STEW 20161013, LINKÖPING



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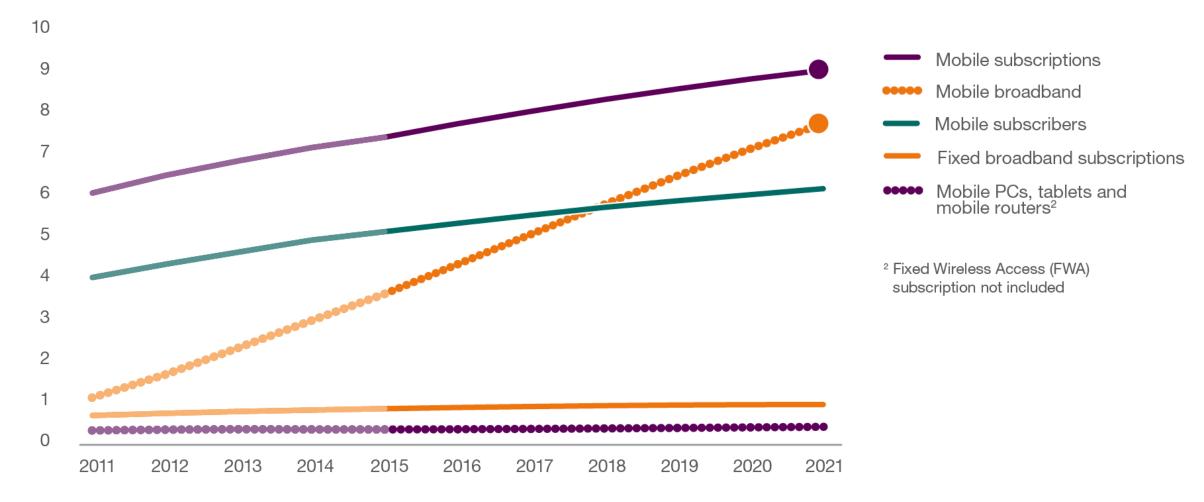
### TOWARDS THE NETWORKED SOCIETY





# NUMBER OF SUBSCRIPTIONS WILL BE FOR MOBILE BROADBAND IN 2021

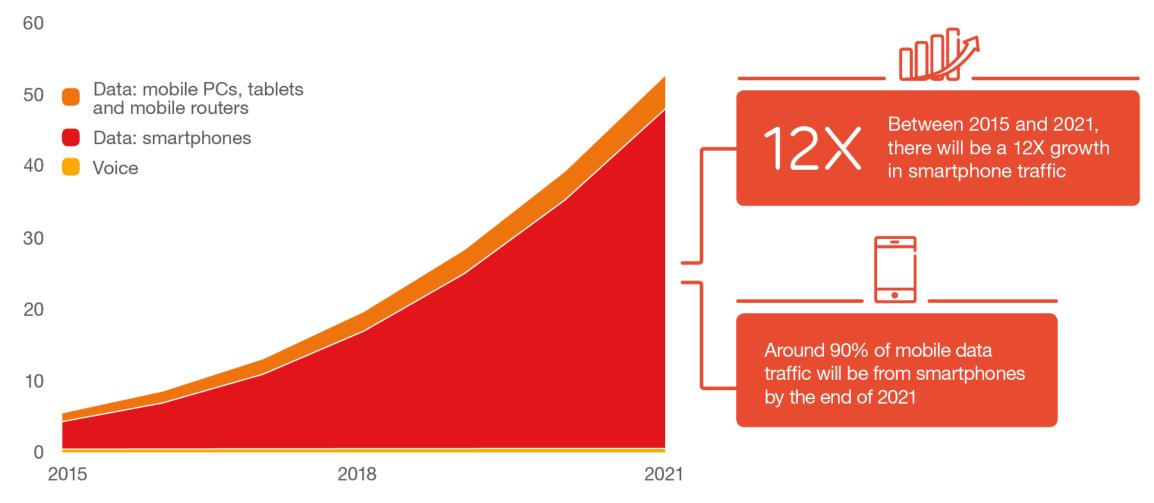
Subscriptions/lines, subscribers (billion)



### TRAFFIC OUTLOOK



Global mobile traffic (monthly ExaBytes)

