Deloitte.

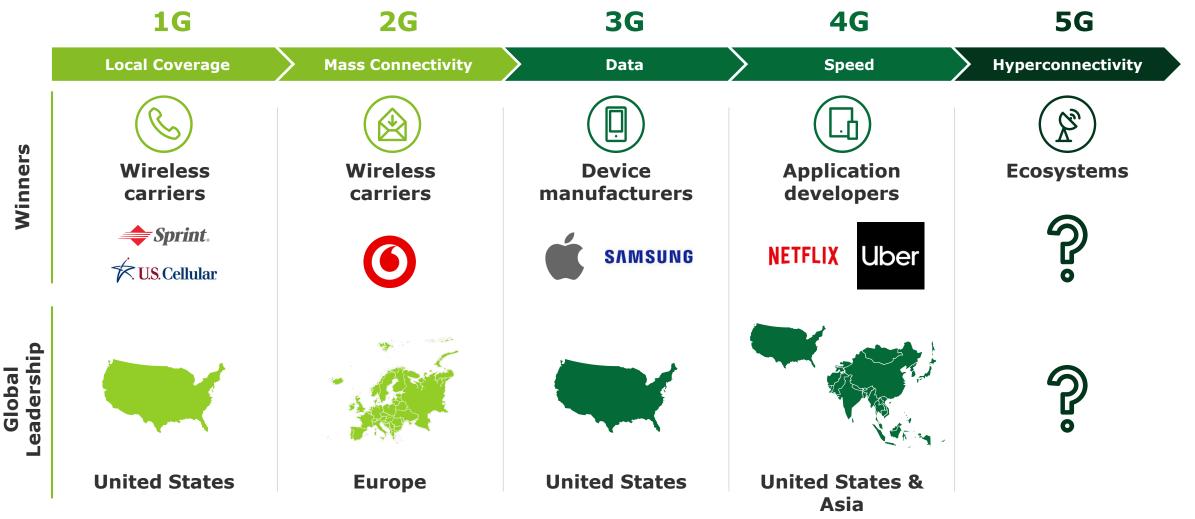


Advanced Connectivity – 5G and WiFi 6

October 2020

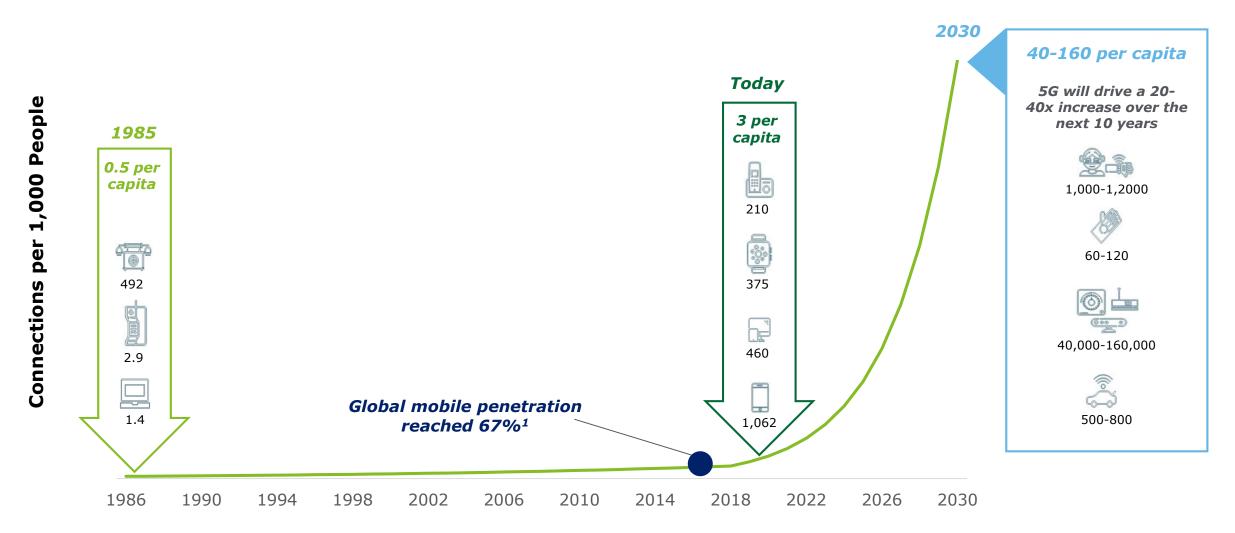
Opportunities and shifts with 5G

Every change in wireless technology has created new winners and shifted global business performance



What happens next? Everything gets connected!

