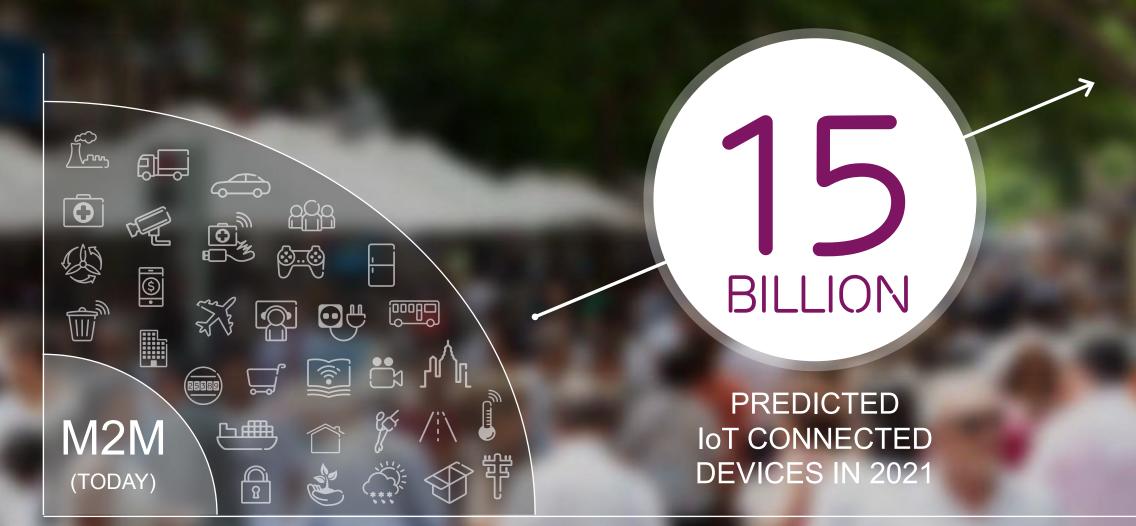


MARKET OUTLOOK





5G USE CASES





Broadband experience everywhere anytime



Mass market personalized media and gaming



Meters and sensors, "Massive MTC"



Remote controlled machines



Smart
Transport
Infrastructure
and vehicles



Human machine interaction



And much more

Multiple use-cases supported by a common network platform

WE ARE AT THE BEGINNING OF SOMETHING BIG





\$1.9 TRILLION

Predicted value-add of IoT across sectors in 2020

Source: Gartner Group

IOT - WIDE RANGE OF REQUIREMENTS FOR 5G



AND SPECTRUM NEEDS.....

MASSIVE MTC







SMART METER





CRITICAL MTC





TRAFFIC SAFETY & CONTROL



INDUSTRIAL APPLICATION & CONTROL



REMOTE MANUFACTURING, TRAINING, SURGERY

LOW COST, LOW ENERGY SMALL DATA VOLUMES MASSIVE NUMBERS ULTRA RELIABLE VERY LOW LATENCY VERY HIGH AVAILABILITY

THE CELLULAR FOUNDATION FOR IOT



Radio Access

Core network

2G EC-GSM

4G LTE-M NB-IoT

5G NX

Network Slicing















FULL RANGE OF SOLUTIONS

Addressing diversity of use cases

EC-GSM

Global cellular IoT for all GSM markets

LTE-M

Wide range of Massive IoT applications

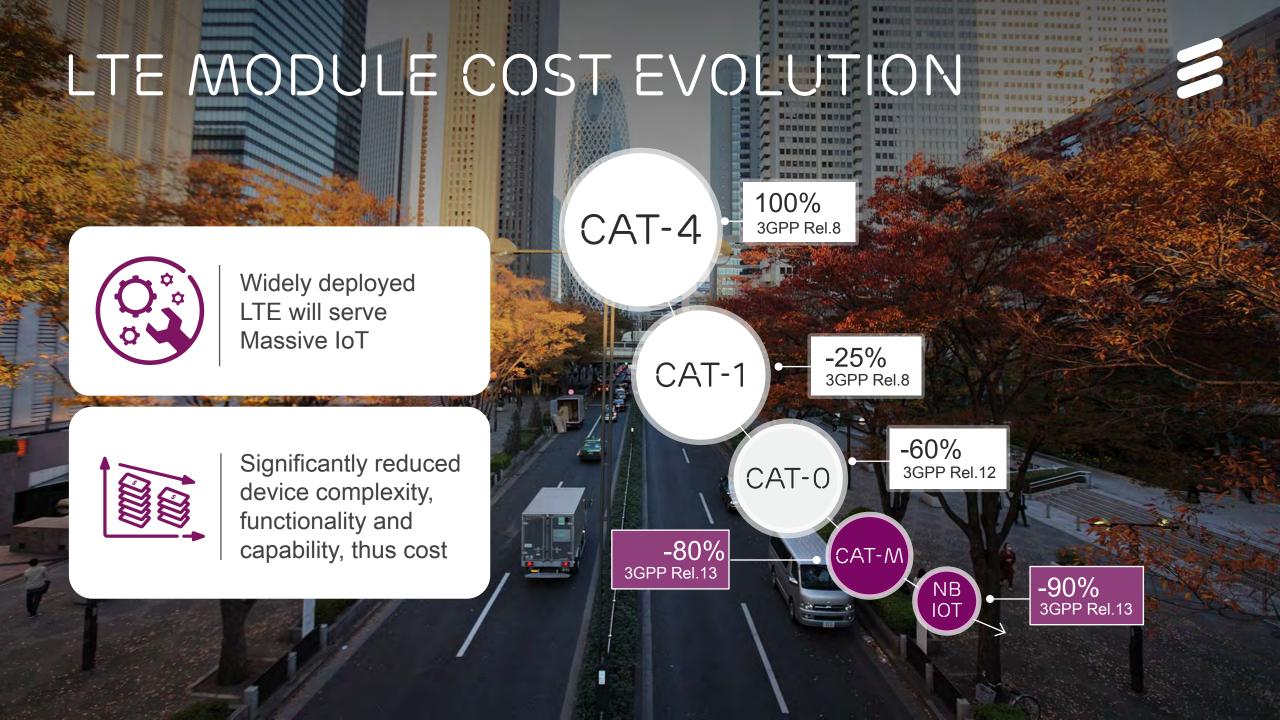
NB-IoT

Low-bitrate Massive IoT applications

5G NX

Critical
Machine-Type
Communication







5G OPPORTUNITIES





Remote Service & Operations Center

Increased efficiency
Ultra reliable & fast
All 5G communication



Automated Platooning



Automated Mines



Intelligent Urban Distribution

VIEWS ON IOT POLICY ASPECTS



- The Internet of Things requires an innovation friendly policy approach. Long term development with current high pace of change.
- Some views on basic guiding principles:
 - Support and allow for technology neutral approach
 - Recognize the global nature of digital and remain open to free circulation
 - ☐ Use existing, harmonised and horizontal legislation while also supporting various vertical market structures
 - ☐ Adopt simple and flexible rules for businesses and consumers
 - Encourage industry-lead standards
 - Involve all interested stakeholders in the development of policies

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