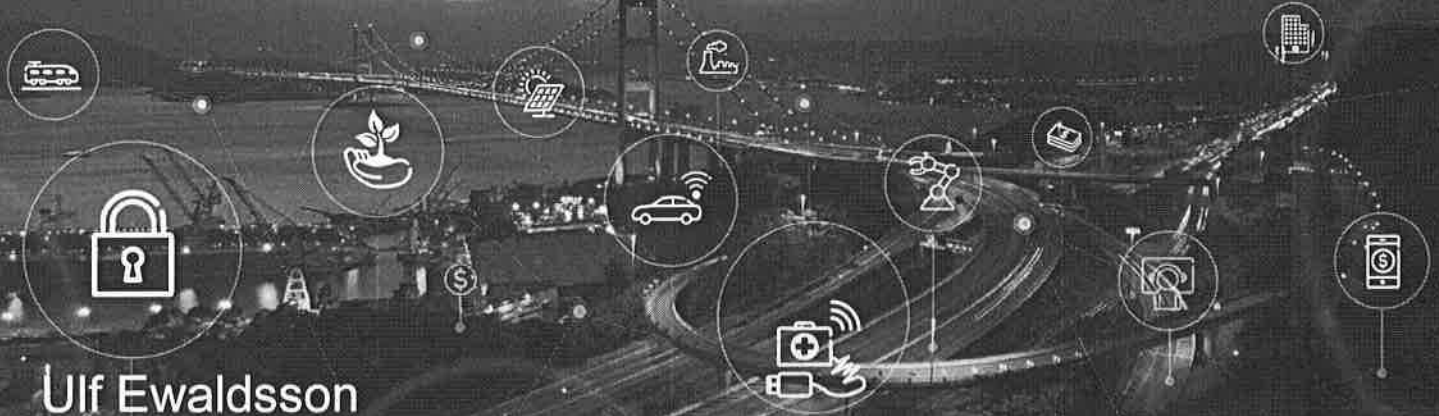


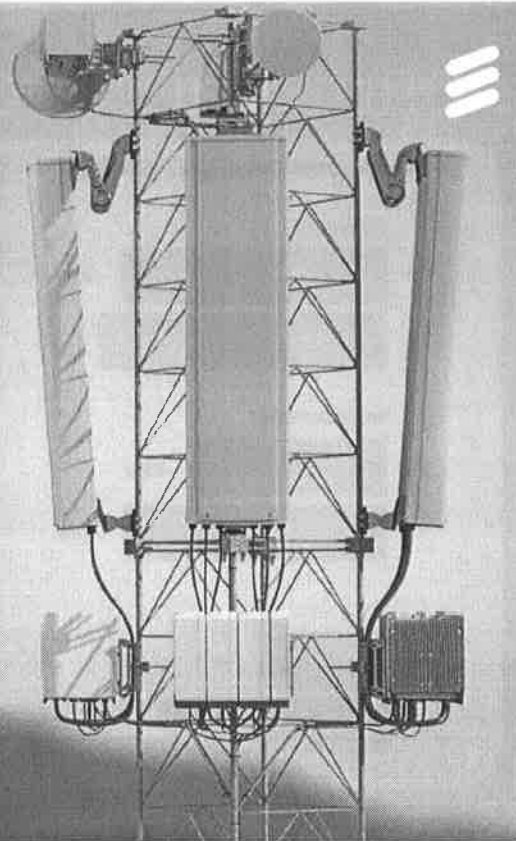
PAVING THE WAY FOR 5G

OPPORTUNITIES BEYOND SMARTPHONES



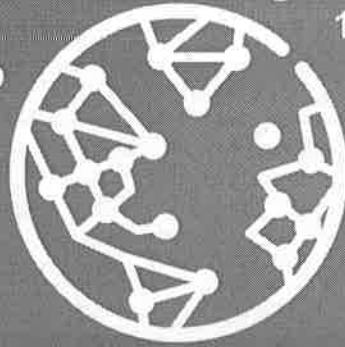
Ulf Ewaldsson
Sr Vice President & CTO

>400 SERVICE PROVIDERS | ONE NETWORK



2021

10X data Traffic
90% pop coverage of MBB
75% LTE pop coverage

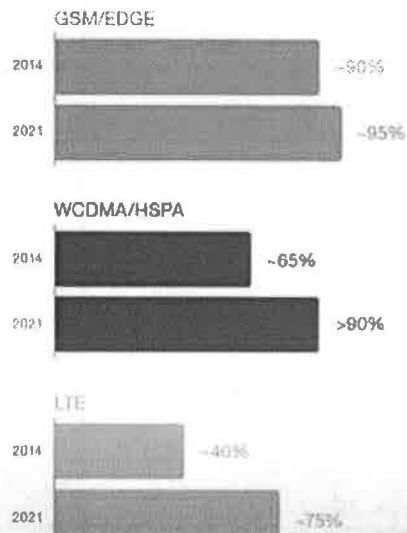


9.1 Billion Mobile Subscriptions
90% Mobile Broadband
150 Million 5G Subscriptions

28 Billion
Connected Devices

POPULATION COVERAGE

World population coverage by technology*



- Around 90% of world's population covered by WCDMA/HSPA in 2021
- More than 75% of world's population covered by LTE in 2021



