Singapore
Strong foundations

City data report 2021

SIEMENS   EXPO 2020 DUBAI UAE

OVERVIEW

With its excellent trading links and prosperous economy, Singapore is driving a cohesive approach to digitalization.
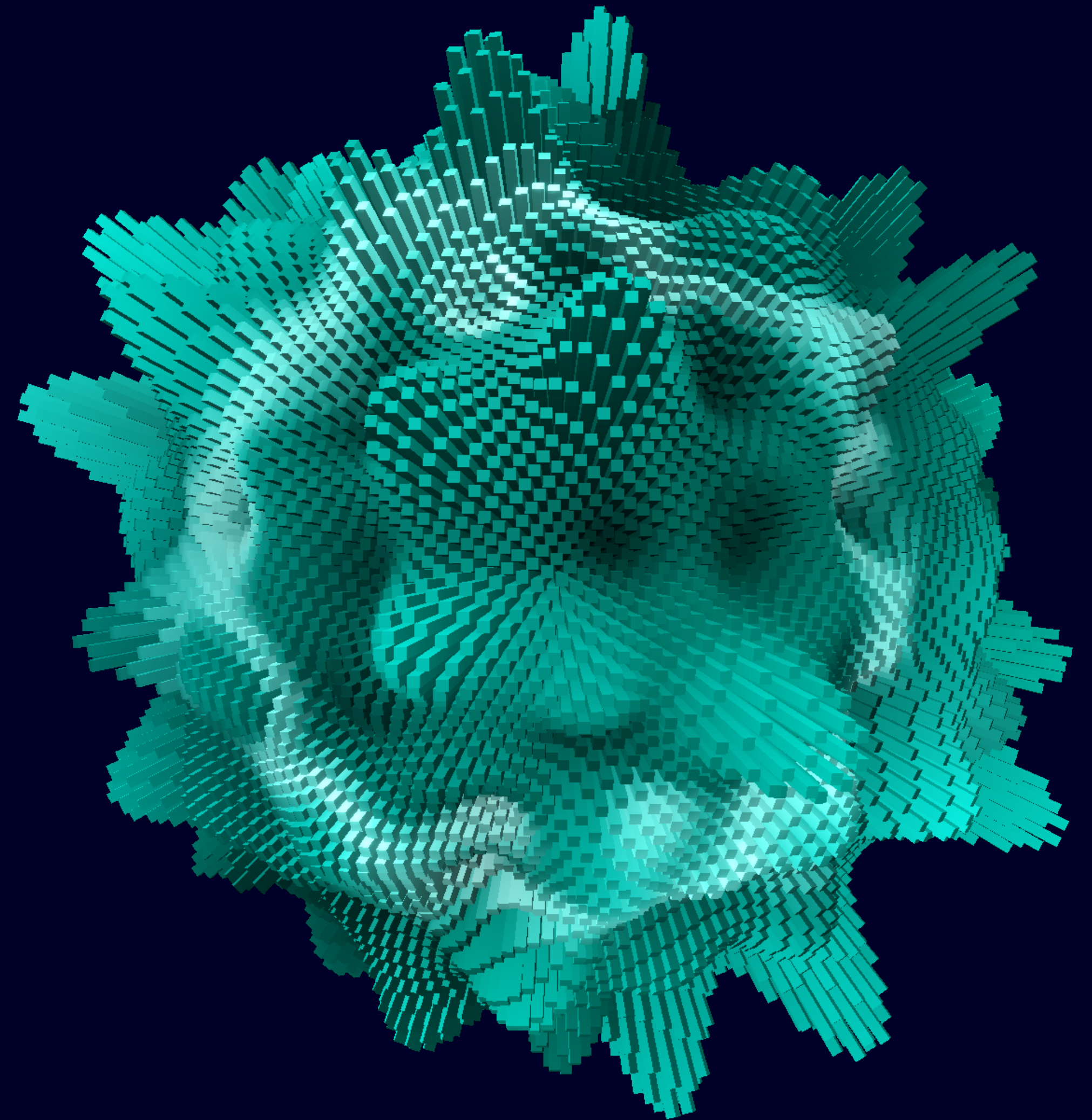
DIGITALIZATION READINESS

8/10

Singapore is already using digitalization to benefit its economy and citizens, with a considered approach to its unique position as a city-state.

