
5G AS AN INNOVATION PLATFORM

June 28 2017 – Net Futures 2017

Erik Ekudden, Group CTO, Ericsson



ERICSSON MOBILITY REPORT

5 YEAR INDUSTRY OUTLOOK



OVER ONE MILLION NEW MOBILE INTERNET USERS ADDED EVERY DAY



4G WILL BE THE DOMINANT ACCESS TECHNOLOGY GLOBALLY BY 2018



TOTAL MOBILE DATA TRAFFIC GREW BY 70% BETWEEN Q1 2016 AND Q1 2017

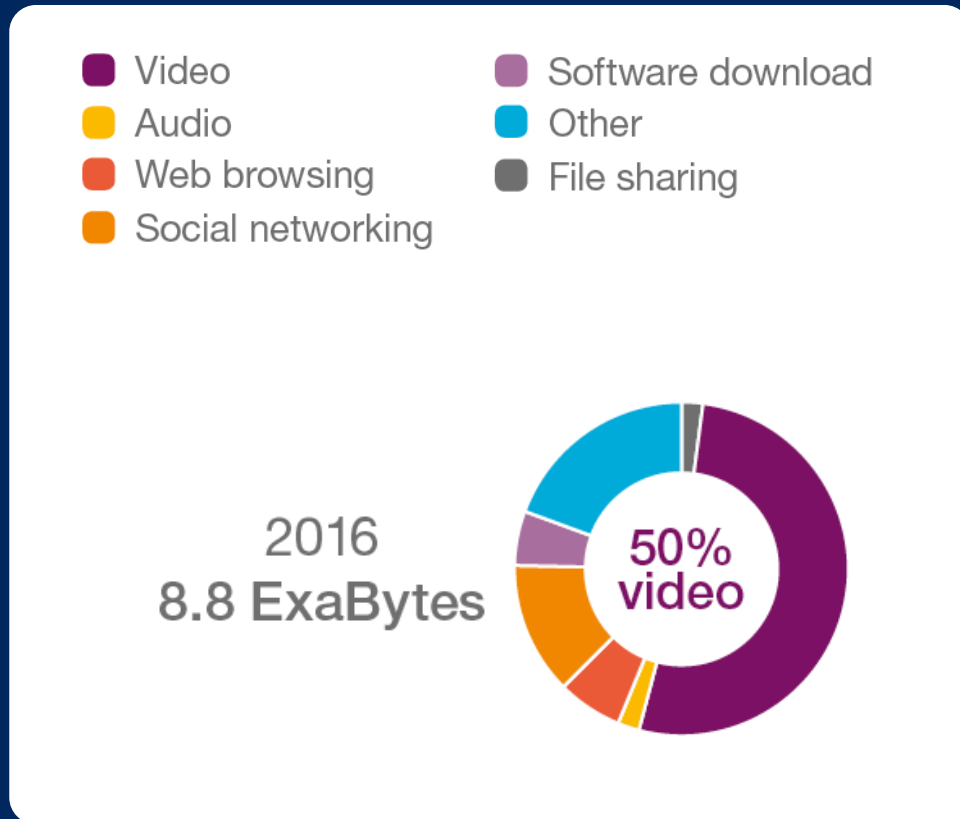
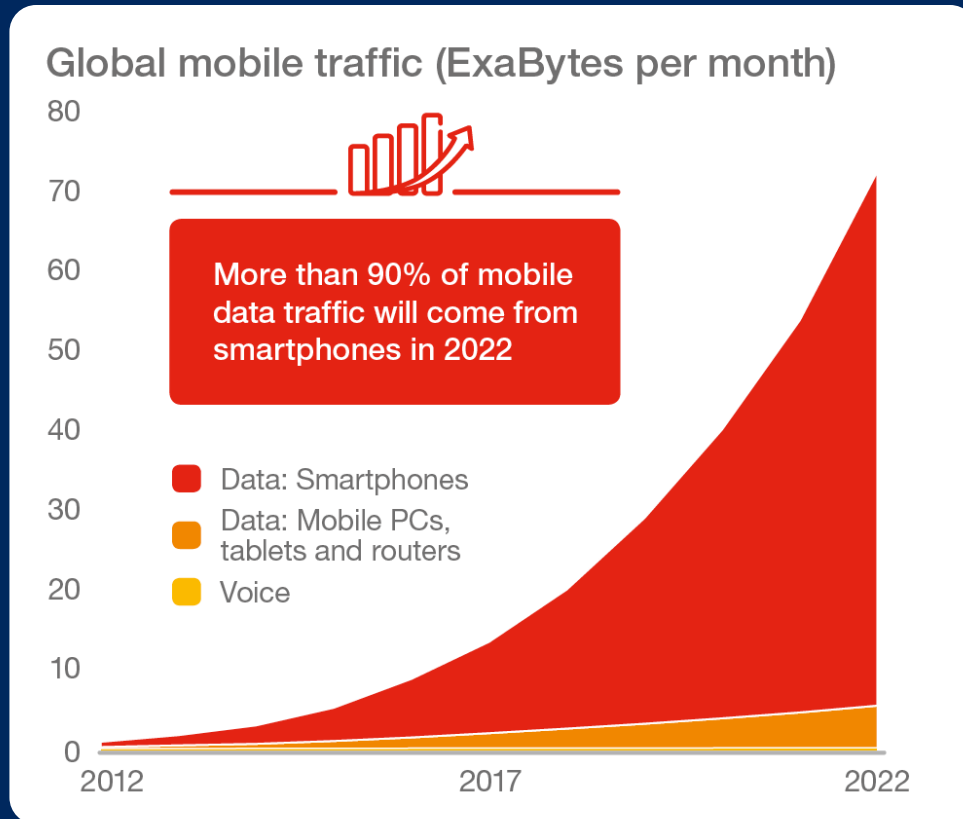


