London
Adapt to thrive

City data report 2021

OVERVIEW

London is mobilizing the innovative spirit of its 10.8 million residents to become the 'smartest city in the world'.
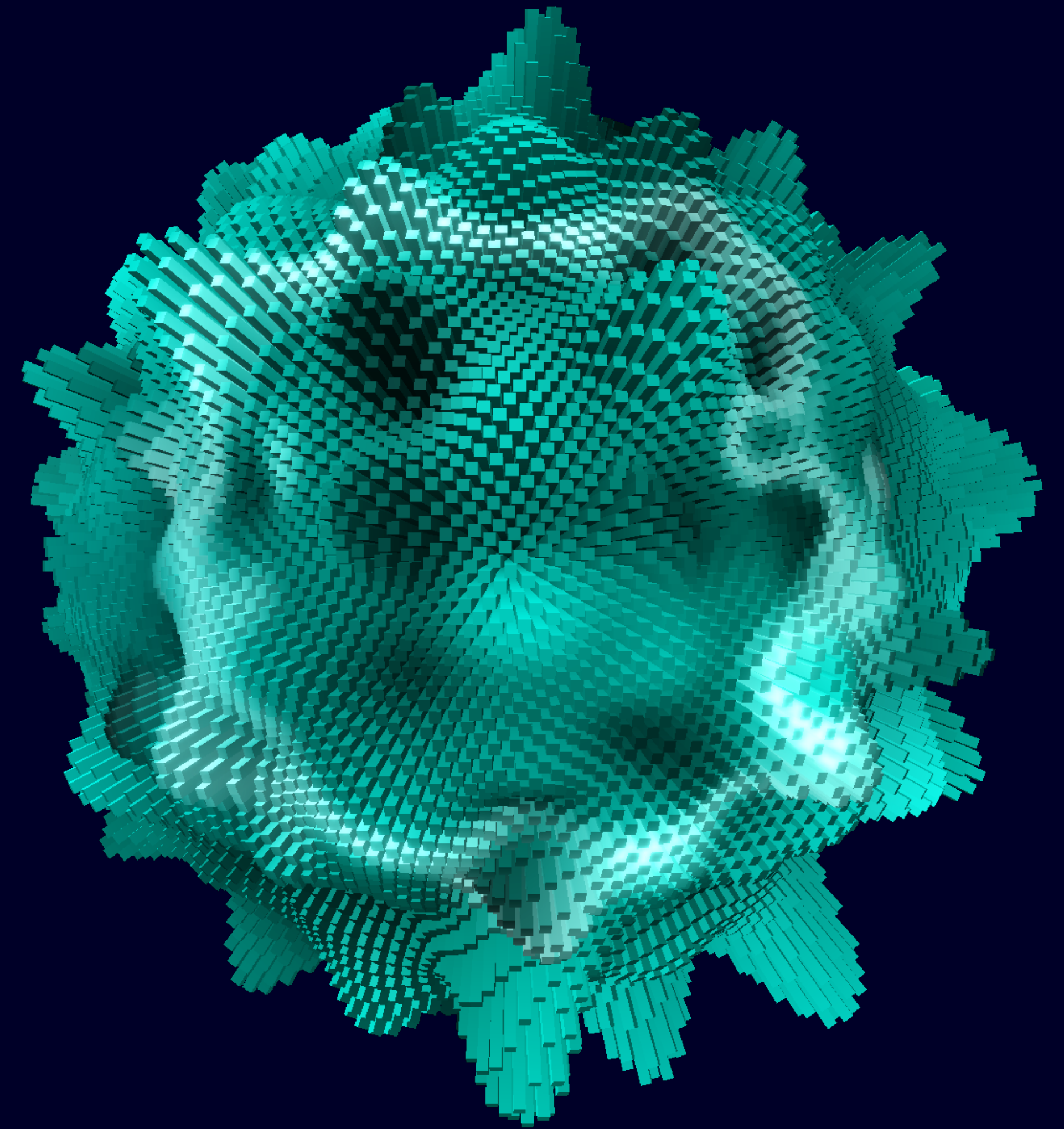
DIGITALIZATION READINESS

