

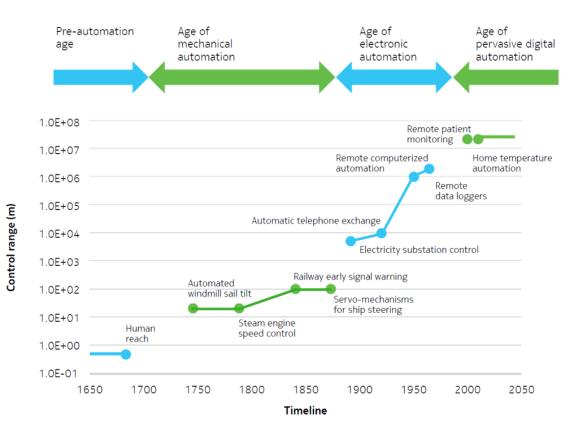
Future of IoT

The Transformation to Pervasive Digital Automation

Christele Bouchat

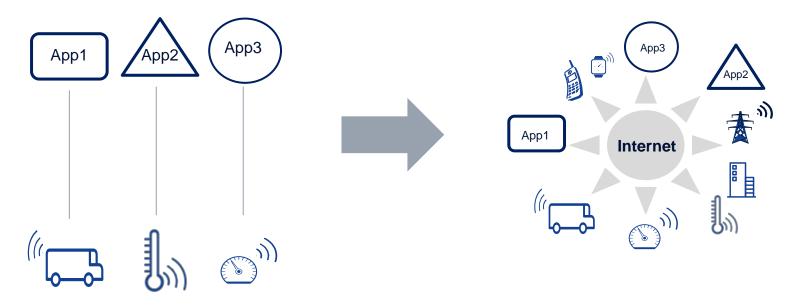
This presentation does not include mission critical communication

The Four Ages of Automation



We are at the threshold of a new era in automation that dwarfs the previous eras in scale, speed, reach, diversity with major impact to how we live

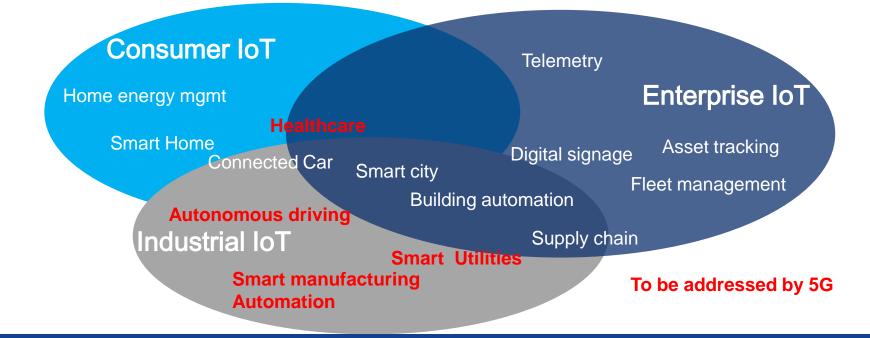
The Transformation from Point Solutions to IoT From the Intranet of Things to the Internet of Things



A shift from point to point monitoring and control solutions to a connection to the Internet is driving the large scale digitization of things

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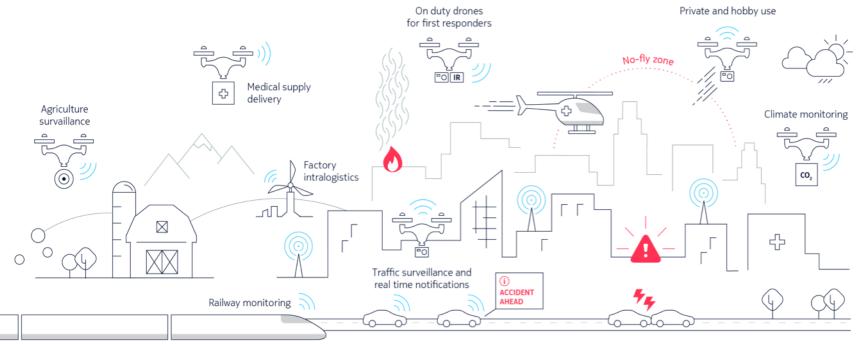
Segmentation in to Verticals Consumer, Enterprise and Industrial IoT