VOLTE SUBSCRIPTIONS TO REACH 4.6 BILLION BY 2022 – 90% OF ALL LTE SUBS



THERE WILL BE HALF A BILLION 5G SUBSCRIPTIONS GLOBALLY BY 2022

SMARTPHONE GROWTH CONTINUES

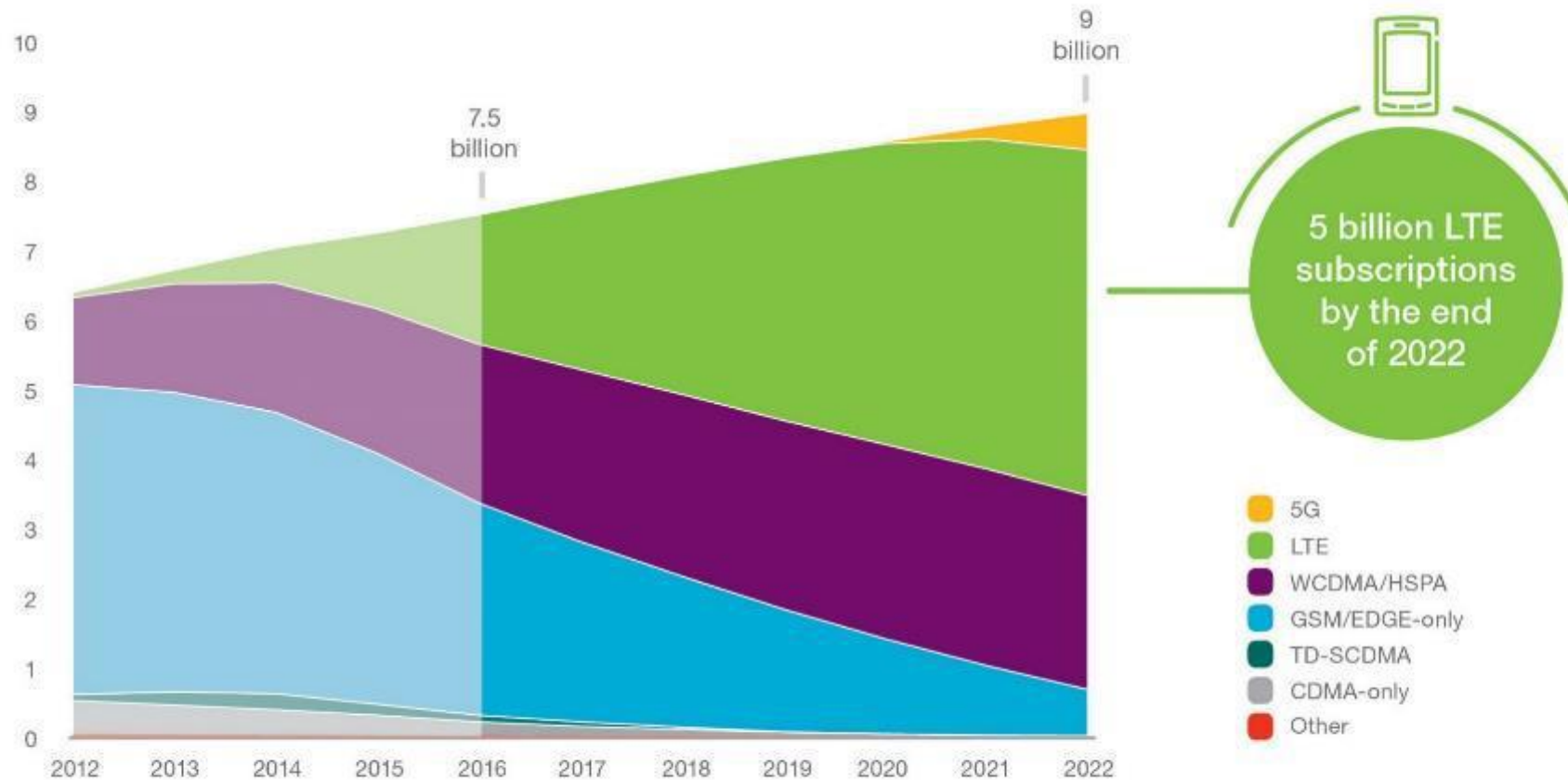


- Total mobile data traffic will increase 8 times – exceeding 70 EB/month in 2022