Current forecast suggest we will go to between 40 and 160 connections per capita by 2030

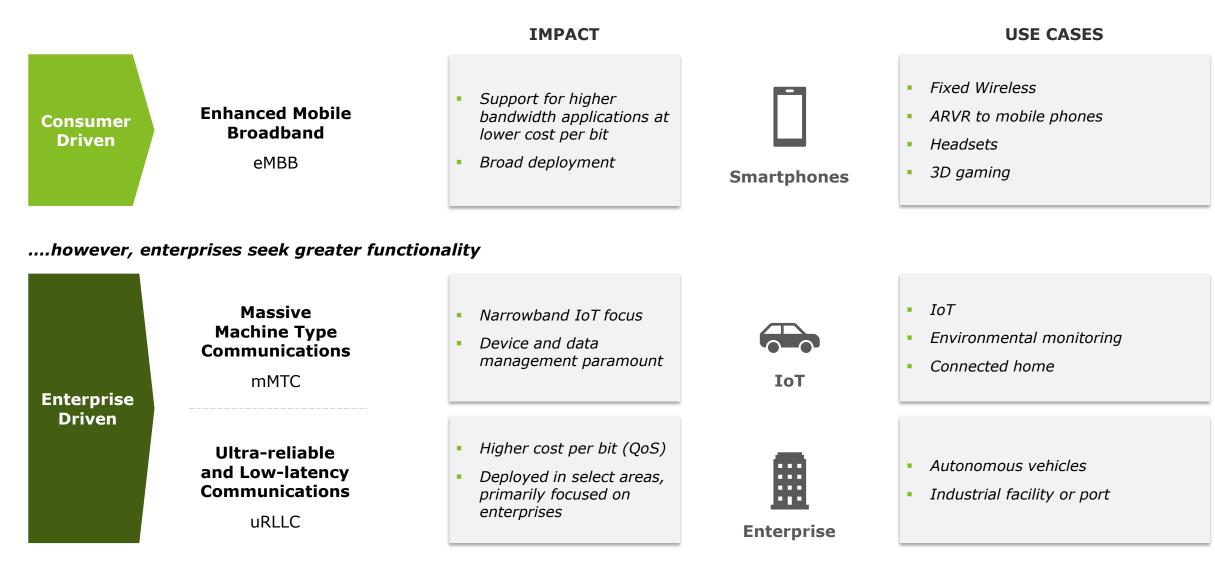


Source: Deloitte Analysis; GSMA Intelligence

Copyright © 2020 Deloitte Development LLC. All rights reserved.

5G Functionality

The changes of 5G are profound; analogous to how cloud changed compute and data storage



Motivations for advanced connectivity

Organizations are adopting advanced wireless to unlock innovation and competitive advantage



57%



87%

Believe their company's **current networking infrastructure prevents** them from addressing the **innovative use cases** they want to target Believe their company can **create a significant competitive advantage** by leveraging advanced connectivity technologies

Note: Percentages may not total 100 percent due to a small number who answered "Don't know." Source: Deloitte's Advanced Connectivity in the Enterprise Study of 415 U.S.-based networking executives. Copyright © 2020 Deloitte Development LLC. All rights reserved.

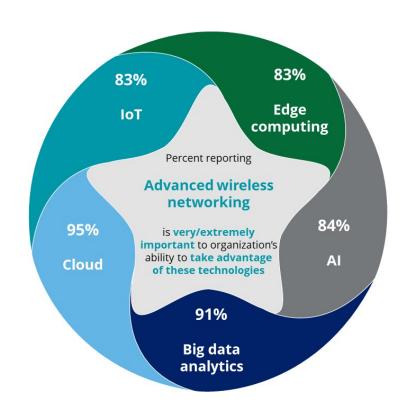
Voice of enterprises

Executives overwhelmingly believe advanced wireless technologies will transform their organizations

