCTURES

A

TECHNOLOGIES

1

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 2,930,000
(UN World Urbanization Prospects)

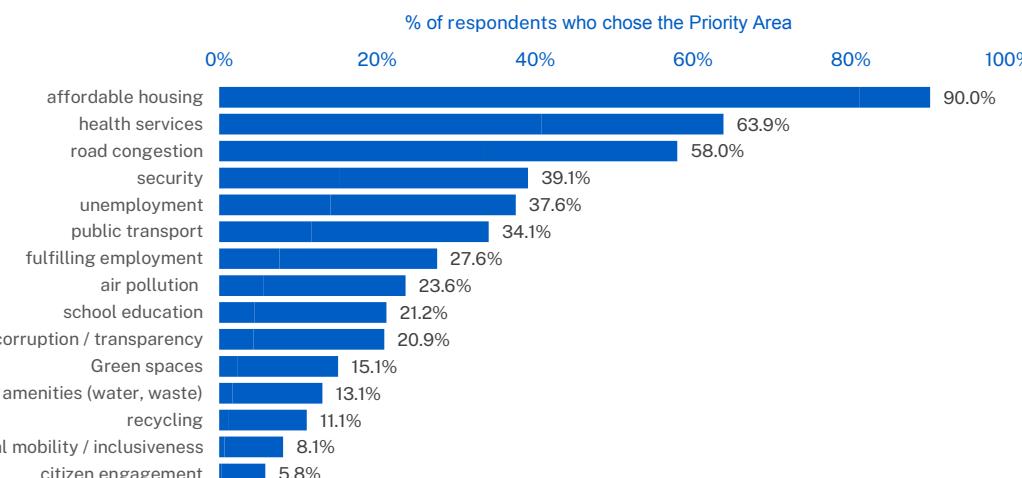
HDI 0.943
(Global Data Lab)



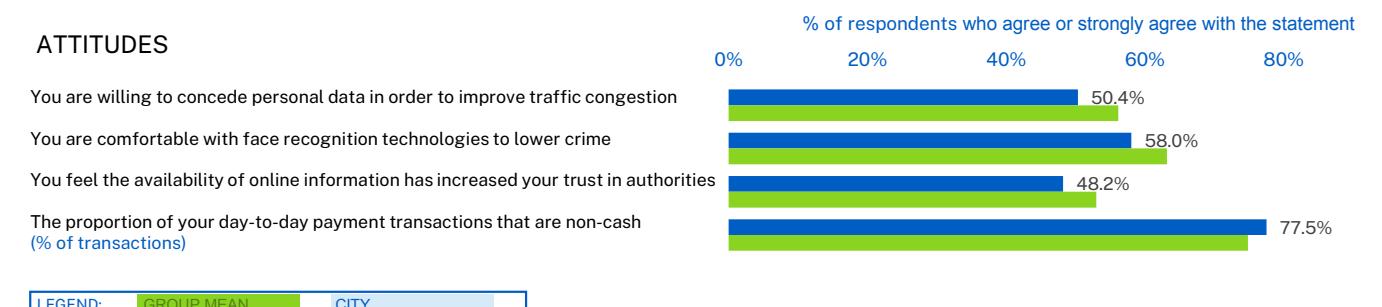
Country

Canada	2019	2020	2021	2022	1 yr change
HDI	0.932	0.928	0.934	0.935	+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



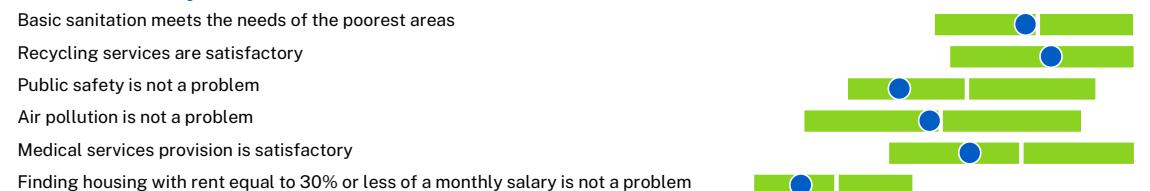
ATTITUDES



LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

Health & Safety



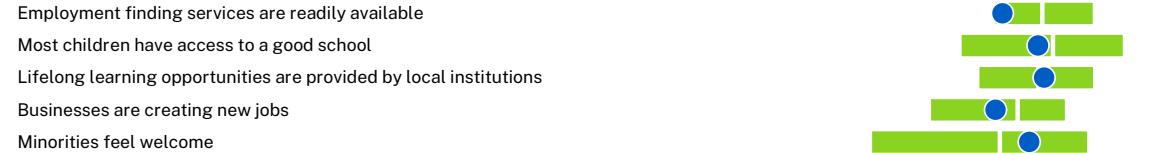
Mobility



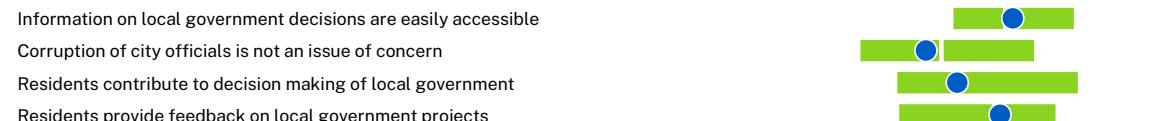
Activities



Opportunities (Work & School)

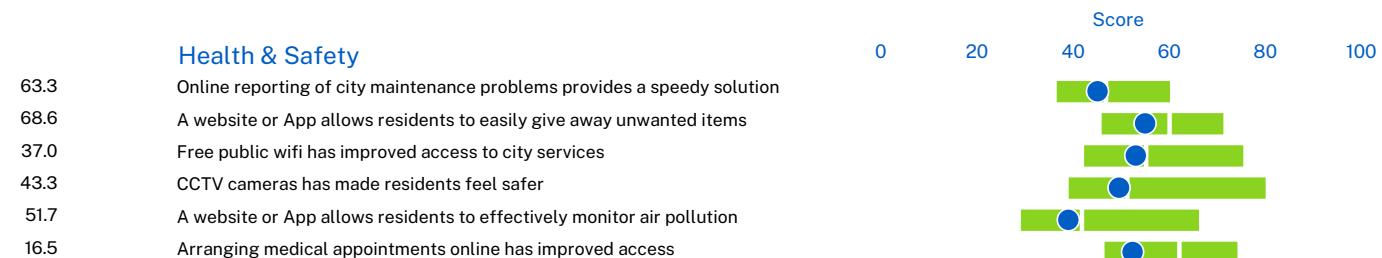


Governance

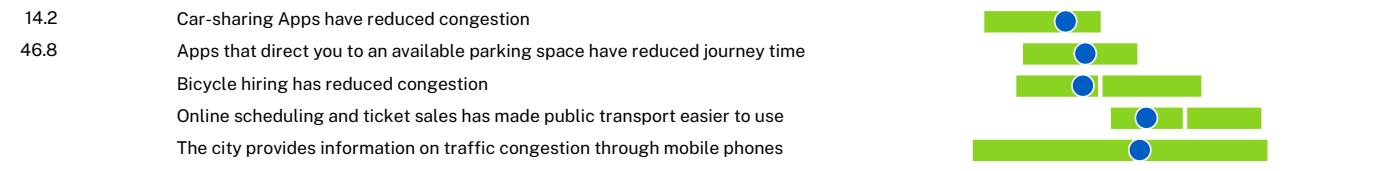


TECHNOLOGIES

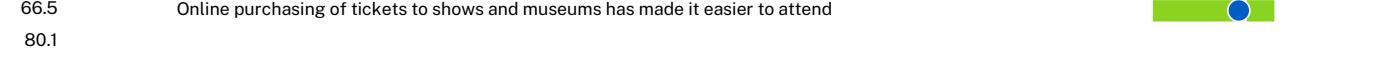
Health & Safety



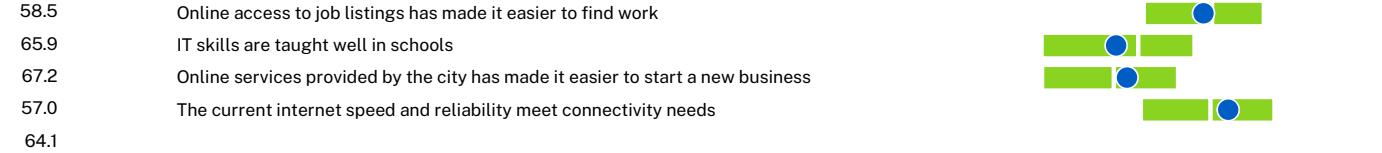
Mobility



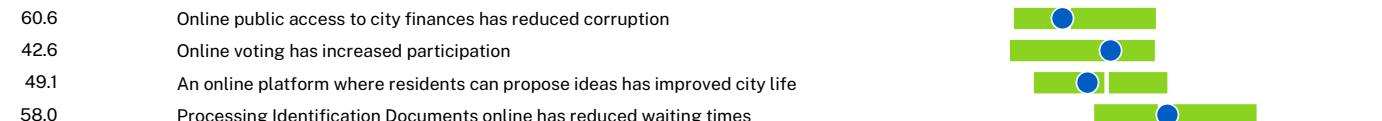
Activities



Opportunities (Work & School)



