

## Brasília

Global Business Cities 2025 report



### Global Business Cities 2025

Dear Reader,

We hope that you will enjoy familiarizing yourself with this Global Business Cities 2025 report. We have carefully collected and analyzed data that provides you with a comprehensive and up-to-date impression of the city of your choice.

These reports cover 200 most important business cities from 73 countries and territories around the globe. The distribution of cities across the geographical regions and countries was based on their relative share of the global and regional economy. The individual cities included in this product were chosen based on their economic importance and geographical distribution.

Tytti Mälkki studied International Business and Politics in Copenhagen, São Paulo, and Beijing and has specialized in subnational econometric analysis. Tytti has been part of Statista since summer 2017 with prior experience in consulting and communications.

We wish you a valuable and insightful reading experience.



Tytti Mälkki

### Global cities for business 2025

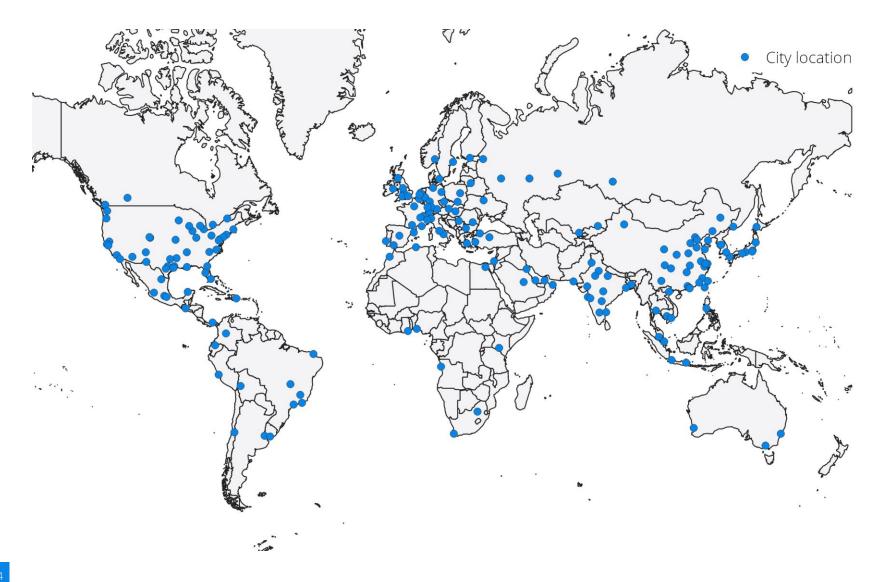
Urbanization has been identified as one of the megatrends shaping the economy and society globally. More than half of the world's population already lives in urban areas, and this proportion is expected to rise to over 65 percent by 2030. In addition, urban agglomerations are becoming larger in size. According to population projections there will be 49 cities with over 10 million inhabitants by 2025 and increasing number of these so-called megacities are in the South and East.

Not just people, but economic activities tend to concentrate in cities as more than 70 percent of world's Gross Domestic Product (GDP) is generated in cities. Cities are increasingly seen removed from their national context and considered more in relation to one another in a transnational network of central marketplaces and operational hubs. Both urbanization and the role of cities as economic powerhouses highlight the importance of taking a closer look at the aspects that are associated with cities that nurture businesses.

Environmental factors beyond just the population size and GDP measures determine how advantageous of a location a given city will be for business as companies cannot operate in a vacuum separated from the wider context of the economy and society. For this reason, these reports have identified, collected and analyzed a set of indicators connected to the attractiveness of a city from a global business perspective. This collection has been divided to conceptual chapters describing different sides of what makes a city into a good location choice from the perspective of business operations. The society chapter features information connected to institutional quality, the economy chapter emphasizes the economic strength and level of development, the operational environment focuses on infrastructure and logistics, while the charisma chapter highlights aspects reflecting cultural capital and social influence.

Based on the research conducted for the Global Business Cities 2025 ranking, these conceptual categories were mostly resonating with the results. Factors that were found most connected to the favorable business environment were quality of institutions supporting business activities, general quality of life in the city in terms of health and individual rights, soft power from connectedness and cultural capital, as well as importance of the market in terms of size of local economy and trade volume.

### Global Business Cities 2025



### Agenda

### 01 Introduction

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- Executive summary

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- Education
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- Business environment
- Living standards

### 04 Operational environment

- Information exchange
- Transportation
- Social infrastructure

### 05 Charisma

- Tourism
- Culture
- Environment

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- Glossary
- Author

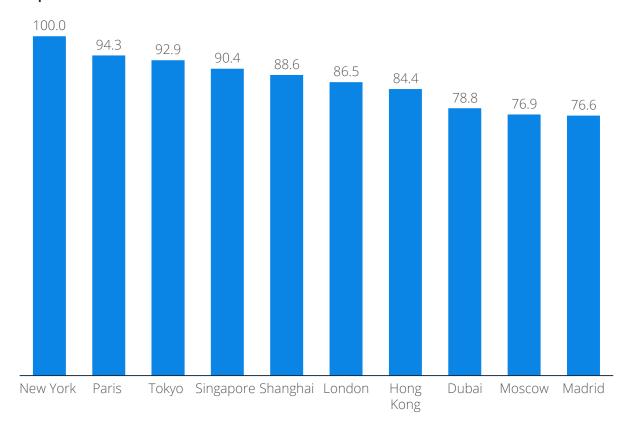


### Brasília ranked 164th out of 200 Global Business Cities 2025

#### Global Business City 2025 results



### Top 10 cities in Global Business Cities 2025 index



## Global business Cities 2025 rankings (1/2)

#	City	Total score
	New York	100.0
1 2 3 4 5 6 7 8 9 10 11	Paris	94.3
3	Tokyo	92.9
4	Singapore	90.4
5	Shanghai	88.6
6	London	86.5
7	Hong Kong	84.4
8	Dubai	78.8
9	Moscow	76.9
10	Madrid	76.6
11	Boston	76.4
12	Vienna	76.3
13	Oslo	75.9
14	Amsterdam	75.4
15	Athens	74.8
16	Shenzhen	74.2
13 14 15 16 17 18 19 20	Frankfurt	73.6
18	Chicago	73.3 72.3
19	Stockholm	72.3
20	Berlin	71.6
21	Brussels	71.3
22	Zürich	70.6
23 24	Helsinki	70.1
24	Munich	69.0
25	Lisbon	68.6

#	City	Total score
26	Sydney	68.4
27	Copenhagen	65.0
28	Hamburg	65.0
29	Barcelona	64.7
30	Toronto	63.9
31	Miami	61.1
32	Melbourne	60.4
33	Düsseldorf	60.4
34	Busan	60.4
35	Dublin	60.0
36	Istanbul	58.5
37	Taipei	58.4
38	Osaka	57.9
39	Budapest	57.7
40	Tel Aviv	57.1
41	São Paulo	57.0
42	Kuala Lumpur	56.1
43	Milan	55.9
44	Stuttgart	55.8
45	Jakarta	54.2
46	Sofia	54.0
47	Vilnius	53.2
48	Quito	53.2
49	Saint Petersburg	53.1
50	Seoul	52.4

#	City	Total score
51	Atlanta	52.3
52	Montréal	51.9
53	Perth	51.3
54	Bucharest	51.3
55	Buenos Aires	50.8
56	Calgary	50.5
57	Fukuoka	50.3
58	Dalian	50.2
59	Santiago	50.2
60	Warsaw	48.9
61	Prague	48.8
62	Mexico City	48.7
63	Guangzhou	48.2
64	Doha	48.2
65	Riyadh	47.8
66	Los Angeles	47.8
67	Muscat	47.5
68	Nagoya	47.3
69	Kuwait City	46.8
70	Tashkent	46.3
71	Belgrade	45.6
72	Kiev	45.4
73	Montevideo	45.1
74	Almaty	44.2
75	Santo Domingo	44.0

#	City	Total score
	Ahmedabad	
76 77		43.9
	Algiers	41.9
78	Bogotá	41.6
79	San Francisco	41.0
80	Mumbai	40.9
81	Rome	40.9
82	La Paz	40.3
83	Luanda	40.2
84	Panama City	38.8
85	Minneapolis	38.6
86	Lima	38.3
87	Washington D.C.	37.2
88	Beijing	37.1
89	Denver	37.0
90	Cairo	36.6
91	Pittsburgh	36.0
92	Johannesburg	35.4
93	Seattle	35.3
94	Dallas	35.2
95	Karachi	34.4
96	Manchester	34.2
97	Ho Chi Minh City	34.1
98	Rotterdam	33.8
99	Portland	33.4
100	Accra	33.2

