

DIGITALIZATION OF THE SUPPLY CHAIN

FROM RESEARCH TO THE FACTORY

Bo Gunnarsson Group Supply, Ericsson AB







IN 2021

28 BILLION



13 BILLION
MOBILE PHONES, PCs, LAPTOPS, TABLETS

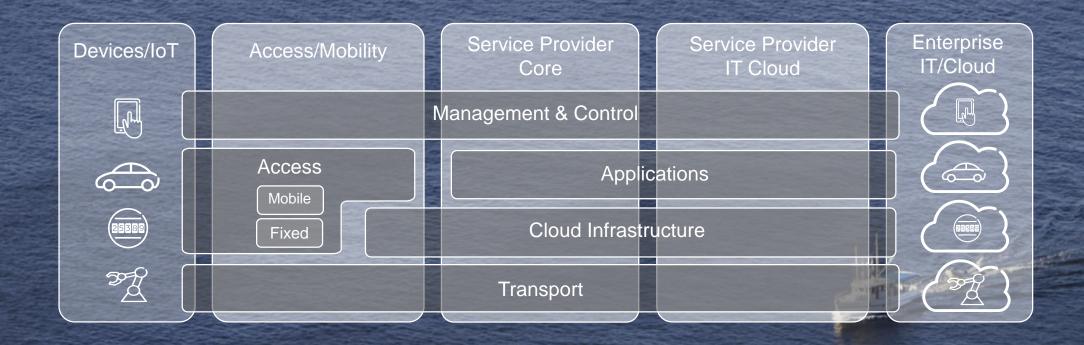


15 BILLION IOT DEVICES



COMMON 5G PLATFORM





ONE NETWORK WITH DYNAMIC 3 AND SECURE NETWORK SLICES

NETWORK SLICING THE BASIS



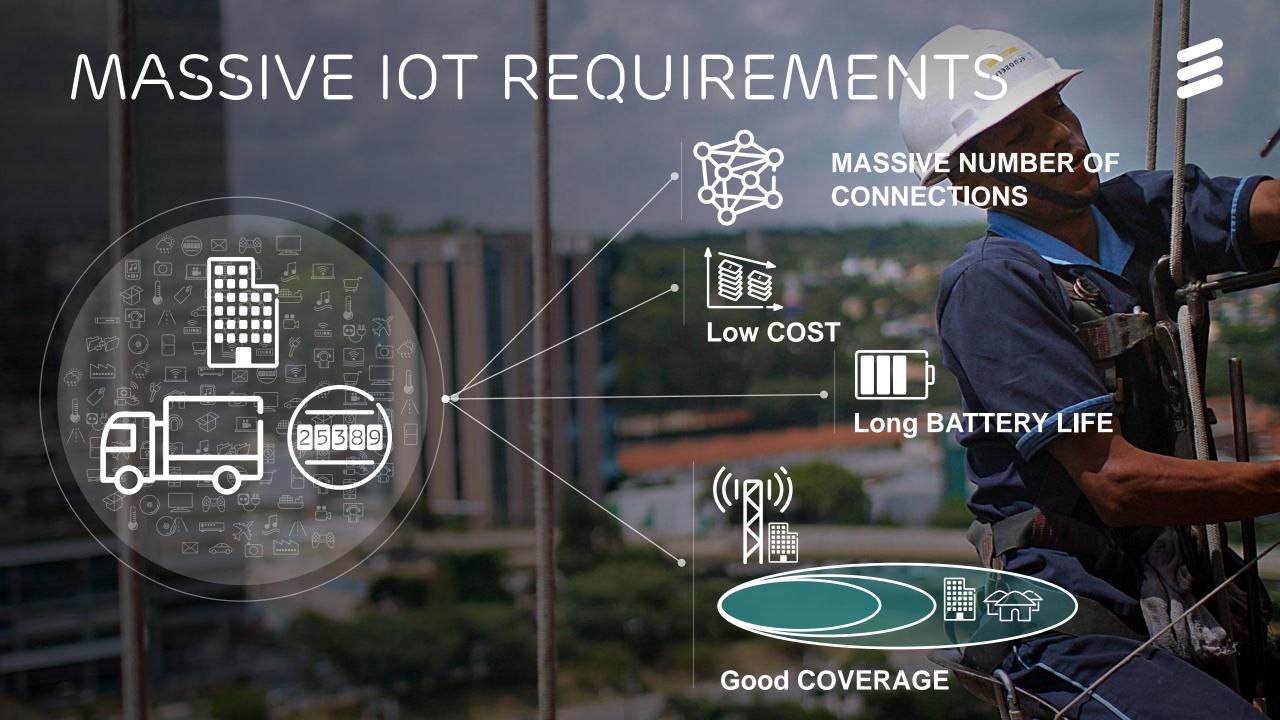
Due to large span of characteristics



10-100X
Connected Devices

10X Battery Life 5X Lower Latency

10-100X End-user Data Rates 1000X Mobile Data Volumes



