5G

THE NETWORK FOR NETWORKED SOCIETY

OR THE INTERNET OF THINGS



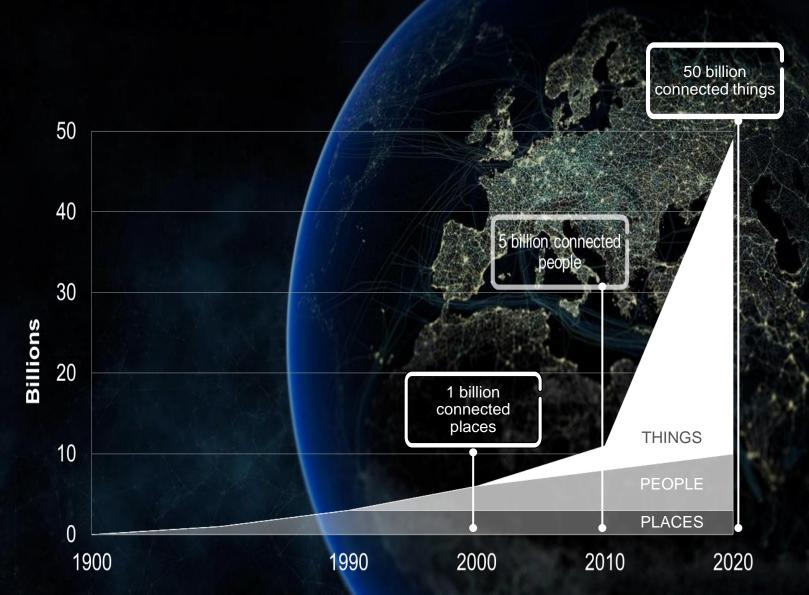
Vice President
Head of Standardization and Industry
Ericsson AB





PACE OF CHANGE







750 M

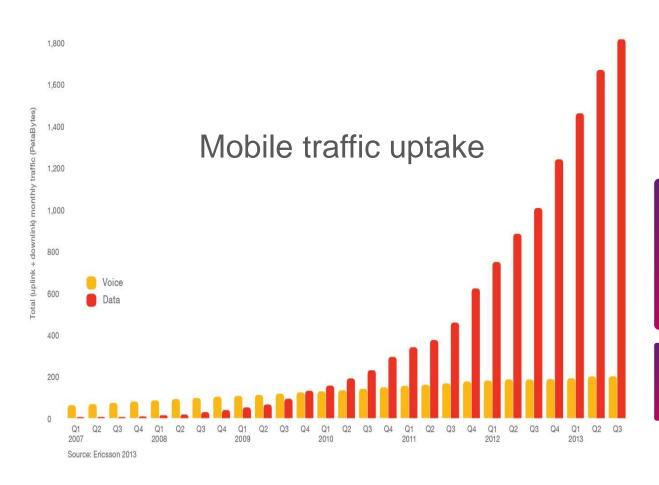
PCs and tablets

Smartphone subscriptions Mobile broadband subscriptions

Mobile subscriptions

TRAFFIC TREND IN MOBILE SYSTEMS





Summary of trends

- More subscribers
- More smartphones
- More traffic
- ...and a lot of other devices