## Global business Cities 2025 rankings (2/2)

#	City	Total score
101	Geneva	33.1
102	Manila	33.0
103	Qingdao	33.0
104	Hangzhou	32.8
105	Kaohsiung	32.6
106	Lagos	32.6
107	Lahore	32.0
108	Dhaka	31.1
109	Cologne	30.4
110	Tampa	30.2
111	Baltimore	30.1
112	Tianjin	29.9
113	Hanoi	29.7
114	Strasbourg	29.6
115	Guadalajara	29.5
116	Phoenix	29.4
	Kolkata	29.2
118	Phnom Penh	29.1
119	Honolulu	28.3
120	Auckland	28.3
121	Vancouver	28.1
122	Cleveland	27.1
123	Casablanca	26.6
124	Chengdu	26.5
125	Nairobi	26.5

#	City	Total score
	Xiamen	26.4
	Changsa	26.3
	Sevilla	26.3
	St. Louis	
		25.9
	Naples	25.8
	Charlotte	25.4
	Incheon	25.4
_	Marseille	24.9
	Kunming	24.7
	Turin	24.3
	Sapporo	24.2
137	Birmingham	24.2
138	Lyon	24.1
139	Xi'an	23.8
140	Rio de Janeiro	23.7
	Philadelphia	23.7
	Toulouse	23.5
143	Surabaya	23.5
	Guatemala City	23.5
	San Jose	23.4
	Houston	23.3
	Glasgow	23.2
_	Suzhou	22.9
	Chongqing	22.9
	Detroit	22.9

#	City	Total score
	Bangkok	22.8
	Novosibirsk	22.8
	Bristol	22.7
	San Diego	22.7
	Kazan	22.4
156	Sacramento	22.2
157	Albuquerque	22.1
158	Nanjing	21.9
159	Wuhan	21.8
160	Yekaterinburg	21.4
161	Vladivostok	20.9
	Monterrey	20.3
163	Columbus	20.3
164	Brasília	20.3
	El Paso	20.3
	Indianapolis	20.2
167	Delhi	19.9
	Kansas City	19.7
	Ankara	19.0
	New Orleans	19.0
	Zhengzhou	18.3
	Sendai	18.3
	Pune	18.2
	Jacksonville	18.2
175	Yokohama	17.8

#	City	Total score
176	Austin	17.8
177	Nashville	17.7
178	Belo Horizonte	17.6
179	Krakow	17.3
180	Urumqi	17.2
181	Puebla	17.1
182	Harbin	16.6
183	Fuzhou	16.5
184	Shenyang	16.0
185	Mérida	15.7
186	Louisville	15.3
187	Jinan	15.1
188	Izmir	14.8
189	San Antonio	14.7
190	Lanzhou	14.5
191	Bangalore	14.2
192	Shijiazhuang	13.4
193	Lucknow	11.3
194	Memphis	9.8
195	Nagpur	9.2
196	Jaipur	8.6
197	Fortaleza	7.1
198	Cape Town	6.8
199	Hyderabad	2.9
200	Chennai	0

### Brazil





#### General information:

Capital: Brasilia

Official language(s): Portuguese

Main religion: Roman Catholic

Main ethnic group: White

**Population:** 210,867,954

**Area:** 8,515,770 sq km

- **Population density:** 25.0 people per sq km

Total real GDP¹ in 2018: US\$1,289.5bn

- **GDP¹** per capita: US\$6,164.04

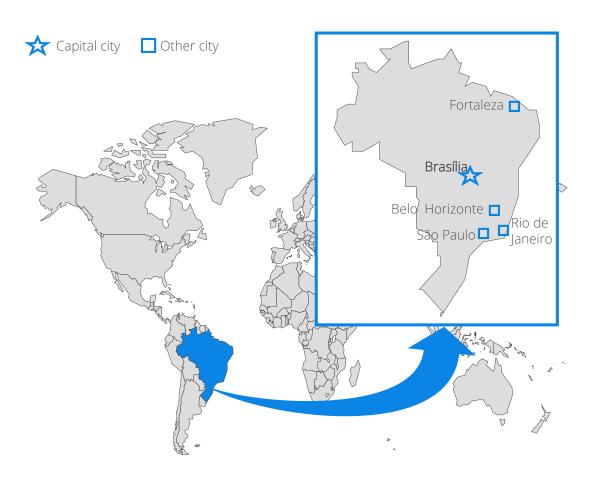
Corporate tax: 24.9%

**Currency:** Reals (BRL)

- Exchange rate: USD/BRL = 3.60

Time zone: UTC-3
Calling code: +55

### Brasília



#### General information

- Population in 2019: 4.6 million
- Total population growth 2019-2025: 9.7%

#### Economy

- City product: n.a.
- City product per capita: US\$15,747.2 PPP
- Number of tourists per year: 0.2 million
- Unemployment rate: 7.5%
- Poverty rate: n.a.

#### Logistics

- International airport: Yes
- Harbour: No
- Airfreight: 49 thousand metric tons
- Shipping freight: n.a
- Air passengers: 16.9 million

#### Infrastructure

- Internet penetration: n.a.
- Stock exchange: No

#### Quality of life

- Mean years of schooling<sup>1</sup>: 10.2
- Life expectancy at birth: n.a.
- Air pollution: 118 PM10 μg/m3 (annual mean)

<sup>1:</sup> Average number of completed years of education of population aged 25 years and older, excluding years spent repeating individual grades Note: World Health Organization (WHO) has set air quality guideline at 20.0 PM10 µg/m3 measured as annual mean. See appendix for definitions

## City orientation

### **Airport information**

Brasília-Presidente Juscelino Kubitschek International Airport (BSB), Brasília

• Distance to city center: 6 km

Domestic connections: 35

Total connections: 44

Other airports nearby<sup>1</sup>: Goiânia (GYN)



## Brazil sports 5 major airports – flight time from the U.S. ca. 11-17 hours

### Major airports in Brazil<sup>1</sup>

São Paulo-Guarulhos International Airport, Sao Paulo

Airport code: GRU

• Distance to city center: 26 km

Brasília-Presidente Juscelino Kubitschek International Airport, Brasilia

Airport code: BSB

• Distance to city center: 6 km

Galeão International Airport, Rio de Janeiro

Airport code: GIG

Distance to city center: 17 km

Tancredo Neves International Airport, Confins

Airport code: CNF

• Distance to city center: 39 km

Viracopos International Airport, Campinas

Airport code: VCP

• Distance to city center: 19 km

Flight times from regional hubs in hours (no. of stops)<sup>2</sup>

Region	Hub	GRU	BSB	GIG	CNF	VCP
North America	New York City, the U.S. (JFK)	10:30 (0)	16:50 (1)	15:25 (1)	16:10 (1)	16:10 (1)
Latin America & Caribbean	São Paulo, Brazil (GRU)	0:00	1:35 (0)	1:05 (0)	1:10 (0)	NA
Europe & Central Asia	London, the UK (LHR)	11:45 (0)	13:30 (1)	11:45 (0)	13:30 (1)	17:15 (2)
East Asia & Pacific	Hong Kong, Hong Kong (HKG)	26:20 (1)	30:00 (2)	24:55 (1)	31:50 (2)	31:10 (3)
South Asia	Delhi, India (DEL)	20:10 (1)	23:05 (2)	22:55 (2)	23:05 (2)	28:15 (3)
Middle East & North Africa	Dubai, the UAE (DXB)	14:55 (0)	24:35 (2)	14:20 (0)	21:00 (1)	25:25 (2)
Sub- Saharan Africa	Johannesburg, South Africa (JNB)	10:30	16:50 (1)	15:25 (1)	16:10 (1)	41:30 (3)

<sup>1:</sup> Busiest airports by number of Passengers-Infraero Aeroportos 2: Most direct and fastest routes are considered. Flight times for 17th July 2019-Google Flights

Note: Distances to city center are based on the shortest route calculated by Google Maps and rounded to full kilometers Sources: Google Flights, Google Maps

### Executive summary (1/2)

#### Society

- This city is growing faster than the other cities in this region on average
- The level of English proficiency is low in this country
- Inhabitants in this city have 1.0 years less education than in the regional high performer
- In 'control on corruption' Brazil is 52.4 points behind regional high performer
- This city is considered more dangerous than average for this region

#### **Economy**

- The total population was smaller and the city GDP lower in this city compared to general region
- The city GDP per capita in this city was US\$15,747.2, while it was US\$32,195.2 in regional high-performer
- It takes 79.5 days to start a business in Brazil compared to 5.6 days in the U.S.
- Cost of living was higher than in this region in general
- At US\$957, the average rent in this city was US\$574 lower than the highest for this region

### Executive summary (2/2)

#### **Operational Environment**

- The internet penetration in this region is on average 47.6%
- This city does not have a stock exchange
- The lower than average rate of congestion is paired with higher population growth
- The regional average for shipping freight volume was 0.8 mTEU
- The density of universities in this city was lower than regional average