8/10

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

DIGITALIZATION POTENTIAL

3/10

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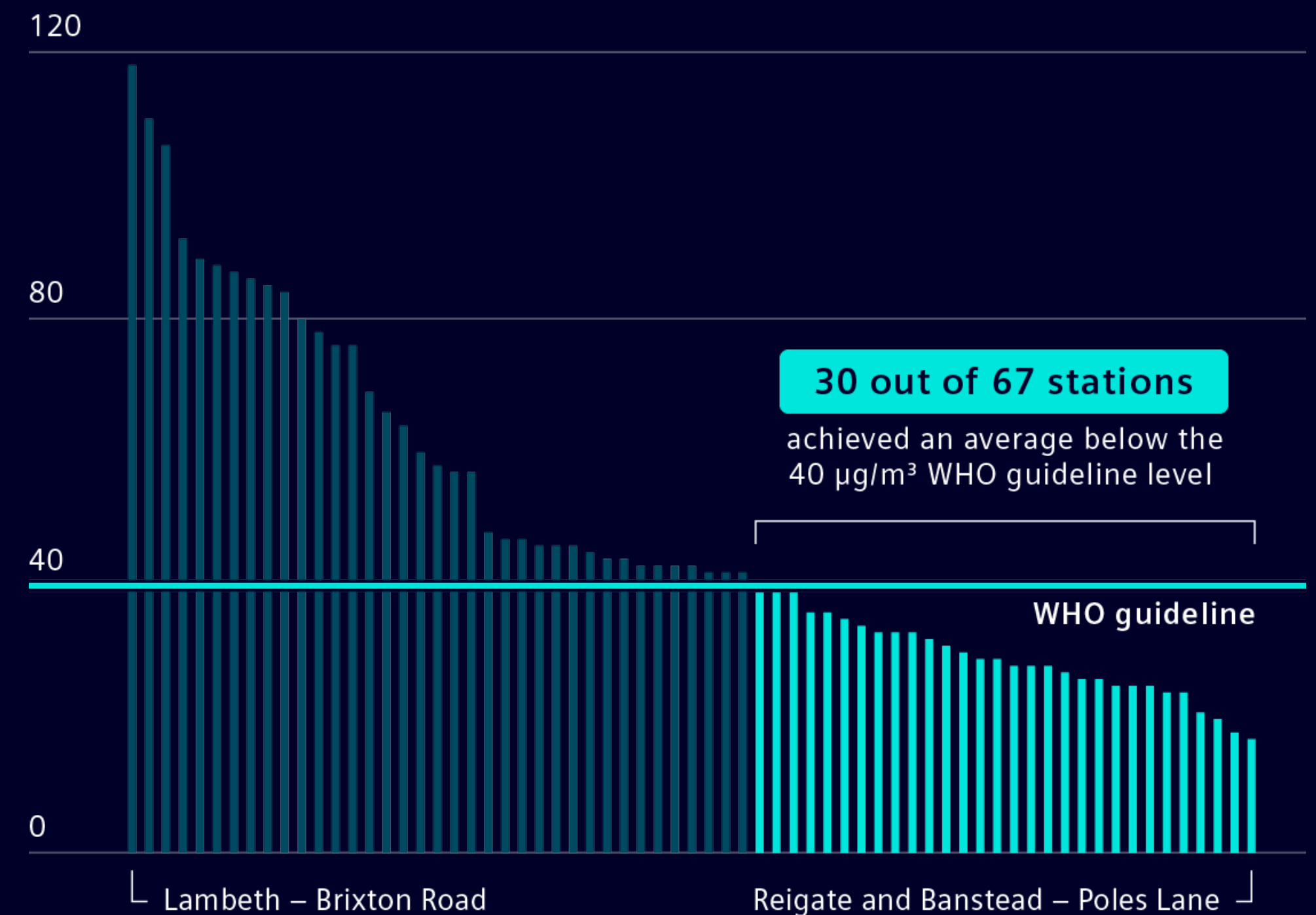
SUSTAINABILITY

The Ultra Low Emission Zone will reduce traffic and emissions

The London Air Quality Network currently measures and reports on air pollution levels from over 100 monitoring stations across the city. Taking the data from the monitoring system, London provides a forecast for the following day to give these individuals prior warning. **Siemens** will provide the infrastructure to monitor traffic flows across the zone, which may expand in 2021 to cover a geographic area 18 times larger than at launch.