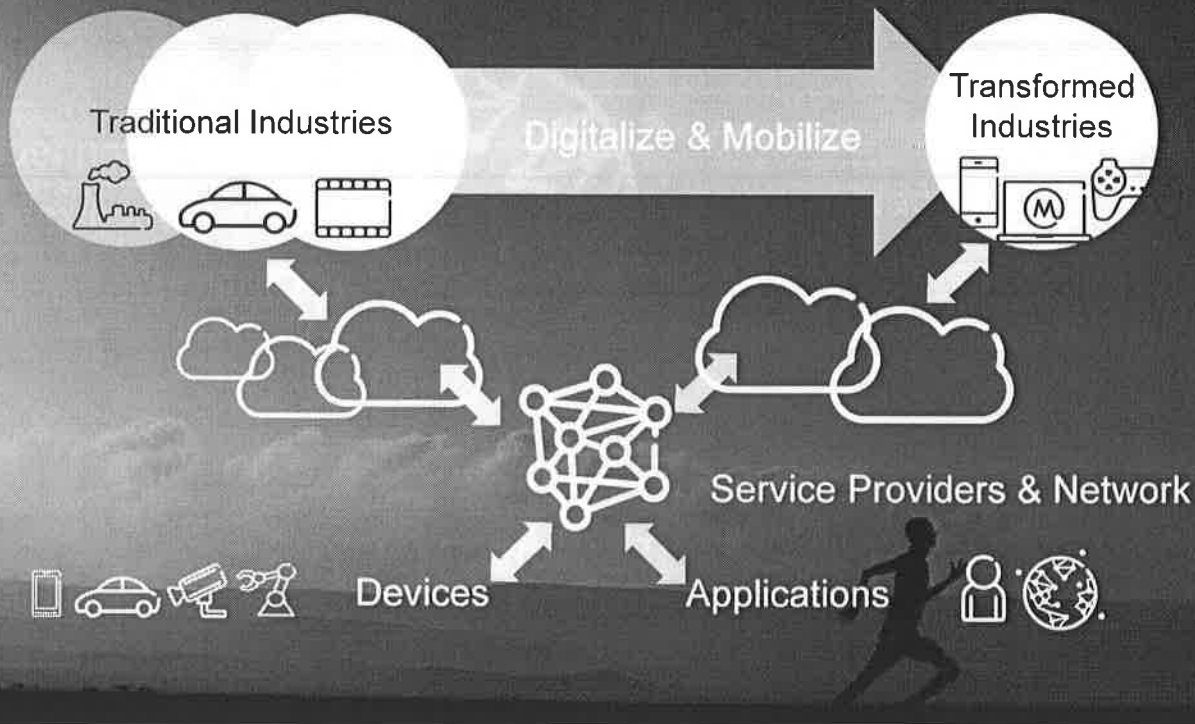
Telecom, Datacom & Mediacom

TECHNOLOGY
TRENDS

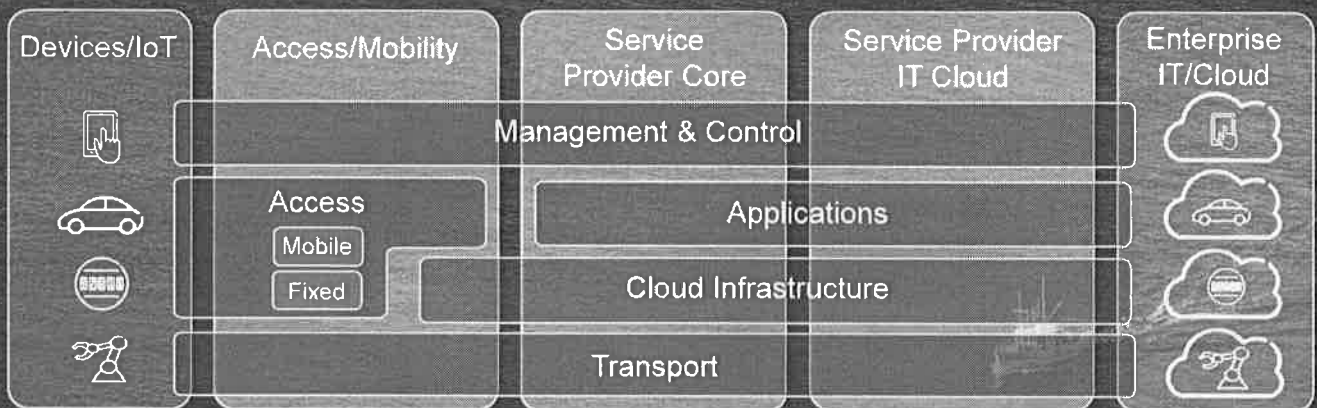