#### Charisma

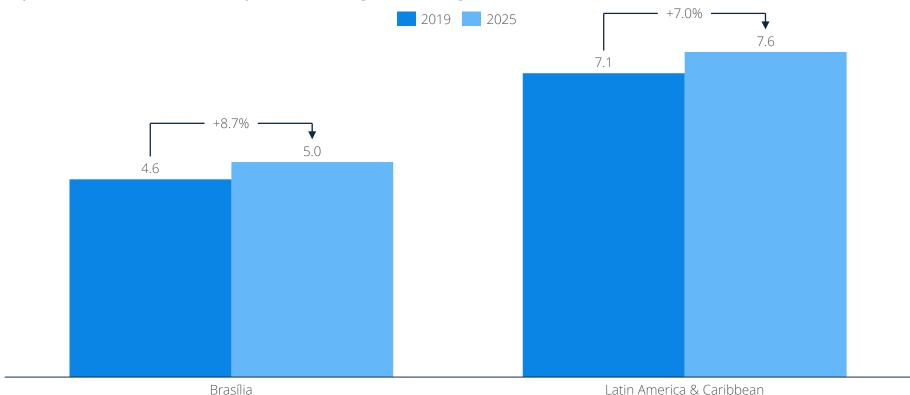
- Brasília was less popular on Instagram than cities in this region
- The average number of museums in this region is 51.1
- There are 50 embassies or consulates in this city
- In a year, there were 0 days under 0°C and 68 days above 30°C in this city
- At 118 µg/m3, the air pollution concentration was 490% higher than the WHO guideline



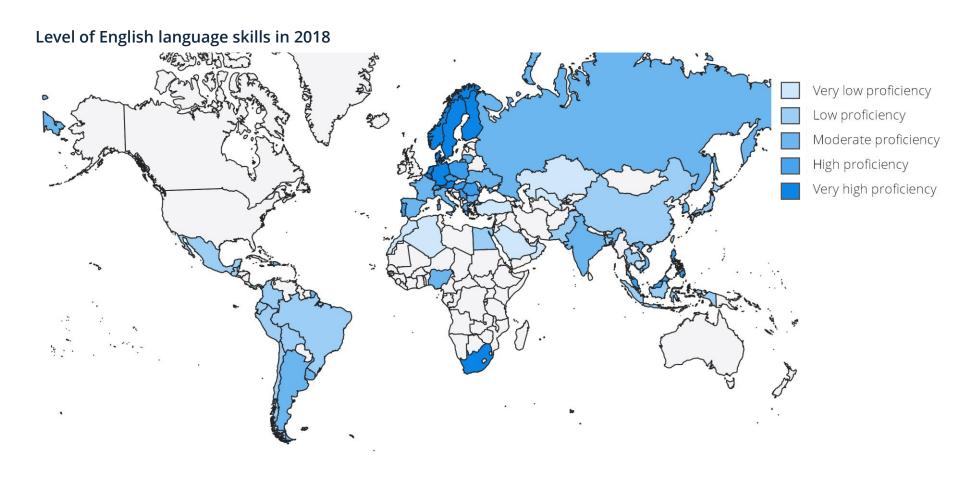
## **SOCIETY**

# This city is growing faster than the other cities in this region on average



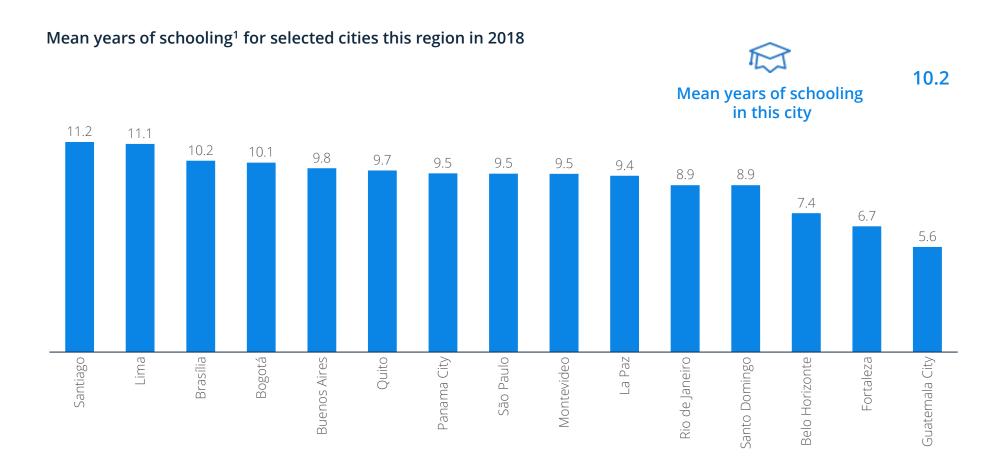


### The level of English proficiency is low in this country



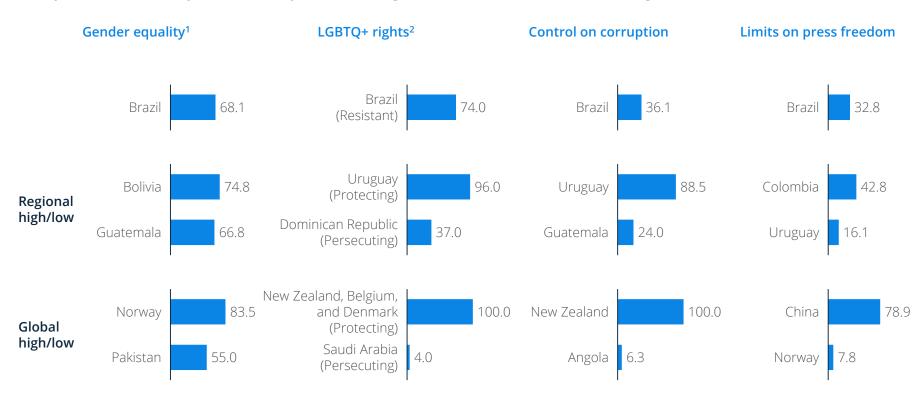
Sources: EF 2018

# Inhabitants in this city have 1.0 years less education than in the regional high performer

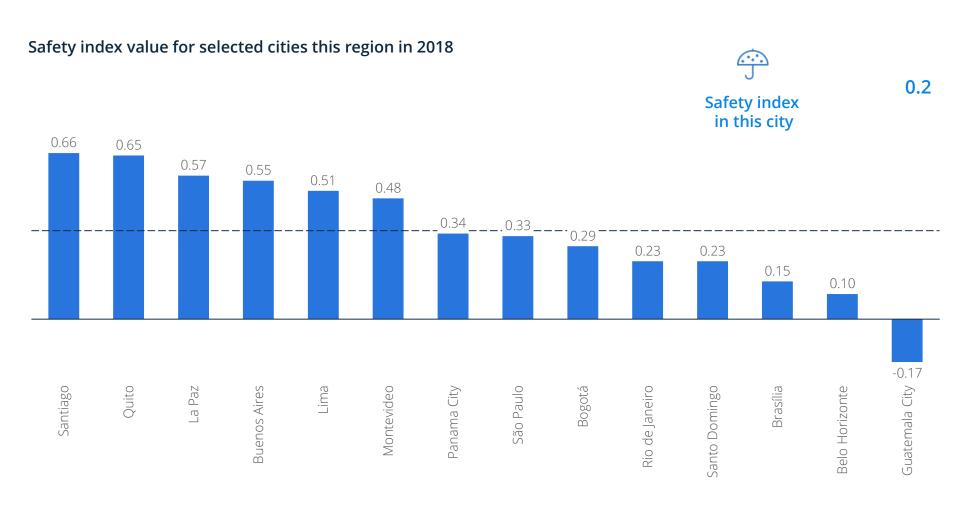


# In 'control on corruption' Brazil is 52.4 points behind regional high performer

### Comparison of country and territory scores to highest and lowest scores in the region and worldwide in 2019



# This city is considered more dangerous than average for this region



## Life expectancy at birth (1/2)

#	City	Years
1	Hong Kong <sup>1</sup>	84.7
2	Seoul	84.1
3	Fukuoka <sup>1</sup>	84.1
4	Nagoya <sup>1</sup>	84.1
5	Sapporo <sup>1</sup>	84.1
6	Sendai <sup>1</sup>	84.1
7	Yokohama <sup>1</sup>	84.1
8	Madrid	84.0
9	Geneva <sup>1</sup>	83.6
10	Paris	83.6
11	Toulouse	83.6
12	Sevilla <sup>1</sup>	83.3
13	Naples <sup>1</sup>	83.2
14	Rome <sup>1</sup>	83.2
15	Turin <sup>1</sup>	83.2
16	Lyon	83.1
17	Tokyo	83.0
18	Milan	82.9
19	Zürich	82.9
20	Barcelona	82.7
21	Osaka	82.7
22	Tel Aviv <sup>1</sup>	82.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Perth <sup>1</sup>	82.5
24	Calgary <sup>1</sup>	82.5
25	Vancouver <sup>1</sup>	82.5

