10 stats you need to know about *edge computing*

1

The cloud will move to the *edge*

Hybrid and multi-cloud strategies and solutions that extend on-premises or on-device to enable enterprises to deploy applications at the city or neighbourhood level will make it easy to overcome latency challenges.[1]

2

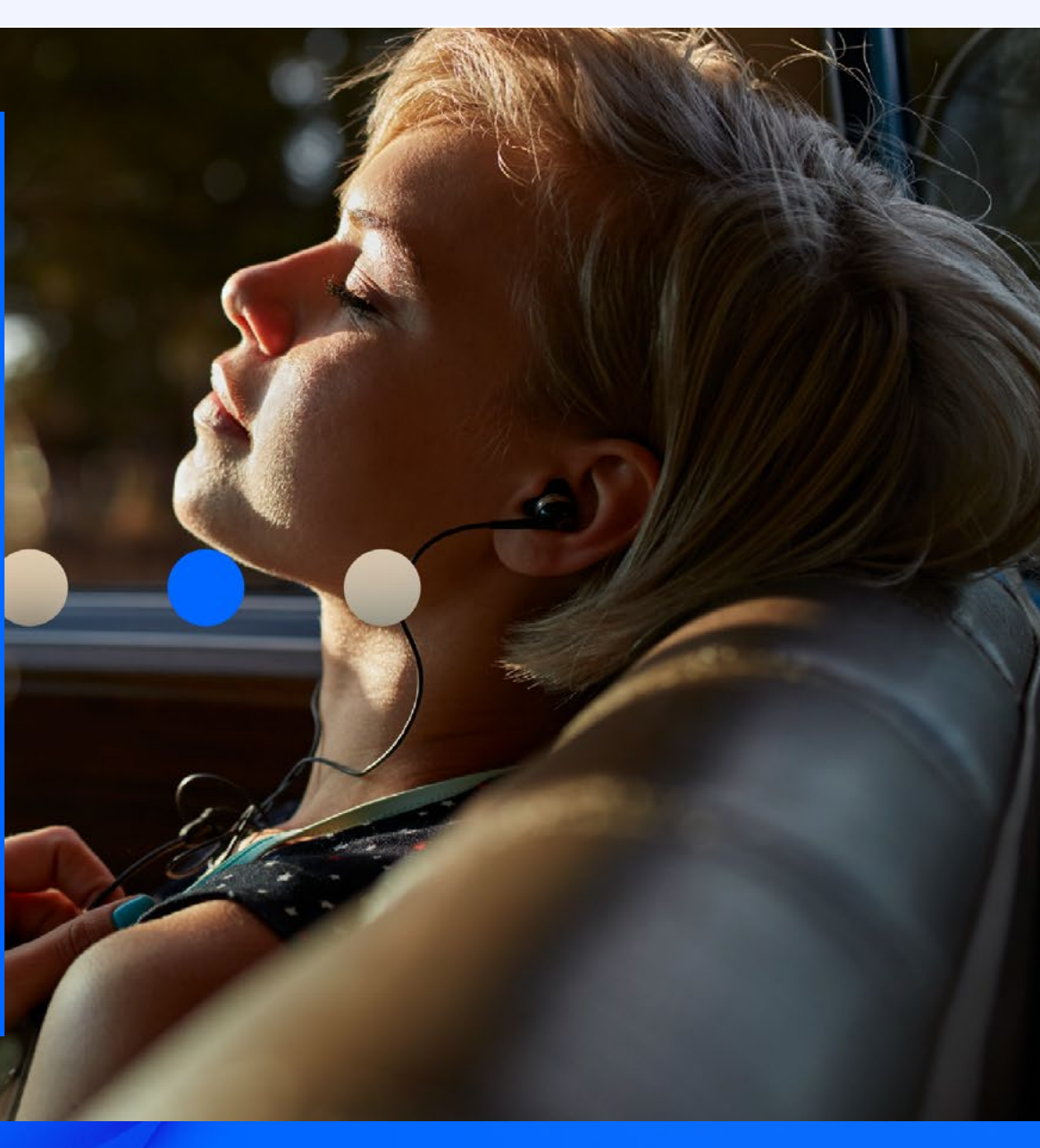
Digital transformation fuels edge interest

Many companies are leveraging new technology to compete in a digital economy, and the massive ripple effects from COVID-19 make these efforts even more critical. As companies further digitise their operations and explore new data streams that help inform business decisions, they will be more interested in edge computing as an extension of their cloud model.[1]

3

13 zettabytes of *data*

13 zettabytes (13 trillion gigabytes) of data was generated by the world's connected devices in 2019. By 2025 it will be more than 79 zettabytes. The only way all of this data can be processed effectively and efficiently is with edge computing.[2]



69%

of enterprises cite security as a top decision factor and driver of edge computing adoption.[3]

4

Security is number 1 decision factor

As data is closer to the source, edge platforms and technology are embedded in the network, meaning they benefit from enhanced security protocols.

