



ERICSSON

INNOVATION IN THE ERA OF THE 4TH INDUSTRIAL REVOLUTION

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AUGMENTED REALITY



ARTIFICIAL INTELLIGENCE



AUTONOMOUS VEHICLES

NETWORKED SOCIETY THE 4TH INDUSTRIAL REVOLUTION



INSTALLATION

TRANSFORMATION

Efficiency
focused

Vertical
industry
logic

Narrow
impact

Innovation
focused

Across
business &
society

Extensive
impact

Industry winners

New winners



MOBILITY & BROADBAND



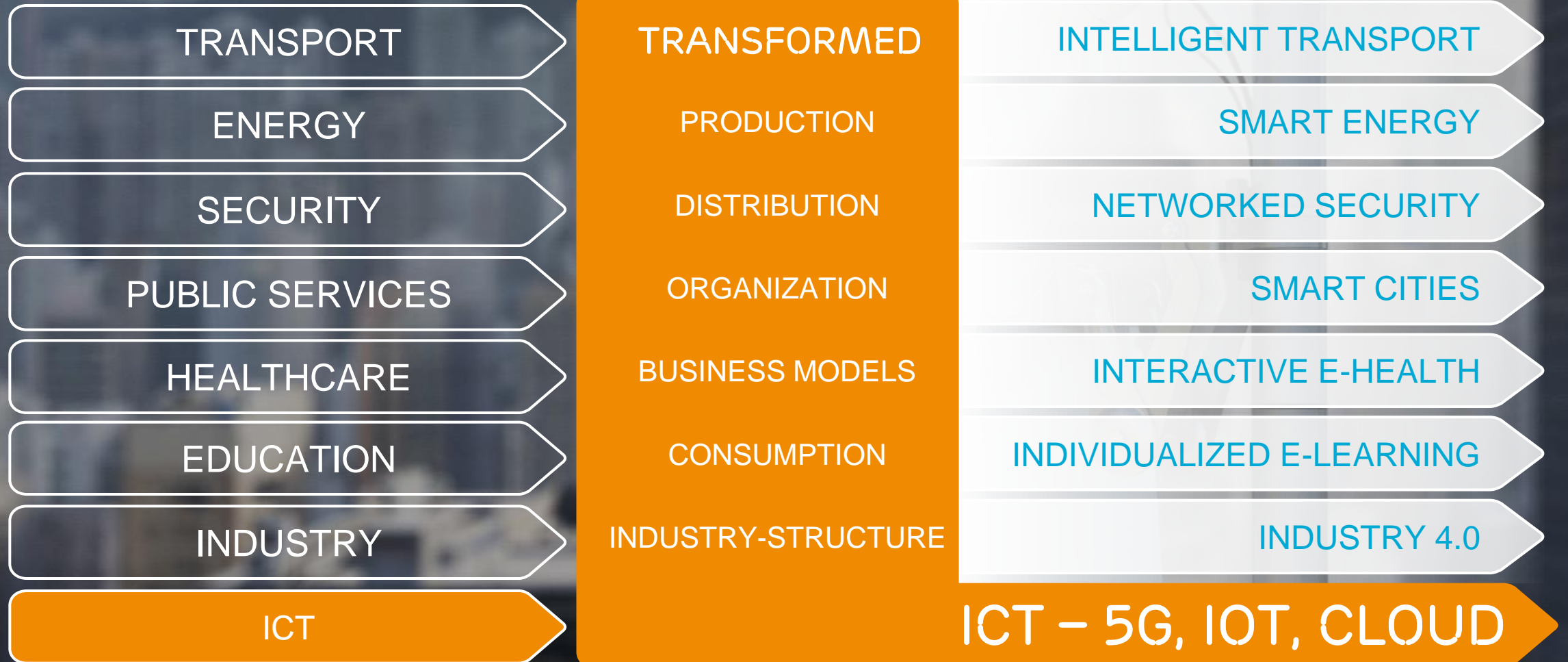
IOT



CLOUD

4TH INDUSTRIAL REVOLUTION

ICT TRANSFORMING INDUSTRIES



4TH INDUSTRIAL REVOLUTION POWERED BY 5G



Massive IoT



LOW COST, LOW ENERGY
SMALL DATA VOLUMES
MASSIVE NUMBERS

Critical IoT

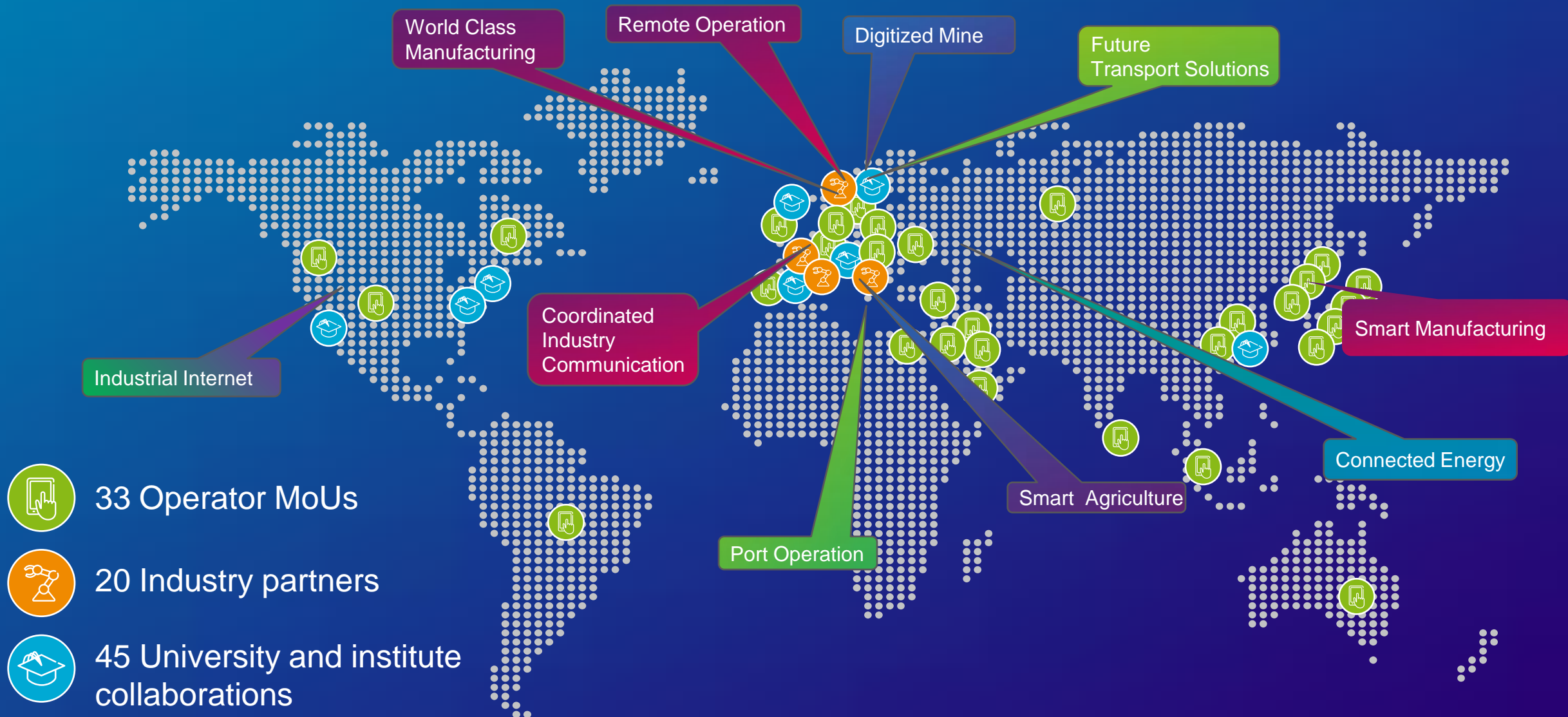


ULTRA RELIABLE
VERY LOW LATENCY
VERY HIGH AVAILABILITY



Enhanced MBB
MORE CAPACITY, LOW LATENCY

ERICSSON DRIVING 5G



5G INDUSTRY COLLABORATION EXAMPLES

CHRONOS

C-ITS Test & Validation for future transportation systems

- › Establish an open and controlled test arena for validation of Connected Driving (C-ITS)
- › Increase knowledge on use cases and business drivers

5G NETMOBIL

5G solutions for the connected mobility of the future

- › Explore 5G technology for ITS use-cases in detail, extract requirements, and develop a system architecture
 - Platooning – OnRoad and OffRoad
 - Connected driving in urban environment
 - Coexistence of C-ITS and infotainment traffic

CMA

Test Site for Future Automated and Shared Mobility Systems

- › Exploring the use of 5G networks for intelligent transport systems
- › Investigating “as-a-service” offerings for network operators and automotive OEMs
- › Reduced vehicle fleet operations cost
- › Better service awareness and reduced travel time for passengers
- › Usage of cellular networks in new markets

Partners:   

Industry Collaborations | Ericsson Confidential | 2017-06-01

KOI

Coordinated Industry Communication

- › Low latency & high reliability wireless industrial communication
 - Radio interface design for local communications in production units
 - Coordination system for realistic large scale deployments in the factory

REMOTE OPERATION

Robot remote control with haptic feedback over LTE

- › Evaluate mobile communication in industrial remote operation
 - Remote operations in mines – an industrial use case with strict requirements on reliability and latency.