#	City	Years
26	Incheon	82.4
27	Melbourne	82.4
28	Marseille	82.3
28	Stockholm	82.2
30	Singapore	82.1
31	Strasbourg	82.1
32	Sydney	82.0
33	Busan	81.9
34	Stuttgart	81.8
35 36	Toronto	81.8
36	Oslo	81.7
37	Auckland <sup>1</sup>	81.7
38	San Jose	81.6
39	Rotterdam <sup>1</sup>	81.6
40	Montreal	81.5
41	London	81.4
<u>41</u> <u>42</u>	Munich	81.4
43 44	Frankfurt	81.2
44	Miami	81.2
45	Los Angeles	81.1
46	San Diego	81.1
47	Dublin	81.0
48	Helsinki	80.9
49	San Francisco	80.9
50	Amsterdam	80.8

#	City	Years
51	Berlin	80.8
52	Bristol	80.7
53	Lisbon	80.7
54	Hamburg	80.6
55 56 57	Athens	80.5
56	Boston	80.5
57	New York	80.5
58	Washington D.C.	80.5
59	Brussels	80.4
60	Düsseldorf	80.4
61	Cologne	80.4
62	Kaohsiung <sup>1</sup>	80.4
63	Taipei <sup>1</sup>	80.4
64	Portland	80.1
65	Atlanta	80.0
66	Vienna	80.0
67	Austin	80.0
68	Birmingham	79.8
69	Santiago <sup>1</sup>	79.7
70 71 72	Dallas	79.7
71	Denver	79.7
72	Seattle	79.7
73	Copenhagen	79.6
74	Minneapolis	79.6
75	Phoenix	79.6

City	Years
	79.5
	79.5
	79.5
	79.4
	79.4
	79.3
	79.2
	79.1
	79.0
	78.9
	78.9
	78.9
	78.8
	78.7
	78.7
	78.6
Panama City	78.6
Kansas City	78.4
Nashville	78.4
St. Louis	78.4
Doha <sup>1</sup>	78.3
Albuquerque	78.3
Columbus	78.2
Honolulu	78.2
Bogotá	78.0
	Kansas City Nashville St. Louis Doha <sup>1</sup> Albuquerque Columbus Honolulu

## Life expectancy at birth (2/2)

#	City	Years
101	San Antonio	78.0
102	Louisville	77.9
103	Krakow <sup>1</sup>	77.9
104	Detroit	77.7
105	Hangzhou	77.7
106	Montevideo <sup>1</sup>	77.6
	Indianapolis	77.6
	Dubai <sup>1</sup>	77.4
109	Mexico City <sup>1</sup>	77.3
	Quito	77.3
111	Muscat <sup>1</sup>	77.3
	Buenos Aires	77.2
	Warsaw	77.2
114	Shijiazhuang	77.0
	Moscow	76.8
116	Baltimore	76.6
117	Nanjing	76.6
118	Suzhou	76.6
119	Budapest	76.5
120	Guangzhou	76.5
	Jinan	76.5
122	Qingdao	76.5
123	Shenzhen	76.5
124	Dalian	76.4
125	Shenyang	76.4

#	City	Years
126	São Paulo	76.3
127	Algiers <sup>1</sup>	76.3
128	Belgrade <sup>1</sup>	76.1
129	Ankara <sup>1</sup>	76.0
130	Istanbul <sup>1</sup>	76.0
131	Izmir <sup>1</sup>	76.0
132	Glasgow	76.0
133	Harbin	76.0
134	Fuzhou	75.8
135	Ho Chi Minh City	75.8
136	Xiamen	75.8
137	Belo Horizonte <sup>1</sup>	75.7
138	Brasília <sup>1</sup>	75.7
139	Rio de Janeiro¹	75.7
140	Chongqing	75.7
	Monterrey	75.6
142	Saint Petersburg	75.5
143	Kuala Lumpur <sup>1</sup>	75.5
144	Beijing	75.4
145	Shanghai	75.4
	Bucharest <sup>1</sup>	75.3
147	Mérida	75.3
148	Guadalajara	75.2
149	Hanoi	74.9
150	Wuhan	74.9

#	City	Years
151	Sofia <sup>1</sup>	74.8
152	Kuwait City <sup>1</sup>	74.8
153	Chengdu	74.8
154	Riyadh <sup>1</sup>	74.7
155	Changsha	74.7
156	Xi'an	74.7
157	Vilnius <sup>1</sup>	74.7
158	Zhengzhou	74.6
159	Kazan	74.5
160	Puebla	74.5
161	Bangkok	74.4
162	Fortaleza	74.4
163	Santa Domingo <sup>1</sup>	74.0
164	Almaty <sup>1</sup>	73.0
165	Dhaka <sup>1</sup>	72.8
166	Urumqi	72.4
167	Lanzhou	72.2
168	Novosibirsk	72.2
	Kiev <sup>1</sup>	71.8
170	Cairo <sup>1</sup>	71.7
171	Tashkent <sup>1</sup>	71.4
172	Yekaterinburg	71.4
173	Guatemala City	71.3
174	Vladivostok	71.0
175	Jakarta	70.8

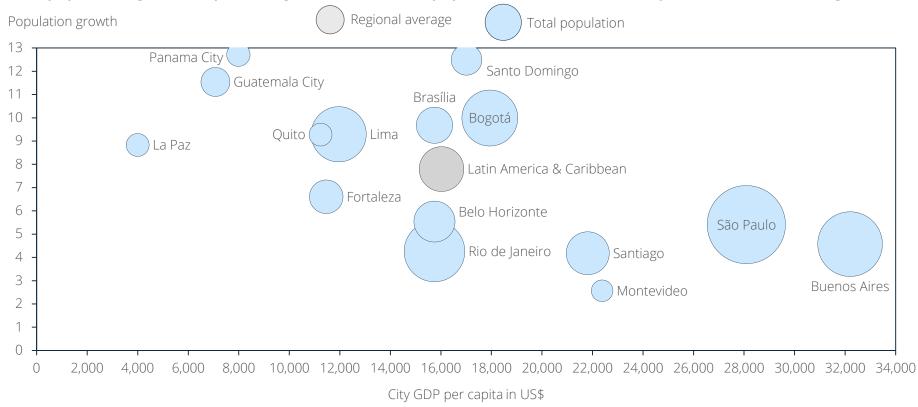
ŧ	City	Years
76	Casablanca	70.2
77	Kunming	69.5
78	La Paz¹	69.5
79	Surabaya <sup>1</sup>	69.4
	Phnom Penh <sup>1</sup>	69.3
81	Manila <sup>1</sup>	69.2
82	Ahmedabad <sup>1</sup>	68.8
83	Bangalore <sup>1</sup>	68.8
84	Chennai <sup>1</sup>	68.8
85	Delhi <sup>1</sup>	68.8
86	Hyderabad <sup>1</sup>	68.8
87	Jaipur <sup>1</sup>	68.8
88	Kolkata <sup>1</sup>	68.8
89	Lucknow <sup>1</sup>	68.8
90	Mumbai <sup>1</sup>	68.8
91	Nagpur <sup>1</sup>	68.8
92	Pune <sup>1</sup>	68.8
93	Karachi <sup>1</sup>	66.6
94	Lahore <sup>1</sup>	66.6
95	Luanda <sup>1</sup>	61.8
96	Nairobi	61.7
97	Accra	61.6
98	Cape Town	56.7
99	Johannesburg	56.7
000	Lagos	51.0



