

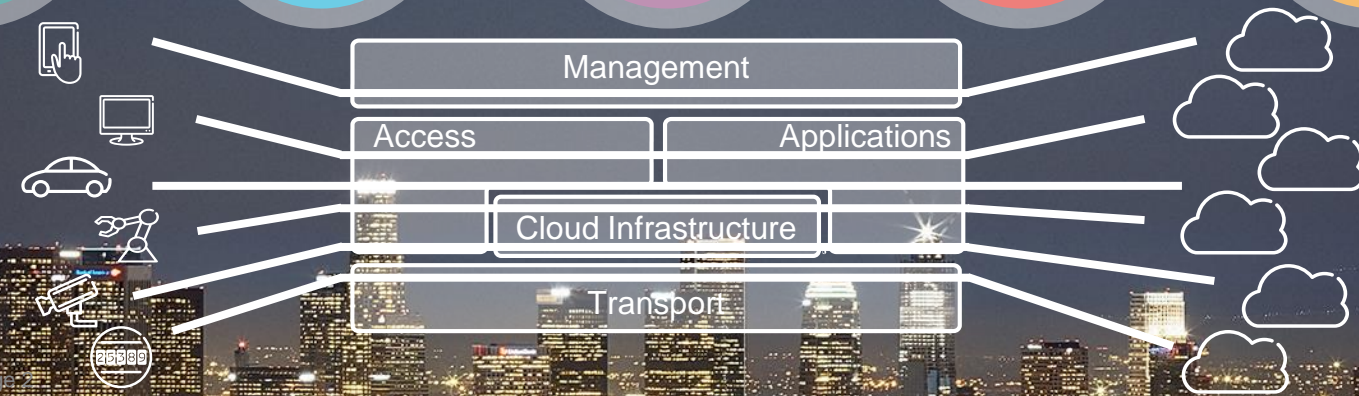
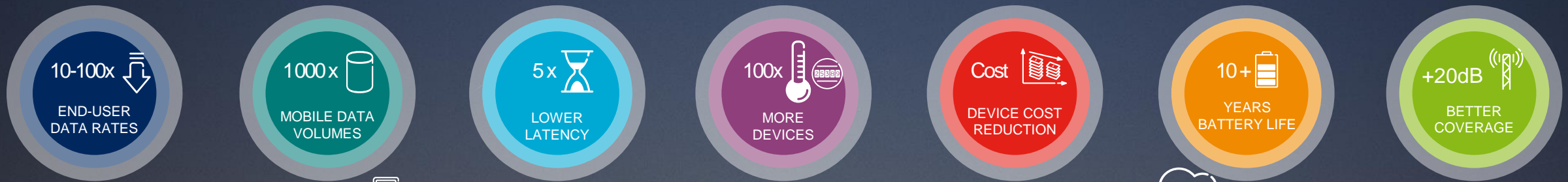
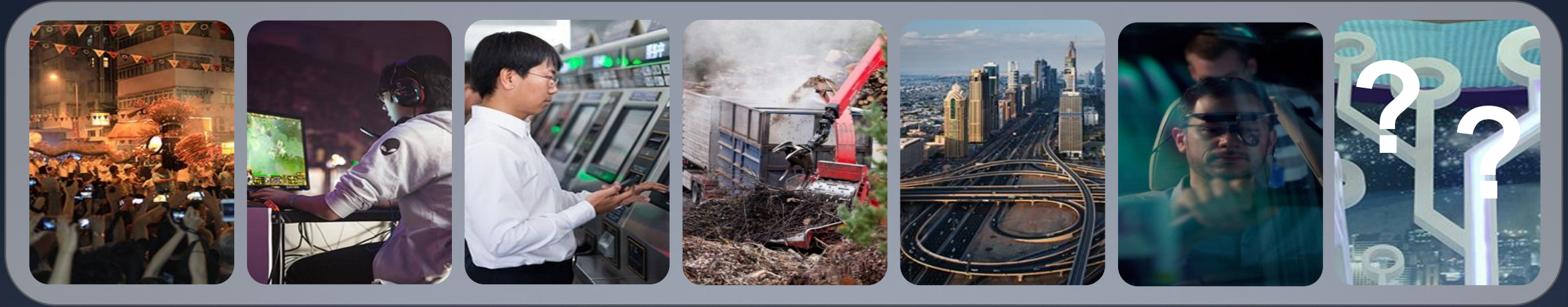