SPECTRUM APPROACH

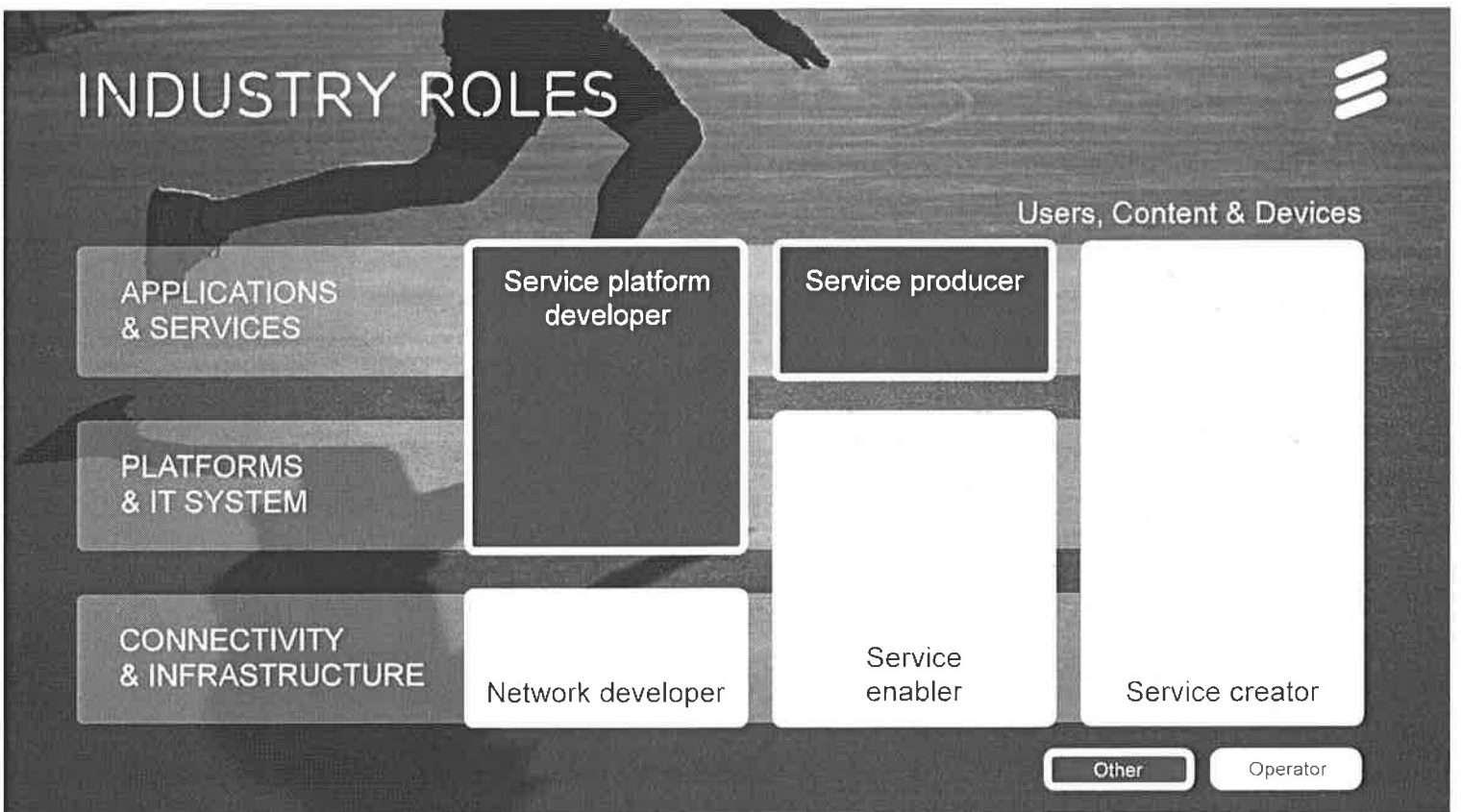
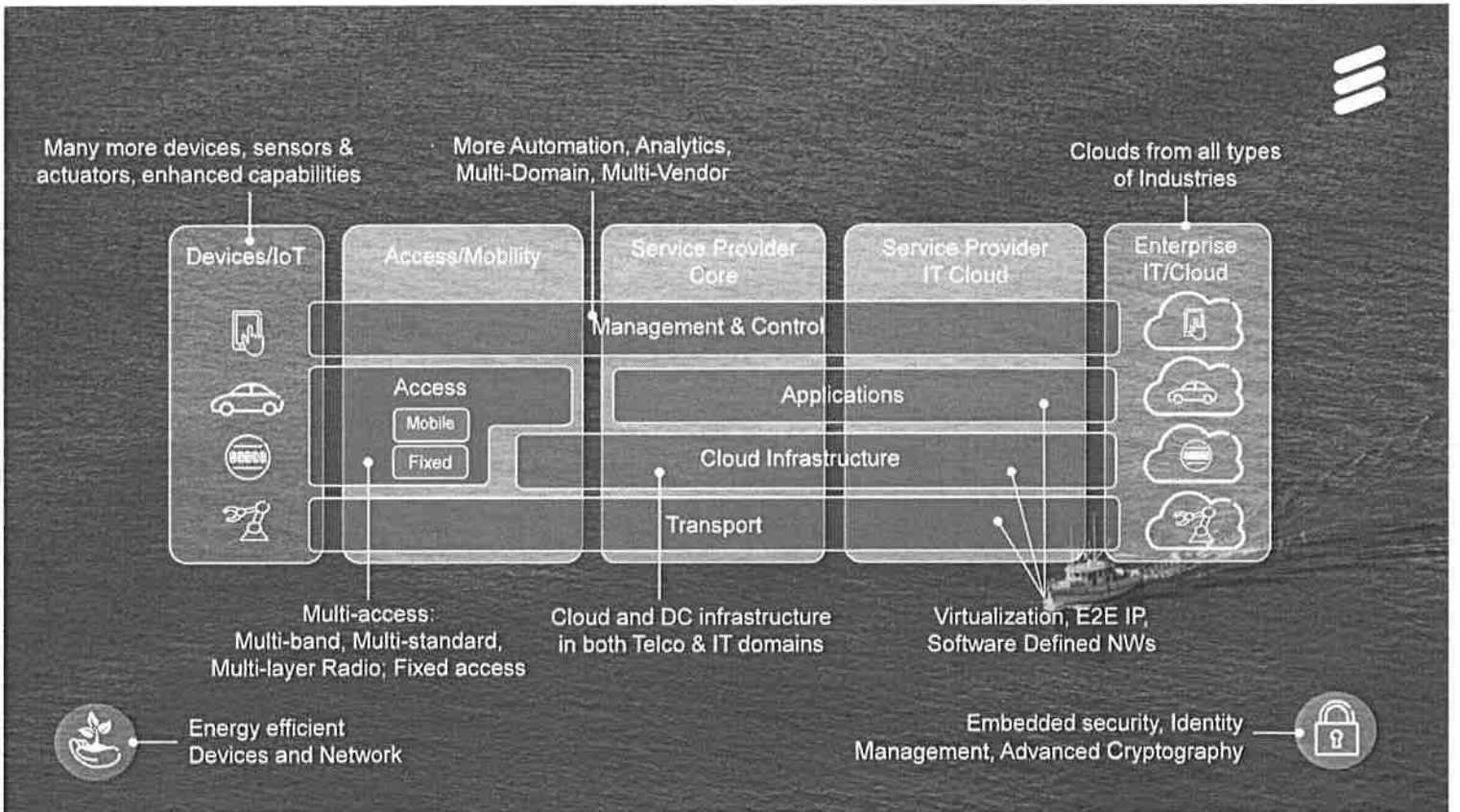


