# ONE NETWORK FOR A MILLION NEEDS


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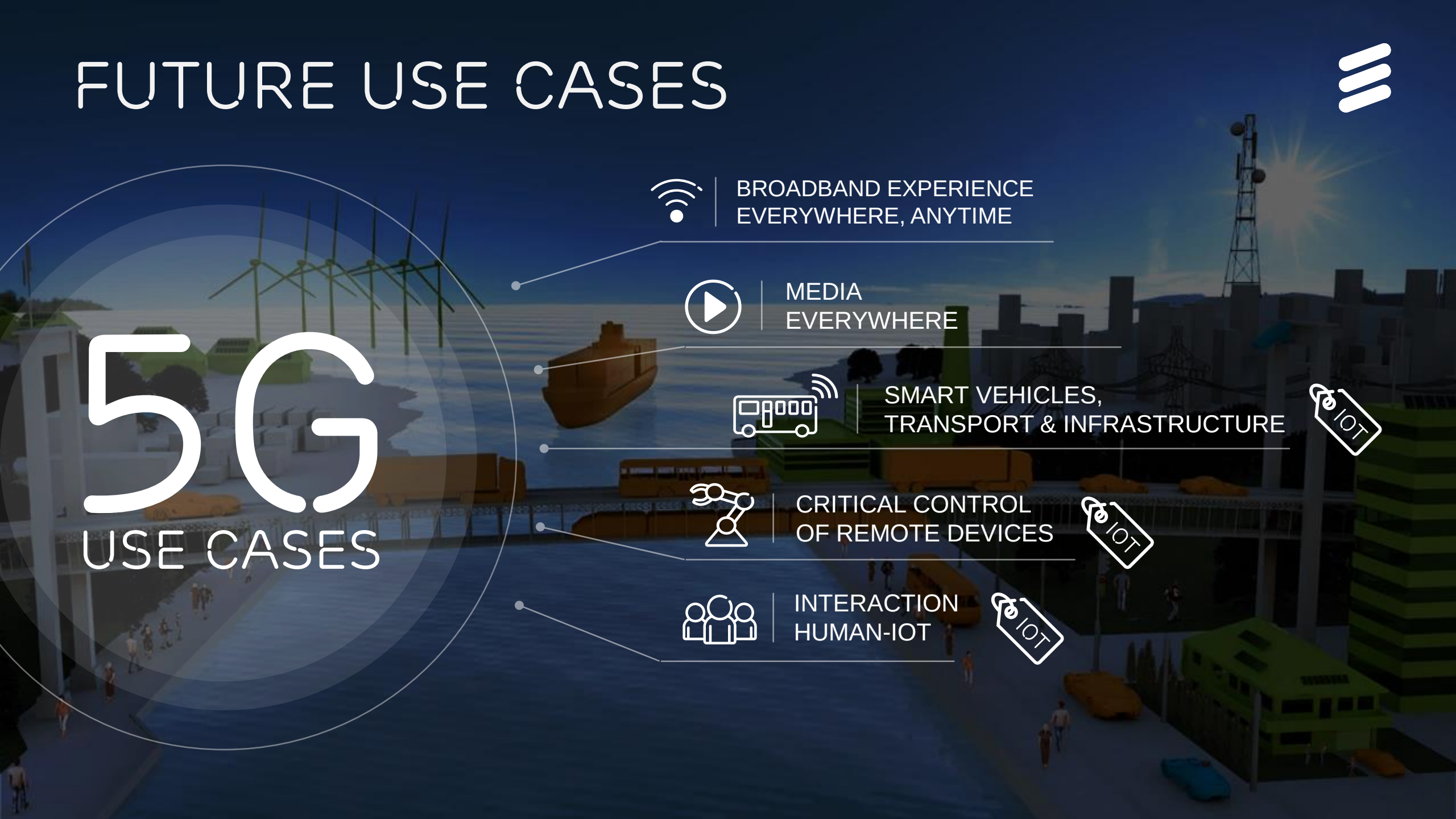
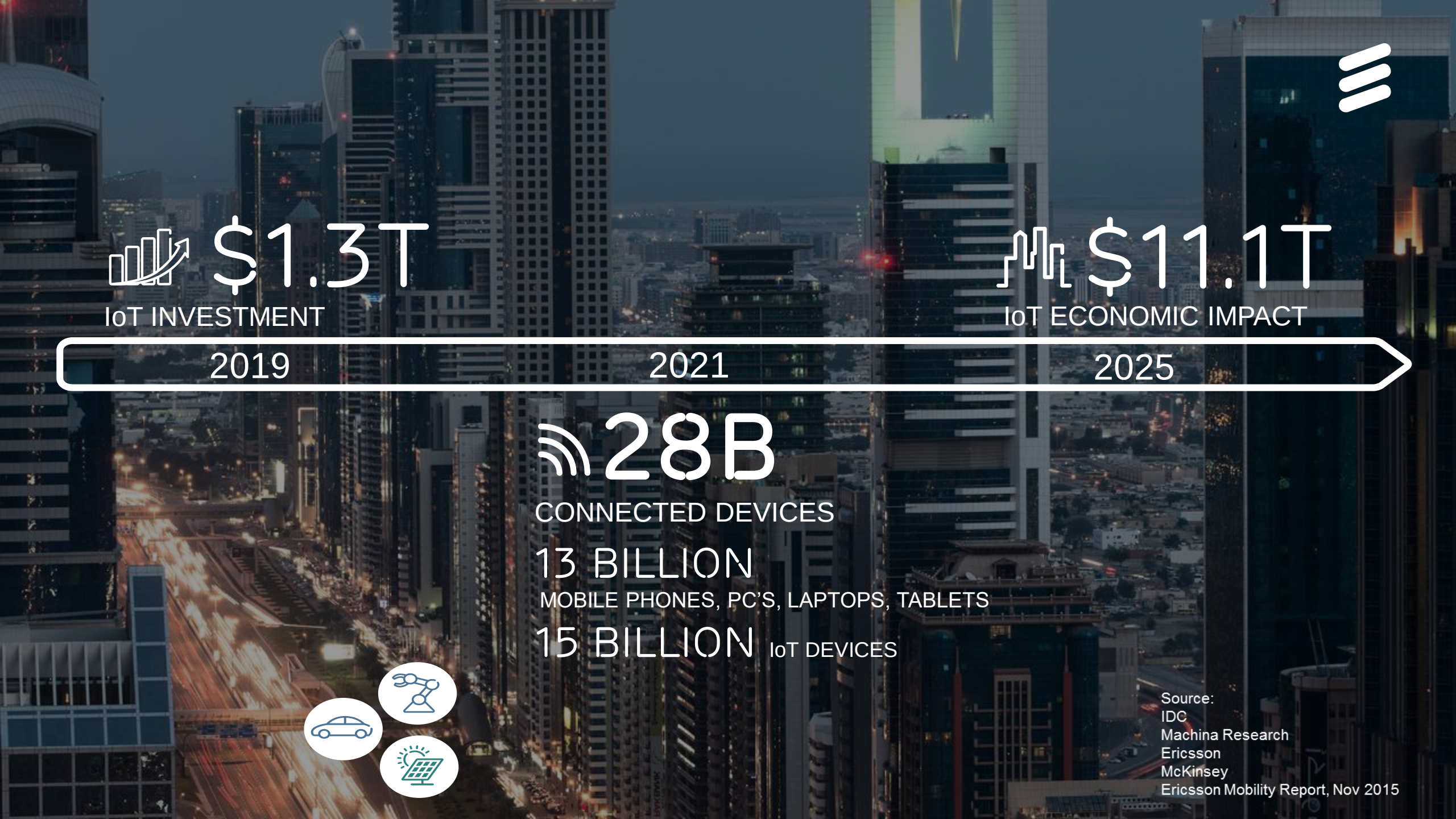
Mobile Broadband Head, SouthEastern Europe