5G A CATALYST FOR GROWTH

Fadi Pharaon
VP Networks & Managed Services, Europe & Latin America

WHAT IS 5G – WHAT WILL IT BRING

A Network for the Networked Society



4TH INDUSTRIAL REVOLUTION POWERED BY 5G



Massive IoT



LOW COST, LOW ENERGY
SMALL DATA VOLUMES
MASSIVE NUMBERS

Critical IoT



ULTRA RELIABLE
VERY LOW LATENCY
VERY HIGH AVAILABILITY



Enhanced MBB
MORE CAPACITY, LOW LATENCY



I AM CONNECTED

BECAUSE I AM EASY TO FIND
BY THOSE WHO WANT TO RENT ME



I AM CONNECTED

BECAUSE I ONLY WASH WHEN
ELECTRICITY IS CHEAP



I AM CONNECTED

BECAUSE I OFFER VEHICLES
A 'GREEN WAVE'



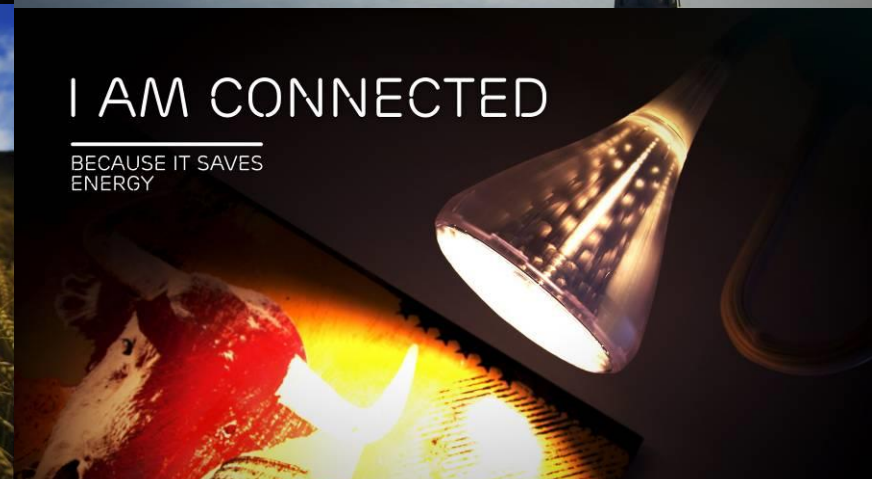
I AM CONNECTED

BECAUSE MY FUEL CONSUMPTION
CAN BE OPTIMIZED



I AM CONNECTED

BECAUSE I GET WATERED AND FERTILIZED
AT THE RIGHT TIME



I AM CONNECTED

BECAUSE IT SAVES
ENERGY



I AM CONNECTED

BECAUSE I GET ON-LINE GUIDANCE
MOVING THROUGH FIRES



I AM CONNECTED

BECAUSE I CAN FILM AND UPLOAD
COOL MOVES ON THE SLOPES



I AM CONNECTED

BECAUSE I AM EXPENSIVE AND
WANT TO AVOID DRYING OUT

5G FOR SWEDEN – SCOPE

Strengthen
competitiveness of
Swedish industry

Industry
pilots

- Energy & Utilities
- Transport & Automotive
- Safety & Security

Apply ICT in
Industrial processes,
products & services

Innovation
platforms

- Enabling smaller companies to:
- Cooperate with larger industry players
 - Interact & meet academia
 - Early and affordable access to technology

Leverage current
and next generation
mobile networks

Research
programs

Establish a strong research community on ICT and its integration in industry processes, products and services



ABB REMOTE OPERATION OF ROBOTS

- Evaluate potential of mobile communication for industrial use
- Consider requirements from mission critical operation

↓

- Industrial 5G requirements
- Transformation benefits
 - Central utilization of expertise
 - Minimize personnel in hazardous environments
 - Increased productivity

ABB **ERICSSON**

MINING

PIMM

- Increased productivity
- Industrial 5G requirements
- Understanding new eco system, business models, etc.