Governance



SMART CITY RANKING

137

Out of 142

137 in 2023
Out of 141

SMART CITY RATING

D

D in 2023

FACTOR RATINGS

D

STRUCTURES

TECHNOLOGIES

D

GROUP

4

All ratings range from AAA to D

BACKGROUND INFORMATION

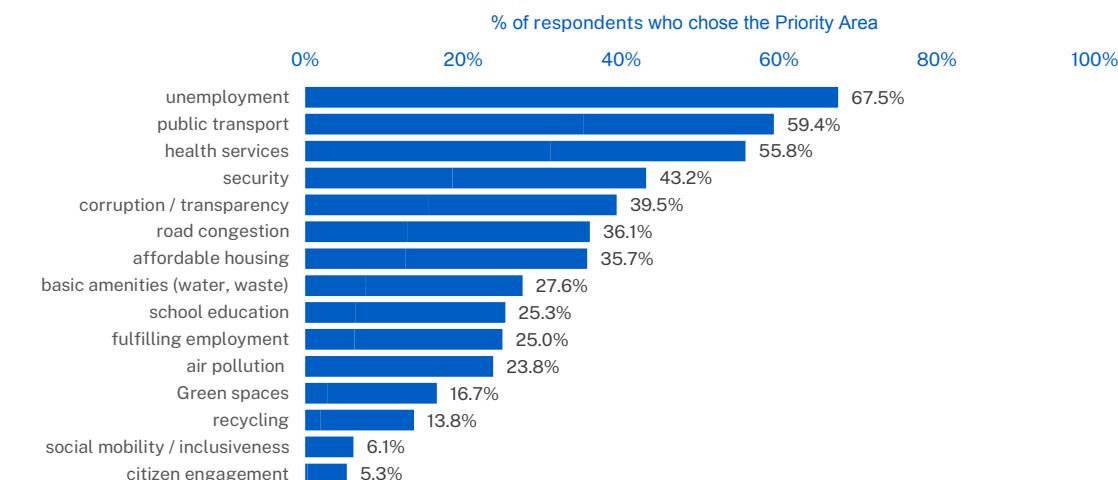
City

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

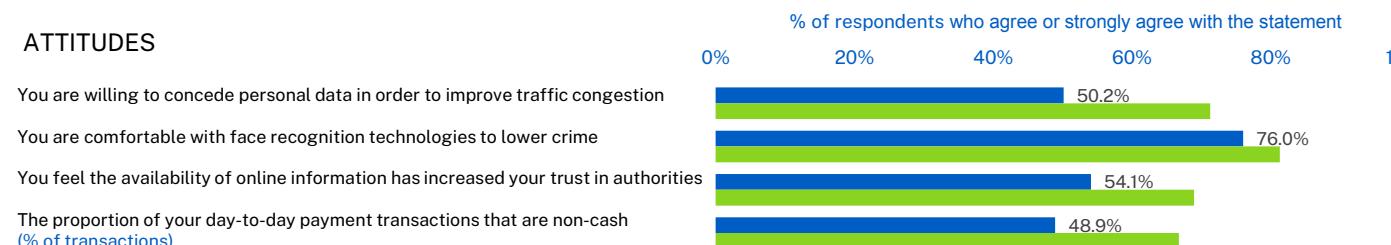
HDI 0.775
(Global Data Lab)



PRIORITY AREAS



ATTITUDES

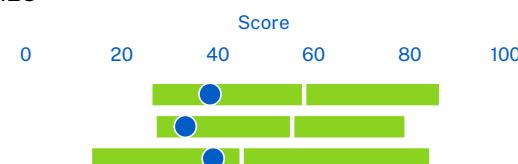


LEGEND: MIN CITY MEAN GROUP MAX

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



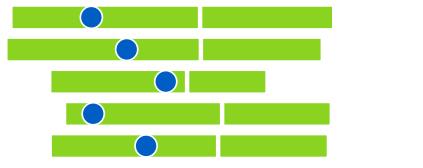
Activities

- 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

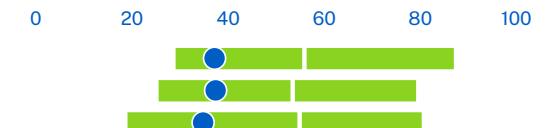


LEGEND: MIN CITY MEAN GROUP MAX

TECHNOLOGIES

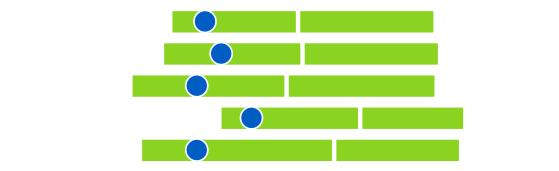
Health & Safety

- 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



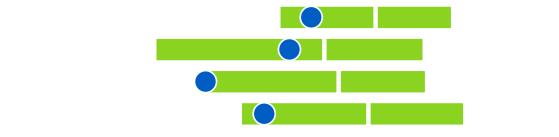
Activities

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



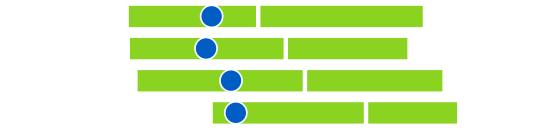
Opportunities (Work & School)

- 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



Vancouver

SMART
CITY
RANKING
43

Out of 142



42 in 2023
Out of 141

SMART
CITY RATING

BBB

A in 2023

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)

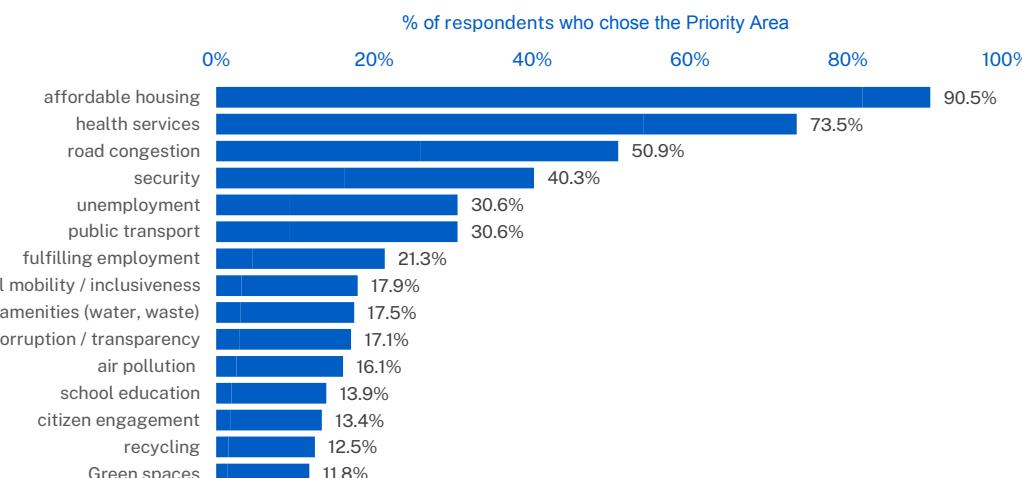
HDI 0.944
(Global Data Lab)



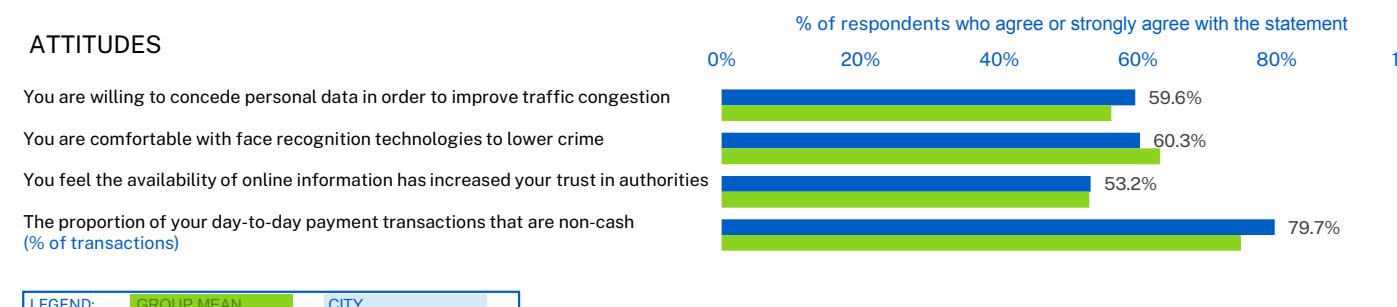
Country

Canada	2019	2020	2021	2022	1 yr change
HDI	0.932	0.928	0.934	0.935	+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



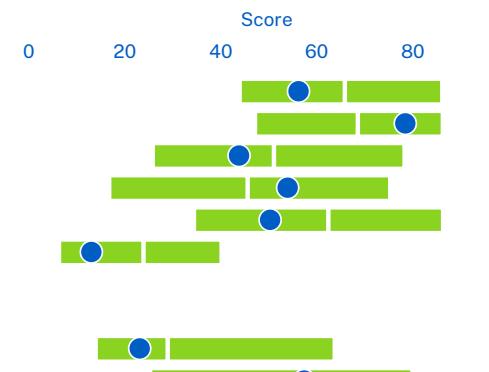
LEGEND: GROUP MEAN CITY

LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

Health & Safety

- 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

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- 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

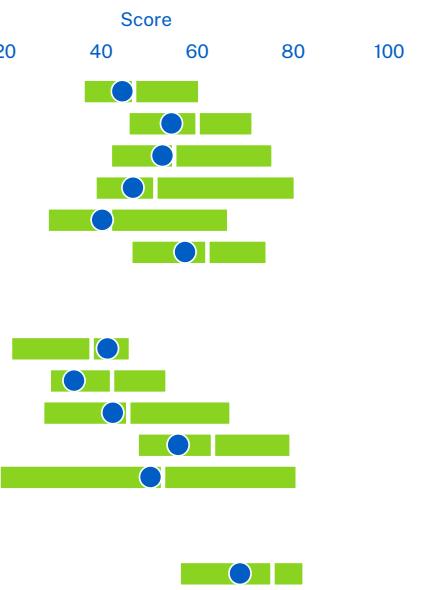
Activities

- 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



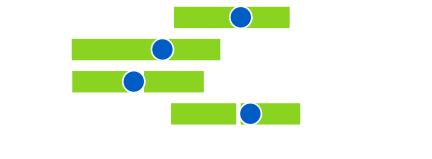
Opportunities (Work & School)