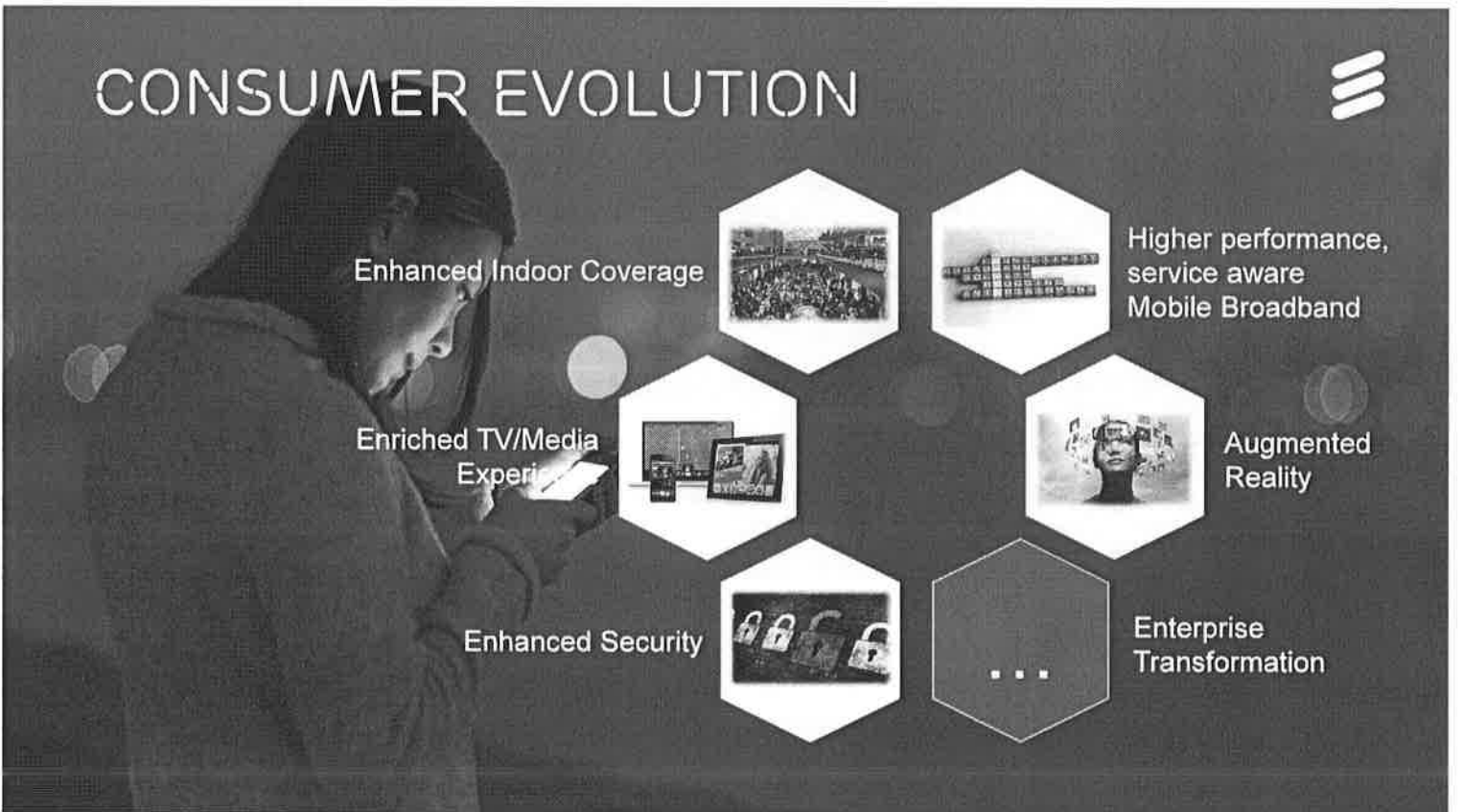
- › Global & regional harmonization of spectrum is key
- › More licensed spectrum bands to be added
- › Capacity and Coverage considerations for bands eg. LTE-A vs NB-IoT
- › Complement licensed (anchor) with unlicensed bands eg. LAA
- › Bring 3GPP radio technology into unlicensed bands eg. MuLTEfire
- › Multi access connectivity across 3GPP & Non-3GPP
- › Performance (Interference, capacity, coverage etc) key driver
- › Device ecosystem influences deployment