DIGITALIZATION POTENTIAL

2/10

The next ten years will be critical for Singapore, as the fruit of its many digitalization initiatives and investments combine to support overall objectives.
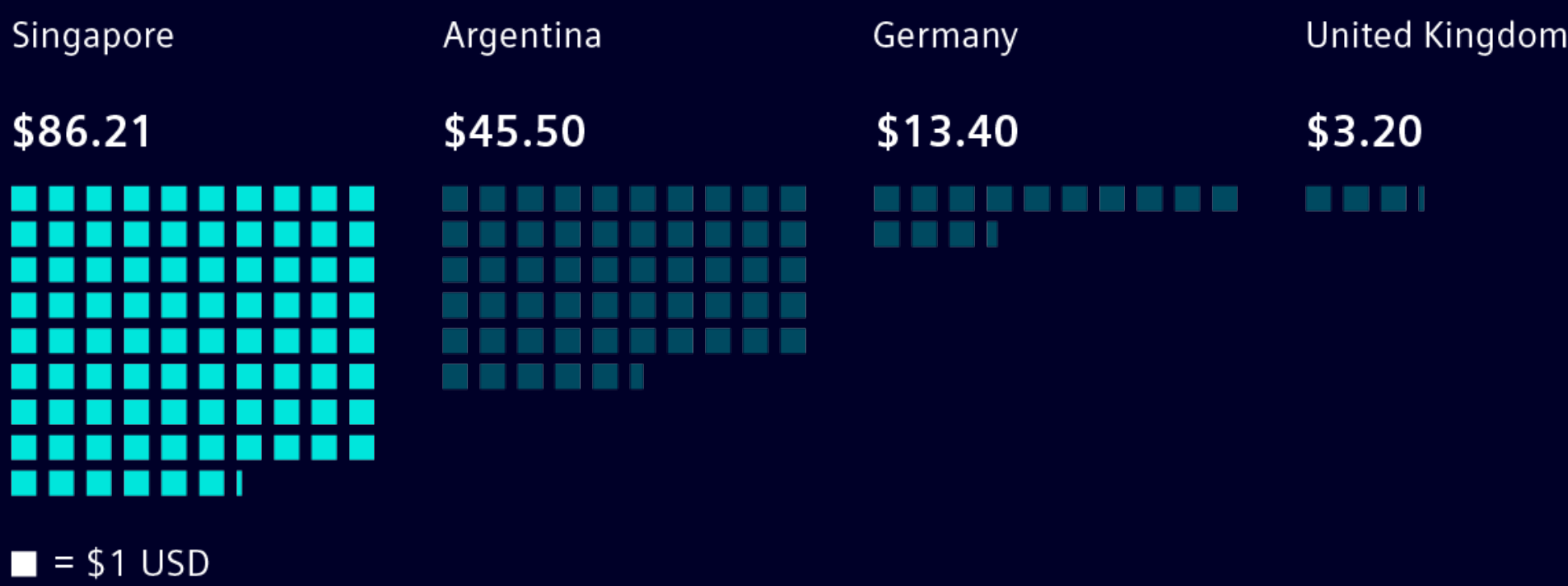
Investment in AgriTech, 2019, US$ per capita

SUSTAINABILITY

Singapore has set its sights on a low-carbon future

With a SGD$1 billion budget for urban solutions and sustainability research, Singapore is applying innovation to many other sectors, including its desire to reduce reliance on food imports. For example, a new **floating fish farm** expects to yield 350 tonnes of fish per year from a moored barge. This 'smart farm' uses cameras and AI to analyze how well the fish are feeding so their health and growth can be optimized. The farm is also powered sustainably using solar panels and batteries.