- 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



Vienna

SMART
CITY
RANKING
23

Out of 142



28 in 2023
Out of 141

SMART
CITY RATING

AA

AA in 2023

FACTOR
RATINGS

AA

STRUCTURES

A

TECHNOLOGIES

1

All ratings range
from AAA to D

BACKGROUND INFORMATION

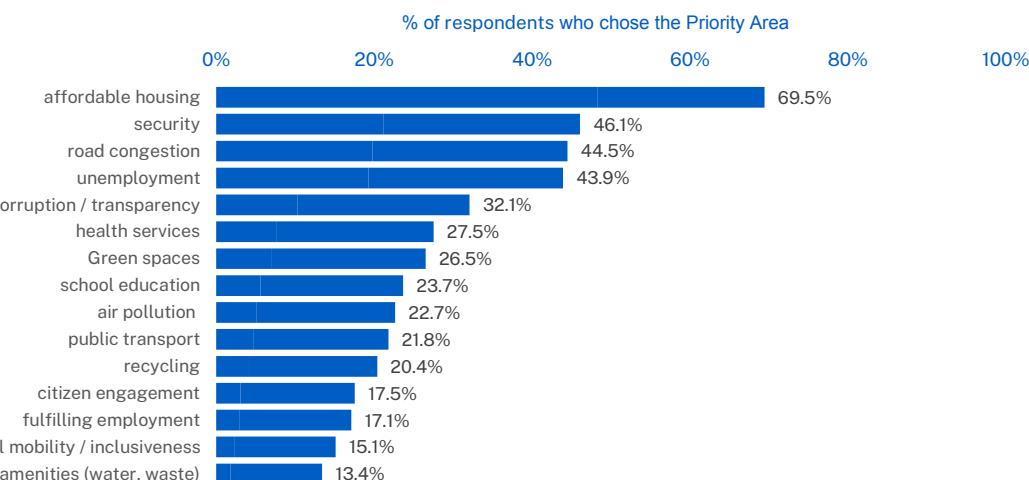
City

Population 1,930,000
(UN World Urbanization Prospects)

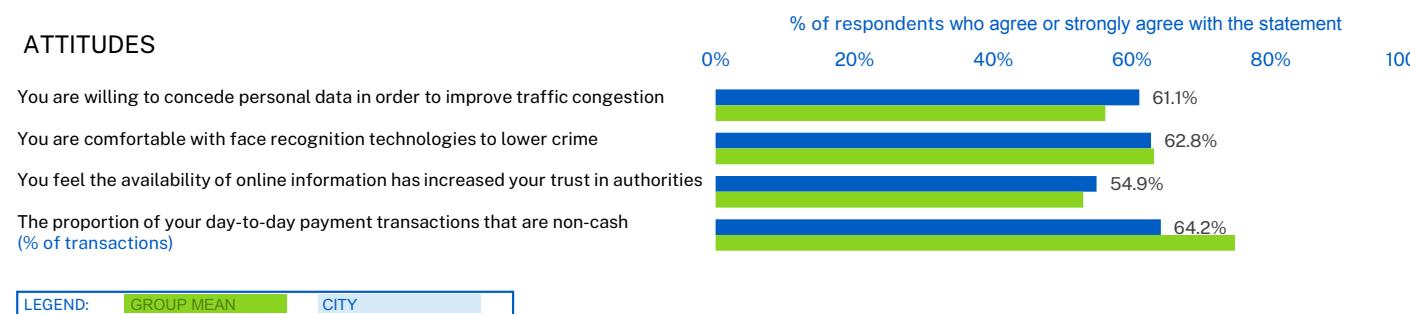
HDI 0.942
(Global Data Lab)



PRIORITY AREAS



ATTITUDES

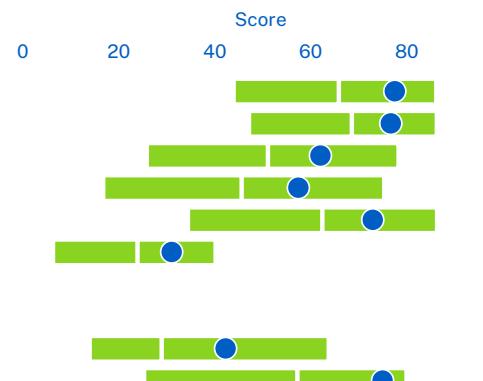


LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

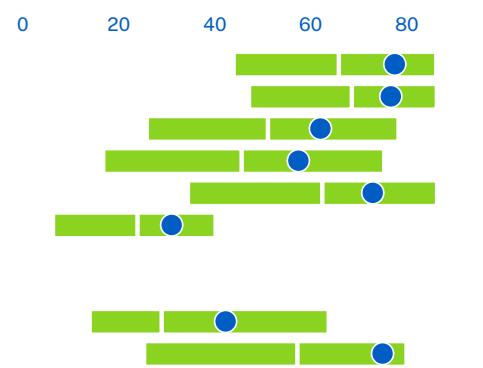
Health & Safety

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



Activities

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



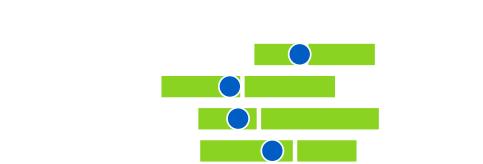
Opportunities (Work & School)

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

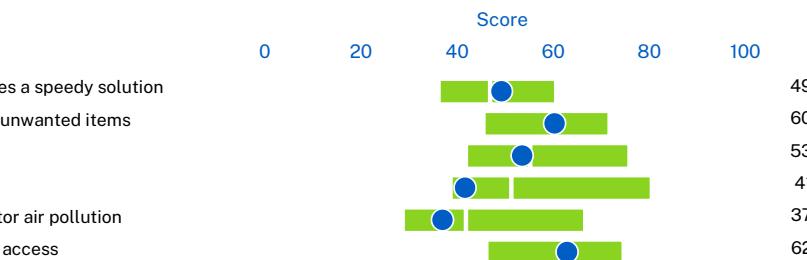
Information on local government decisions are easily accessible
Corruption of city officials is not an issue of concern
Residents contribute to decision making of local government
Residents provide feedback on local government projects



TECHNOLOGIES

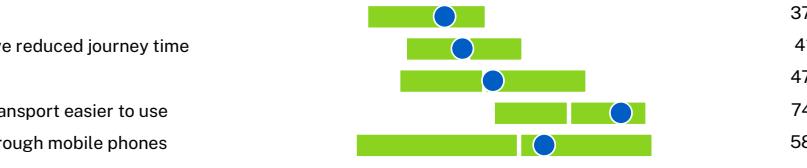
Health & Safety

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

47

Out of 142



65 in 2023
Out of 141

SMART CITY RATING

BBB

BB in 2023

FACTOR RATINGS

BBB

STRUCTURES

BBB

TECHNOLOGIES

2

All ratings range from AAA to D

BACKGROUND INFORMATION

City

Population 550,000
(Eurostat)

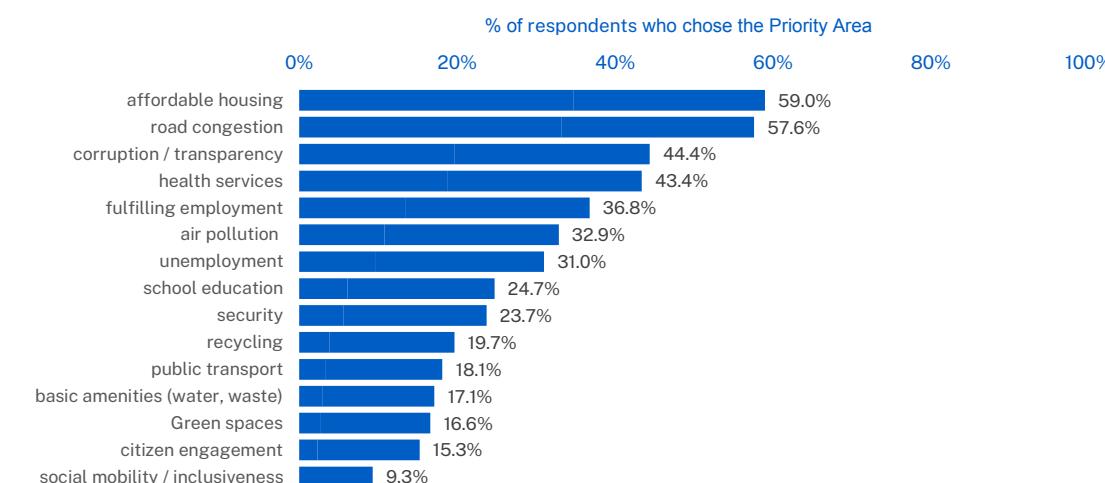


Country

Lithuania	2019	2020	2021	2022	1 yr change
HDI	0.886	0.880	0.875	0.879	+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

ATTITUDES

PRIORITY AREAS



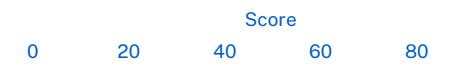
STRUCTURES

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



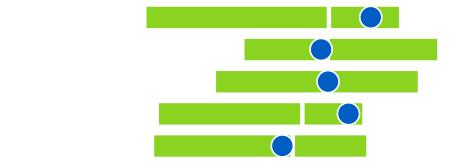
Activities

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



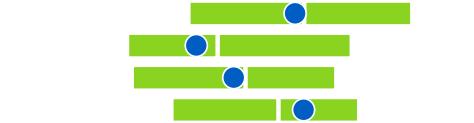
Opportunities (Work & School)

- 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



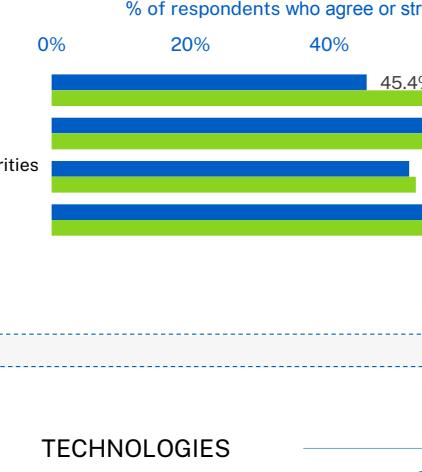
Governance

- 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

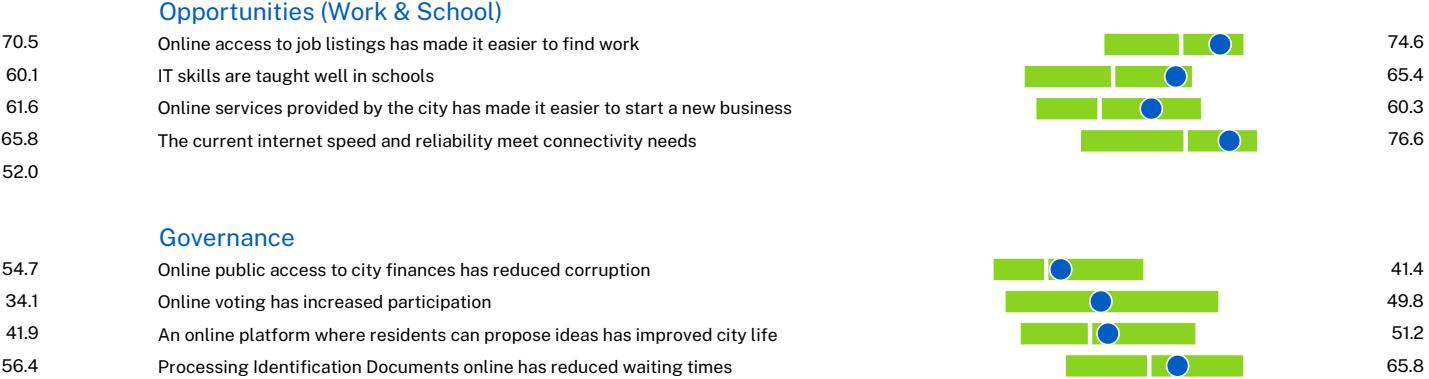


TECHNOLOGIES

LEGEND: MIN CITY MEAN GROUP MAX



Opportunities (Work & School)