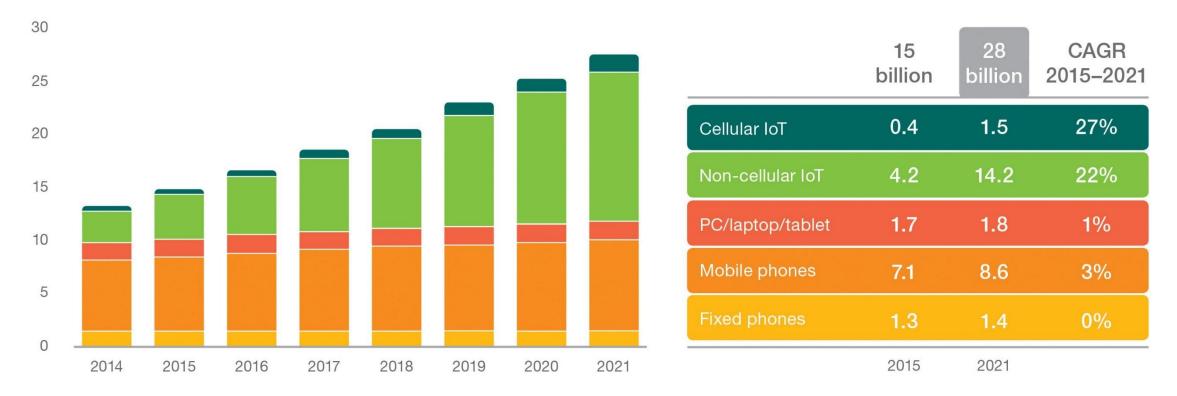


### INTERNET OF THINGS TO SURPASS MOBILE PHONES IN 2018



- expected to be largest category of connected devices

Connected devices (billions)