ABB **BOLIDEN** **ERICSSON** **L** **P/A** **iCS** **SIS** **TeliaSonera** **VOLVO** **WOLFIT**

STOCKHOLM

- Emergency vehicle prioritization
- Remote-controlling of platoons
- Automatic service orchestration
- ...and more

SCANIA **ITRL - INTEGRATED TRANSPORT RESEARCH LAB** **ERICSSON**

MANUFACTURING

- Improved production efficiency
- Increased flexibility
- Excellent traceability

SKF **CHALMERS** **ERICSSON**

AUTONOMA SYSTEM A PRE-STUDY

- Handling of the information explosion; big data analytics, visualization and interaction
- Cloud solutions to master growing complexity, safety, security, reliability

Part of Wallenberg Future Bus Systems Program - WASP

SAAB **Linköping University** **Autoliv** **ERICSSON**

5G FOR INDUSTRIES

VIRTUAL, AUGMENTED & MERGED REALITY

WIDE RANGE OF CONSUMER & INDUSTRIAL APPLICATIONS



7 out of 10 early adopters expect these 6 domains to fundamentally change:



Media



Social interaction



Education



Tourism



Work



Retail



Source: Ericsson ConsumerLab, Merged Reality, 2017

Source: Microsoft HoloLens

5G ENABLING GROWTH



MORE **USAGE**



8x mobile data traffic between 2016 and 2022 driven by video

MORE **PEOPLE**



8 billion MBB subscriptions by 2022

MORE **THINGS**



1.5 billion cellular IoT devices by 2022

MORE **BUSINESS**



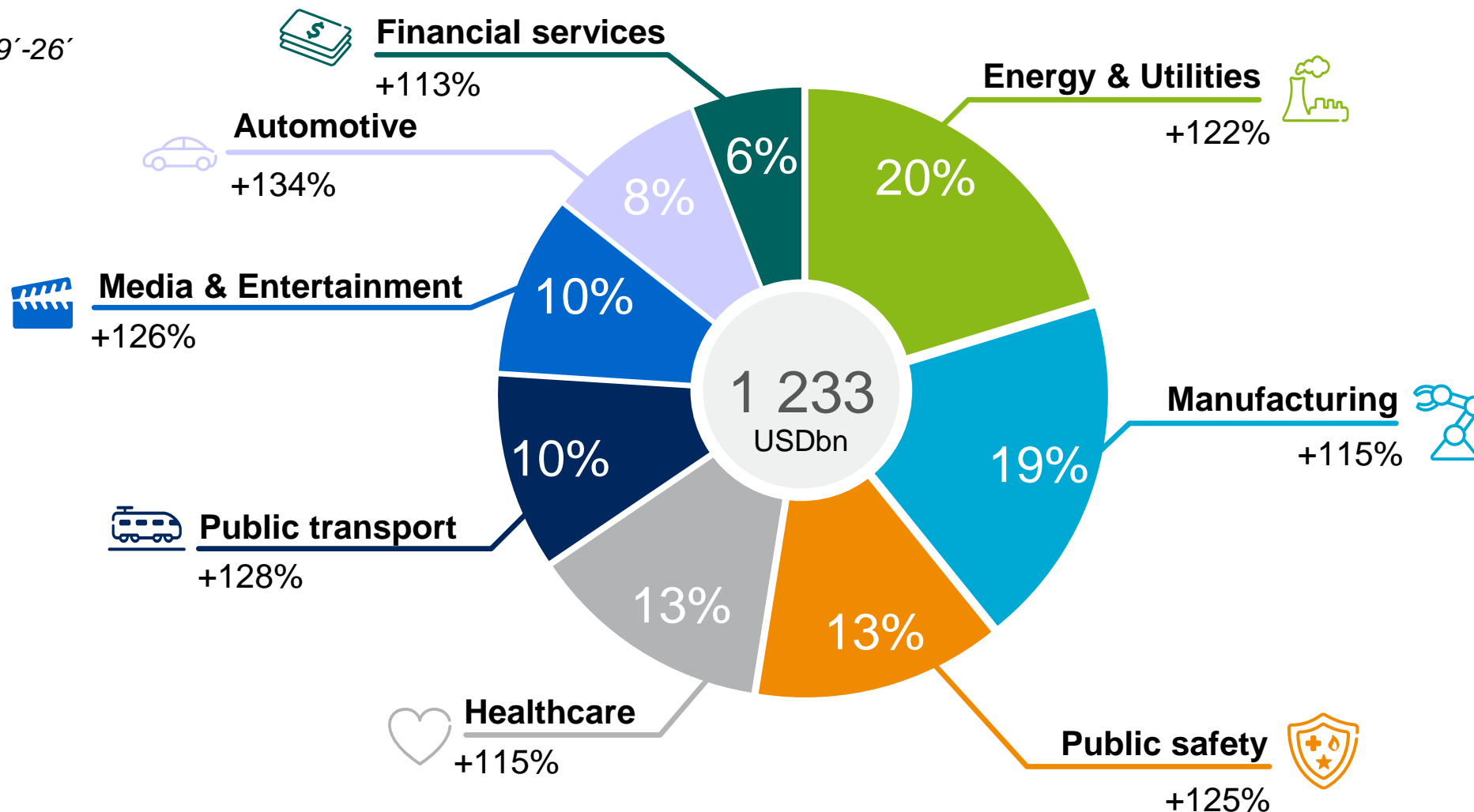
Fixed Wireless Access, Smart Cities, Health Care, etc.