# FUTURE USE CASES






Source:
IDC
Machina Research
Ericsson
McKinsey
Ericsson Mobility Report, Nov 2015

# 5G – CLASSES OF USE CASES

## MASSIVE MTC

SMART BUILDING

LOGISTICS, TRACKING AND FLEET MANAGEMENT

SMART METER

SMART AGRICULTURE

CAPILLARY NETWORKS

## CRITICAL MTC

TRAFFIC SAFETY & CONTROL

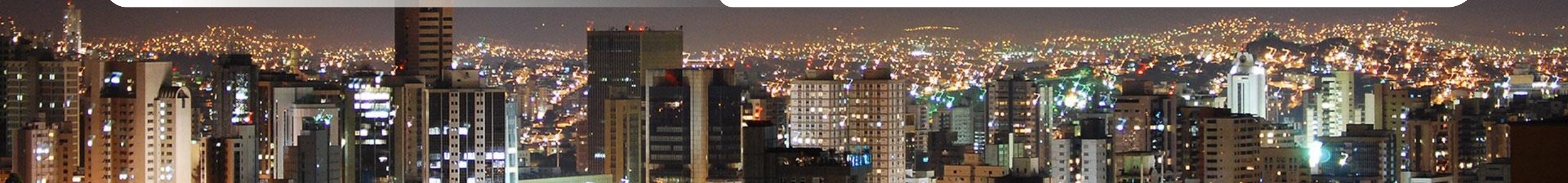
INDUSTRIAL APPLICATION & CONTROL

REMOTE MANUFACTURING, TRAINING, SURGERY

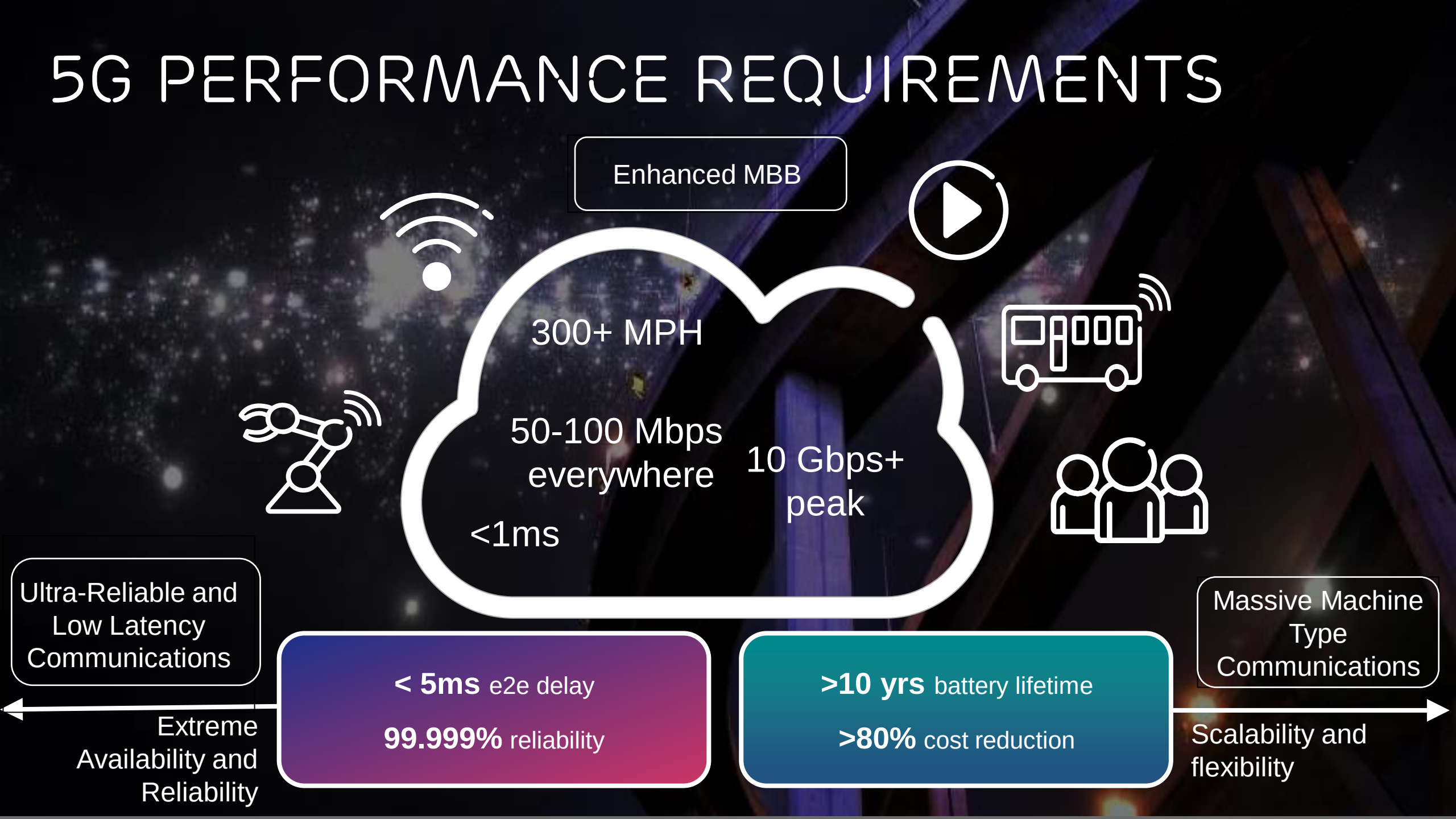
LOW COST, LOW ENERGY
SMALL DATA VOLUMES
MASSIVE NUMBERS

NOW

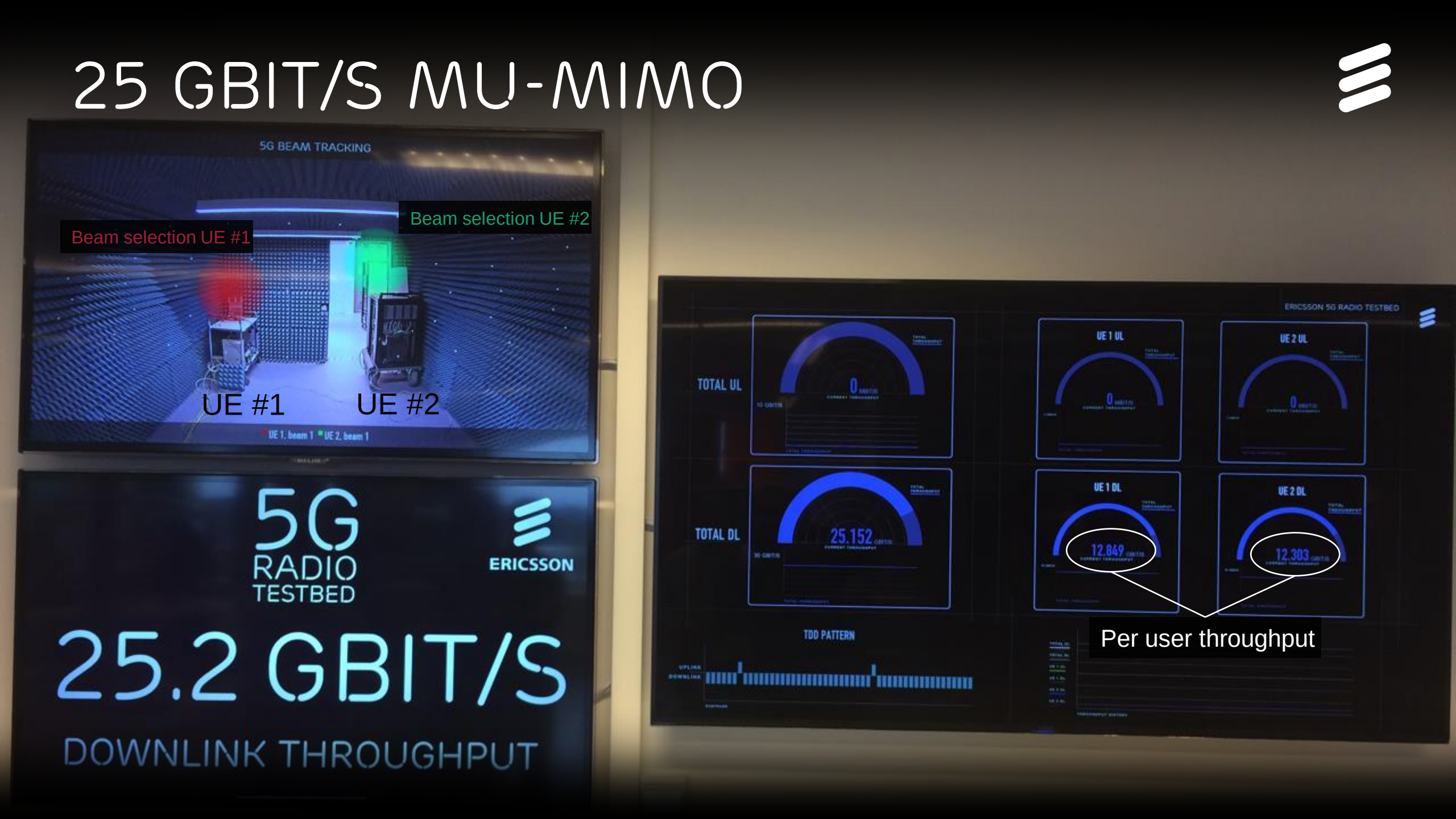
ULTRA RELIABLE
VERY LOW LATENCY
VERY HIGH AVAILABILITY



# 5G PERFORMANCE REQUIREMENTS



# 25 GBIT/S MU-MIMO



# ONE NETWORK – MULTIPLE INDUSTRIES


A common network platform with
dynamic and secure Network Slices

# ENGAGEMENT WITH INDUSTRY & SOCIETY

## 5G for Sweden

- 5G program with industry and academic partners
- 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
- 7 countries and 10 institutions

# INDUSTRIAL MOBILE COMMUNICATION IN MINING

- Evaluate mobile communication infrastructure in an industrial context
- Consider strict requirements on safety and robustness in underground mining