5GEM

5G Enabled World Class Manufacturing

- › Evaluate 5G technology in a manufacturing industry
- › Understand ICT opportunities and solutions



- › Improved production efficiency
- › Increased flexibility
- › Excellent traceability
- › Social and environmental sustainability

Partners:   

Industry Collaborations | Ericsson Confidential | 2017-06-01

WITool

Wireless Internet of Tools

- › Enable IoT for construction equipment OEM (Husqvarna) and rental companies (Cramo)
- › Capillary network connectivity, cloud, service enablement and machine analytics capabilities

CONNECTED ENERGY

- › Infrastructure for surveillance of distribution transformers for the power grid
- › Secure IoT Cloud platform solution
- › Industrial grade sensors

PIMM

Pilot for Industrial Mobile Communication in Mining

- › Explore future 5G Use Cases in underground mining
- › Evaluate mobile communication infrastructure in an industrial context

- › Increased Productivity and Improved Safety
- › Industrial 5G requirements
- › Understand eco system, business models, etc.

Partners:       

Telerec - Industry Collaborations | Commercial in confidence | © Ericsson AB 2017 | March 2017

Transport

Manufacturing

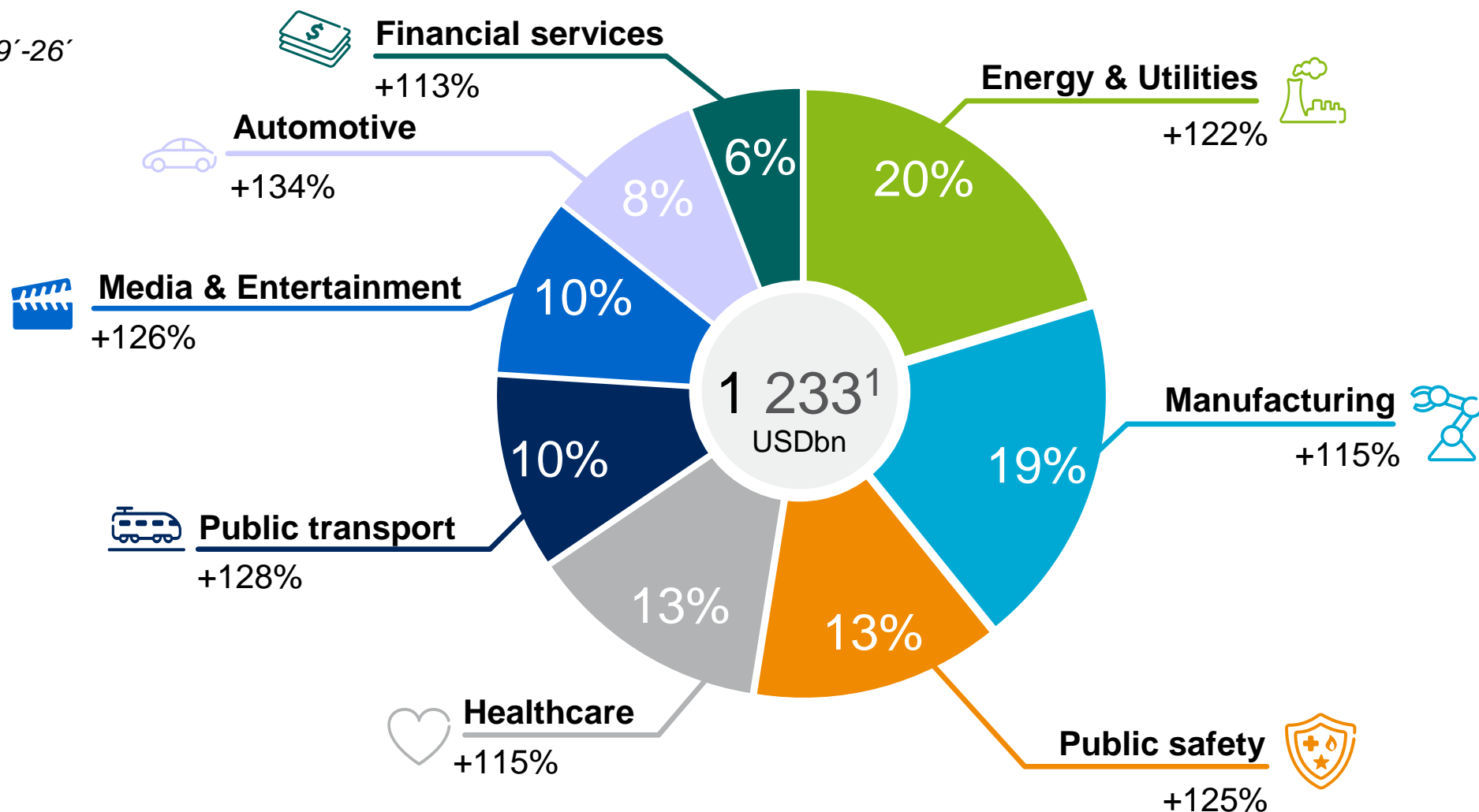
Process Industries

GLOBAL 2026

5G enabled digitalization revenues for ICT players



CAGR 19'-26'



