EXPO 2020 DUBAI UAE | SIEMENS
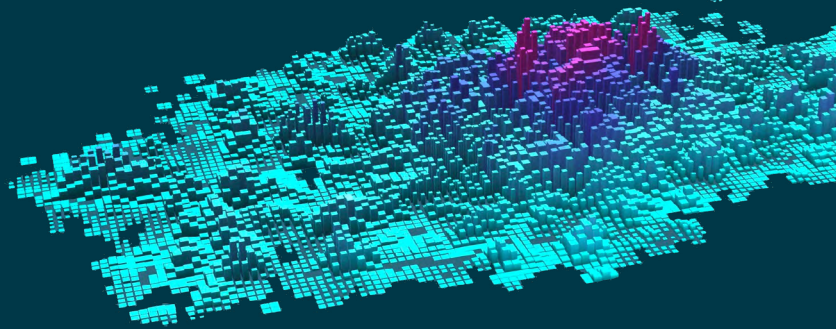Ingenuity for life

OFFICIAL PREMIER PARTNER

# London

London is mobilizing the innovative spirit of its 8.8 million residents to become the 'Smartest City in the World'.

The Atlas of Digitalization demonstrates how smart cities across the world are realizing their potential through digital technological innovation.

Like all cities, London faces unique challenges that require distinct solutions, and our Digitalization Readiness and Potential scores compare how prepared each is for a connected future, and what opportunities they have to transform beyond where they are today.

## 8/10

**Digitalization Readiness**

An exceptionally high smartphone adoption rate could be complemented by a boost in mobile internet speeds to increase London's readiness score.

## 3/10

**Digitalization Potential**

Londoners have already fully embraced a broad range of public transport options, however intelligent traffic management could develop the city's potential.

Each score pools data from a range of sources, rating developments around **Sustainability**, **Mobility** and **Opportunity**, the key themes from Expo 2020 Dubai.

**Sustainability**
How and what energy is used in buildings, travel and public spaces.

**Mobility**
Where, when and how people travel and connect and the impact it has.

**Opportunity**
How much people enjoy city living and how businesses thrive.
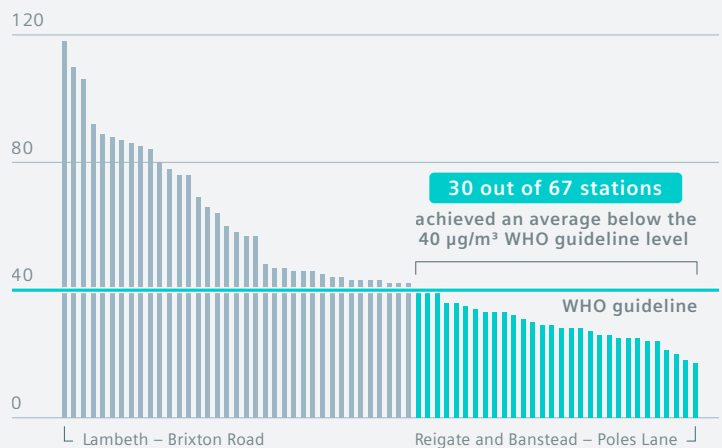
# Sustainability

**The ultra-low emission zone will reduce traffic and emissions.**

Siemens will provide the infrastructure to monitor traffic flows across the zone. A King's College London study calculated poor air quality shortens residents' lives by an average of 9 to 16 months.

Annual mean nitrogen dioxide level recorded at monitoring sites in 2016, µg/m³*

**30 out of 67 stations**
achieved an average below the 40 µg/m³ WHO guideline level

WHO guideline

120

80

40

0

Lambeth – Brixton Road

Reigate and Banstead – Poles Lane

*Stations with a data capture of below 90% are not shown.
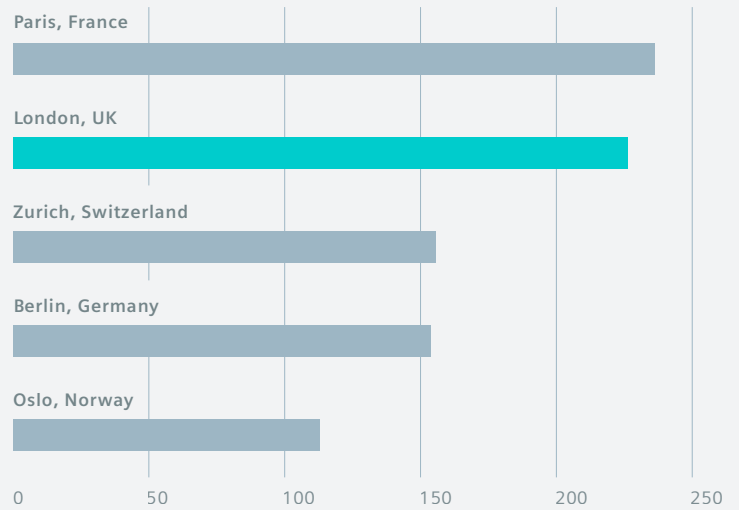
Source: King's College London, WHO

## Mobility

**Charge a fee for high emissions vehicles in the city center to reduce congestion.**

1,300 Siemens cameras identify vehicles which do not meet the emissions standards. The congestion charge reduced traffic jams by 30%. Soon, Siemens will use an adaptive algorithm to manage junctions.

**Hours spent in congestion in 2017, top five EU cities**

- Paris, France
- London, UK
- Zurich, Switzerland
- Berlin, Germany
- Oslo, Norway
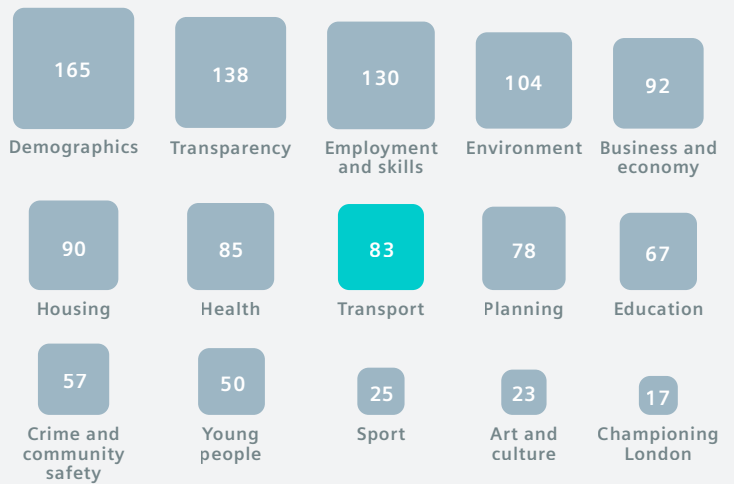
0   50   100   150   200   250

Source: INRIX

## Opportunity

**Open data is used by developers to create transport apps.**

London opened 700 datasets across health, the environment, crime, the economy and transport. The journey planner app, CityMapper, used Transport for London data to build a product now available in 38 other cities.

**Number of London Datastore datasets by topic, 2018**

| 165 Demographics | 138 Transparency | 130 Employment and skills | 104 Environment | 92 Business and economy |
| 90 Housing | 85 Health | 83 Transport | 78 Planning | 67 Education |
| 57 Crime and community safety | 50 Young people | 25 Sport | 23 Art and culture | 17 Championing London |

Source: The Greater London Authority

**For more information on London, explore the Atlas of Digitalization**

DUBAI   LOS ANGELES   BUENOS AIRES   › LONDON   JOHANNESBURG   TAIPEI

siemens.com/atlas