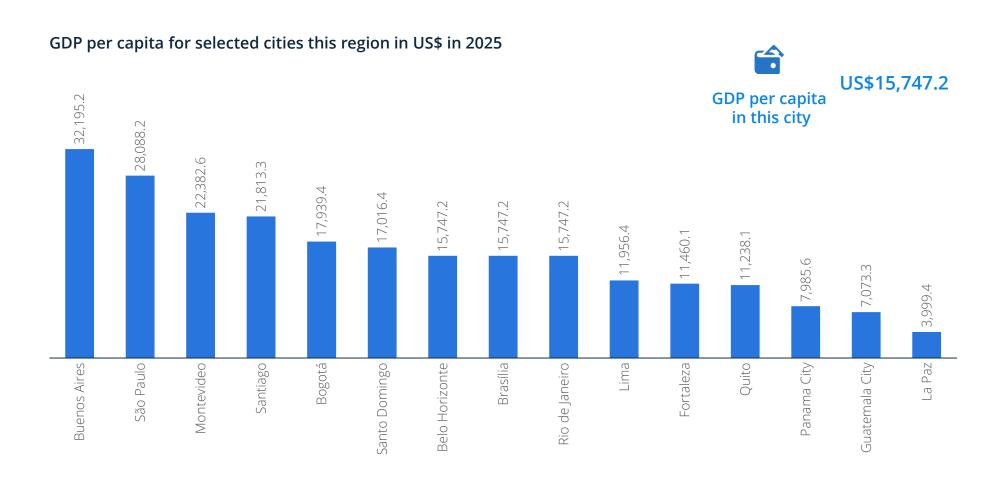
## **ECONOMY**

# The total population was smaller and the city GDP lower in this city compared to general region

### Total population growth in percentage 2019-2025, total population in millions and City GDP in 2025 in the region



# The city GDP per capita in this city was US\$15,747.2, while it was US\$32,195.2 in regional high-performer



# It takes 79.5 days to start a business in Brazil compared to 5.6 days in the U.S.

#### **Business administration**

	Time needed to start a business <sup>1</sup>	Time needed to register property	Time needed to fulfill tax requirements	Time needed to resolve insolvency <sup>1</sup>
Brazil	79.5 days	31.4 days	1958 hours	4.0 years
The U.S.	5.6 days	15.2 days	175 hours	1.0 years

### Delivery

	Time needed to export <sup>1</sup>	Time needed to import <sup>1</sup>	Efficiency of customs clearance <sup>1</sup>	
Brazil	13.4 days	17 days	2.5	
The U.S.	6 days	5.4 days	3.7	

## International hotel chains are not represented in Brasília

General information: Global services (1/2)

#### Presence of hotel restaurant chains

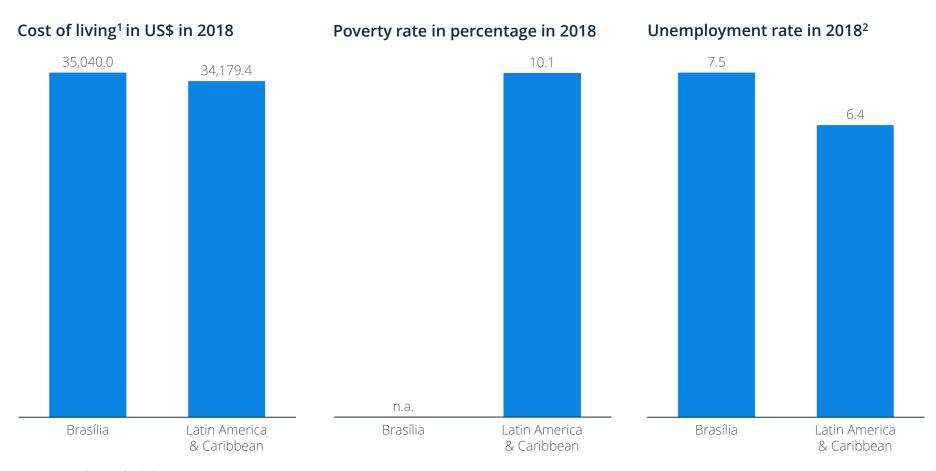
International hotel chains	Hotel presence	International hotel chains	Hotel presence
Hilton	×	WYNDHAM HOTELS & RESORTS	×
MARRIOTT	×	SHERATON EST. 1937	×
Holiday Inn	×	RAMADA.	×
COURTYARD	×	(Hampton) (Jan) (Julian)	×
SHANGRI-LA HOTELS and RESORTS	×	WESTIN® HOTELS & RESORTS	×

# In Brasília, international restaurant chains have a strong presence

#### Presence of international restaurant chains

International restaurant chains	Restaurant presence	International restaurant chains	Restaurant presence
	×	Tim Hortons.	×
	$\checkmark$	Pizza Huit	<b>√</b>
KFC	×	DUNKIN!	<b>√</b>
SUBWAY	$\checkmark$	BURGER	$\checkmark$
Domino's	✓		×

### Cost of living was higher than in this region in general



<sup>1:</sup> See glossary for definitions 2: In percentage

Note: Cost of living based on a fairly affluent family of three with two adults and one child studying at a university. Regional average based on cities in this region covered by Global Business Cities 2025 reports