- Smartphone traffic will increase 9 times – reaching 66 EB/month in 2022
- In 2022, video will account for around 75% of mobile data traffic

SUBSCRIPTIONS BY TECHNOLOGY



Mobile subscriptions by technology (billion)



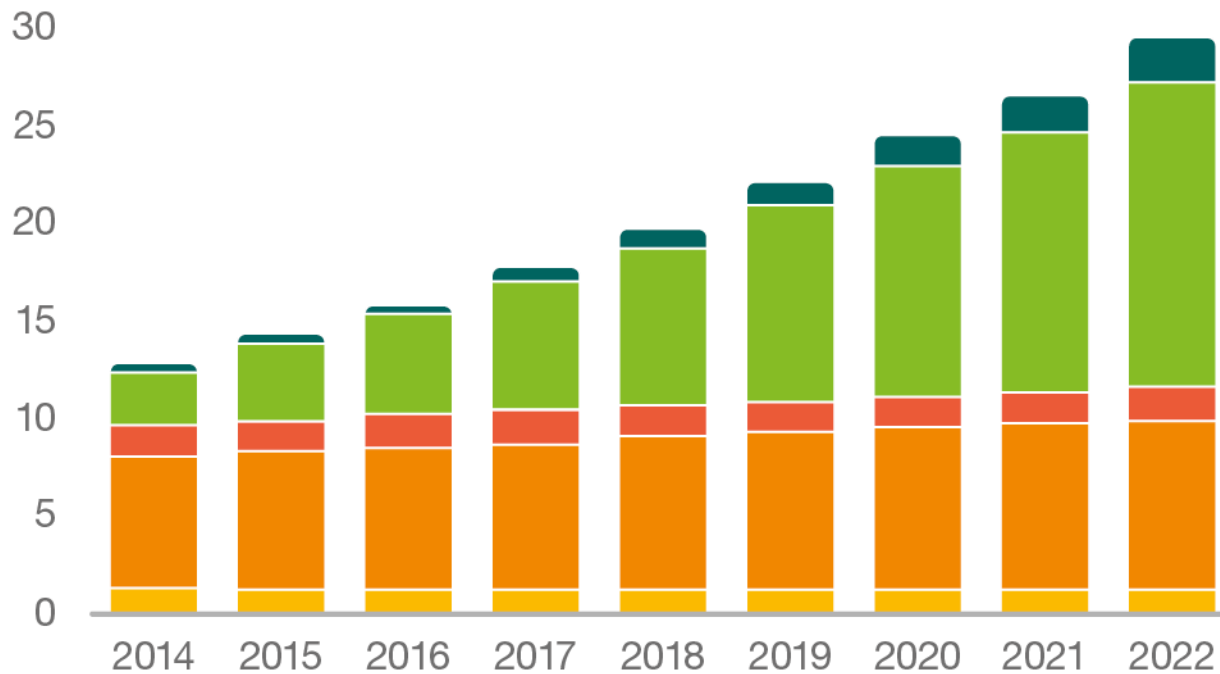
5G subscriptions will exceed half a billion by the end of 2022