GLOBAL 2026

5G enabled digitalization revenues for ICT players



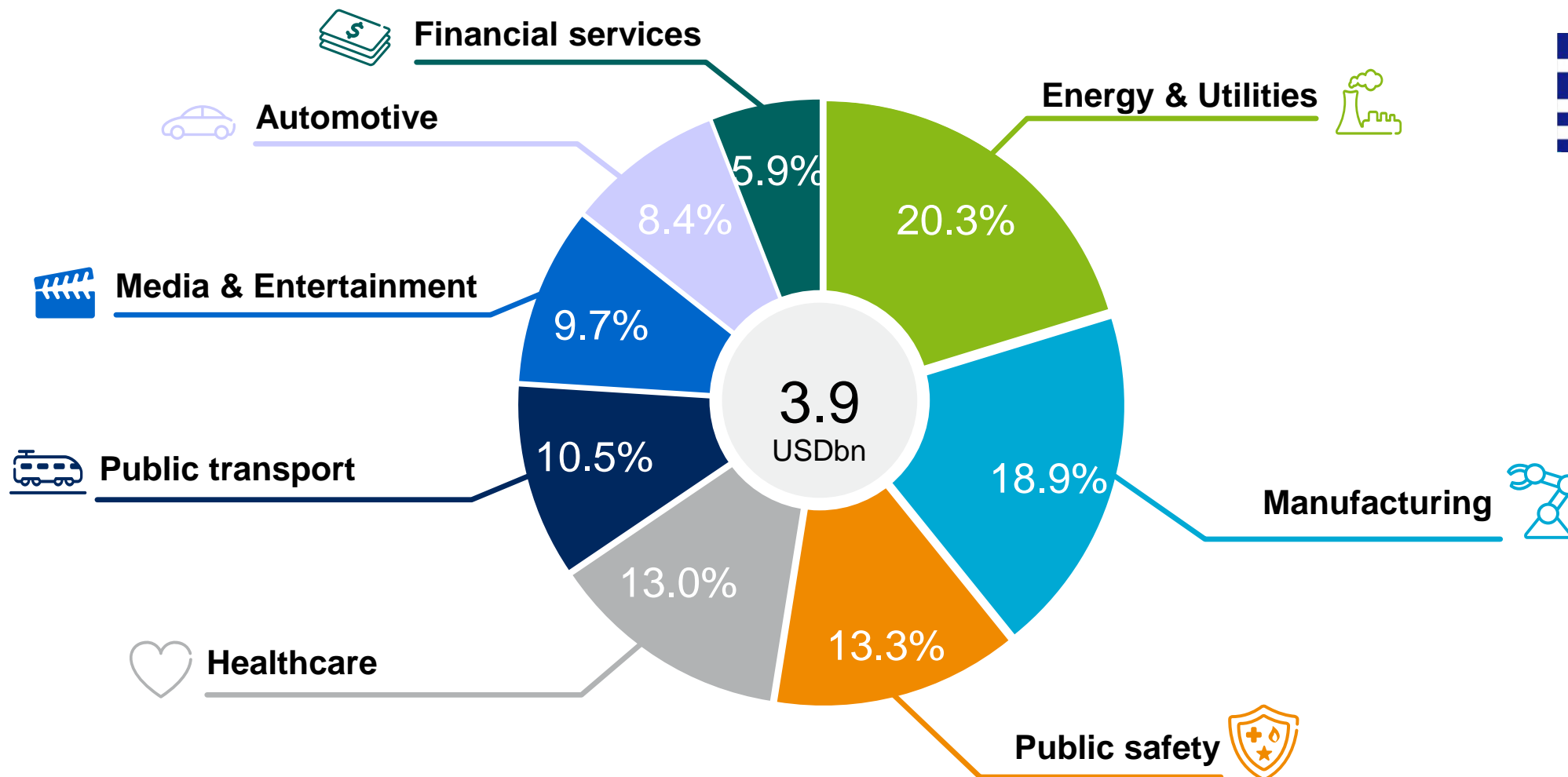
CAGR 19'-26'