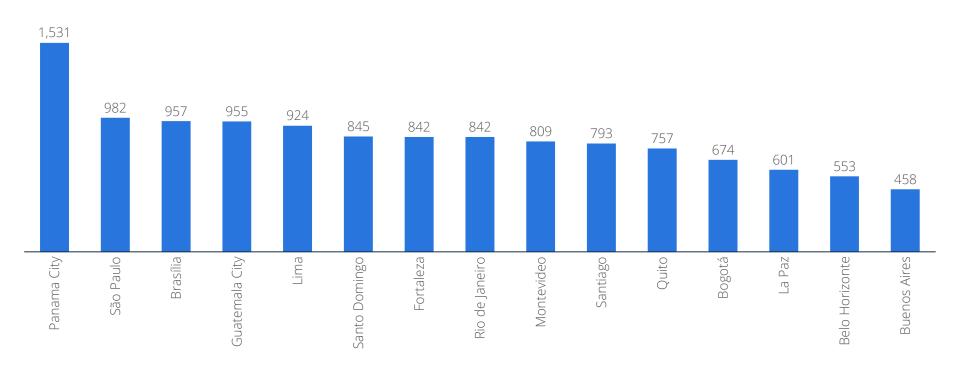
Sources: STC 2018, Statista 2019

# At US\$957, the average rent in this city was US\$574 lower than the highest for this region

Rents for a 3-room apartment for selected cities this region in US\$ in 2019

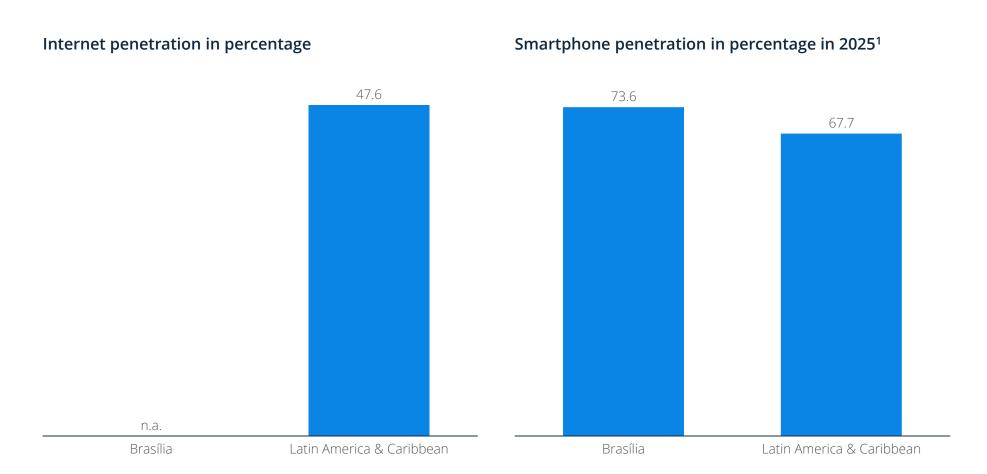


**US\$957** 





## The internet penetration in this region is on average 47.6%



### This city does not have a stock exchange

### **Stock exchange locations**



## Uber, Cabify, and 99 are ride-hailing apps used in Brasília

### Ride-hailing apps in this city













### Public transportation options available



Вu















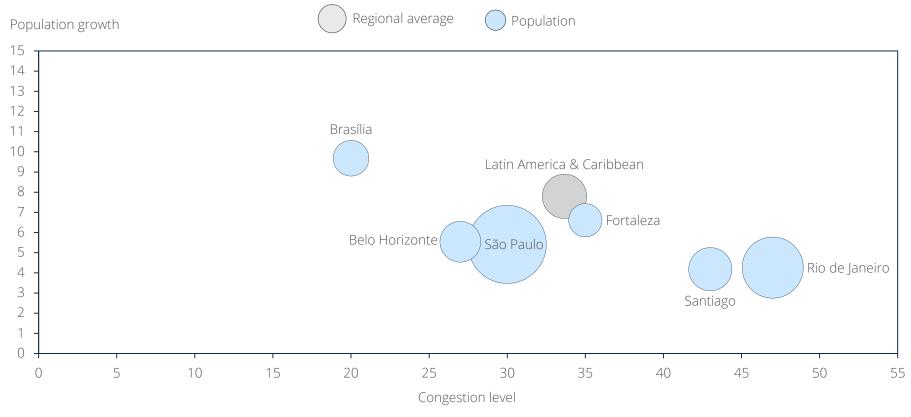




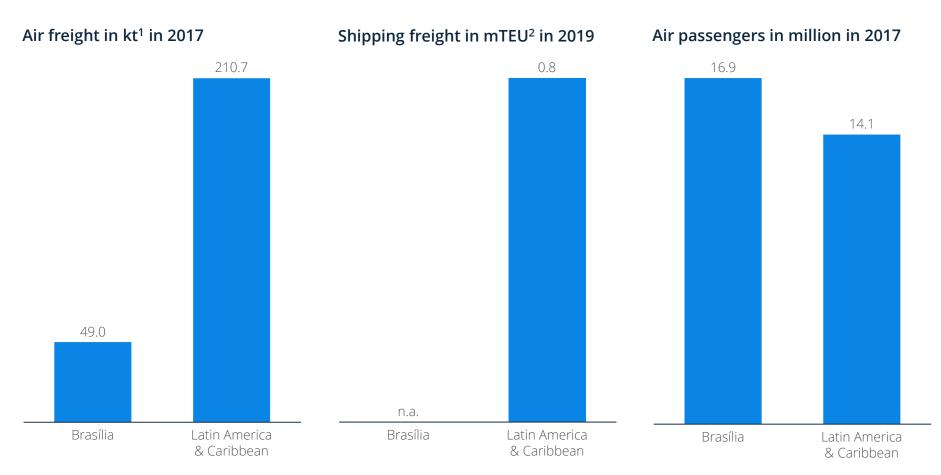
Bike-sharing

# The lower than average rate of congestion is paired with higher population growth

### Congestion level<sup>1</sup>, population in millions in 2019 and population growth 2019-2025 in this region



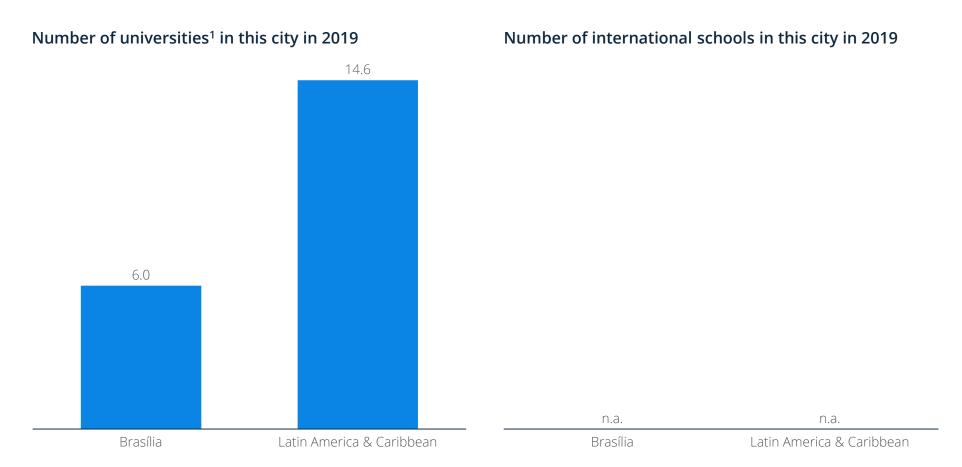
## The regional average for shipping freight volume was 0.8 mTEU



<sup>1:</sup> Thousand metric tons 2: million TEU

Note: Regional average based on latest available data and on cities In this region covered by Global Business Cities 2025 reports

## The density of universities in this city was lower than regional average

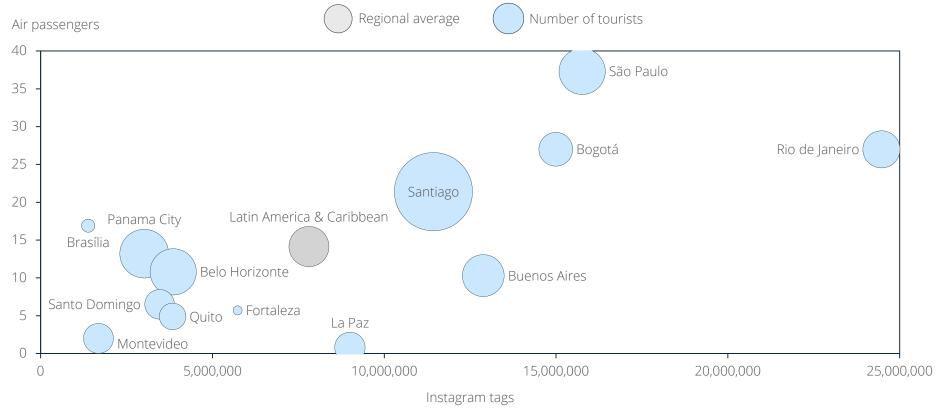


<sup>1:</sup> The regional averages of the universities are only representative within the region and not for a worldwide comparison because of different educational standards and classification of qualifications

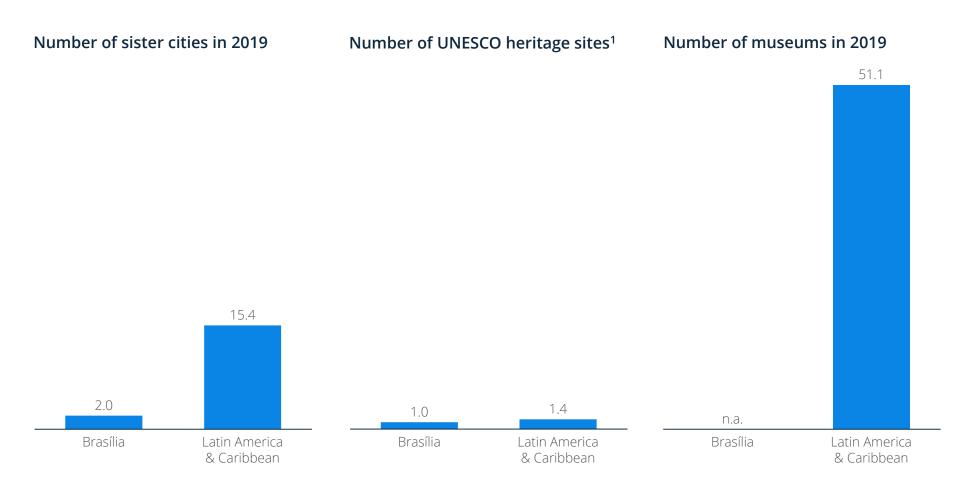
**CHARISMA** 

## Brasília was less popular on Instagram than cities in this region

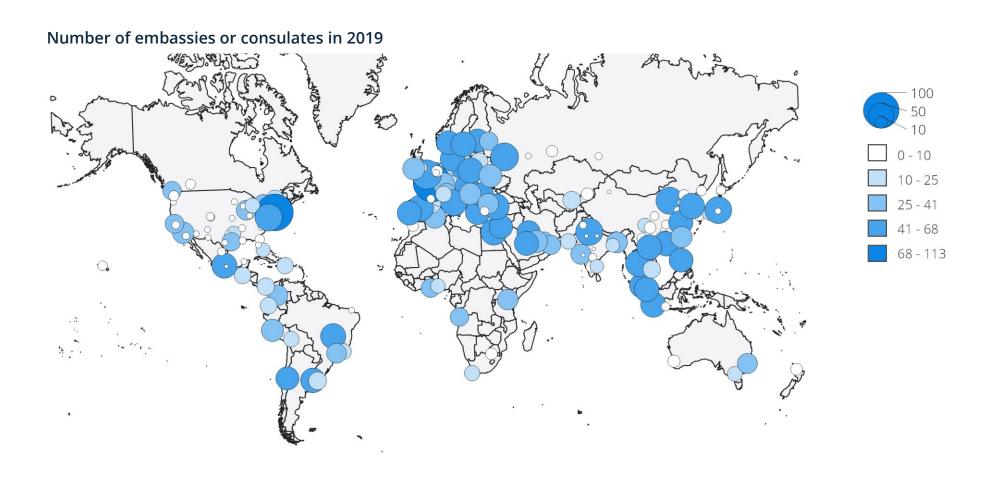
### Number of Instagram tags, air passengers<sup>1</sup> and number of tourists<sup>2</sup> in this region in million in 2018