Figure note: IoT connections and Fixed Wireless Access (FWA) subscriptions are not included in the above graph

TOWARDS AN IOT-DOMINATED WORLD

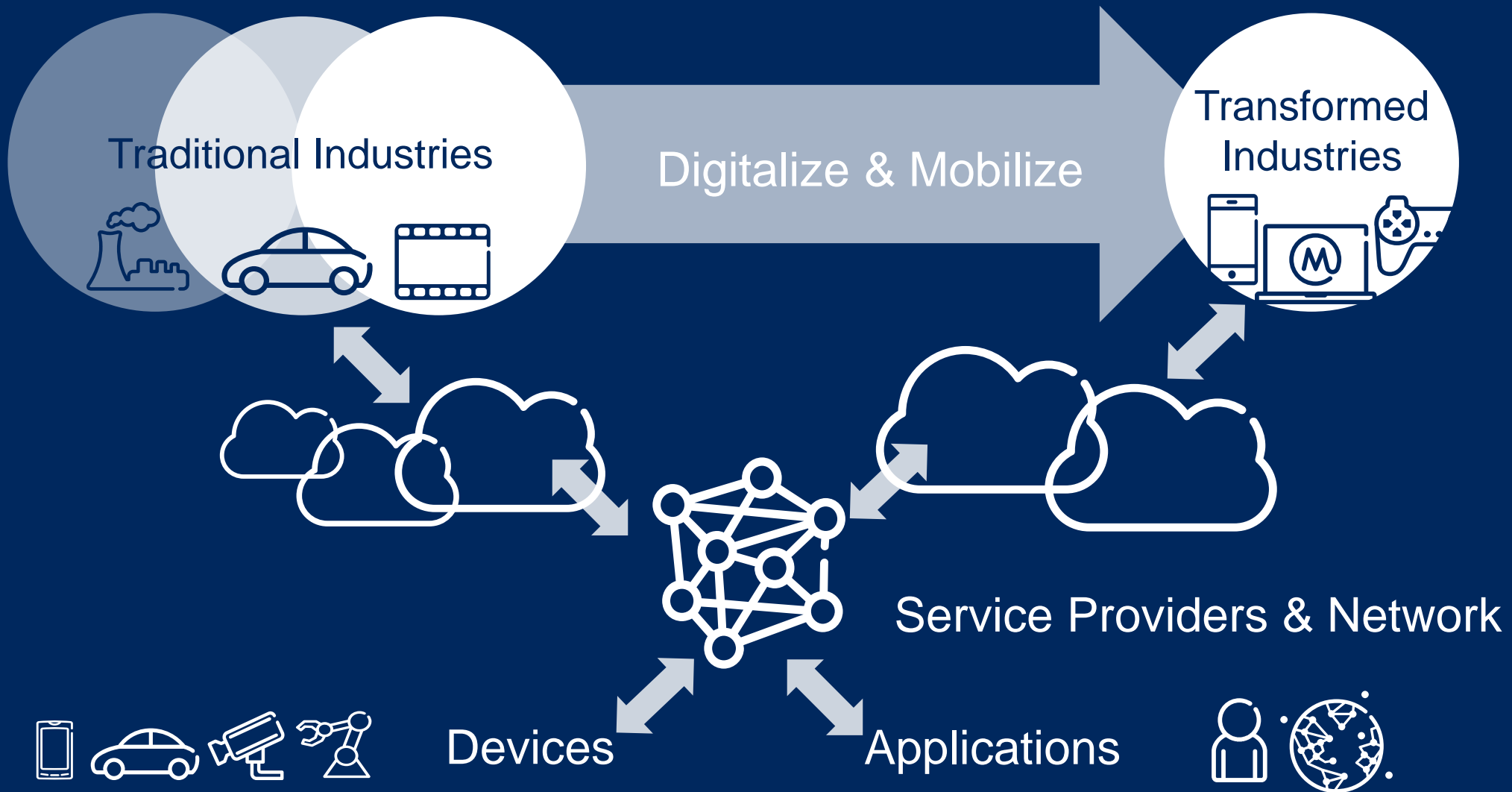


Connected devices (billions)