Enterprises anticipate substantial transformation within 3 years

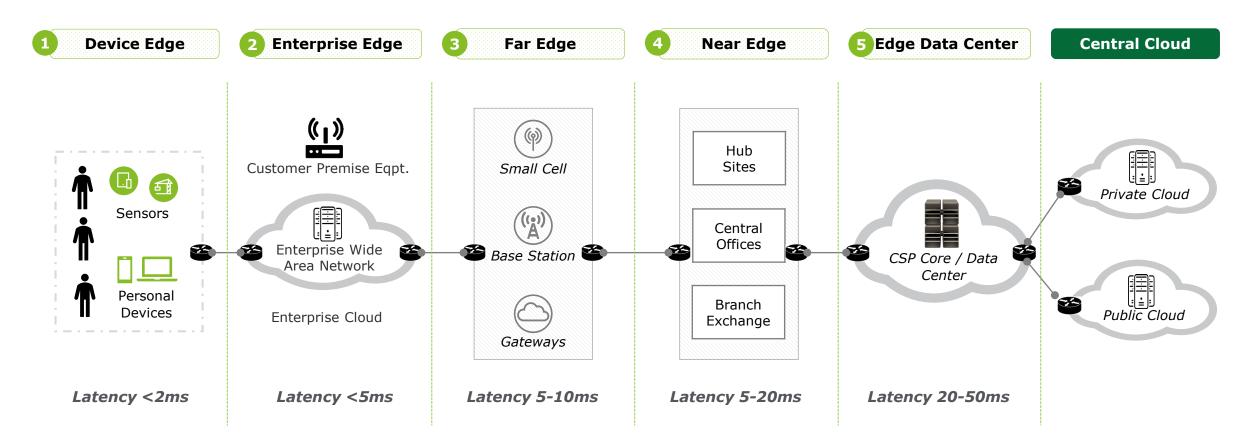


Advanced wireless is a force multiplier unlocking the potential of emerging tech.



What is Edge Compute?

Based on application needs, the compute and storage resources can reside in different parts of the network



Moving analytics and data processing to the Edge provides real-time responsiveness essential for next gen apps.

Low

Latency and Computing Capacity

High

Business Use Cases

Enterprises are targeting a range of usage scenarios with their adoption of advanced wireless technologies

	EMPLOYEE NETWORKING	MACHINE NETWORKING	CUSTOMER NETWORKING
#1	Workplace communication Faster & seamless upload/download of files from cloud, remote document sharing, messaging, accessing internet	Advanced analytics Insights on sensor-generated data, edge computing	Advanced analytics Insights on shopping pattern or on-floor movement, pricing, forecasting, recommendations, geofencing-based notifications
#2	IT administration Remote troubleshooting, managing workstations/servers/mobile devices	Automation Autonomous vehicles, remote-controlled robots or drones, delivery robots	Security & fraud prevention Biometric checks, geolocation transactions, smart contract/ blockchain
#3	Advanced collaboration tools Mobile videoconferences, AR/VR/3D experiences, remote workplaces	Asset tracking Inventory management, sensors in containers / goods / machines, geofencing, blockchain / smart contracts	Advanced customer experiences Cloud-based mobile apps, autonomous stores, immersive AR/VR/3D features, entertainment, video-based check-ups
#4	Network management Software-defined WAN, network slicing	Machine-to-machine communications Vehicle communications and safety systems, assembly/production line	Asset tracking IoT sensors, RFID tracks, geofencing, fleet management, smart contracts/blockchain
#5	Advanced analytics Device usage, cloud usage	Remote monitoring / control Video surveillance, connected assembly lines for production processes, telemedicine	Automation Restocking shelves, delivery robots/drones, robotics-assisted surgeries

Source: Deloitte's Advanced Connectivity in the Enterprise Study of 415 U.S.-based networking executives. Copyright © 2020 Deloitte Development LLC. All rights reserved.

Deloitte.

About Deloitte

Deloitte refers to one or more of Deloitte Touche Tohmatsu Limited ("DTTL"), its global network of member firms and their related entities. DTTL (also referred to as "Deloitte Global") and each of its member firms are legally separate and independent entities. DTTL does not provide services to clients. Please see www.deloitte.com/about to learn more.

Deloitte is a leading global provider of audit and assurance, consulting, financial advisory, risk advisory, tax and related services. Our network of member firms in more than 150 countries and territories serves four out of five Fortune Global 500®companies. Learn how Deloitte's approximately 264,000 people make an impact that matters atwww.deloitte.com.

This communication is for internal distribution and use only among personnel of Deloitte Touche Tohmatsu Limited, its member firms and their related entities (collectively, the "Deloitte network"). None of the Deloitte network shall be responsible for any loss whatsoever sustained by any person who relies on this communication. Copyright © 2020 Deloitte Development LLC. All rights reserved

Copyright © 2020 Deloitte Development LLC. All rights reserved.

Designed by CoRe Creative Services. RITM0388334