Warsaw

SMART
CITY
RANKING
38

Out of 142



44 in 2023
Out of 141

SMART
CITY RATING

BBB

BBB in 2023

FACTOR
RATINGS

BBB

STRUCTURES

BBB

TECHNOLOGIES

2

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 1,780,000
(UN World Urbanization Prospects)

HDI 0.926
(Global Data Lab)

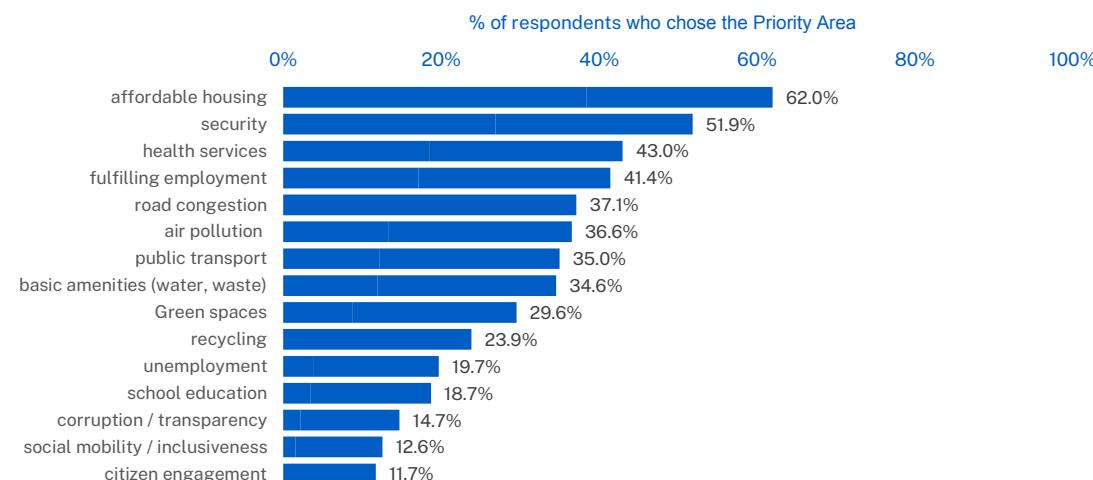


44 in 2023
Out of 141

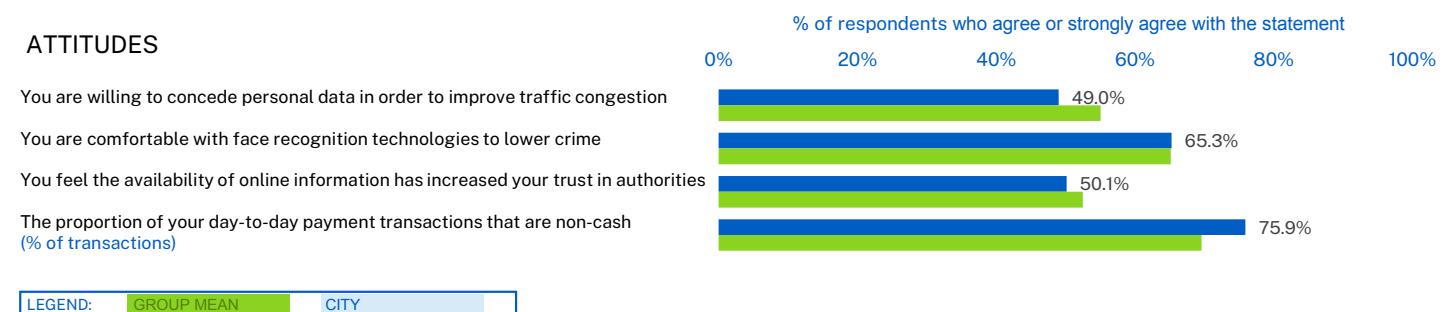
Country

Poland	2019	2020	2021	2022	1 yr change
HDI	0.880	0.874	0.876	0.881	+0.005
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: MIN CITY MEAN GROUP MAX

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

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

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

Washington D.C.

SMART CITY RANKING
50
Out of 142

39 in 2023
Out of 141

SMART CITY RATING

BB
BB in 2023

FACTOR RATINGS

BB
STRUCTURES

BB
TECHNOLOGIES

GROUP 2

All ratings range from AAA to D

BACKGROUND INFORMATION

City

Population 690,000
(UN Data)

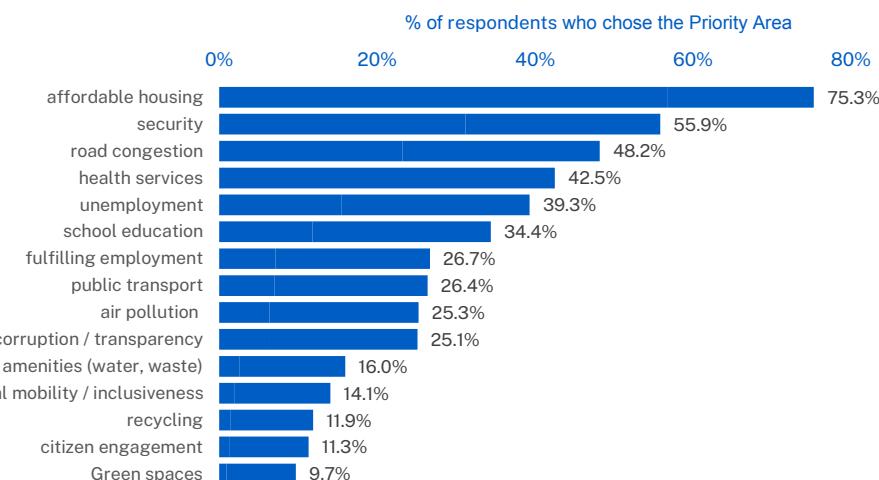
HDI 0.940
(Global Data Lab)



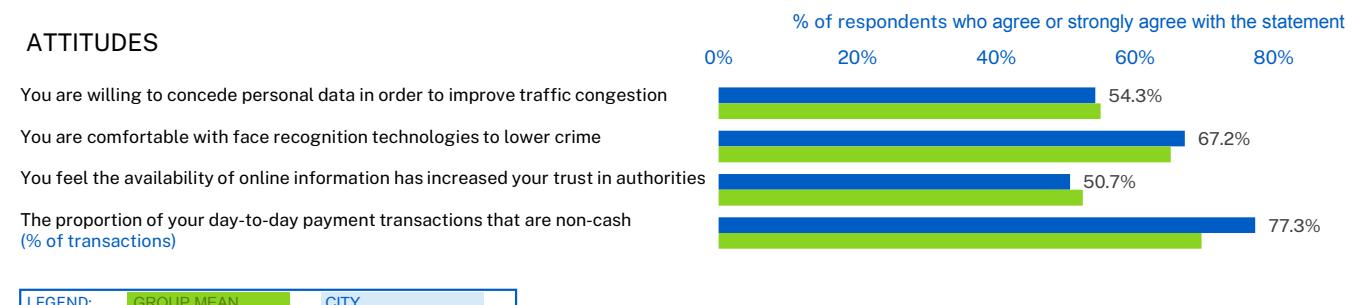
Country

USA	2019	2020	2021	2022	1 yr change
HDI	0.933	0.923	0.921	0.927	+0.006
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



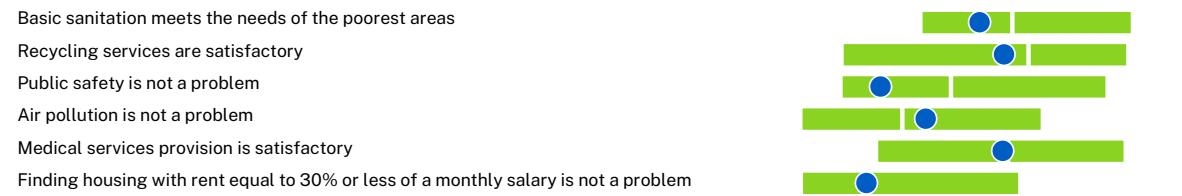
ATTITUDES



LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

Health & Safety



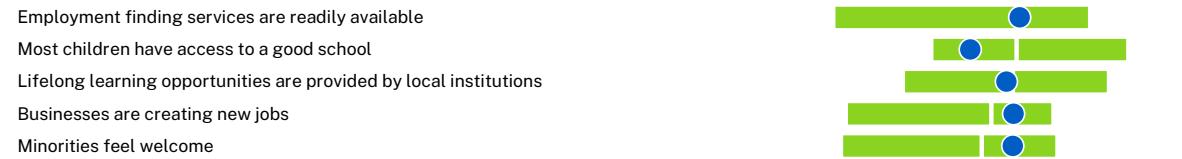
Mobility



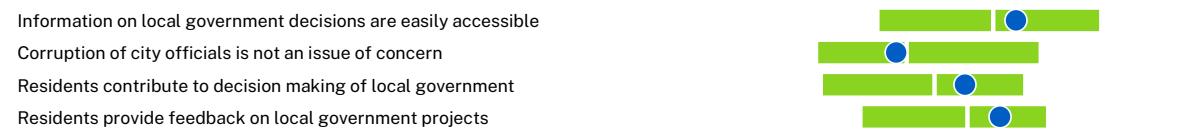
Activities



Opportunities (Work & School)