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

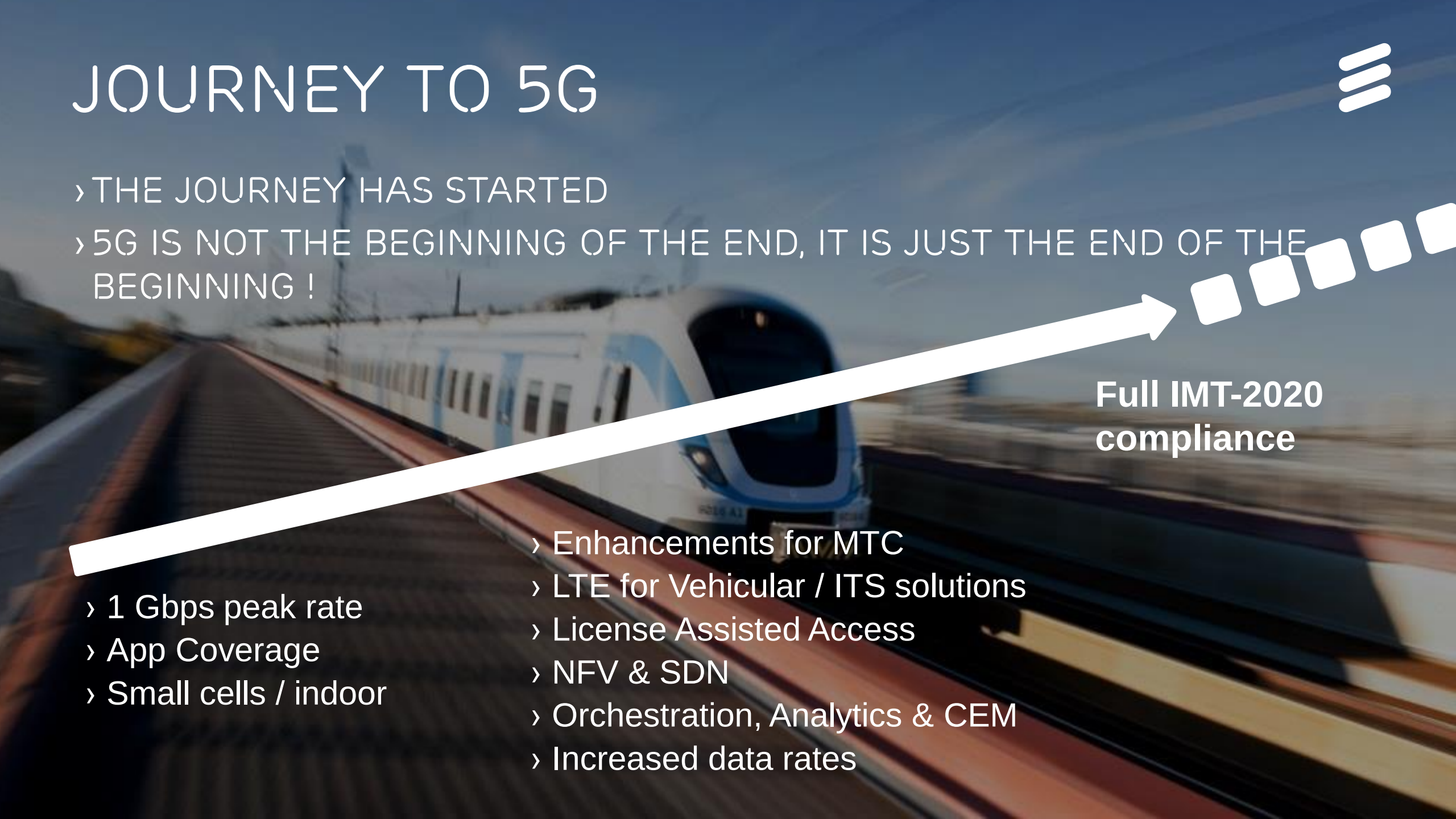

Photo: Boliden

ABB NEW BOLIDEN ERICSSON LULEÅ TEKNISKA UNIVERSITET PiiA SWEDISH ICT SICS TeliaSonera VOLVO WOLFIT

# JOURNEY TO 5G

› THE JOURNEY HAS STARTED

› 5G IS NOT THE BEGINNING OF THE END, IT IS JUST THE END OF THE BEGINNING !



**Full IMT-2020 compliance**

› 1 Gbps peak rate
› App Coverage
› Small cells / indoor

› Enhancements for MTC
› LTE for Vehicular / ITS solutions
› License Assisted Access
› NFV & SDN
› Orchestration, Analytics & CEM
› Increased data rates

ERICSSON