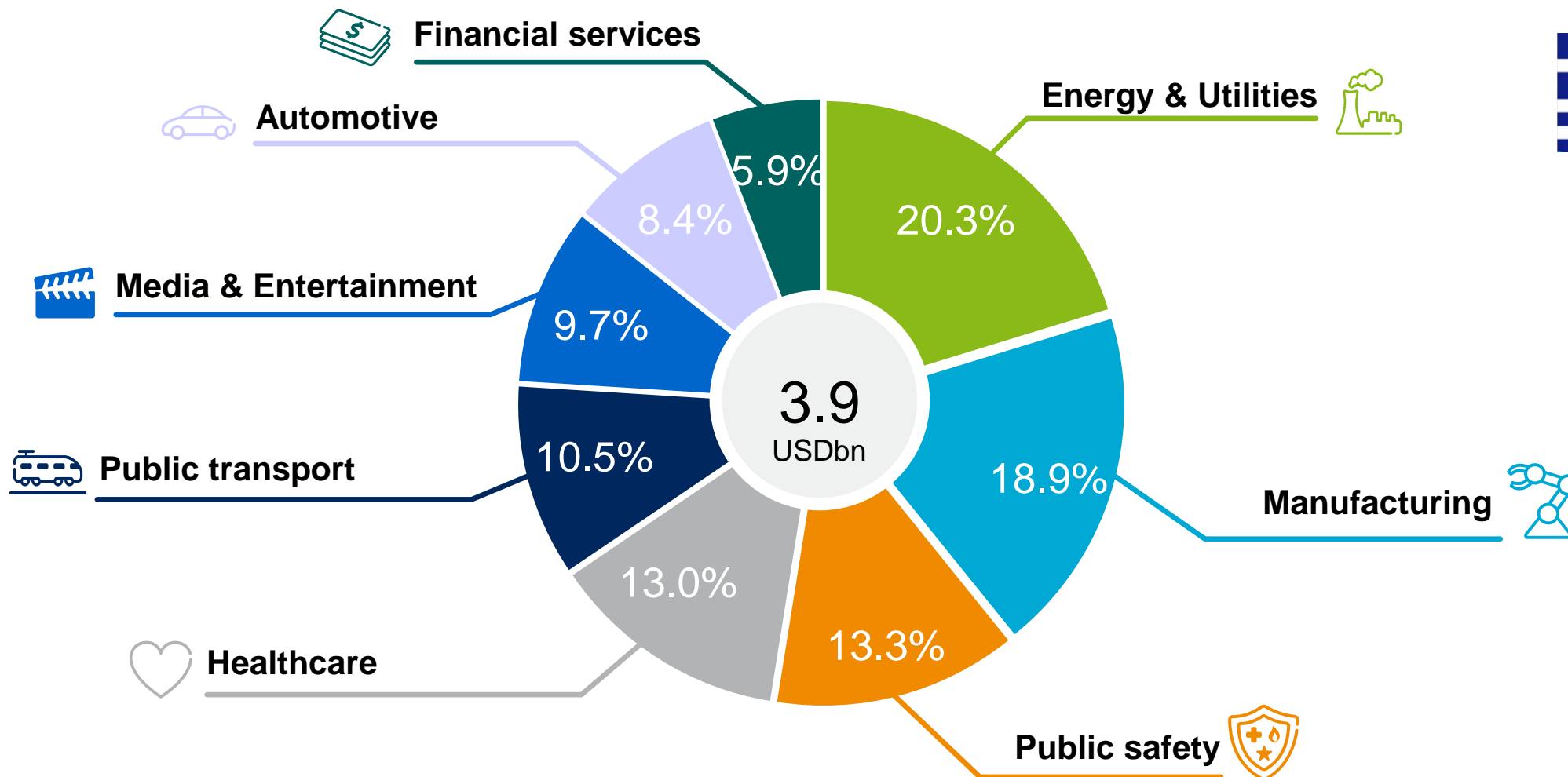
Source: Ericsson, Arthur D. Little

Note; 1) Year 2026

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GREECE 2026

5G enabled digitalization revenues for ICT players



Source: Ericsson and Arthur D. Little

Note; 2026 year

EXAMPLE: 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



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