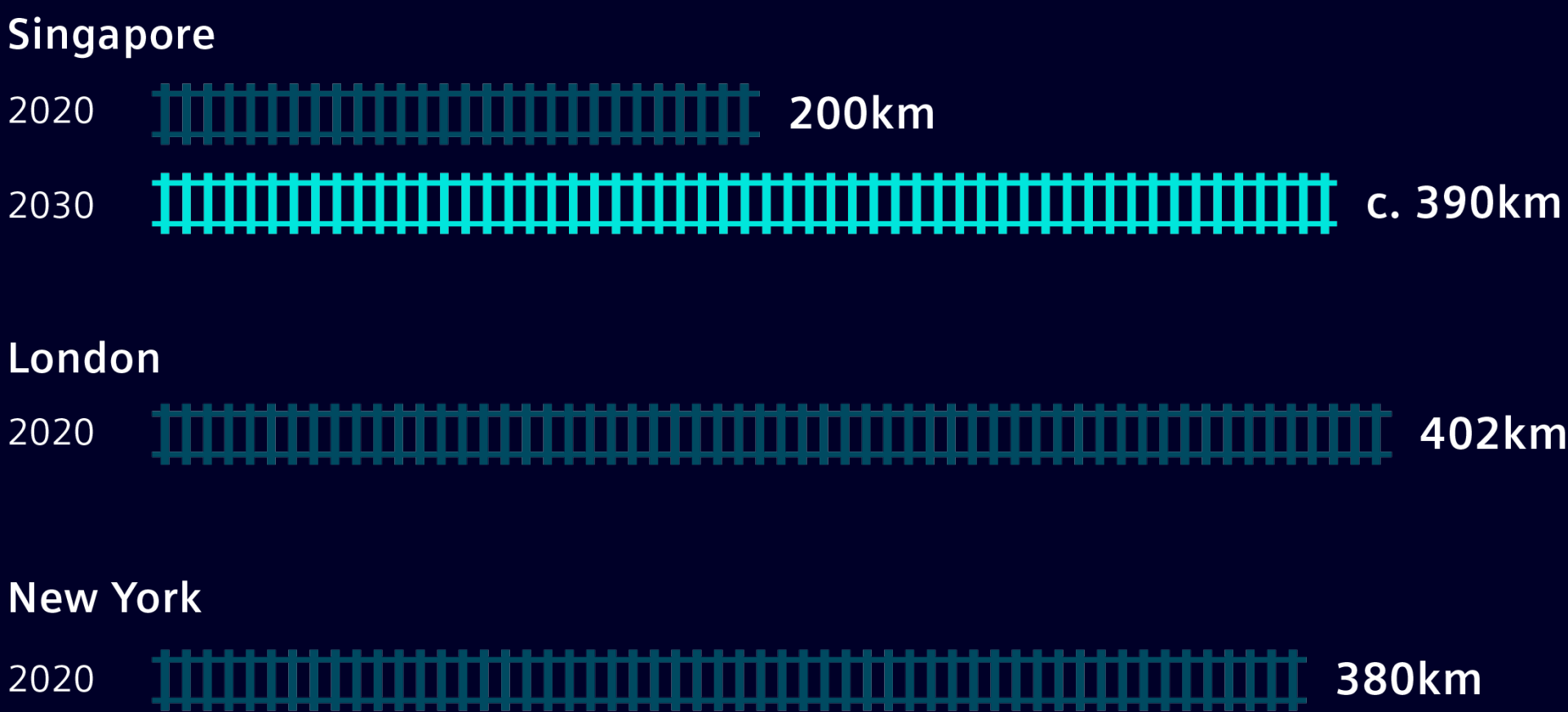| Singapore	Argentina	Germany	United Kingdom
$86.21	**$45.50**	**$13.40**	**$3.20**