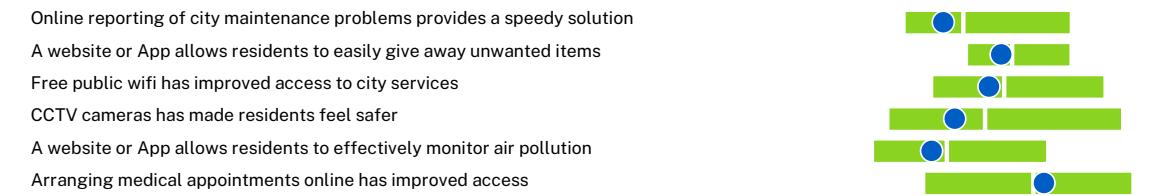
Governance



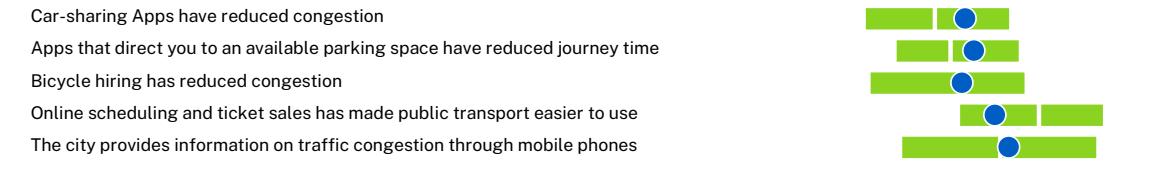
LEGEND: MIN CITY MEAN GROUP MAX

TECHNOLOGIES

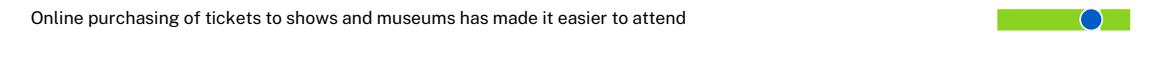
Health & Safety



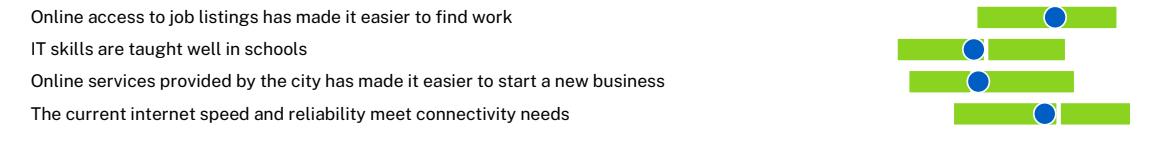
Mobility



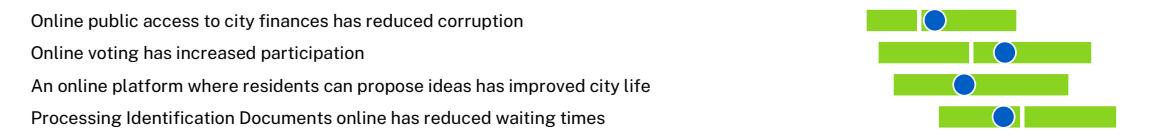
Activities



Opportunities (Work & School)



Governance



Wellington

SMART
CITY
RANKING
28
Out of 142

23 in 2023
Out of 141

SMART
CITY RATING

BBB

A in 2023

FACTOR
RATINGS

A

STRUCTURES

BBB

TECHNOLOGIES

GROUP

1

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

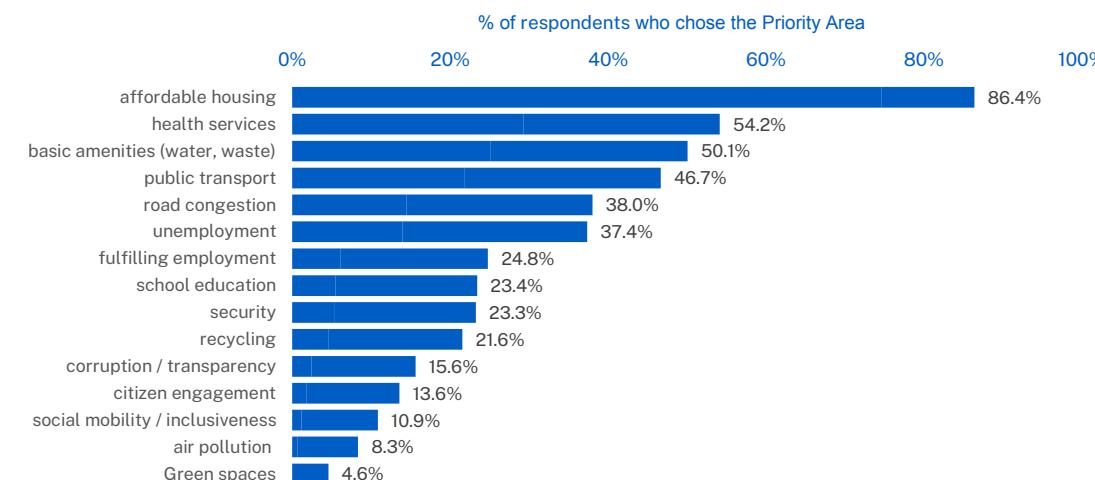
Population 200,000
(UN Data)

HDI 0.958
(Global Data Lab)



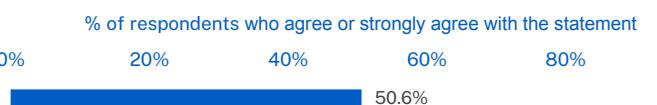
PRIORITY AREAS

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

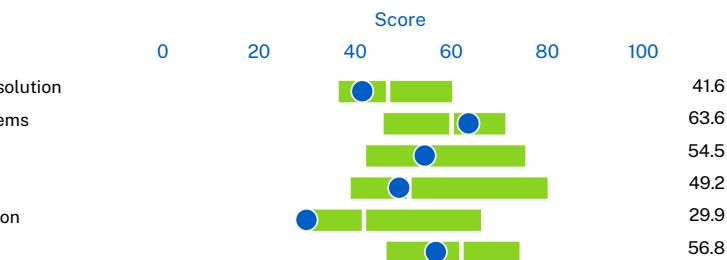
Health & Safety

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



Health & Safety

Online reporting of city maintenance problems provides a speedy solution
A website or App allows residents to easily give away unwanted items
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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



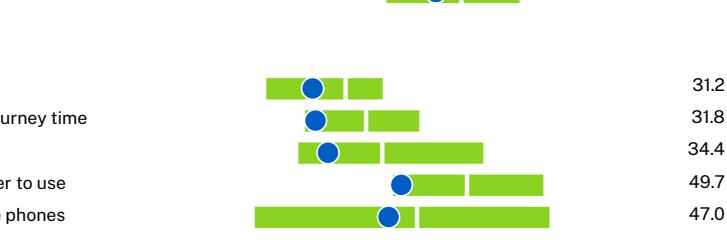
Mobility

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



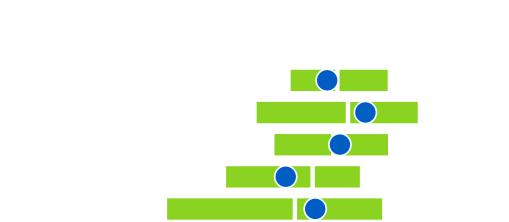
Activities

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



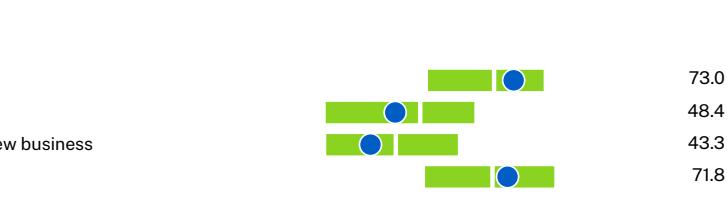
Opportunities (Work & School)

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



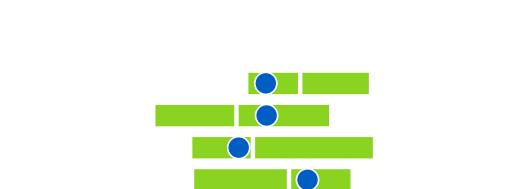
Opportunities (Work & School)

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



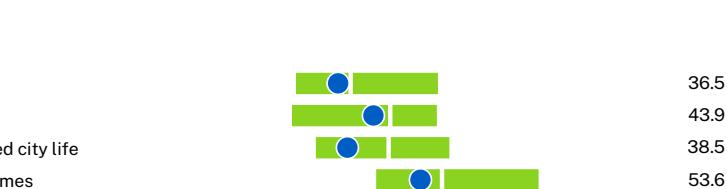
Governance

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
102

Out of 142



106 in 2023
Out of 141

SMART
CITY RATING



CCC in 2023

FACTOR
RATINGS



STRUCTURES

TECHNOLOGIES



All ratings range
from AAA to D

BACKGROUND INFORMATION

City

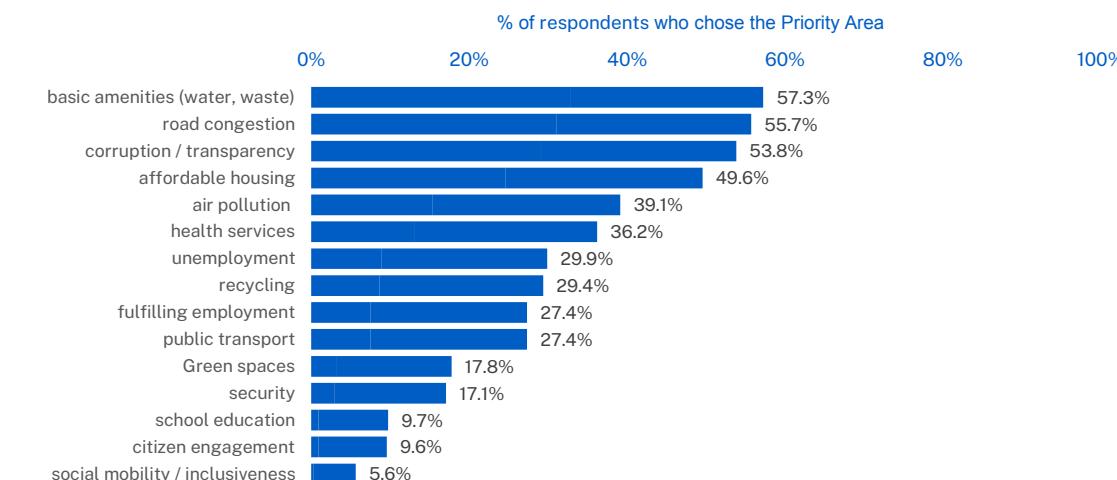
Population 800,000
(Eurostat)