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

Lambeth – Brixton Road

Reigate and Banstead – Poles Lane
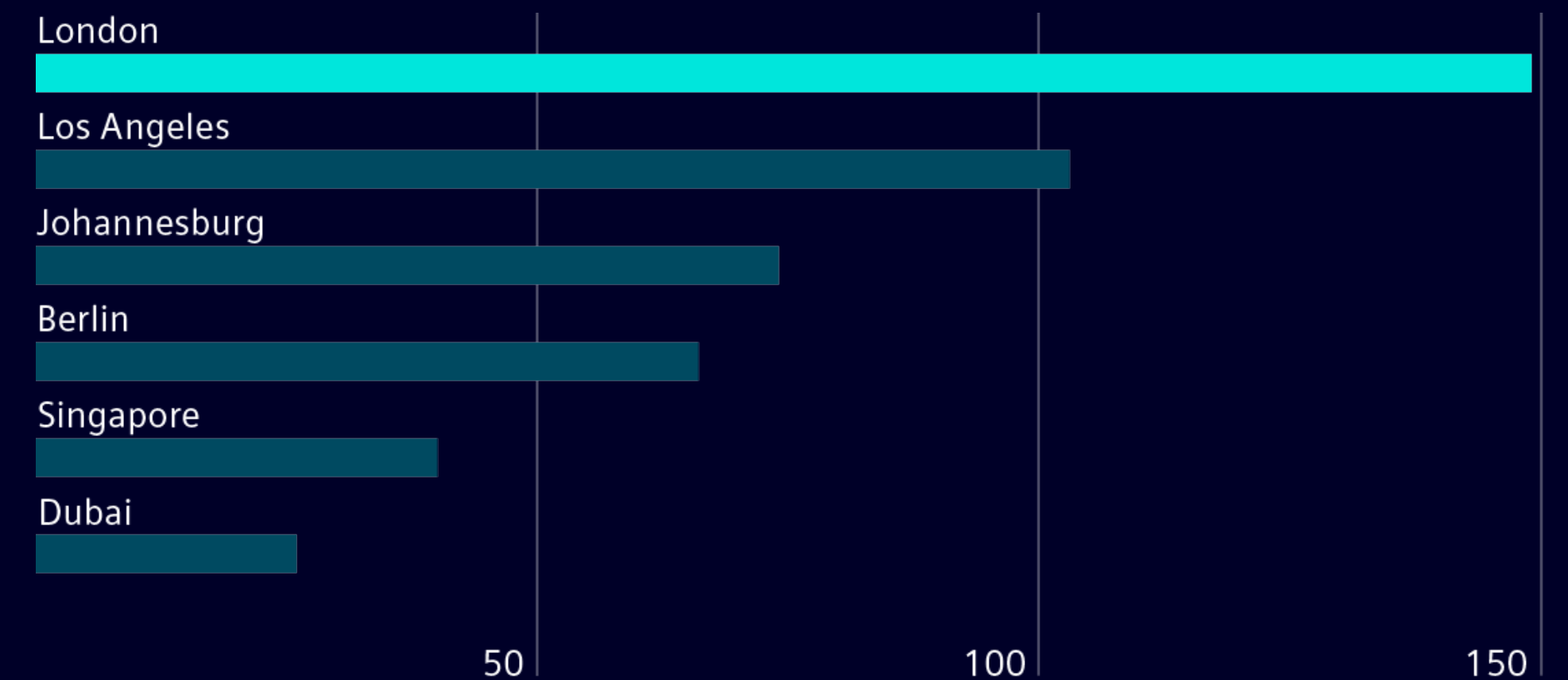
*Stations with a data capture of below 90% are not shown.

Source: **londonair.org.uk**

MOBILITY

Reducing congestion by charging a fee for high-emission vehicles

To tackle congestion, from 2020 London's road users will also benefit from a new intelligent traffic management system developed by **Siemens**. Using a range of new data sources, the technology will employ an adaptive algorithm to manage up to 6,000 junctions across the city. Real-time optimization will monitor traffic levels and automatically adjust traffic light timings to enable more users to flow across the capital's road network with fewer delays.

Hours spent in congestion per driver, in 2019

London

Los Angeles

Johannesburg

Berlin

Singapore

Dubai

50   100   150

Source: INRIX

Number of London Datastore datasets by topic, 2019

OPPORTUNITY

Open data is used by developers to create transport apps

Our growing digital footprints are expanding into fields of data that cities can mine for planning and operations. London is in readiness to develop new applications from this growing resource. The launch of the **London Datastore** in 2010 made some of this information accessible to the public. What began as around 50 datasets has since grown to over 700, providing information across sectors including health, the environment, crime, and the economy.

165	146	138	138	108
Demographics	Transparency	Employment and skills	Environment	Business and economy

106	104	95	89	69
Housing	Planning	Health	Transport	Education

65	56	27	26	24
Crime and community safety	Young people	Art and culture	Sport	Income, Poverty and Welfare

Source: The Greater London Authority

THE ATLAS OF DIGITALIZATION

For more information about London, please contact:

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