■ = $1 USD

Source: AgFunder

MOBILITY

Significant investments are planned for Singapore's metro

A US$71 million investment is set to improve metro reliability through the creation of a '**virtual twin**' of the existing network. Siemens is partnering on this initiative, which will enable operators to simulate track faults and other situations, and test strategies for improving signaling and maintenance. Singapore is planning to spend $43.5 billion to **upgrade and expand its network** over the next decade, with an initial milestone of bringing 8 out of 10 households within 10 minutes of a metro station by 2030.
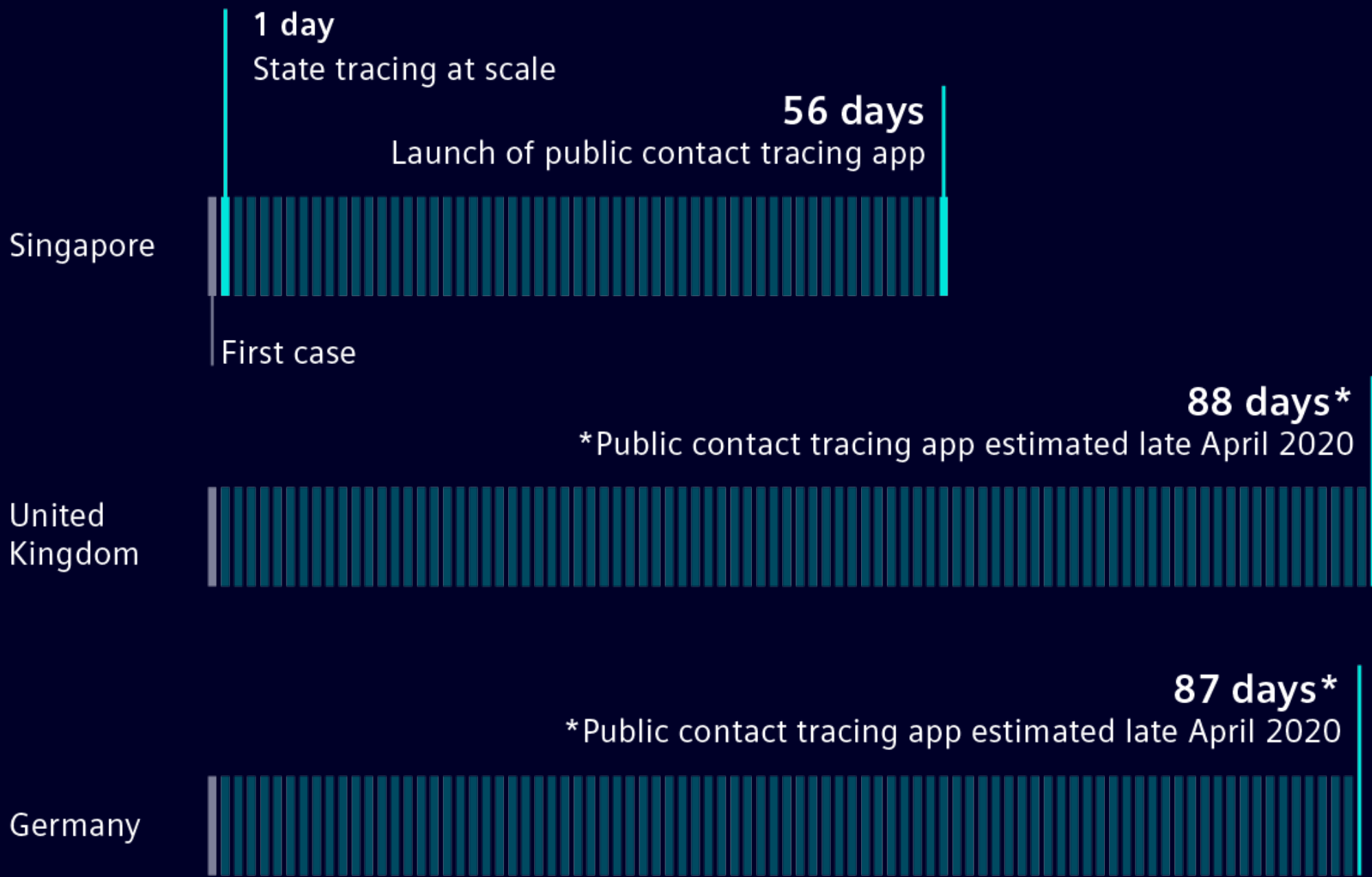
Total metro rail length

Singapore

2020 ||||||||||||||||||||||||||||||||||||| 200km

2030 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||| c. 390km

London

2020 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||| 402km

New York

2020 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||| 380km

Source: TFL, MTA, Singapore Government

OPPORTUNITY

The 'Singapore Together' movement champions a collaborative approach to identify scalable solutions to everyday needs

The city was quick to capitalize on digital technology to track infection, including CCTV footage, data visualization, and fast deployment of a community-driven smartphone app. Developed by SGUnited, GovTech, and the Ministry of Health, **'TraceTogether'** helps users to identify whether they have been in close proximity to someone infected with the virus.

Number of days between first COVID-19 case and implementation of public contact tracing

1 day
State tracing at scale

56 days
Launch of public contact tracing app

Singapore

First case

88 days*
*Public contact tracing app estimated late April 2020

United Kingdom

87 days*
*Public contact tracing app estimated late April 2020

Germany

Source: British Foreign Policy Group, BBC, WHO, Anadolu Agency

THE ATLAS OF DIGITALIZATION

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