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.

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.

**Digitalization Readiness**

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

**Digitalization Potential**

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

**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**

- **WHO guideline**
- **40 µg/m³**

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

*Stations with a data capture of below 90% are not shown.

Source: King’s College London, WHO

Continued overleaf
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.

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.