FULL RANGE OF IOT/MTC SOLUTIONS

Standardized in 3GPP rel 13

EC-GSM-IoT

Evolution of GSM

Ultra-low bitrate applications

Cat-M1

Scaled down LTE

Low to medium bitrate applications

NB-IoT

New 200KHz carrier

Ultra low-bitrate applications

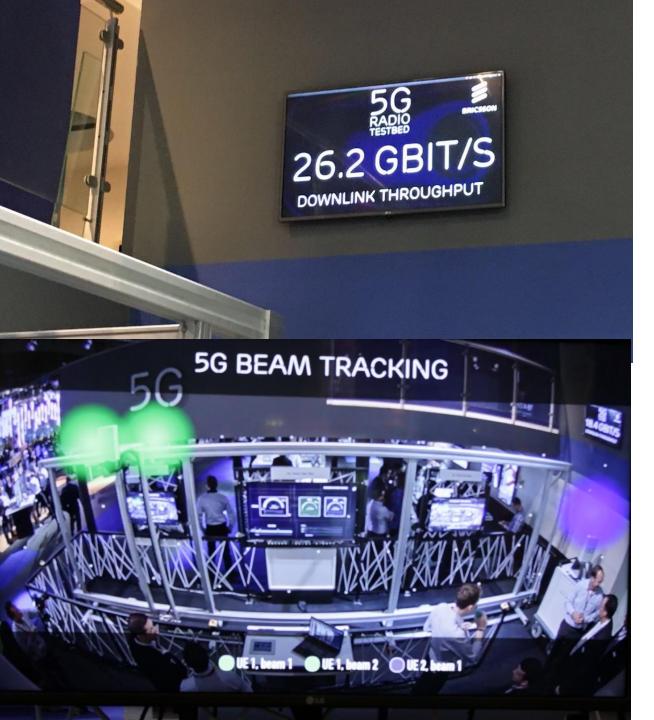


OUT OF THE LAB

3

5G enters a new phase





2016 MWC 5G DEMO



> Key achievements

- MU-MIMO & Massive MIMO
- Beamforming & Beam tracking
- 256 radio chain & 512 antenna elements per site
- 8 spatial streams per site
- Over 25Gbps peak downlink throughput