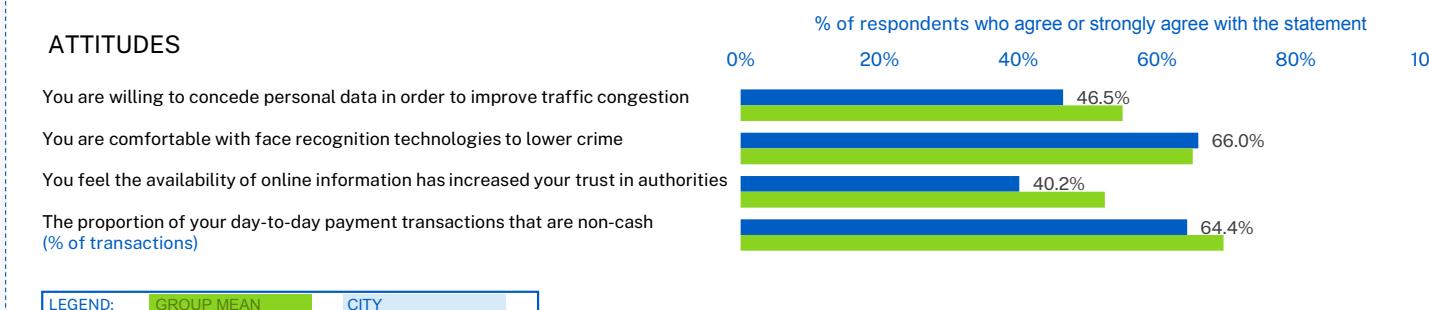
Country

Croatia	2019	2020	2021	2022	1 yr change
HDI	0.866	0.860	0.867	0.878	+0.011
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

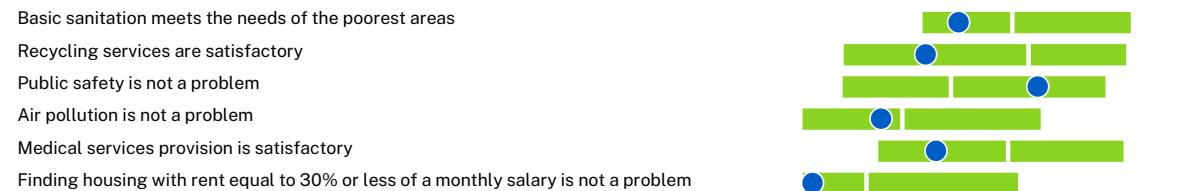


LEGEND: GROUP MEAN CITY

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



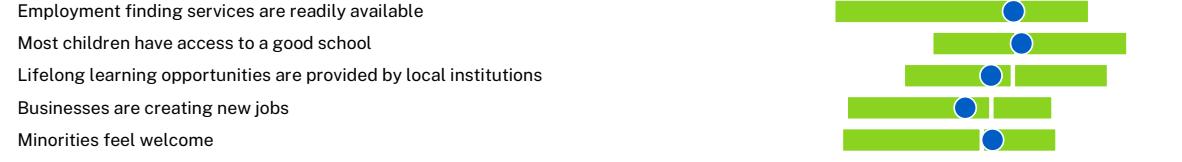
Mobility



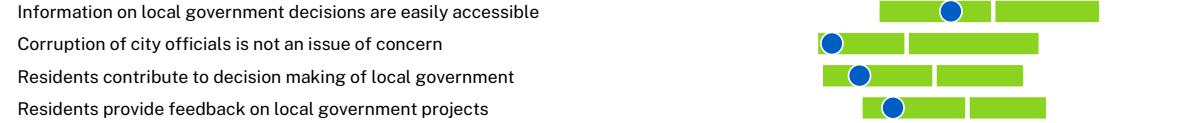
Activities



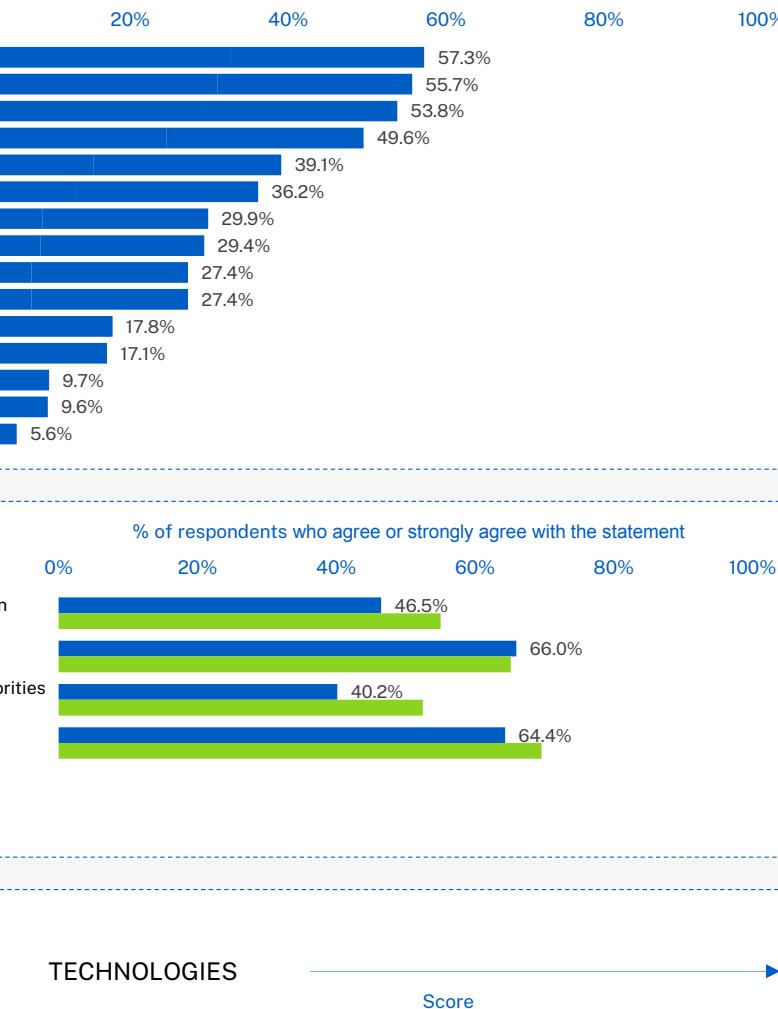
Opportunities (Work & School)



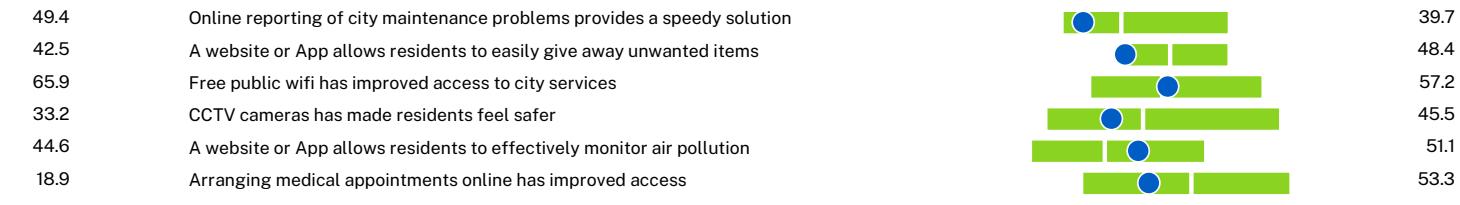
Governance



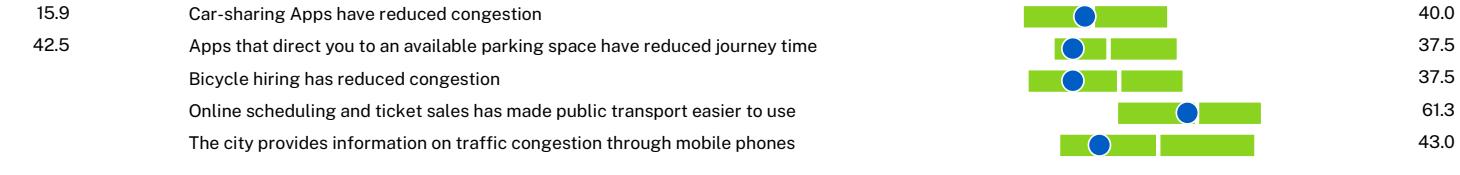
STRUCTURES



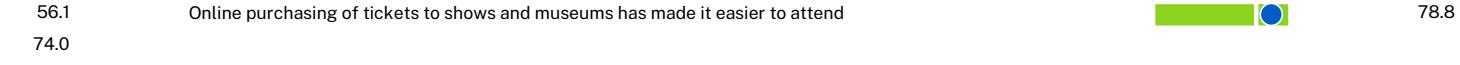
Health & Safety



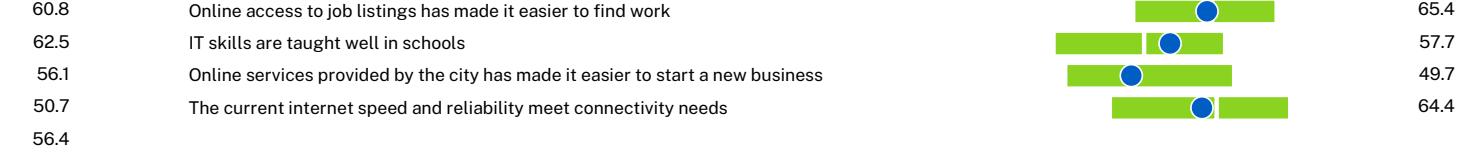
Mobility



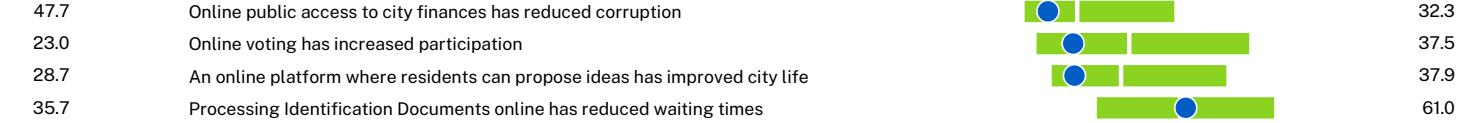
Activities



Opportunities (Work & School)



