





HOW READY ARE YOU FOR INDUSTRY 4.0?

Since they were born, traditional industries have been through several revolutions, having to shift and innovate quickly to address changing market dynamics and increased customer demand. Today, disruptions in supply chain and production have also had to be mitigated in the wake of the COVID-19 pandemic.

Industry 4.0, or Industrial IoT

(IIOT) is a revolution for traditional industries, an integration of the physical world with the digital, where machines and equipment meet advanced technologies, such as big data and artificial intelligence (AI). IIoT is the industrial application of networked physical objects that contain embedded technology (sensors, mobile communication devices, etc.) to communicate their internal conditions (e.g. temperature, stock levels, faults, etc.) and interact with other systems or people to drive decision-making.

It is a proven strategy to increased speed and agility at every phase of the industrial lifecycle and achieve operational excellence – from managing supply chain and monitoring plant safety, to identifying bottlenecks in production and predicting equipment failure.

These massive data interactions can only take place in a **smart ecosystem** where the Internet of Things (IoT) converges with **cloud, big data, AI and machine learning** to enable industries and enterprises to extend capabilities and future-proof their business, flexibly and securely. With more data and applications distributed among multiple cloud environments, interconnecting all of them with minimal complexity is critical.

That's where we come in.

THE FUTURE OF IOT IS AT THE EDGE

Any data that is generated needs to be stored, processed, and analysed – and this is where **cloud-ready strategies** add the greatest value, with advanced applications such as data streaming and analytics.

As the amount of IoT devices and associated data increases, gateways centralised in traditional IT infrastructures can't scale to meet growing business needs.

Operating at the source of **where the data resides** – such as machinery, warehouses, building sites, or order distribution facilities – is a key consideration in establishing a smart ecosystem. Data doesn't have to travel as far as it needs to under a typical cloud architecture, thereby reducing latency and enabling real-time insights.

By moving your IoT devices closer to the edge, the sources of data changes from one centre to several sites.





62% 85% of manufacturers of CEOs agree that investments are moving in smart factories forward with will rise by June smart 2021² manufacturing initiatives³ \$83B **Estimated total** number of IoT connections by 2024⁴ ^{2 & 3} Deloitte, "Accelerating smart manufacturing - The value of an ecosystem approach, 21 October 2020 ⁴ Juniper Research, 'IoT ~ The Internet of Transformation 2020' © 2021 Equinix, Inc.

SMART ECOSYSTEMS OPEN DOORS TO NEW POSSIBILITIES

While monitoring systems and sensors create a path to better decision-making and increased competitive advantage, it has also led businesses to question – how do you deal with the influx of data generated by IIoT devices?

After being collected, data must be transported (network), stored and processed (cloud), analysed (Al and big data analytics), and of course, secured all the way (cyberdefence). It means businesses must leverage IoT platforms to realise greater revenue and growth. Centralised IT infrastructures can't scale or integrate IoT or IIoT capabilities that are needed to leverage operational and customer insights.

This is why industries are now embracing an 'ecosystem' approach to operate smartly and efficiently, while embracing innovation and new use cases.

Open and integrated IoT environments will drive efficiencies in existing processes – from planning to production and delivery, and everything in between.

IoT requires new business models to capture unprecedented value, while enterprises and consumers seek smart, integrated services. To fulfill these requirements, companies across industries need an optimised IT architecture to gain the intelligence required to compete in a digital world and realise greater revenue and growth from IoT innovation. The data sent by your connected objects must also make it to the intended destination safely and reliably, with the connectivity and security that is right for your business.

Equinix and Orange help unlock new growth opportunities, using your data to drive innovation and power new service offerings.

WHAT DOES A SMART ECOSYSTEM LOOK LIKE?

Let's now explore what a smart ecosystem looks like in practice.

Take the construction industry as an example, a vertical that faces significant business and technology challenges which include equipment and skilled labour shortages, increasingly short project schedules, and rising costs of infrastructure delivery. Overall, the rate of innovation and technological adoption has been slow in the industry.

These conditions aren't optimal for Industry 4.0 success. Instead, the construction industry of the future – or Construction 4.0 – must involve solutions with connected objects that encompass broad applications such as environmental management, asset and inventory management, fleet management, and personnel productivity systems.

Leading infrastructure company
McConnell Dowell chooses Orange
Business Services to deliver smart IoT
solution for construction sites.

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TAKE A LOOK AT SOME CONNECTED INDUSTRIES

MANUFACTURING

Greater insights for operational excellence

A global leader in industrial trucks improves operations through high-end geo-location, predictive maintenance of forklifts, and optimised intervention processes.

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CONSTRUCTION

Generate millions of AU\$ in savings

Smart IoT solutions maximises utilisation of equipment and resources for the removal of 75 of the most dangers and congested level crossings in Victoria, Australia.

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UTILITY AND SERVICES

Reduce water bills by analysing and predicting consumption

Digitalised remote water meter reading services helps customers in France reduce bills by analysing and predicting consumption.