Source: Ericsson, Arthur D. Little

GREECE 2026

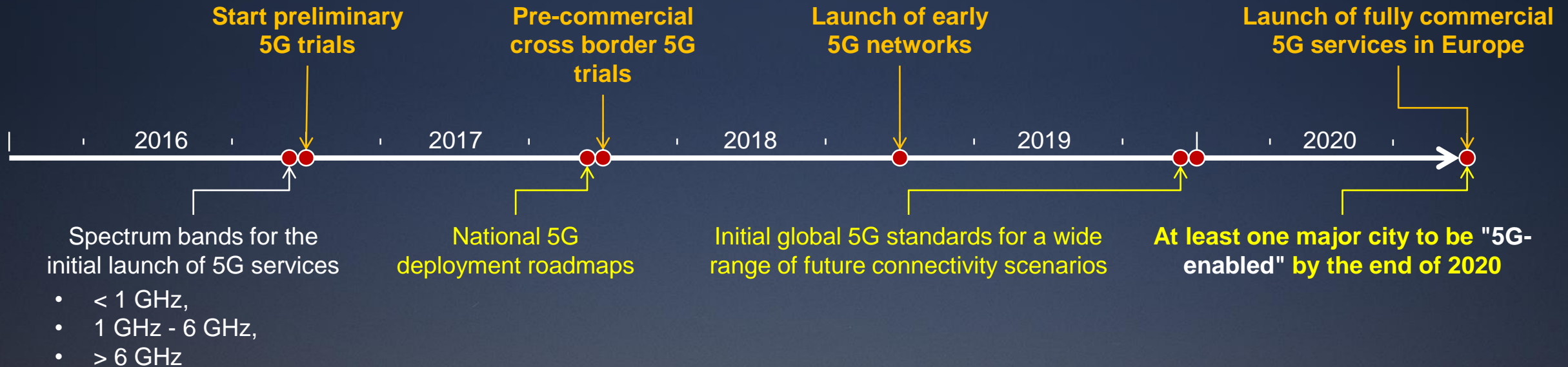
5G enabled digitalization revenues for ICT players