Governance



Zaragoza

SMART
CITY
RANKING
57

Out of 142



54 in 2023
Out of 141

SMART
CITY RATING

CCC

CCC in 2023

FACTOR
RATINGS

B

STRUCTURES

CC

TECHNOLOGIES

GROUP

3

All ratings range
from AAA to D

BACKGROUND INFORMATION

City

Population 670,000
(Eurostat)

HDI 0.912
(Global Data Lab)

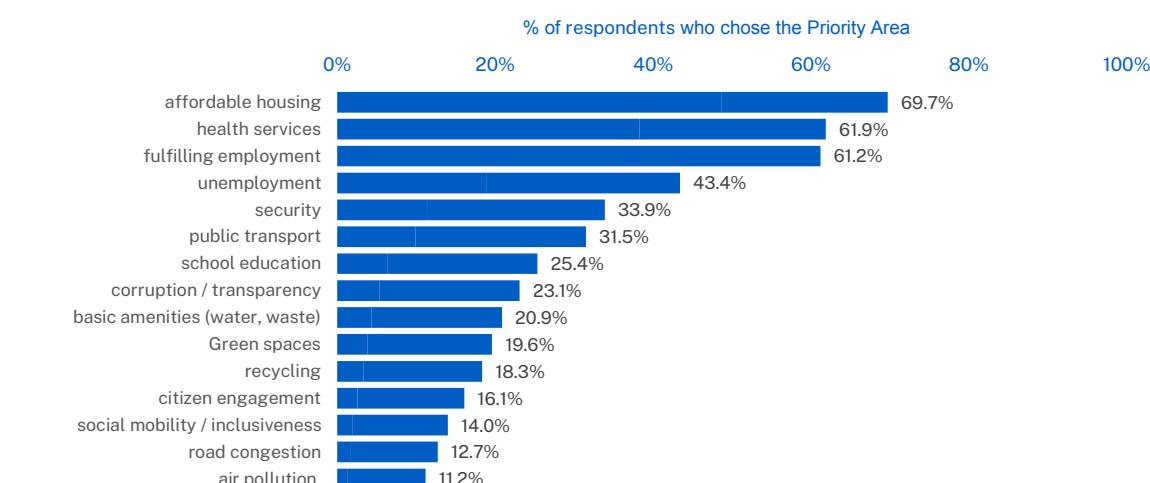


Country

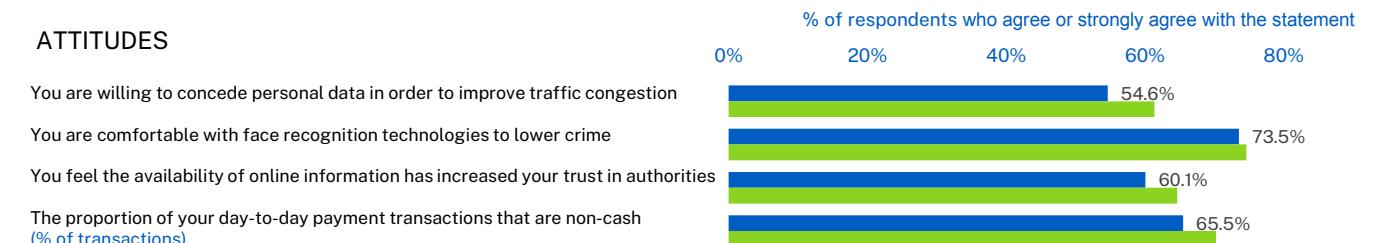
Spain	2019	2020	2021	2022	1 yr change
HDI	0.904	0.894	0.904	0.911	+0.007
Life expectancy at birth	83.5	82.3	83.0	83.9	+0.9
Expected years of schooling	17.5	17.5	17.8	17.8	+0.0
Mean years of schooling	10.4	10.6	10.6	10.6	+0.0
GNI per capita (PPP \$)	40,854	36,076	38,133	40,043	+1,911

PRIORITY AREAS

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

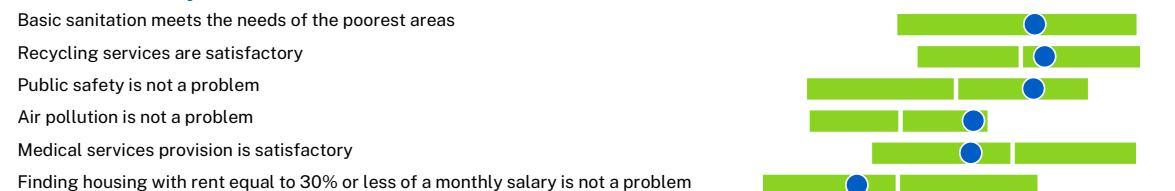


LEGEND: MIN CITY MEAN GROUP MAX

STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

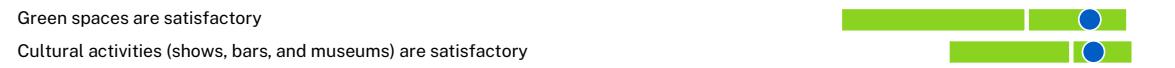
Health & Safety



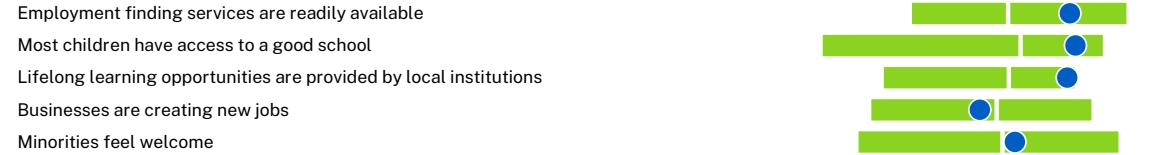
Mobility



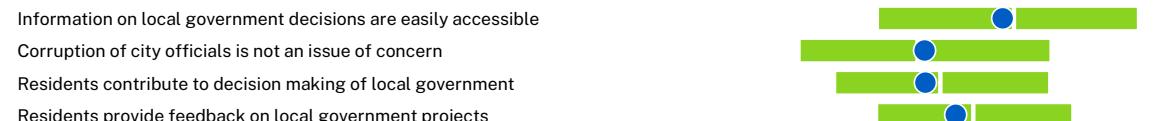
Activities



Opportunities (Work & School)



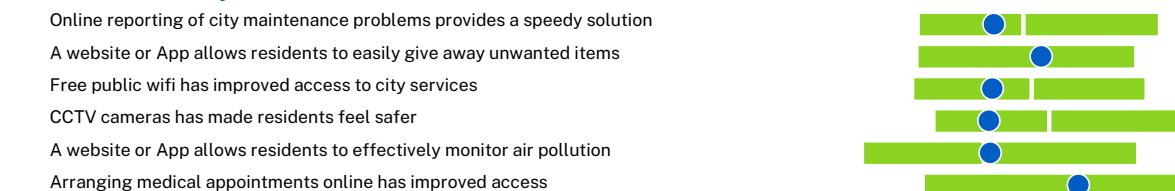
Governance



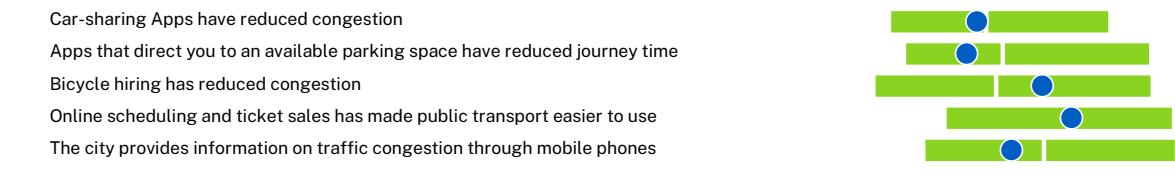
TECHNOLOGIES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



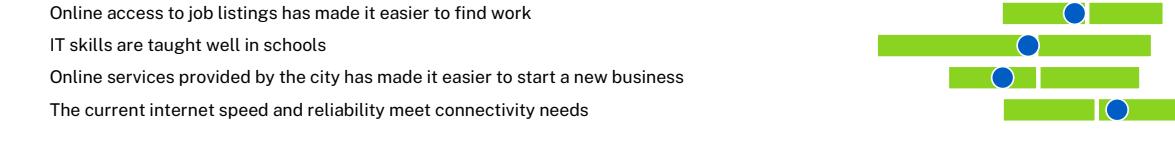
Mobility



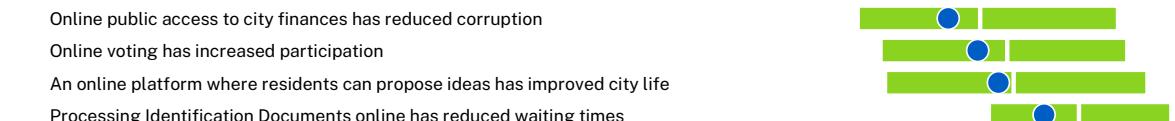
Activities



Opportunities (Work & School)



Governance



SMART CITY RANKING

58

Out of 142



60 in 2023
Out of 141

SMART CITY RATING

CCC

CCC in 2023

FACTOR RATINGS

CCC

STRUCTURES

CCC

TECHNOLOGIES

GROUP



All ratings range from AAA to D

BACKGROUND INFORMATION

City

Population 1,760,000
(UN World Urbanization Prospects)

HDI 0.799
(Global Data Lab)