5

Edge computing market set to *quadruple*

Between 2020 and 2025, the global edge computing market is predicted to more than quadruple to $15.7 billion (from $3.6 billion).[4]

6

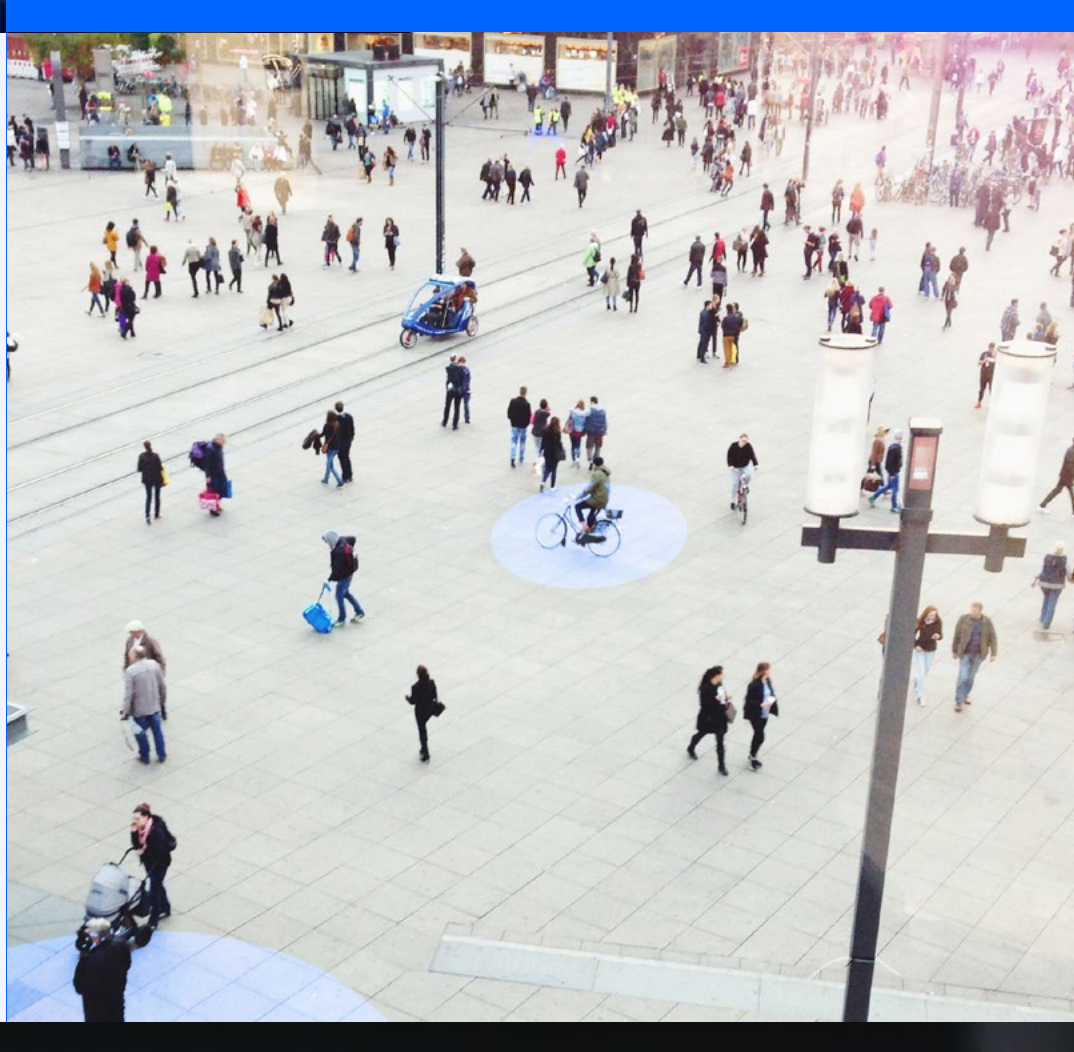
75% on the trail of edge computing *ROI*

1 in 5 organisations have already seen a return on their edge computing investment, and a further 55% expect to do so in the future.[5]

7

1 in 4 actively *researching*

25% of organisations are actively researching edge computing.[5]



8

More than one third *tooling up*

13% are piloting new initiatives anchored in edge computing, and 23% are already using these tools.[5]

9

Datacenters *shrink* to one quarter of data by 2025

75% of enterprise-generated data will be created or processed at 'the edge'.[6]

10

30% of *workloads* are AI

Artificial intelligence is the most selected edge computing workload for IoT developers to deploy on edge computing platforms.[1]

Industries where **edge computing** is being applied

Agriculture

Autonomous actuators and drones that ventilate greenhouses, survey crops and manage livestock based on real-time environmental conditions.

Industrial automation

Video and sensor technologies that increase productivity, efficiency and safety across processing and production environments from mines and oil rigs to manufacturing plants.

Automotive

Driverless cars and automated logistics powered by complex AI and machine learning algorithms to assure safety and performance.

Healthcare

Virtual and augmented reality systems to advance surgeries, therapeutic treatments and pain management, and data-intensive medical devices that produce enormous quantities of unstructured media data.

Smart cities

Integrated networks and applications sharing data in real time to enable city transit applications, smart lighting, CCTV, charging stations, utilities consumption and public information systems.

• • Life on *the edge*

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for more information on edge computing.

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[1] Eclipse Foundation 2020v2
[2] IDC 2019 https://blogs.idc.com/2019/11/04/how-you-contribute-to-todays-growing-datasphere-and-its-enterprise-impact/
[3] Futurum 2018 https://futurumresearch.com/research-reports/edge-computing-index/
[4] MarketsandMarkets 2020 https://www.marketsandmarkets.com/Market-Reports/edge-computing-market-133384090.html
[5] IDG Network World 2020 – https://www.globenewswire.com/news-release/2020/04/08/2013655/0/en/2020-State-of-the-Network-Research-Shares-Insight-into-the-Adoption-of-5G-SD-WAN-Edge-Computing.html
[6] Gartner 2018 https://www.gartner.com/smarterwithgartner/what-edge-computing-means-for-infrastructure-and-operations-leaders/