Source: Ericsson and Arthur D. Little

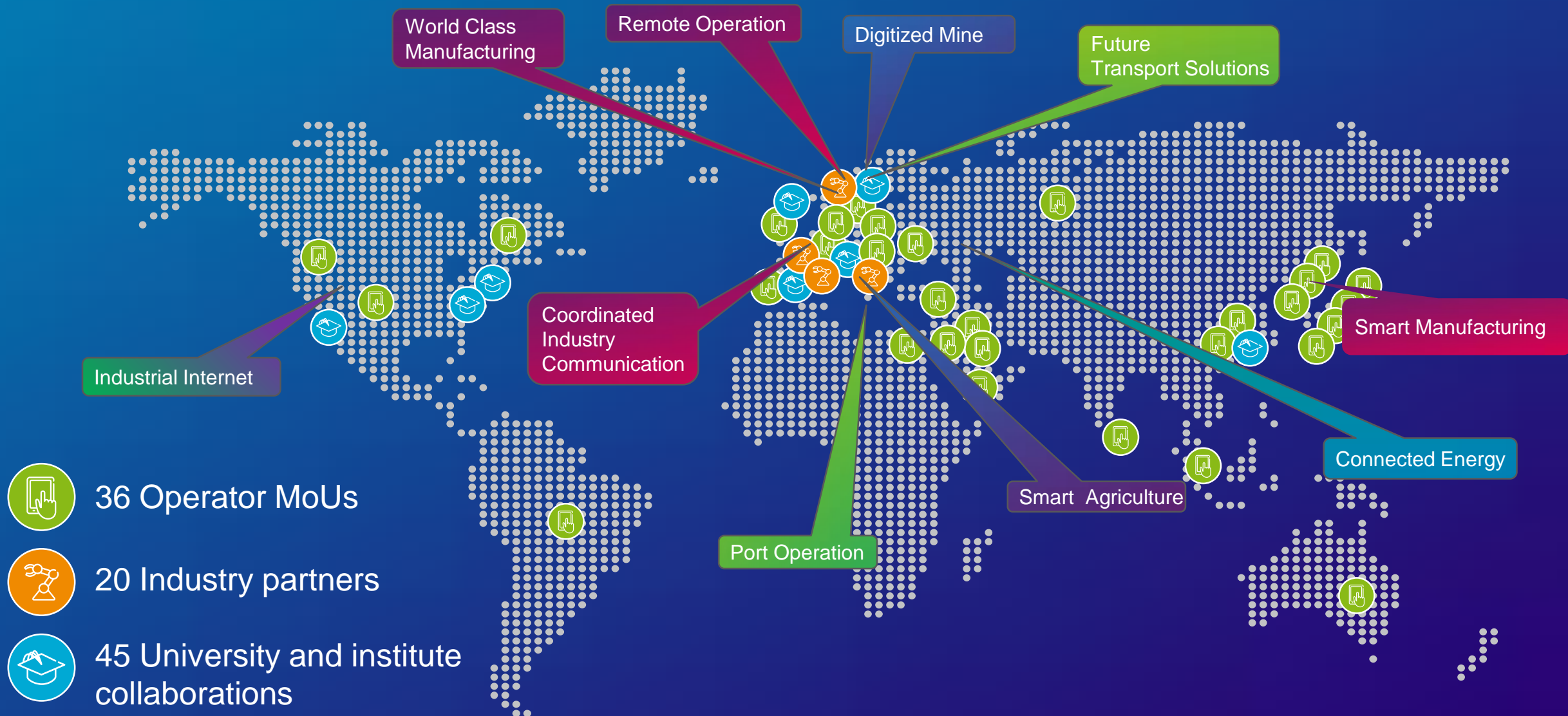
5G FOR EUROPE

EUROPEAN COMMISSION – ACTION PLAN



"All urban areas and major terrestrial transport paths have un-interrupted 5G coverage by 2025"

ERICSSON DRIVING 5G



SUMMARY



- › BUSINESS DEVELOPMENT and cross industry collaboration key to generate new service revenues for the Industrial Internet
- › CONSUMER thirst for new entertainment enabled by AR/VR will drive strong demand for eMBB
- › TREMENDOUS VALUE and UNPARALLELED BENEFITS delivered by 5G to the economy, society and the environment



ERICSSON