MOBILE SYSTEM GENERATIONS





USE CASE - EXAMPLES











Broadband experience everywhere anytime

Massive machine type communication

Critical machine type communication

Mass-Market Personalized TV

5G - A GLOBAL TOPIC











THE NETWORKED SOCIETY

Network



Usage & user-driven landscape

- Connectivity
- Trust
- Performance
- Simplicity
- Sustainability



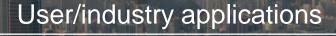
Cloud





Radio

Access



Devices

Management & Orchestration

Network Applications

Cloud Infrastructure

IP Infrastructure

8

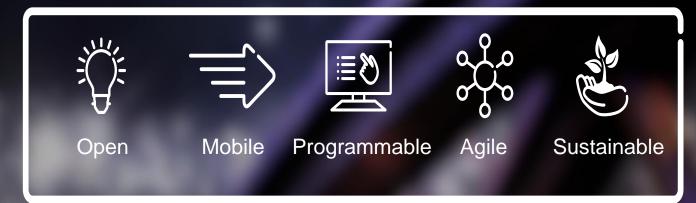
Secure

Sustainable

FLEXIBILITY AND ROBUSTNESS





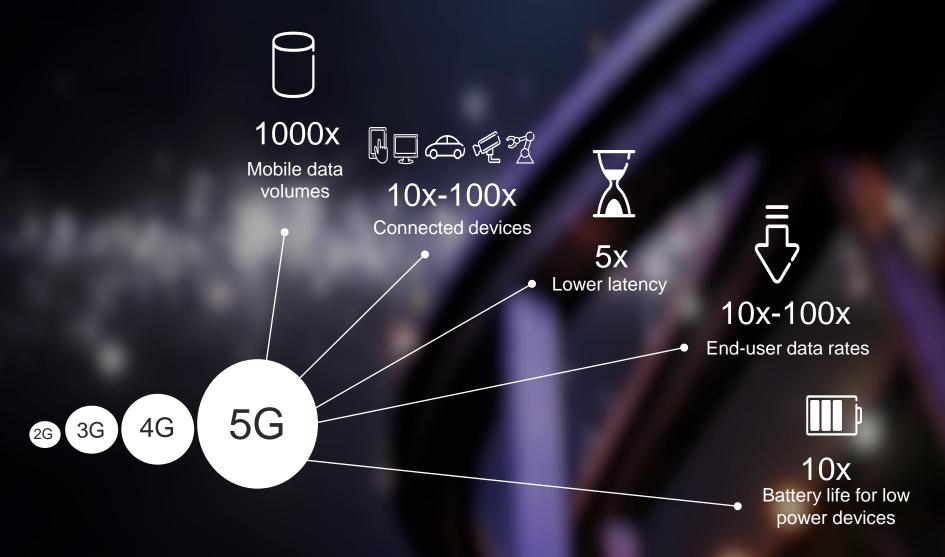


ROBUSTNESS



EVOLUTION TOWARDS 2020

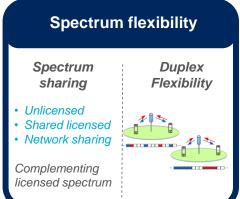


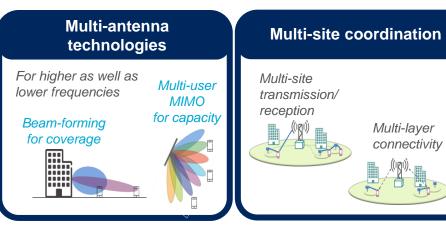


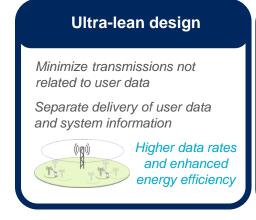
5G RADIO TECHNOLOGY AREAS

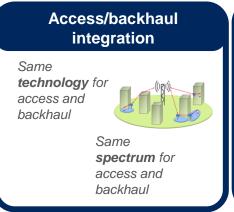


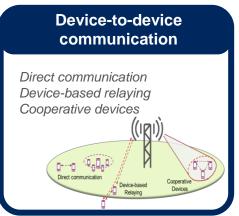
Extension to higher frequencies Complementing lower frequencies for extreme capacity and data rates in dense areas











ENDLESS OPPORTUNITIES



Consumer electronics

Automotive Transport Retail Banking Environmental

Infrastructures











Utilities

Health Well-being

Smart Cities Process industries

Agriculture











CONSUMER "INSTANT BICYCLING – JUST ADD MUSCLES"