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ENERGY

Optimising distribution channels

A gas distribution customer tracks its supplies using an IoT platform to adapt deliveries to sales points and assess gas quality via sensors.

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TRANSPORT

Asian countries digitally transforming public transport

Four countries across Asia Pacific are moving with the times by digitally transforming traffic management and public transport services.

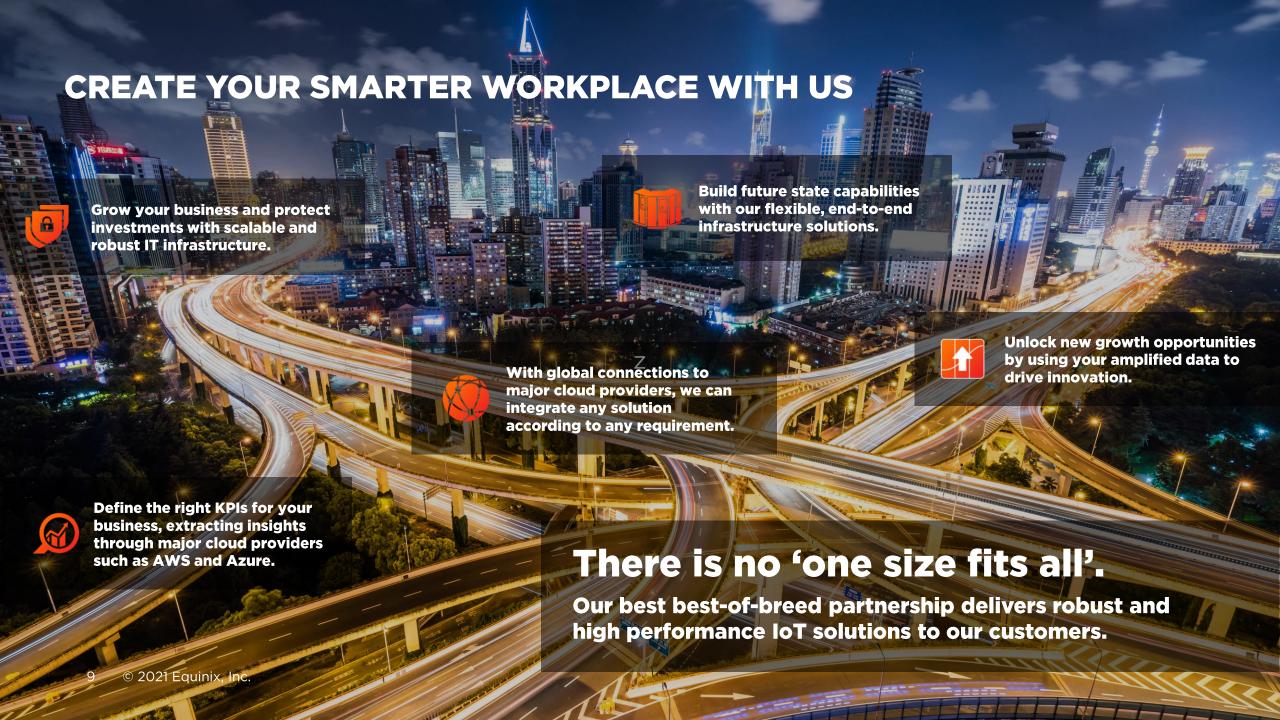
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The Port of Antwerp optimises vessel traffic and drives operational improvement through data science.

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A unique opportunity to unlock your digital dexterity



orange[®]



World class Interconnectivity in its IBX



World Class Data Centre Facilities



Innovative Platform for Cloud Adjacency



Largest global data centre fabric, supporting 1800+ networks, 675+ digital media, 2900+ cloud & IT services, 350k interconnections

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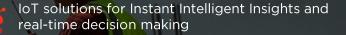
Utilise OBS
Network,
Applications,
and Managed
services to
power its
data centres
globally

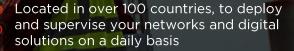
Together

Deliver
differentiated
IoT solutions to
enable the
digital
transformation
of industry

OBS

Utilise Platform Equinix and its rich ecosystem for building integrated solutions