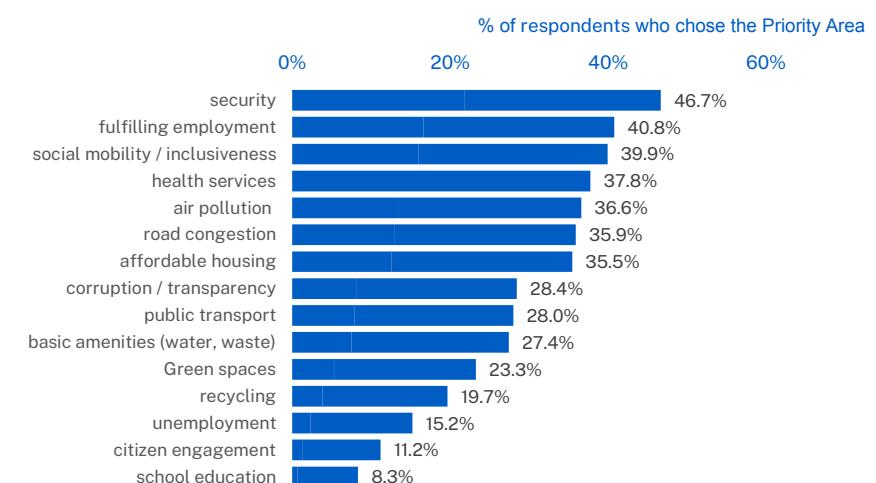


Map tiles by Stamen Design CC BY 3.0 Map Data © OpenStreetMap

Country

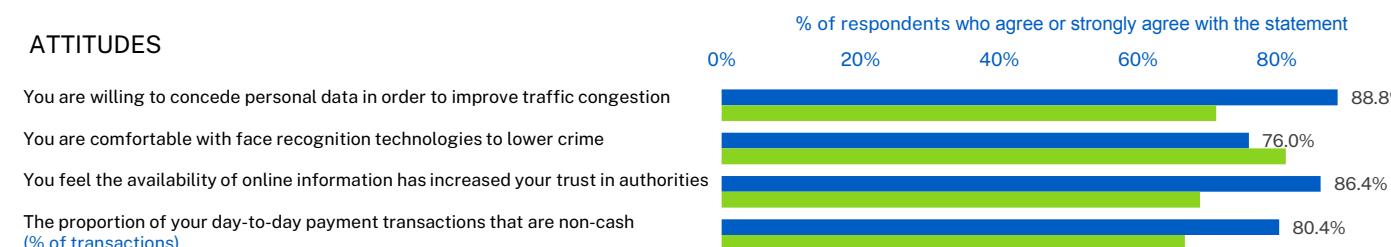
China	2019	2020	2021	2022	1 yr change
HDI	0.775	0.781	0.785	0.788	+0.003
Life expectancy at birth	78.0	78.1	78.2	78.6	+0.4
Expected years of schooling	15.0	15.2	15.2	15.2	+0.0
Mean years of schooling	8.0	8.1	8.1	8.1	+0.0
GNI per capita (PPP \$)	15,934	16,168	17,499	18,025	+526

PRIORITY AREAS



100%

ATTITUDES



100%

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



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

LEGEND: MIN CITY MEAN GROUP MAX

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

Score



Activities

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

Score



Activities

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

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

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

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

Score



LEGEND: MIN CITY MEAN GROUP MAX

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



SMART CITY RANKING

1

Out of 142

1 in 2023
Out of 141

SMART CITY RATING

AAA

AAA in 2023

FACTOR RATINGS

AAA

STRUCTURES

AA

TECHNOLOGIES

1

All ratings range from AAA to D

BACKGROUND INFORMATION

City

Population 410,000
(Eurostat)

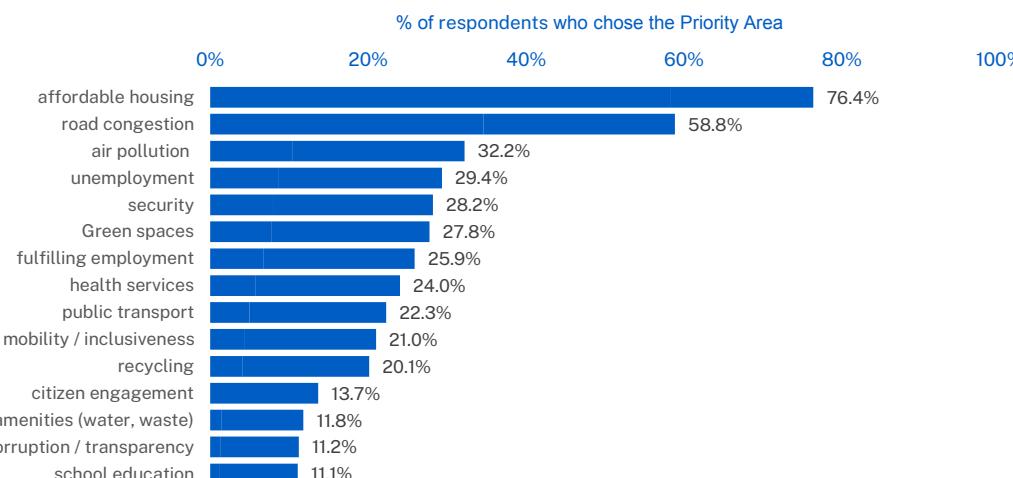
HDI 0.989
(Global Data Lab)



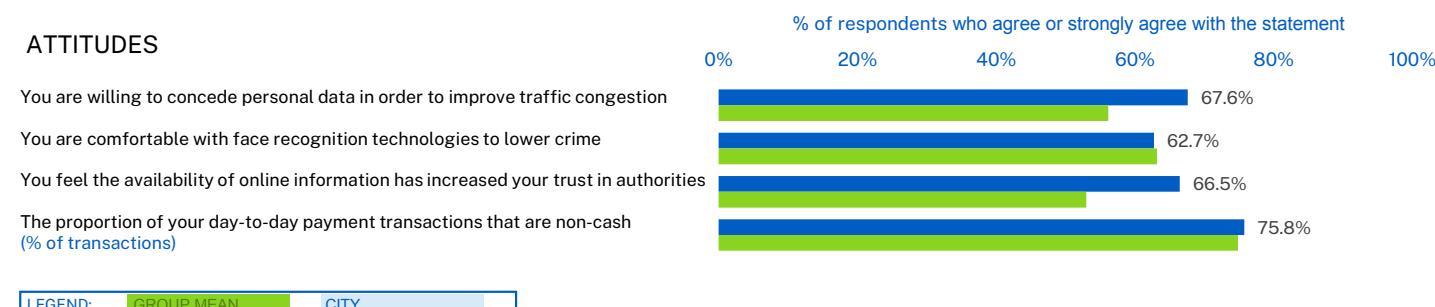
Country

Switzerland	2019	2020	2021	2022	1 yr change
HDI	0.960	0.957	0.965	0.967	+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

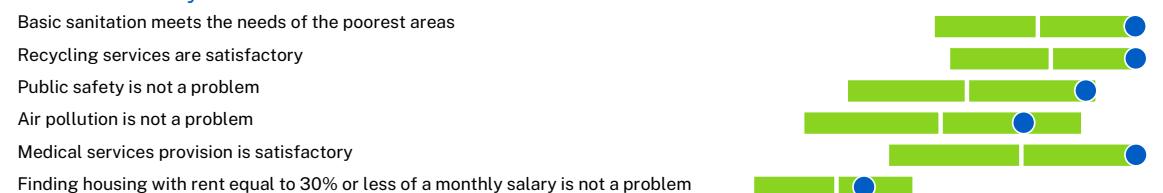


LEGEND: GROUP MEAN CITY

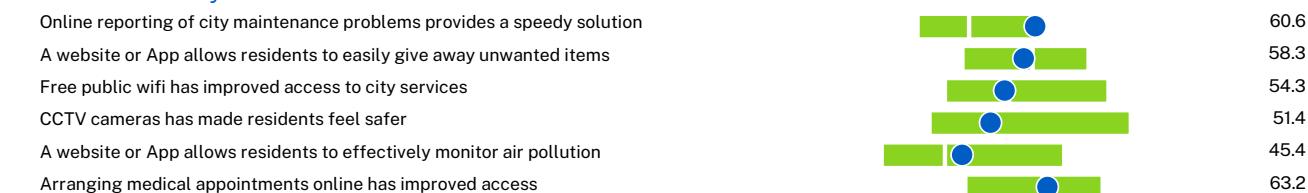
STRUCTURES

LEGEND: MIN CITY MEAN GROUP MAX

Health & Safety



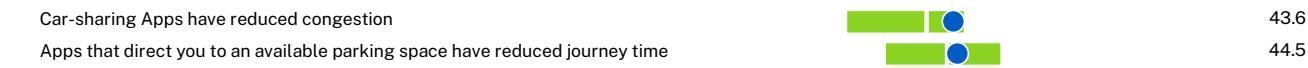
Health & Safety



Mobility



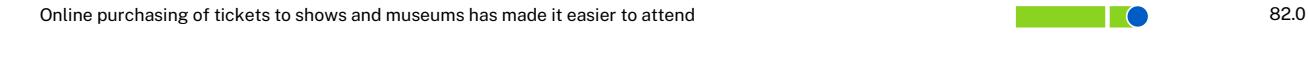
Mobility



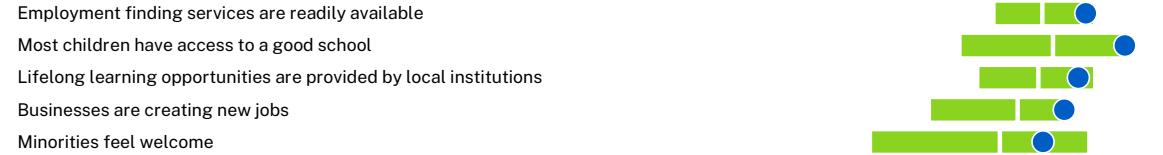
Activities



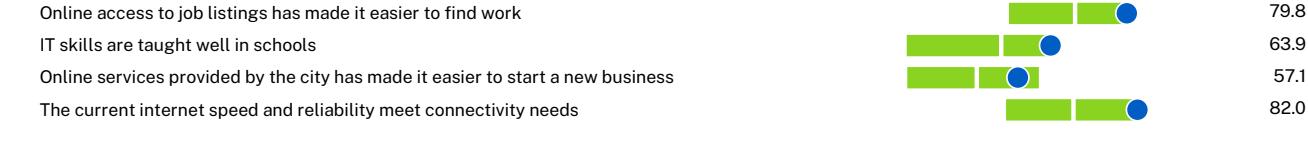
Activities



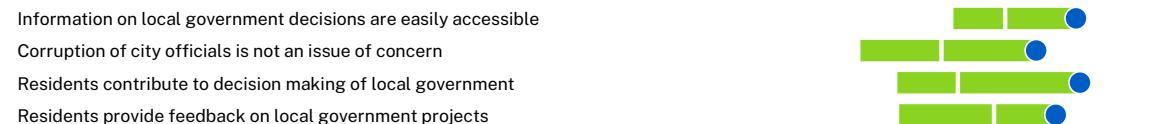
Opportunities (Work & School)



Opportunities (Work & School)



Governance



Governance