EVOLUTION OF THE CONVERGED NETWORK







MACHINE TYPE COMMUNICATIONS



Critical Communications

Massive Communications

Extreme availability

<5ms e2e delay
99.999% transmission reliability
500Kmph relative velocity

>10yrs battery lifetime
>80% cost reduction
20dB better coverage

Scalability and flexibility



Intelligent Transport Systems



Connected Sensors

Autonomous Cars

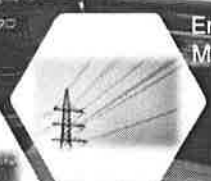
Energy Meters



Process Control



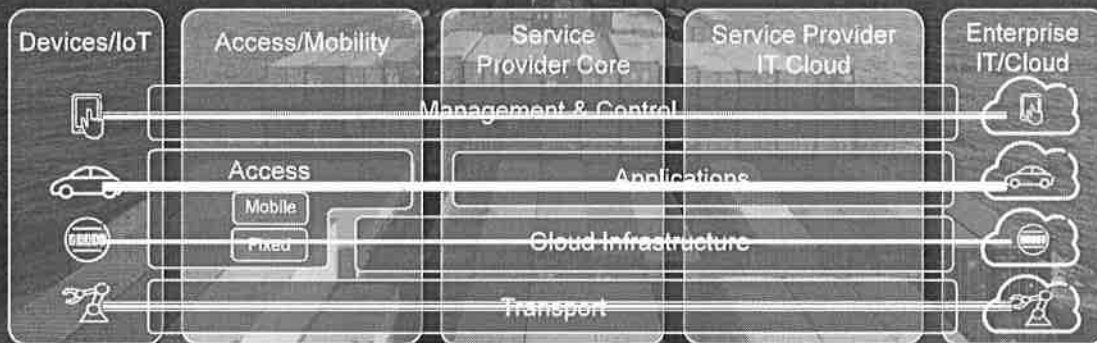
Logistics Tracking



ONE ARCHITECTURE MULTIPLE INDUSTRIES



1000X
5X Lower Latency Mobile Data Volumes 10X Battery Life
10-100X End-user Data Rates 10-100X Connected Devices