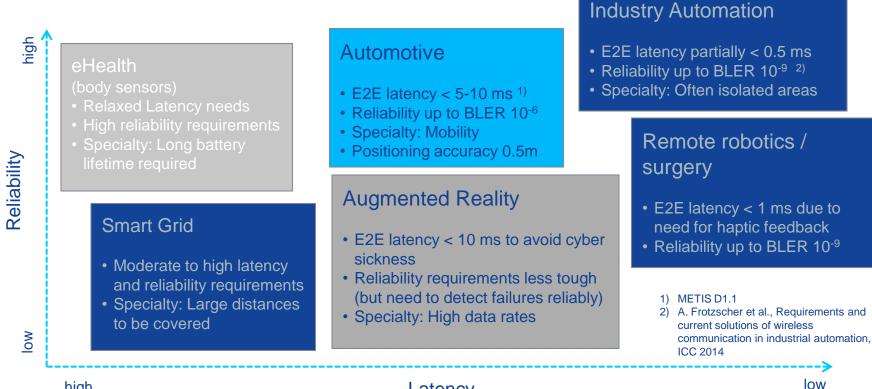
Significant variation in market penetration and growth across verticals with Industrial IoT in infancy & Consumer and Enterprise IoT accelerating

Unmanned Aerial Vehicles for Smart Solutions

With LTE: not very efficient because of interferences 5G to improve the quality of the link



Latency and Reliability Requirements

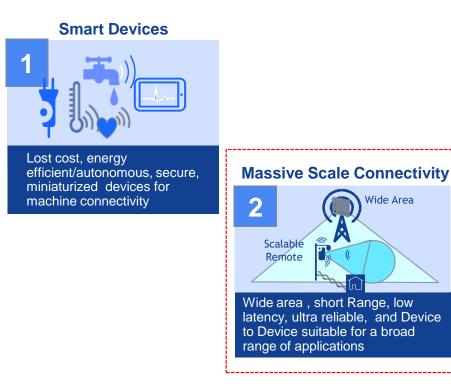


Latency

high

Technologies Enabling the Pervasive Digital Automation

Wide Area



Secure IoT Platforms

Cloud based application enablement tools and connectivity management capabilities



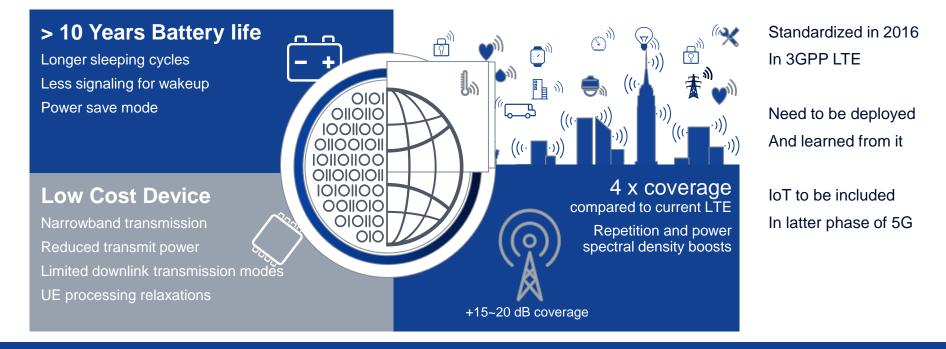
Intelligent IoT Analytics

Real-time predictive analytics to drive autonomous systems





Low cost & power for massive machine type communication 3GPP LTE-M and NB-IoT



Expanding Cellular Connectivity to new IoT Application categories



Open Broadband





Open Broadband

Open Broadband is collaborative space for the integration and testing of new open source, standards-based and vendor provided implementations

Collaboration between Open Broadband and other industry projects

- OB-I is the infrastructure platform that will provide physical lab resources to facilitate integration, testing, etc.
 - With other organizations such as ETSI NFV ISG, ONF, IETF, etc.
 - With open source projects (OPNFV, Open-O, OCP, ONOS, OpenCORD, Open Daylight, OpenStack, etc.) will provide implementations into the Open Broadband
 - With BBF projects such as CloudCO, BBF service modeling, the virtualized broadband network, 5G services, IoT,...
- Enables testing of integration for commercial deployments and vendor provided solutions