INDUSTRY COLLABORATIONS









5G for Sweden

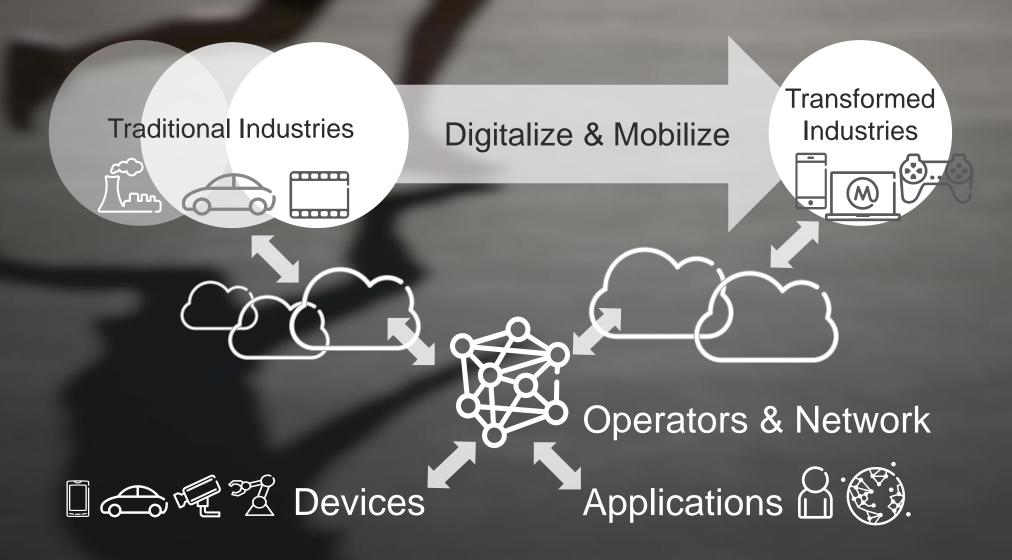
- 5G program with industry and academic partners, including Volvo, Boliden, SICS, Scania, Saab, SKF
- Apply ICT in industrial processes, products & services
- Pilot for industrial mobile communication in mining

5G for Europe

- Delivering research, innovation and industrial pilots enabled by 5G
- Including transport and automotive, IoT, utilities, public safety, public infrastructure and retail – Zuchetti, Weiss Robotics, and more.
- 7 countries and 10 institutions