### THE NETWORKED SOCIETY WE ARE AT THE ICT INFLECTION POINT

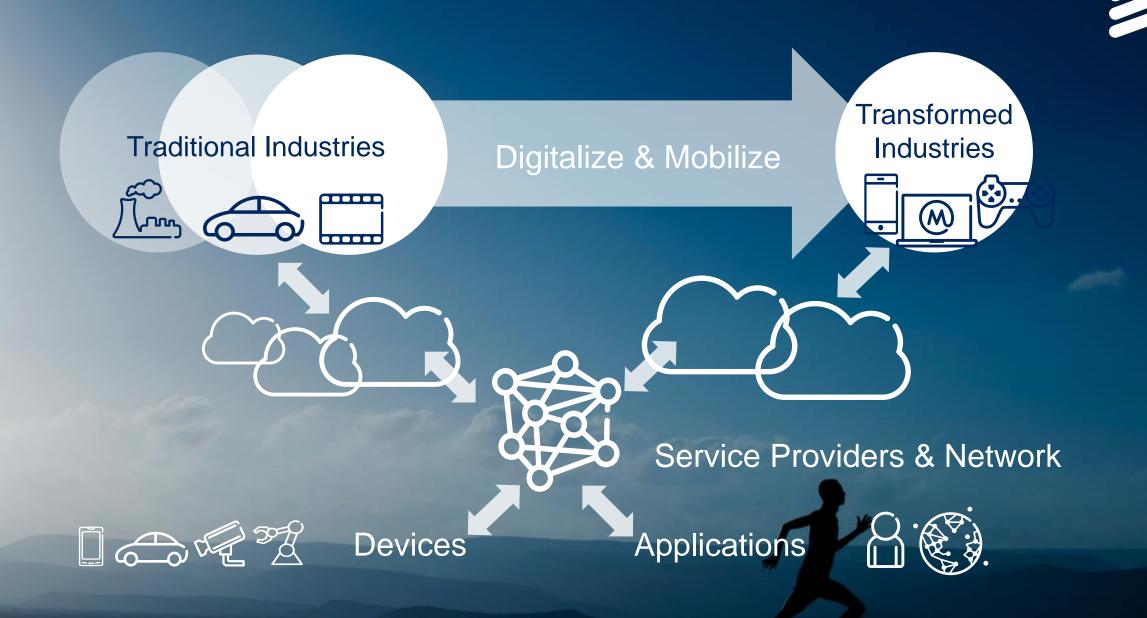


> Foundation for innovation

Ó

- > Broad application
- > Transforming society





### ERICSSON'S TRANSFORMATION

15 years

#### Business mix 1999 – 2014

34%

#### Services and software

66%

### INNOVATION FROM HW TO SW



Innovation in HW



#### Innovation in HW and SW



#### Innovation in SW

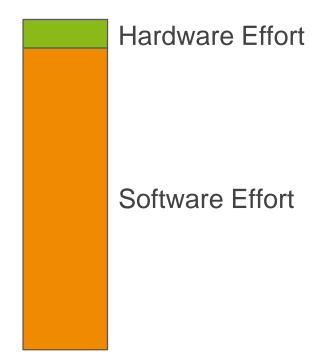
### THE IMPORTANCE OF SW



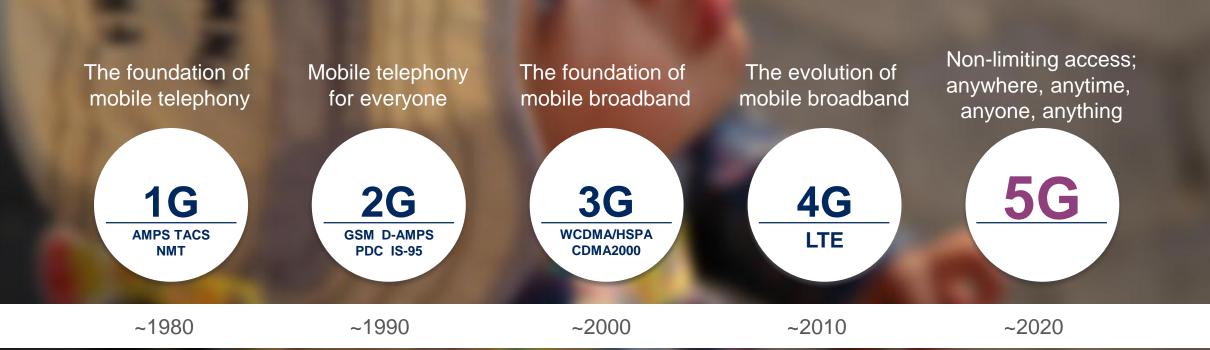
Software is, to a very large extent, the means to create the functionality we sell

There are about 10-15 software designers per hardware designer in Ericsson today





### WIRELESS ACCESS GENERATIONS









5 USE CASES



SMART VEHICLES, TRANSPORT



INFRASTRUCTURE, MONITOR AND CONTROL



CRITICAL CONTROL OF REMOTE DEVICES

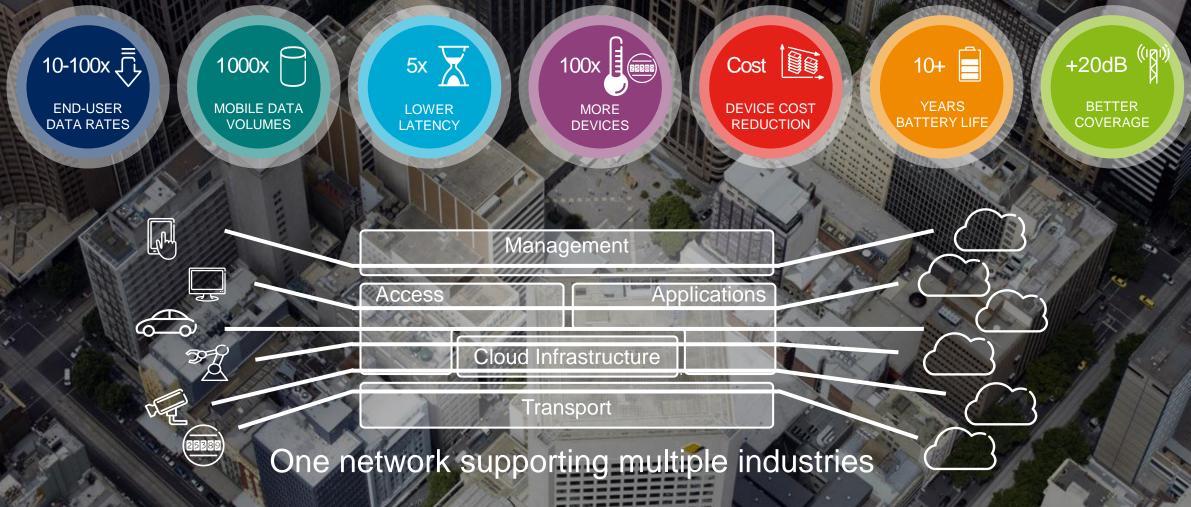


## ONE ARCHITECTURE-MULTIPLE INDUSTRIES 5G 0 A common network platform ..... enabling ICT transformation .....

#### ONE ARCHITECTURE-MULTIPLE INDUSTRIES P 5G Management & Orchestration & Analytics & Exposure Distributed Cloud Network Slicing Virtualization Software Defined Networking, SDN ((IßI)) VNF VNF + 0 A common network platform .....