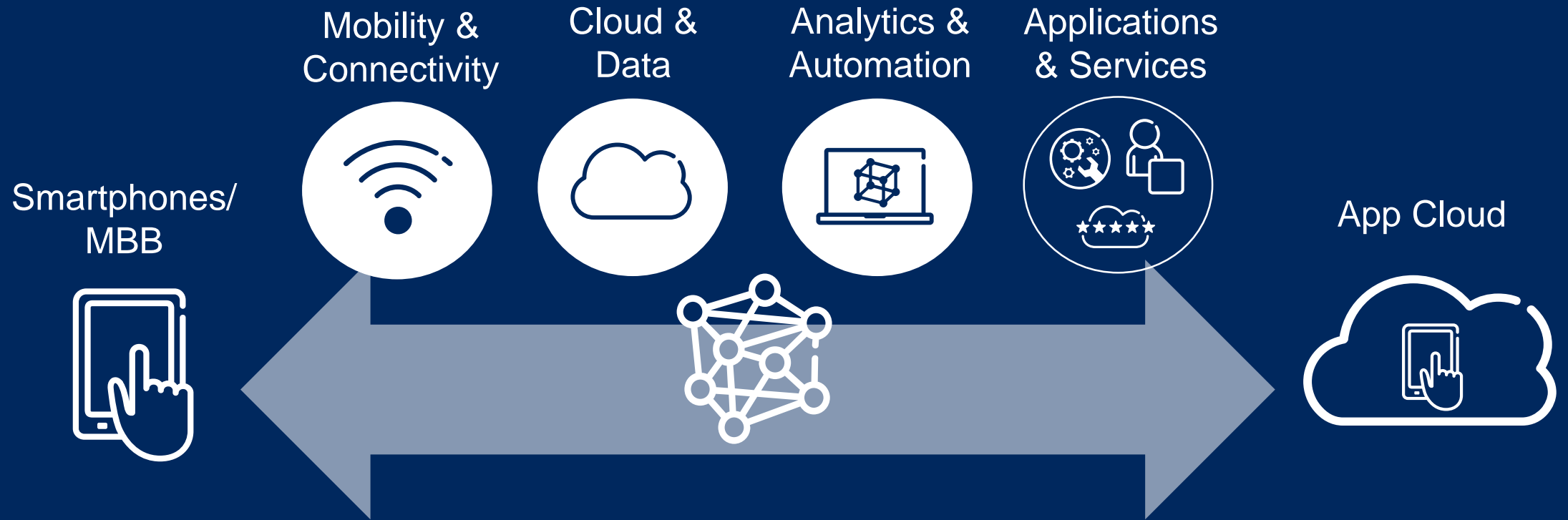


	2016	2022	CAGR
Wide-area IoT	0.4	2.1	30%
Short-range IoT	5.2	15.5	20%
PC/laptop/tablet	1.6	1.7	0%
Mobile phones	7.3	8.6	3%
Fixed phones	1.4	1.3	0%
	16 billion	29 billion	