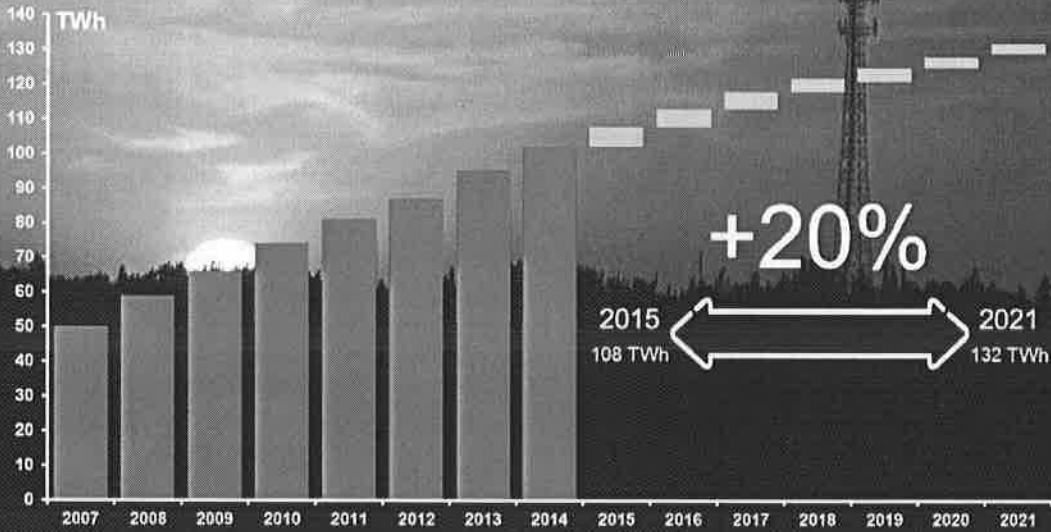


5G



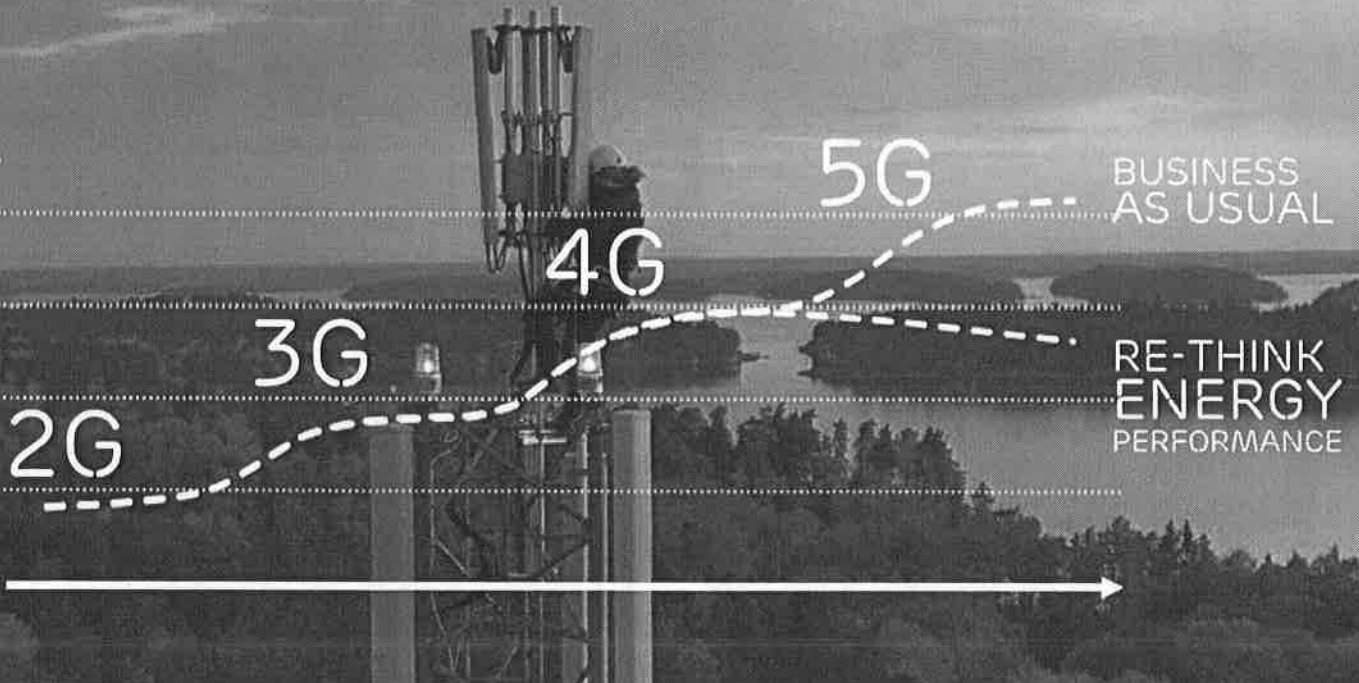
MOBILE ACCESS NETWORKS

GLOBAL ELECTRICITY CONSUMPTION TREND

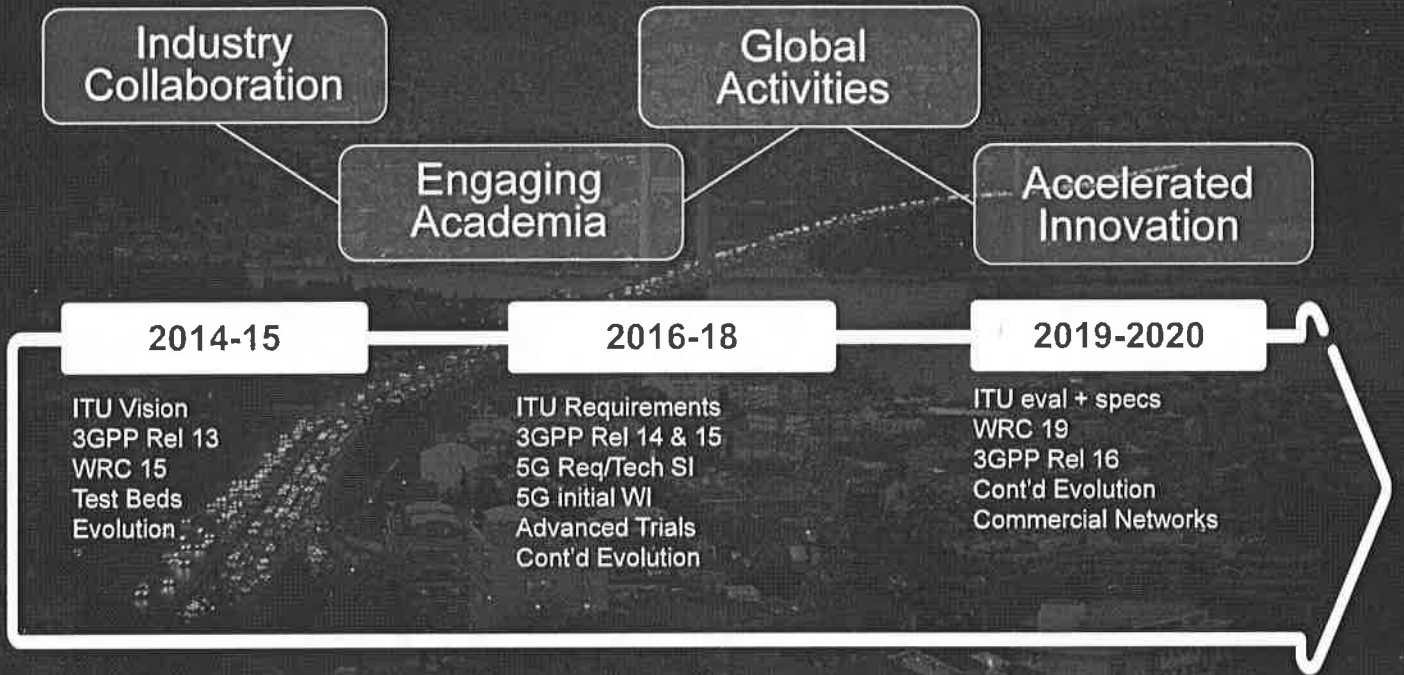


CHANGING THE TREND

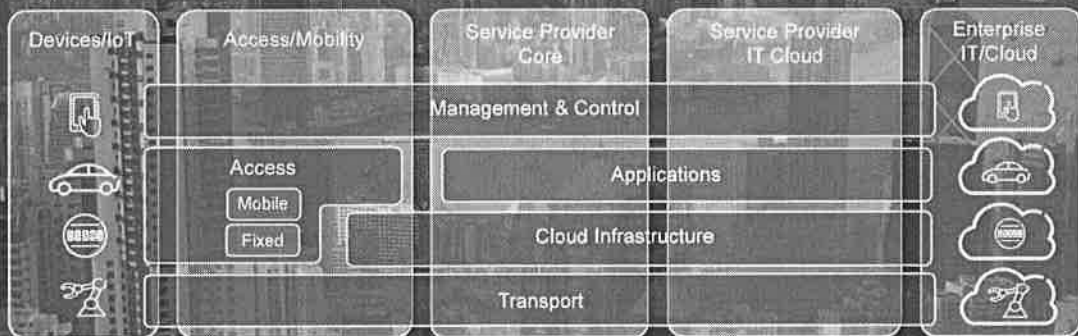
ENERGY GROWTH



THE ROAD TO 5G



STANDARDIZATION LANDSCAPE



ERICSSON STANDARDIZATION INITIATIVES TO ALIGN THE INDUSTRY



Research Initiatives

METIS I+II, mmMagic, Xhaul, Flex5Gware, 5GEx

Industry Alignment

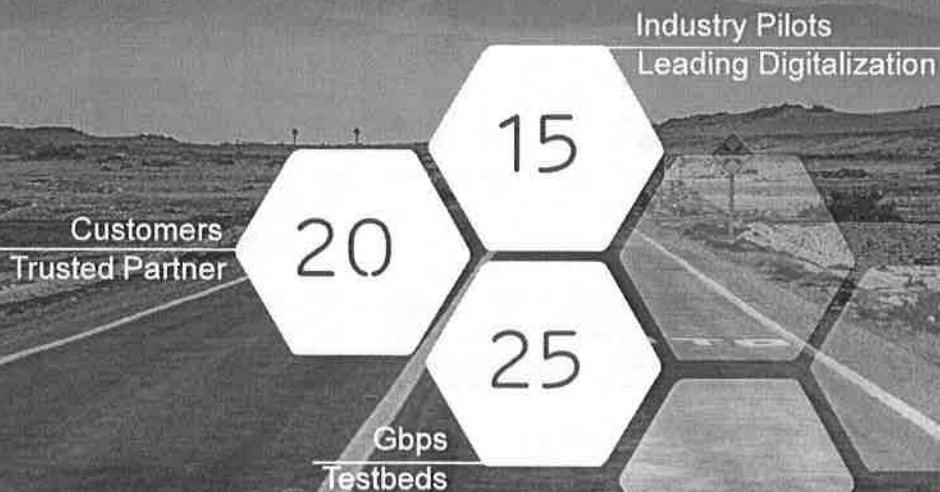
Industry alignment of 5G requirements



Timeplan Agreement

Alignment & availability of specifications and products

BUILDING THE 5G ECOSYSTEM



NEW PERSPECTIVES



Expanded
Community

Industry Partners
Multi-stakeholder
Academia, PPP

M2M, OMA, IPSO, IIC
3GPP, IETF
ETSI/NFV, Openstack

Standards, Alliances,
Open Source

Accelerated
Innovation

Programmability
Automation & Analytics
Open Data & Exposure

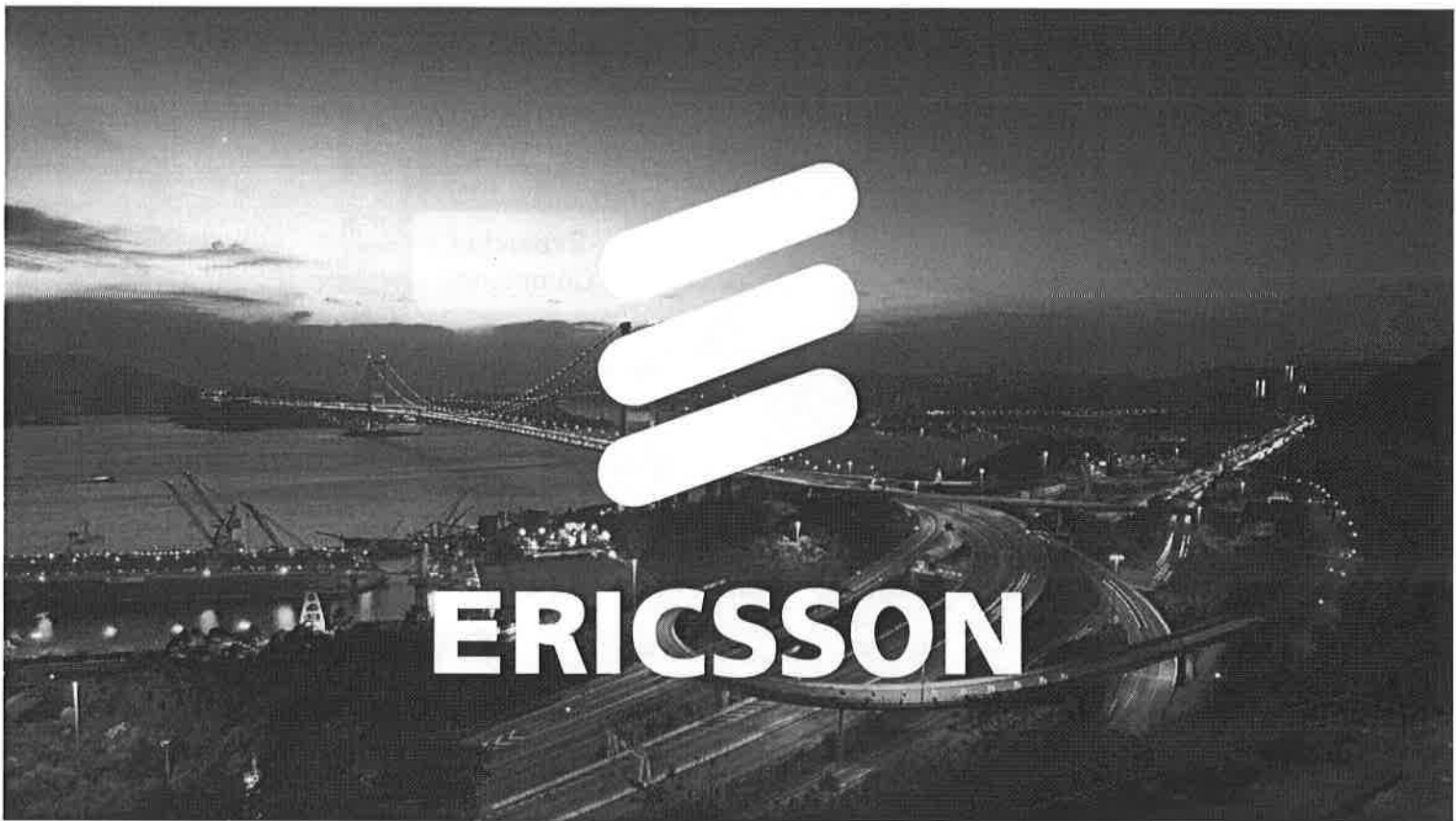
5G IS HERE. TODAY



1. On the road to 5G
2. 5G for Industries
3. 5G for Automotive
4. 5G Media Delivery
5. 5G Programmable Transport
6. Smart IoT development
IoT Networking
7. Radio testbed with
beamforming