INDUSTRY TRANSFORMATION





FROM RESEARCH TO MASSIVE SCALE



Managing Billions of Devices

Cellular NW
Capillary NW

ID/Security Addressing Automation

Market view MWC

Studies &

Proof of

Concepts

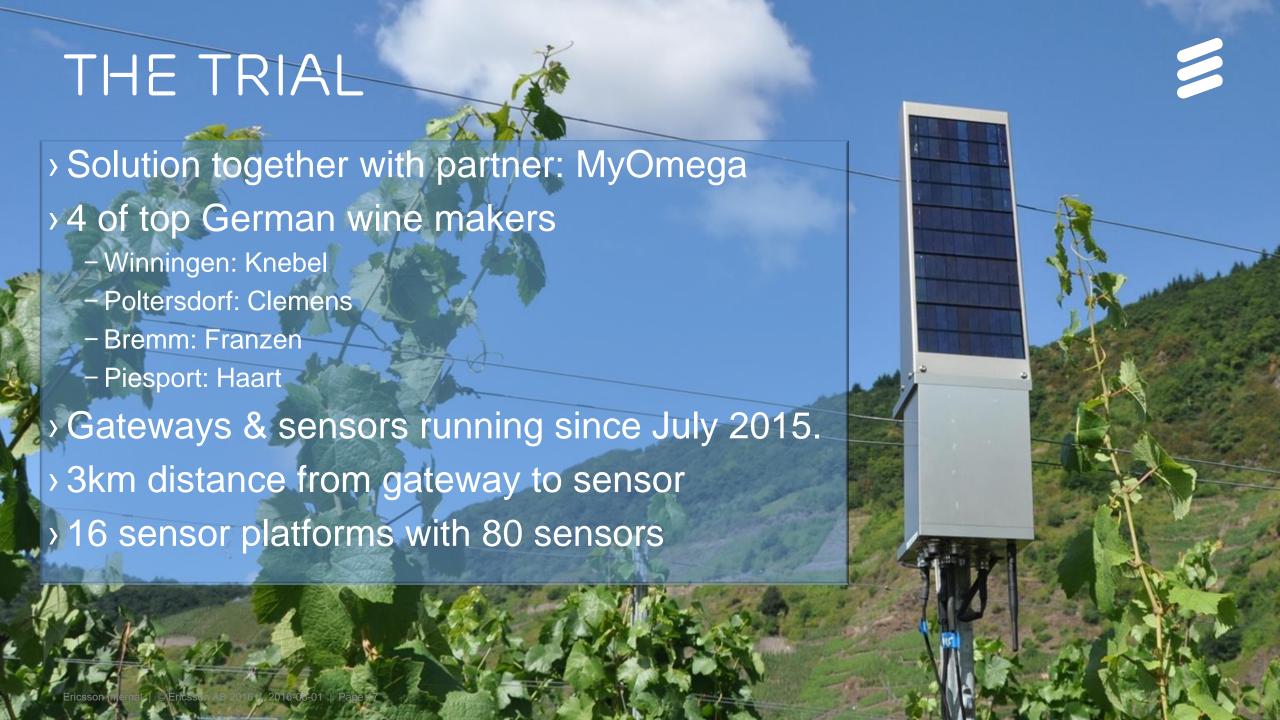
FIELD Trial Connected Vineyards

FIELD Trial ERICSSON FACTORY

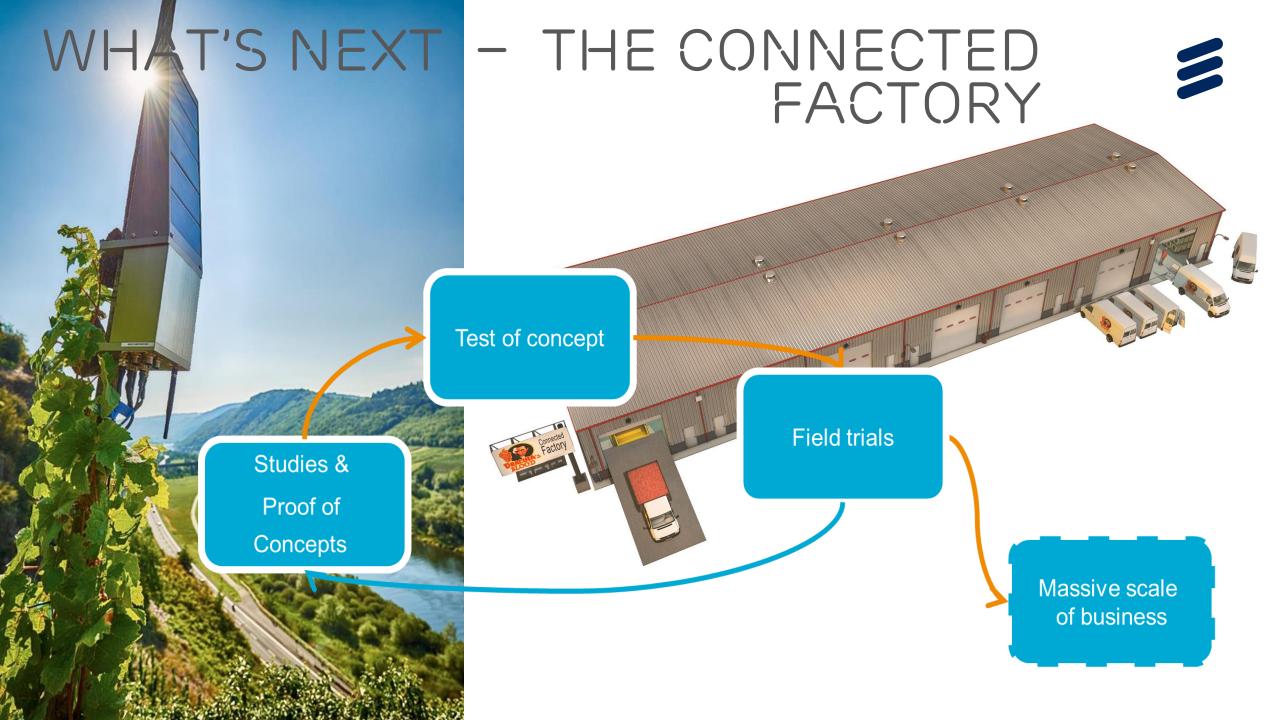
GLOBAL PRECISION AGRICULTURE

MASSIVE SCALE

IN INDUSTRY









THE NETWORKED SOCIETY



ERICSSON