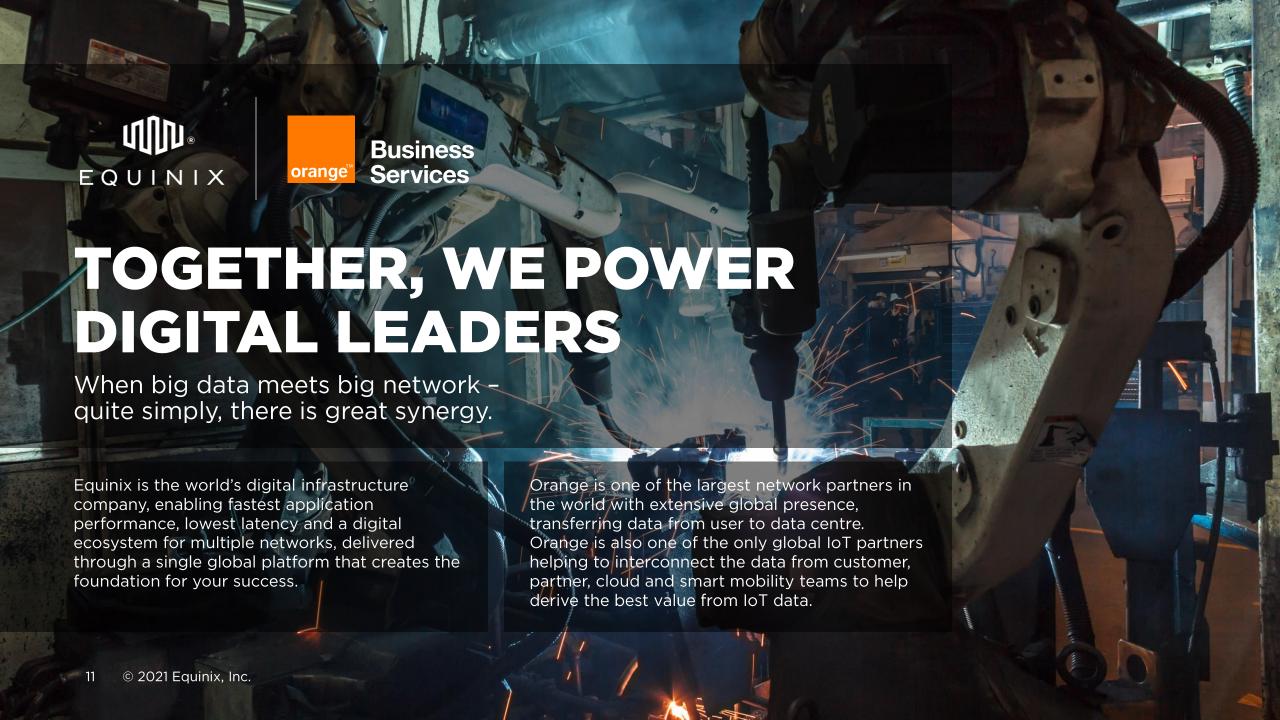




Integrate remote collaboration, omnichannel, security, multicloud and connectivity solutions on a global scale

Step by step consultative approach to help you integrate and orchestrate with best-of-breed technologies

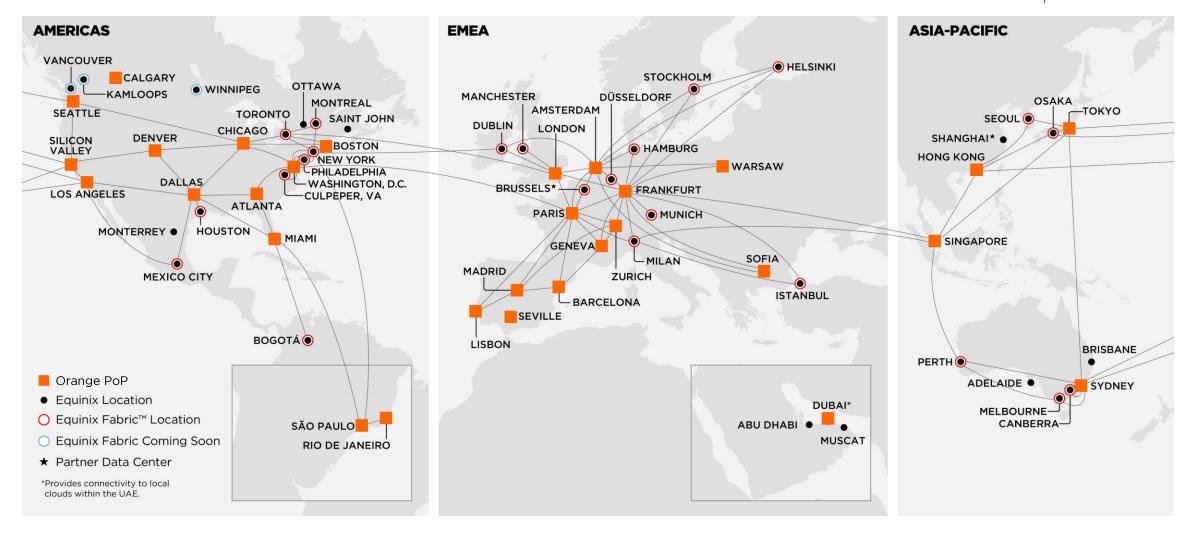
Support our customers in the transformation of their infrastructure as a network-native digital services company



ORANGE POPS AT EQUINIX METROS









TAKE THE NEXT STEP

Collaboration between two leaders in their own fields brings together the best technology, knowledge and experience to create the right operational environment to apply IoT monitoring, data capture and analytics.

This helps enterprises improve safety, be more efficient and decrease operational risk.

Ready to unlock your business potential? Contact us now.

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