DIGITALIZATION & MOBILITY

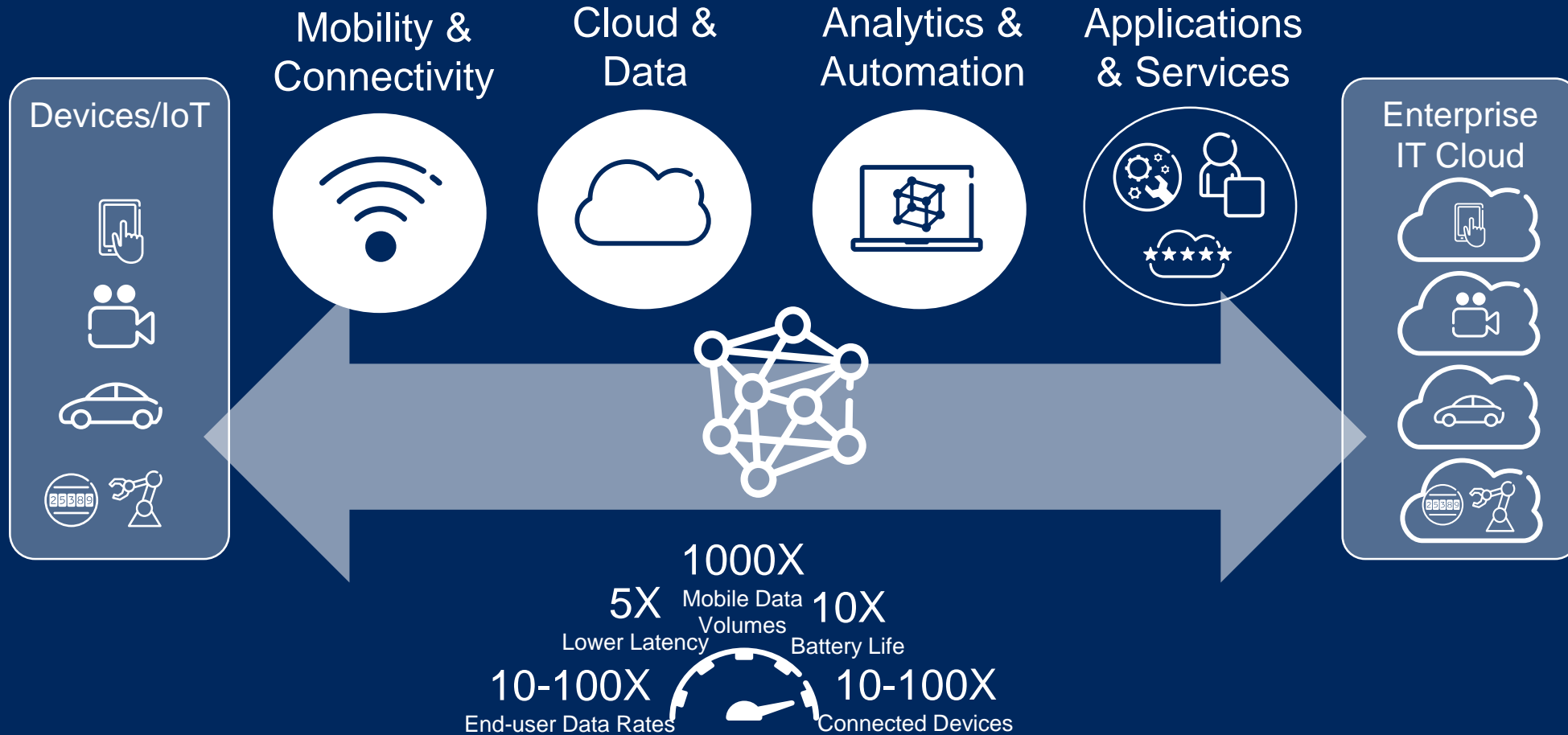


NETWORK EFFICIENCY & PERFORMANCE



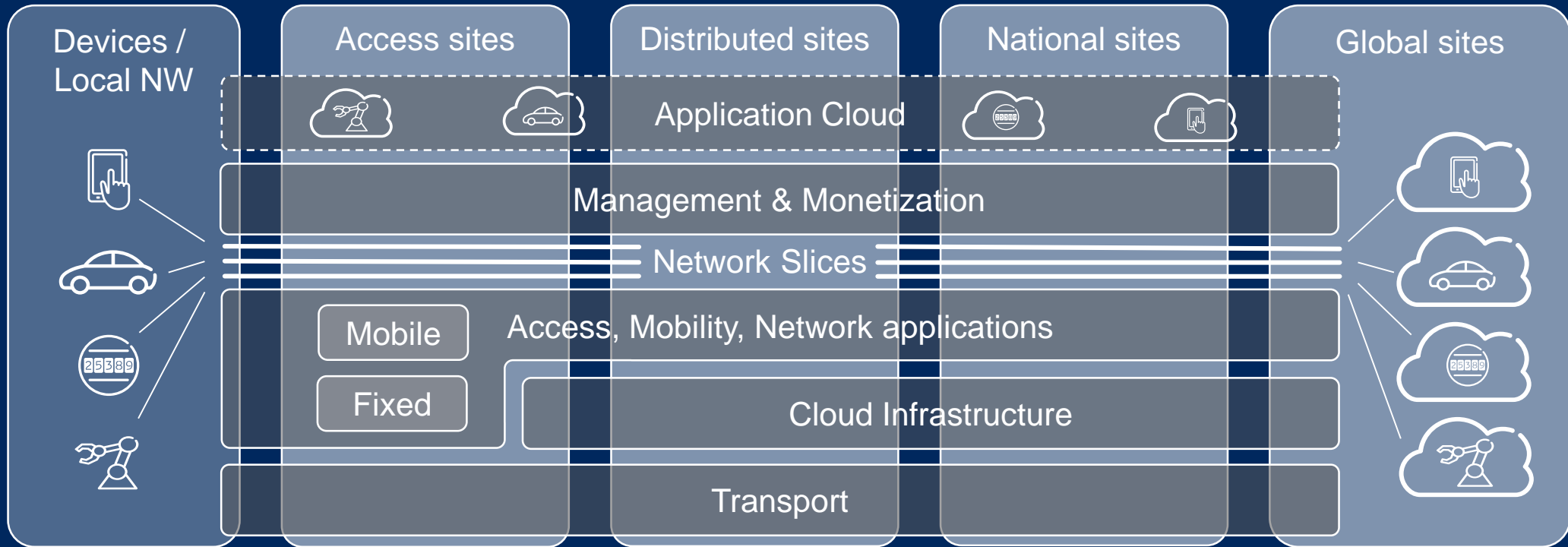
Increased efficiency (lower cost per bit) & higher capability for Mobile Broadband