## The average number of museums in this region is 51.1



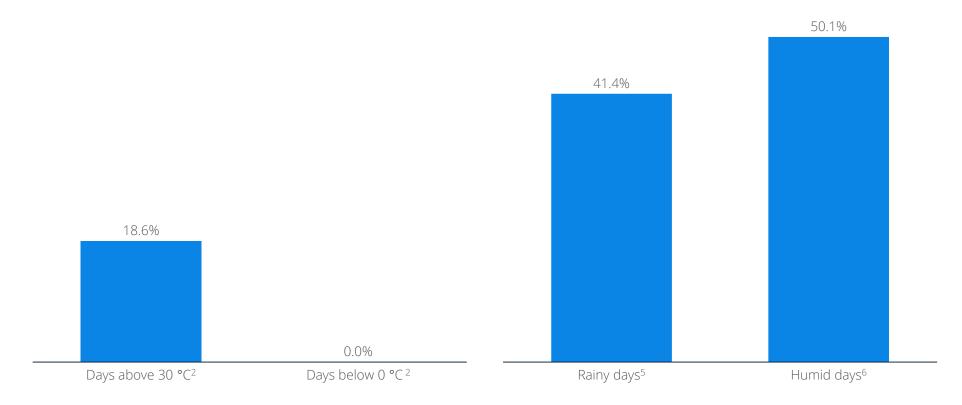
## There are 50 embassies or consulates in this city



## In a year, there were 0 days under 0°C and 68 days above 30°C in this city

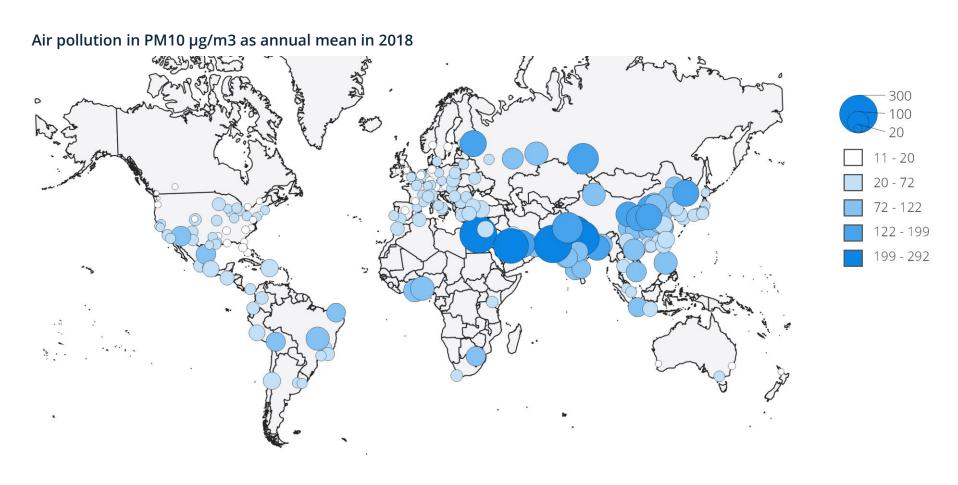
Shares of days with extreme temperatures yearly<sup>1</sup>

Shares of days with rain<sup>3</sup> and humid conditions yearly<sup>1,4</sup>



<sup>1:</sup> In 2018 2: Celsius 3: Minimum of 1mm of rain in a day 4: Based on dew point above 15 degrees 5: Average number of precipitation days 6: Based on number of humid months multiplied by 30.42 for average days in a month Sources: <a href="STC">STC</a> 2019, <a href="weatherbase">weatherbase</a> 2019, Statista 2019

# At 118 µg/m3, the air pollution concentration was 490% higher than the WHO guideline





### Global Business Cities 2025

Belo Horizonte

J		O .			
Algiers	Bulgaria	Lanzhou	Quito	Athens	Dublin
Angola	Sofia	Nanjing	Egypt	Guatemala	Israel
Luanda	Cambodia	Qingdao	Cairo	Guatemala City	Tel Aviv
Argentina	Phnom Penh	Shanghai	Finland	Hong Kong (SAR) <sup>1</sup>	Italy
Buenos Aires	Canada	Shenyang	Helsinki	Hong Kong	Milan
Australia	Toronto	Shenzhen	France	Hungary	Naples
Perth	Montréal	Shijiazhuang	Lyon	Budapest	Rome
Sydney	Vancouver	Suzhou	Marseille	India	Turin
Melbourne	Calgary	Tianjin	Paris	Ahmedabad	Japan
Austria	Chile	Urumqi	Strasbourg	Bangalore	Fukuoka
Vienna	Santiago	Wuhan	Toulouse	Chennai	Nagoya
Bangladesh	China (Mainland)	Xiamen	Germany	Delhi	Osaka
Dhaka	Beijing	Xi'an	Berlin	Hyderabad	Sapporo
Belgium	Changsha	Zhengzhou	Cologne	Jaipur	Sendai
Brussels	Chengdu	Colombia	Düsseldorf	Kolkata	Tokyo
Bolivia	Chongqing	Bogotá	Frankfurt	Lucknow	Yokohama
La Paz	Dalian	Czechia	Hamburg	Mumbai	Kazakhstan
Brazil	Fuzhou	Prague	Munich	Nagpur	Almaty
São Paulo	Guangzhou	Denmark	Stuttgart	Pune	Kenya
Rio de Janeiro	Hangzhou	Copenhagen	Ghana	Indonesia	Nairobi
Brasília	Harbin	Dominican Republic	Accra	Jakarta	
Fortaleza	Jinan	Santo Domingo		Surabaya	

Ecuador

Greece

Ireland

Kunming

Algeria

### Global Business Cities 2025

South Korea Busan Incheon Seoul Kuwait Kuwait City Lithuania Vilnius Malaysia Kuala Lumpur Mexico Guadalajara Mérida Mexico City Monterrey Puebla Morocco Casablanca Netherlands Amsterdam Rotterdam New Zealand

Nigeria Lagos Norway Oslo Oman Muscat Pakistan Karachi Lahore **Panama** Panama City Peru Lima Philippines Manila **Poland** Krakow Warsaw **Portugal** Lisbon Qatar Doha Romania Bucharest

Russia Kazan Moscow Novosibirsk Saint Petersburg Vladivostok Yekaterinburg Saudi Arabia Riyadh Serbia Belgrade Singapore Singapore South Africa Cape Town Johannesburg Spain Barcelona Madrid Sevilla Sweden Stockholm Switzerland Genève

7ürich Baltimore Taiwan Boston Columbus Kaohsiung Charlotte Taipei **Thailand** Chicago Cleveland Bangkok Turkey Dallas Ankara Denver Istanbul Detroit FI Paso Izmir Ukraine Honolulu Kiev Houston **United Arab Emirates** Indianapolis Duhai Jacksonville **United Kingdom** Kansas City Birmingham Los Angeles Bristol Louisville Glasgow Memphis London Miami Manchester Minneapolis United States of America Nashville New Orleans Austin Albuquerque New York Atlanta Philadelphia

Phoenix Pittsburgh Portland Sacramento San Antonio San Diego San Francisco San Jose Seattle St. Louis Tampa Washington D.C. Uruguay Montevideo Uzbekistan Tashkent

Vietnam

Auckland

## Regional division for countries and territories covered in this report

**Africa:** Algeria, Angola, Egypt, Ghana, Kenya, Morocco, Nigeria, and South Africa

Australia & Oceania: Australia and New Zealand

**Central & Western Europe:** Austria, Belgium, Czechia, France, Germany, Hungary, Ireland, Netherlands, Poland, Switzerland, and United Kingdom

**East Asia:** China, Hong Kong, Japan, South Korea, and Taiwan

Eastern Europe: Bulgaria, Romania, Russia, and Ukraine

**Latin America:** Argentina, Bolivia, Brazil, Chile, Colombia, Dominican Republic, Ecuador, Guatemala, Panama, Peru, and Uruguay

North America: Canada, Mexico, and United States

Northern Europe: Denmark, Finland, Lithuania, Norway, and

Sweden

**South Asia:** Bangladesh, India, and Pakistan

**Southeast Asia:** Cambodia, Indonesia, Malaysia, Philippines,

Singapore, Thailand, and Vietnam

**Southern Europe:** Greece, Italy, Portugal, Serbia, Spain, and Turkey

West & Central Asia: Israel, Kazakhstan, Kuwait, Oman, Qatar, Saudi

Arabia, United Arab Emirates, and Uzbekistan

## Methodology and data used in this report

#### Data sources

The Global Business City 2025 Reports present quantitative data from various private and public sources of information. These sources include data providers such as the International Monetary Fund, the World Bank, the United Nations, the OECD, the World Economic Forum and Statista itself. The data sources are indicated in footnotes throughout the report.

#### Forecasts and estimates

The population estimates for cities are based on forecasts by the United Nations. The original data provided with 5-year intervals was transformed with cubic spline interpolation to produce yearly values. The city GDP per capita forecasts for 2025 are based on the growth rates of the country level GDP growth forecasts by International Monetary Fund up to 2024 with those rates kept as constant for 2025. The total city GDP values for 2025 were achieved by multiplying the per capita values by the population estimates for 2025.