enabling ICT transformation

### WHAT IS 5G – WHAT WILL IT BRING A Network for the Networked Society



Sara Mazur | Ericsson Internal | Stockholm, Jan 14, 2016 | Page 14

### MACHINE TYPE COMMUNICATION

#### **Massive MTC**

Low cost Low energy Small data volumes Massive numbers Long ranges



#### **Critical MTC**

Ultra reliable Very low latency Very high availability





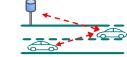


Sensors, actuators

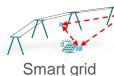




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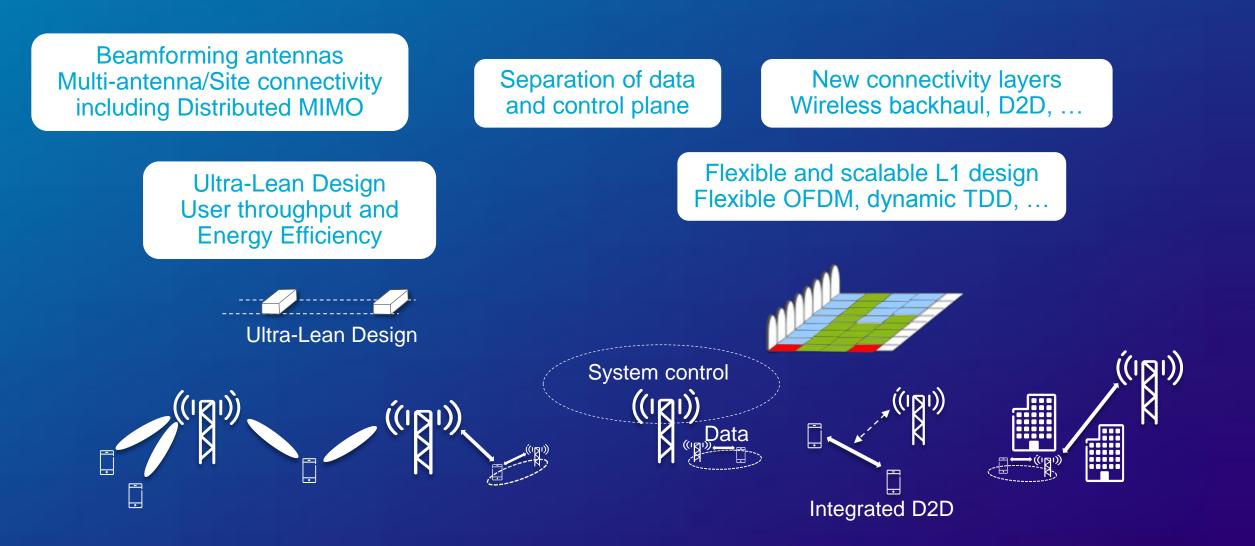
Traffic safety & control