INCREASED NETWORK RELEVANCE FOR OTHER INDUSTRIES



A horizontal, programmable Network platform to connect all clouds to all devices

ONE NETWORK FOR MULTIPLE INDUSTRIES



The 5G Distributed Cloud – A platform for Innovation



BROADBAND AND MEDIA EVERYWHERE



SENSORS EVERYWHERE



SMART VEHICLES, TRANSPORT



INFRASTRUCTURE, MONITOR AND CONTROL



CRITICAL CONTROL OF REMOTE DEVICES



INTERACTION HUMAN-IOT

5G USE CASES

Secure Gbps broadband leading, more use cases leveraging 2ms and reliability

OPERATOR PARTNERS



33

SIGNED 5G OPERATOR AGREEMENTS

5G SUCCESS FACTORS



- › 5G System – Openness and horizontal network end to end
(5G is cloud/core, control, access and devices/sensors)

- › Global ecosystem – Multiple use cases with one global eco-system
(Leveraging the scale of 4G/LTE)

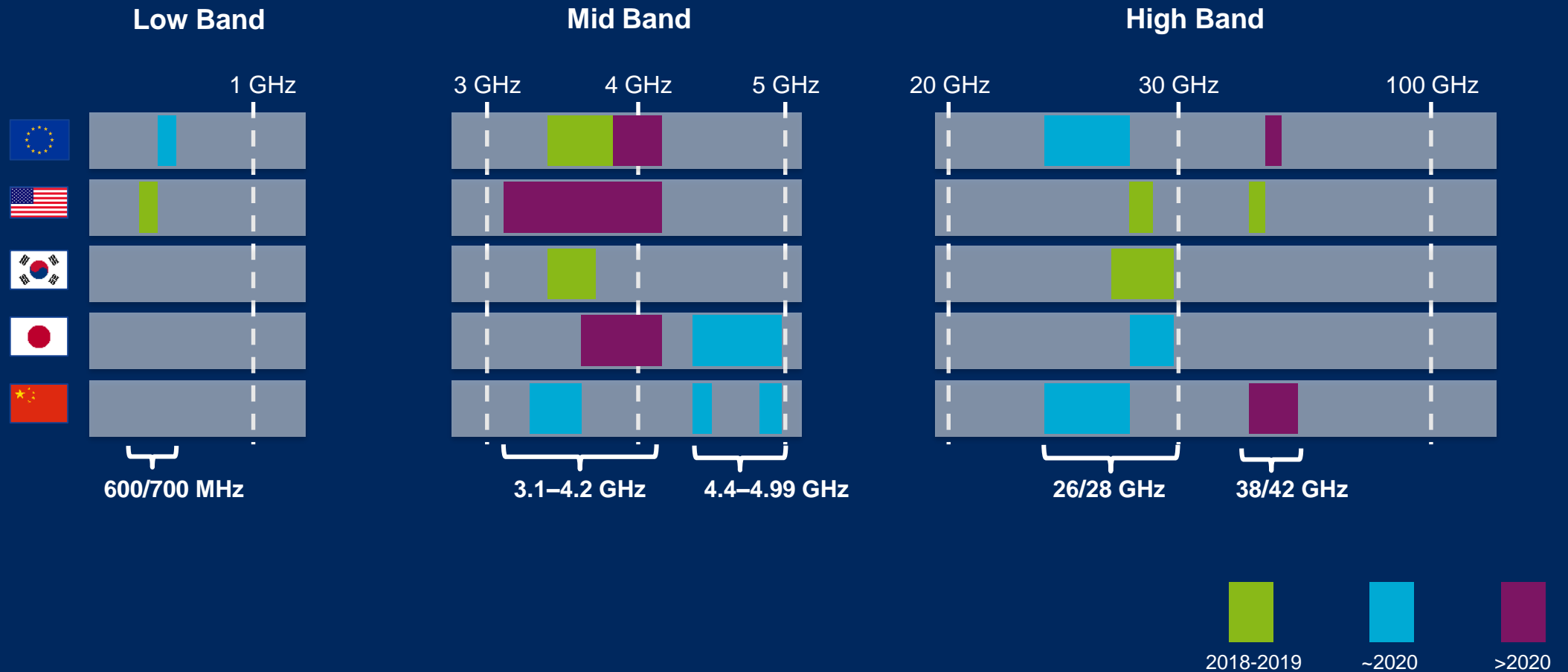
- › 5G enabling new business – Operators driving growth in IoT, media and industry transformation
(New capabilities for digitalization and mobilization)