8. Licensing for Innovation



Ericsson Research Demos in Hall 2



WELCOME TO STOCKHOLM JUNE 27-28, 2016



› Broadband for all Event


- Seminar
- Private meetings with the Swedish regulator PTS
- Technology briefings with Ericsson experts

› Governments & Regulators only

› 2015 the seminar gathered 88 delegates from 25 countries worldwide

Broadband for all


- fundamental for the transformation of our society



Seminar
June 27-28, 2016
Stockholm

Location
The Swedish Academy of Engineering Sciences, Svea Tingsgatan 16, Stockholm

With contributions from the following countries:



- Policy empowering digital transformation - Why should countries strive to master the core competencies of the 21st century?
- How will policy and regulation need to evolve to support the ICT-enabled transformation of the transport & vehicle sectors?
- Will the expected results from WRC-15 be sufficient to meet the traffic expansion of mobile broadband until the introduction of 5G after 2020?
- In 2014, the seminar gathered 78 Government & Regulator representatives from 34 countries on all continents.

AGENDA



09:30 Morning coffee

10:00 Welcome – Ulf Pehrsson, VP Government and Industry Relations

Panel on digitization

Mehmet Kaplan, Minister for IT, Sweden

Samia Melhem, Lead Policy Officer, World Bank

Networked Society trends

Erik Kruse, Head of Networked Society Lab

Technology trends

Ulf Ewaldsson, Sr Vice President and CTO

12:00 Lunch served in this room

13:30 End of meeting



NETWORKED SOCIETY & TECHNOLOGY TRENDS



The Ericsson Seminar for Governments & Regulators
Wednesday 24 February 2016



WELCOME TO STOCKHOLM JUNE 27-28, 2016




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- How will policy and regulation need to evolve to support the ICT-enabled transformation of the transport & vehicle sectors?
- Will the expected results from WRC-15 be sufficient to meet the 2016 expansion of mobile broadband until the introduction of 4G after 2020?
- In 2014, the seminar gathered 73 Government & Regulator representatives from 34 countries on all continents.

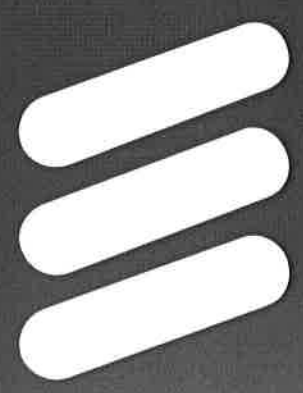
Location
Royal Swedish Academy of Engineering
Sveavägen 15
111 34 Stockholm

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LET'S TURN
GREAT IDEAS
INTO GLOBAL
REALITIES



ERICSSON