Industrial applications

### **5G RADIO ACCESS TECHNOLOGIES**



2

### IMPORTANT SOFTWARE TECHNOLOGY AREAS

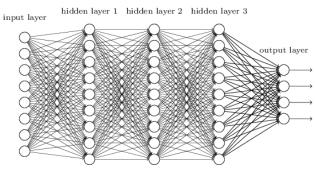




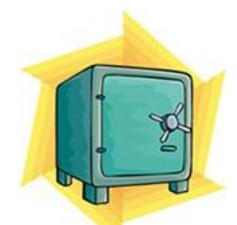
Automatic Fault Diagnosis and Treatment



Data Driven Approach and Machine Learning



Future Programming Technology

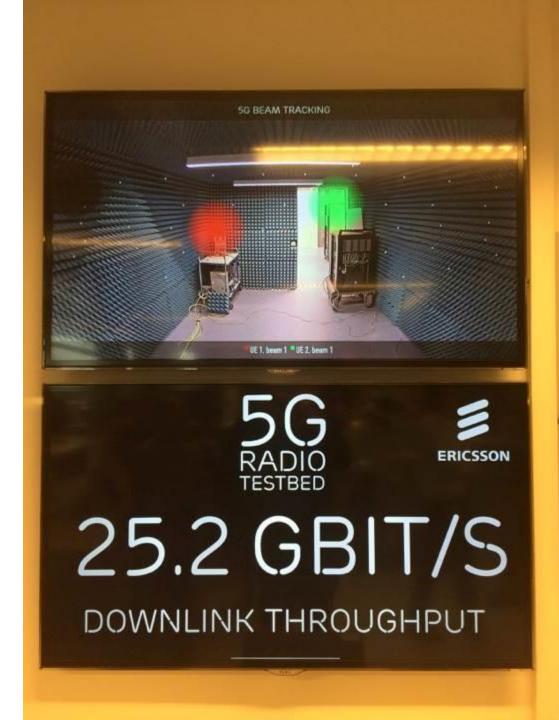


Vulnerability Containment for Secure and Safe Software



Cloud Optimized Virtual Network Functions

### ERICSSON TEST-BED SHOWN AT MWC 2016



# 5G FOR INDUSTRIES

#### AUTOMOTIVE AND TRANSPORT

MANUFACTURING



PROCESS INDUSTRY



SAFETY/SECURITY

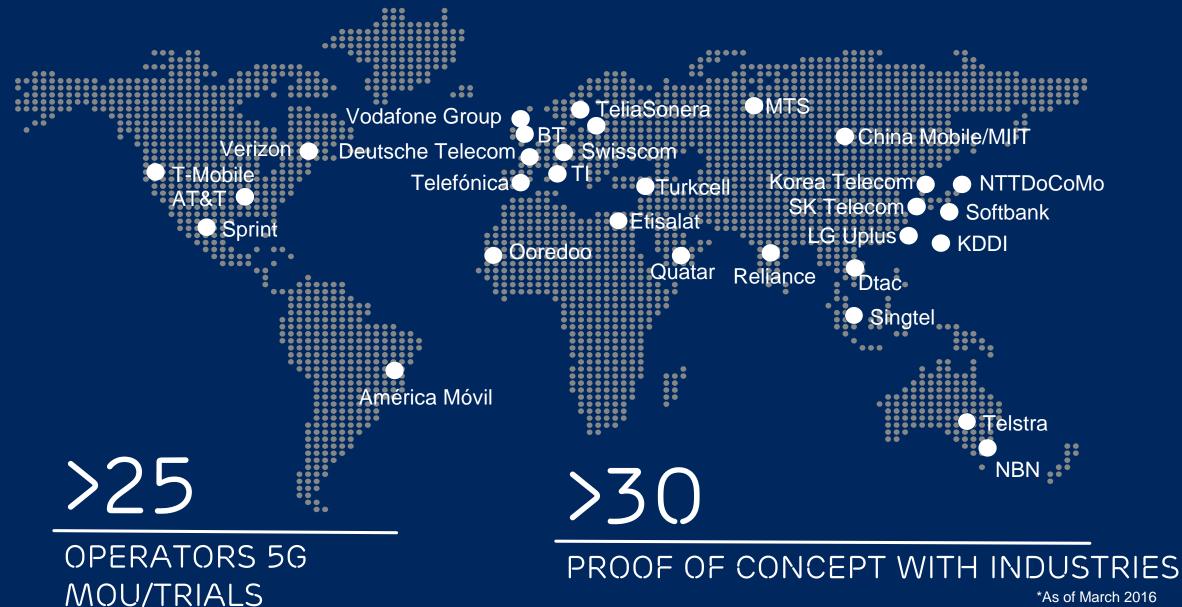




ENERGY AND UTILITIES

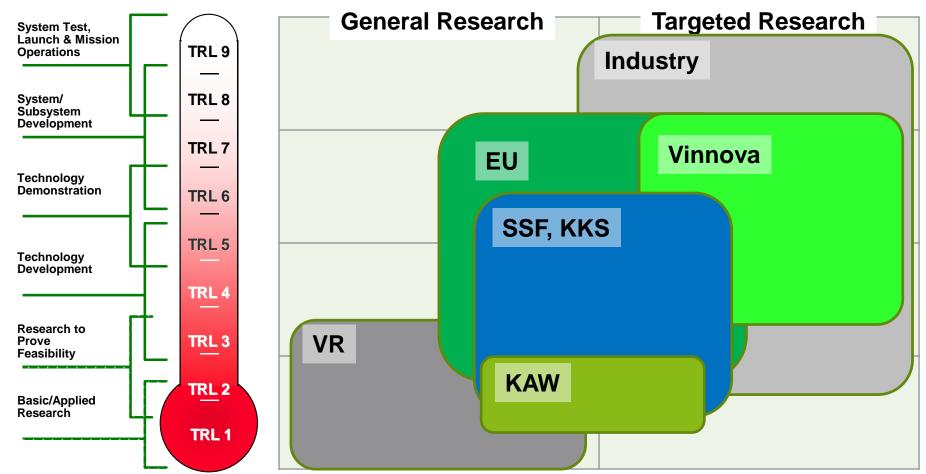


### OPERATOR PARTNERS ALL CONTINENTS



\*As of March 2016

### WE NEED TO ACT FOR AN INCREASE OF RESEARCH AND EDUCATION IN SOFTWARE INTENSE SYSTEMS



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# ERICSSON