- › The Network platform - Relevance to other industries
(Speed is essential to position networks in the global web environment)

- › Industry alignment - Standardization and open source approach
(A broader set of use cases requires cross industry collaboration)



5G SPECTRUM



ALL BITS ARE NOT EQUAL



PUBLIC
SAFETY



ENTERPRISE
SERVICES



UTILITIES



SPECIALIZED
SERVICES
(IPTV)



ZERO RATED
SERVICES

DIGITAL SINGLE MARKET



Holistic &
Light Touch



Adaptive to
Change



Business
Friendly



Technology
Neutral



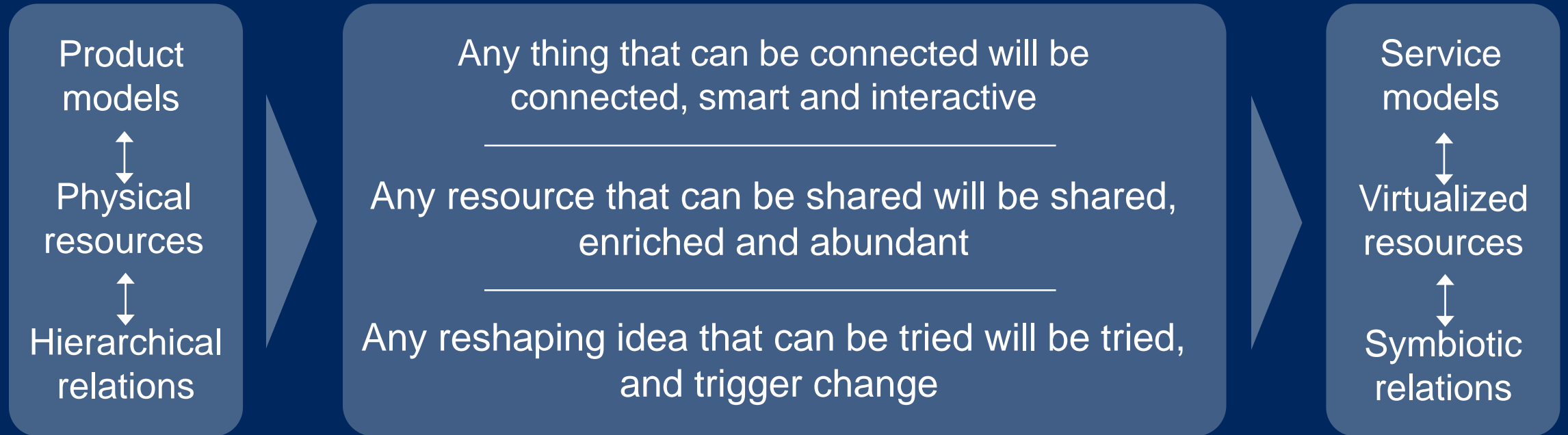
Broadband &
IT Stimulus

NEW LOGICS IN THE DIGITAL ERA



Consumption Logic

Usage Logic



USERS

participating and active



THINGS

connected & intelligent



DATA

own, shared & open



PLATFORMS

economics & scale



ERICSSON