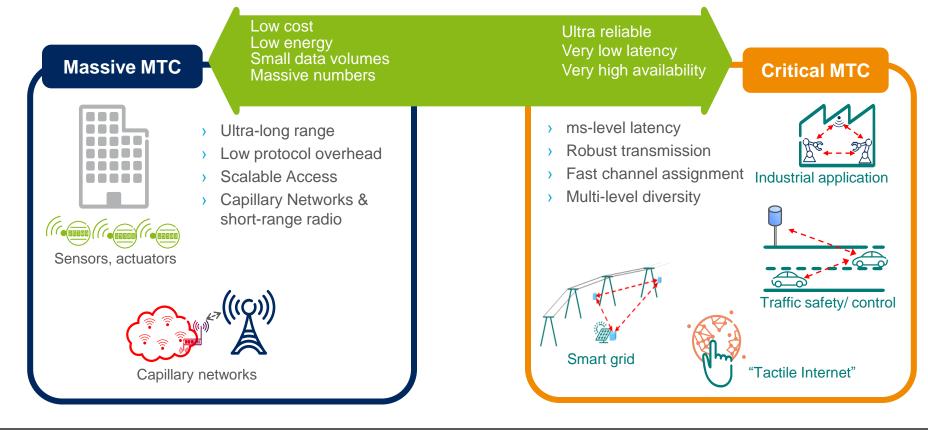




CHALLENGES AND OPPORTUNITIES =

EXAMPLE: MACHINE TYPE COMMUNICATION



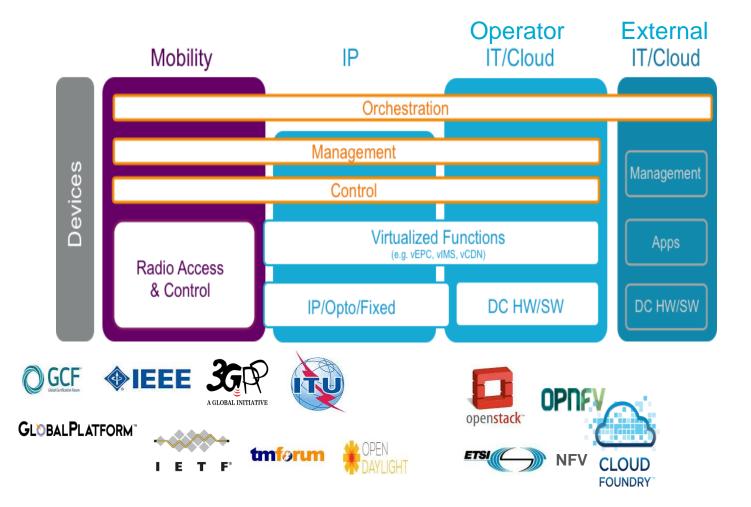




Balance complexity, cost, divergent modes, and relevance

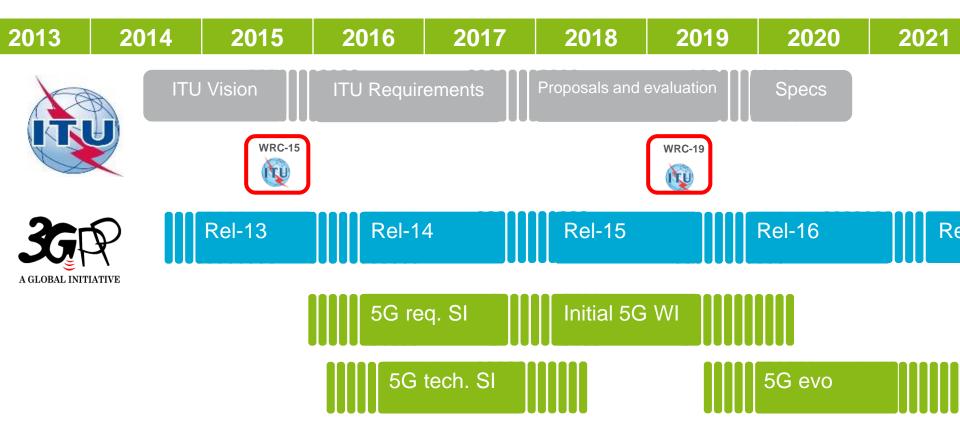
STANDARDIZATION LANDSCAPE





5G TIMEPLAN - TENTATIVE



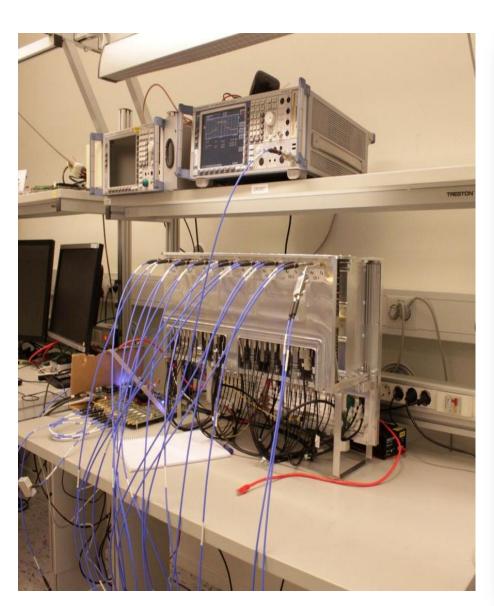


- White Paper Publication:
 - Mobile World Conference February 2015
 - NGMN Industry Conference March 2015

ngmn

5G RADIO TEST BED









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ERICSSON HITS 5GBPS IN 5G TRIAL

ON 02 JULY 2014.

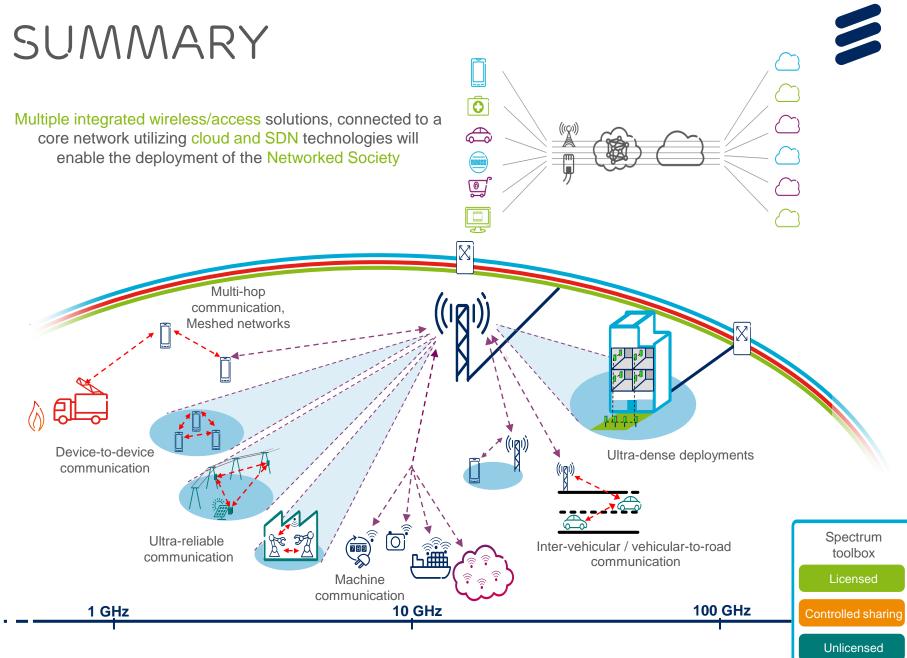


Ericsson has demonstrated download speeds of 5GBps on the 15GHz band, as it becomes the latest vendor to test 5G technology.

The Sweden-based company said it used a new radio interface and advanced Multiple-Input Multiple-Output (MIMO) technology as part of the trial, which was witnessed by executives from NTT DOCOMO and SK Telecom.

Ericsson is developing new technology for 5G, including new antenna types with wider bandwiths, higher frequencies and shorter transmission times. It is also building new radio base stations with bespoke baseband and radio units.

Other priorities for 5G were placing small cells within hetnets, examining new frequency bands and coming up with new ways of delivering high speed, high capacity backhaul, according to the



A CONNECTED WORLD IS JUST THE BEGINNING



When one person connects, their world changes

With everything connected, our world changes



NETWORKED SOCIETY