For English language skills in mostly anglophone countries, i.e. Canada, United States, Ireland, United Kingdom, Australia, and New Zealand, missing data was imputed for the subindex by assigning the highest value assigned in the data. In other cases, national level data or mean values were used to impute missing values.

#### Real GDP calculation

A country's real GDP is an inflation-adjusted GDP assessment reflecting its net growth. It can be used to compare economy sizes across countries. The data in this report are presented in U.S. dollars and maintain the growth rates of the real GDP series. The data are expressed in the base year of each country's national accounts, the year is country specific. For more information please refer to <a href="World Economic Outlook Database FAQ">World Economic Outlook Database FAQ</a>.

#### Difference between current and constant US\$

Data reported in current US\$ reflect the value the currency has in a particular year. Current data series are influenced by the effect of price inflation and differences in exchange rates and the comparability of growth rates between countries is limited.

Data expressed in constant US\$ reflect the value of a currency in a particular base year. The individual base year listed in a country's national accounts differs from country to country. Constant series are used to measure the true growth of a series by adjusting for the effects of price inflation.

## Methods for index construction (1/3)

#### Index construction

- The indicators for the Global Business Cities 2025 index were chosen based on their relevance to the conceptual framework represented by the chapter and section divisions in this report as well as their availability on the level of analysis. The final choice of indicators included in the index was based on correlation, which was a requirement for assigning the indicator weights, and exploratory factor analysis
- The retained data frame had a value of 0.77 in Kaiser-Meyer-Olkin (KMO) measure of sampling adequacy, which was well above the 0.60 required to proceed with factor analysis. The KMO is a set of statistics that is used to compare magnitudes of the observed correlation coefficients to the magnitudes of the partial correlation coefficients. In addition, the Bartlett's test of sphericity was implemented to test the null hypothesis of uncorrelated sub-indicators in the correlation matrix
- The weights for the included indicators were assigned based on factor analysis conducted with z-score normalized values for variables with moderate to high loadings (correlations larger than 0.5) in factors retained in the confirmatory factor analysis after orthogonal varimax rotation. The retained factors had associated eigenvalues larger than one based on the Kaiser criterion, explained individually at least 8.7% of the total variation, and cumulatively explained 57.3% of the total variation in the dataset
- The indicator values were aggregated to the final index with a linear aggregation in summation of weighted and min-max scaled individual indicators. Values for the indicators Freedom of Speech index and air pollution density were inverted prior to aggregation due to inverse scale in the original data. The final values featured in this report were also normalized with min-max scaling to facilitate easier interpretation of the values

## Methods for index construction (2/3)

#### Formulas and technical descriptions

• Z Score formula where  $\mu$  is the mean of the population and  $\sigma$  is the standard deviation of the population

$$z = \frac{x - \mu}{\sigma}$$

• Min-max normalization where x is an original value and x' is the normalized value

$$x' = \frac{x - \min(x)}{\max(x) - \min(x)}$$

Factor analysis is conducted on a set of intercorrelated variables. The analysis forms groups of highly intercorrelated variables that can be seen to measure underlying variables called "factors" that can't be directly measured. Factor analysis model aims to describe a set of Q variables x<sub>1</sub>, x<sub>2</sub>....., x<sub>Q</sub> with a smaller number of m factors and to explain the relationship between these variables. In this model x<sub>i</sub> (i = 1,....,Q) represents the original values standardized with zero mean and unit variance, α<sub>i1</sub>, α<sub>i2</sub>...., α<sub>im</sub> are factor loadings connected to the variable, X<sub>i</sub>, F<sub>1</sub>, F<sub>2</sub>....,F<sub>m</sub> (j = 1,....,m) are m uncorrelated common factors with zero unit variance and mean, and e<sub>i</sub> are the Q specific factors supposed independently and identically distributed with zero mean

$$x_1 = \alpha_{11}F_1 + \alpha_{12}F_2 + \dots + \alpha_{1m}F_m + e_1$$

$$x_2 = \alpha_{21}F_1 + \alpha_{22}F_2 + \dots + \alpha_{2m}F_m + e_2$$
...
$$x_Q = \alpha_{Q1}F_1 + \alpha_{Q2}F_2 + \dots + \alpha_{Qm}F_m + e_Q$$

• The weights were assigned based on the results of the factor analysis with a statistic-based method where  $r_{F_j}$  is the proportion of the explained variance of the factor  $F_j$  (or the intermediate composite  $F_j$ ) in the dataset,  $\alpha_{ij}$  the factor loading of the  $x_i$  indicator on factor  $F_j$  and  $E_{F_j}$  the variance explained by factor  $F_j$ 

$$\omega_i = r_{F_j} \left( \alpha_{ij}^2 / E_{F_j} \right)$$
  

$$i = 1, ..., Q; j \in \{1, ..., m\}$$

## Methods for index construction (3/3)

#### Formulas and technical descriptions

• The indicator aggregation was conducted with an additive aggregation where GBC is the Global Business Cities 2025 index,  $\omega_i$  the weight of the  $i^{th}$  indicator, and  $l_i$  the normalized score of the  $i^{th}$  indicator

$$GBC = \omega_1 I_1 + \omega_2 I_2 + ... + ... + \omega_Q I_Q = \sum_{i=1}^{Q} \omega_i I_i$$

### Variables in Global Business Cities 2025 index

#### Variable list

- Shipping freight in million TEU
- Stock market prescience
- Internet penetration rate
- Physicians per 1,000
- Number of air passengers in million
- Air pollution density (PM 10)
- Number of embassies and consulates
- Number of museums
- Number of Instagram tags
- Mean years of schooling
- LGBTQ+ rights
- Gender gap index
- Freedom of speech index
- Level of proficiency in English
- Control on corruption

- Per capita city GDP in 2025
- Total city GDP 2025

## Glossary of terms

**City GDP:** The sum of the gross value added (wages plus business surplus plus taxes less imports)or the total final demand (consumption plus investment plus exports)

City Product: See City GDP

**Constant US\$:** Data expressed in constant US\$ show the data for each year in the value of a particular base year. The base year of each country's national accounts is country specific. Constant series are used to measure the true growth of a series by adjusting for the effects of price inflation

**Cost of living:** The cost of living incorporates most everyday expenses: groceries and restaurants, clothing, transportation and fuel, utilities, etc. These are the expenses of a fairly affluent family, but do not enter into the realm of luxury item expenses. Rent is calculated separately. The estimate is based upon three active spenders in the family (the couple and the oldest child attending university)

**Current US\$:** Data reported in current US\$ reflect the value the currency has in a particular year. Current data series are influenced by the effect of price inflation and differences in exchange rates, and the comparability of growth rates between countries is limited.

**Density of universities:** The amount of existing public and other relevant universities in a city and its surrounding area. Other relevant universities can be religious (ecclesiastical, islamic) or private institutions that are publicly funded. For the regions Australia & Oceania, Northern and Central & Western Europe only public universities are included. The regional averages are only representative within the region and not for a worldwide comparison because of different educational standards and classification of qualifications

**Efficiency of customs clearance:** Includes e.g. speed, simplicity, and predictability of customs clearance (5 = high efficiency, 1 = low efficiency)

**Internet penetration:** Share of individuals in the country who have used the Internet (from any location) in the last 3 months

**Mean years of schooling:** Average number of completed years of education of population aged 25 years and older, excluding years spent repeating individual grades

**PM10:** Particulate matter (PM) with particles smaller than 10 μg

## Glossary of terms

**Poverty rate:** Ratio of the number of people with income below the poverty line

**Purchasing Power Parity (PPP):** Ratio of the number of people with income below the poverty line

**Real GDP:** Real gross domestic product (GDP) is an inflation-adjusted measure that reflects the value of all goods and services produced by an economy in a given year, expressed in base-year prices, and is often referred to as "constant-price", "inflation-corrected" GDP or "constant dollar GDP". Unlike nominal GDP, real GDP can account for changes in price level and provide a more accurate figure of economic growth

**Time needed to export:** Time necessary to comply with all the procedures required to export/import goods in calendar days

**Time needed to resolve insolvency:** Number of years from the filing for insolvency in court until the resolution of distressed assets

**Time needed to start a business:** Number of calendar days needed to complete the procedures to legally operate a business

**Unemployment rate:** Unemployment refers to the share of the labor force that is without work but available for and seeking employment

### **About the Statista Digital Market Outlook**



90+ 150+ 7 30,000+

markets regions years (2017-2023) interactive statistics

The **Digital Market Outlook** presents up-to-date figures on markets of the digital economy. The comparable key figures are based on extensive analyses of relevant indicators from the areas of society, economy, and technology.

What is the size of the eCommerce fashion market in Spain? How many connected cars are already on the road in China?

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Market insights, forecasts and key performance indicators



Outlook **reports** with **segment-specific topics** (top companies, trends, deep dives)





















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