

Bangkok, Thailand 14<sup>th</sup> July 2016

## ERICSSON INTRODUCTION



MOBILE IT INFRASTRUCTURE
OSS&BSS
SERVICES
MEDIA DELIVERY & IPTV
INDUSTRY & SOCEITY/MARITIME

37,000

Patents 2014

Top 5

Largest software company

25,700

Employees in R&D 2014

BEURO 4

In R&D in 2014

1 billion

2.5 billion

Subscribers managed by us

Subscribers supported by us

50%

LTE Smartphone traffic through our networks in 2014

118 000

**Employees** 

65,000

Services professionals

180

Countries with presence

Result 2015

NS 27,2 BEURO, OPI 2,42 BEUR (9%)

THE NETWORKED SOCIETY

INTERNET OF THINGS (IOT)

SMART PORT SOLUTIONS



# A NEW GOLDEN AGE (5) A NETWORKED SOCIETY WHERE EVERY PERSON AND EVERY INDUSTRY IS EMPOWERED TO REACH THEIR FULL POTENTIAL



## MARITIME ICT CLOUD



#### **Customer Reference Cases**

We have global maritime engagements ongoing in more than 15 countries with focus on Shipping Lines, Ports and Terminals.

The focus is on the key challenges within the Maritime Industry such as efficiency, optimization, change management, business value drivers, reduction of costs in the short & long term and be future ready.











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### CONNECTED DEVICES

# IN 2020

26 BILLION

## 9 BILLION MOBILE PHONES

10 BILLION CONSUMER ELECTRONICS



7 BILLION INDUSTRIAL DEVICES



# WHAT IS DRIVING INDUSTRIES TO TRANSFORM?







# INDUSTRIES IN TRANSFORMATION









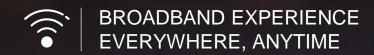
**Other Industries** 



## IOT – A BIG PART OF 5G











SMART VEHICLES, TRANSPORT & INFRASTRUCTURE





CRITICAL CONTROL OF REMOTE DEVICES



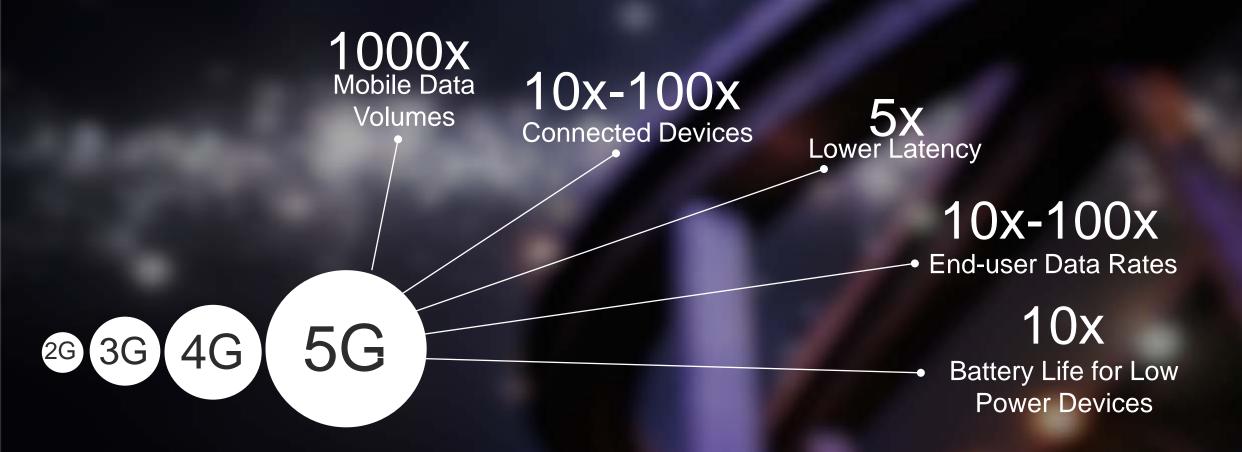


INTERACTION HUMAN-IOT



## **EVOLUTION TOWARDS 2020**





## CHALLENGES

COST

COMPLEXITY

**AGILITY** 



Entry cost kills the business case



Silos, development, management of the platform, security



Slow traditional solution design, deployment, testing and launching

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## A SMART PORT IS . . .

#### **AUTOMATED**

Fully automated operation from STS Cranes to AGV

#### **EFFICIENT**

Optimise Port Of Call process coordinated with inland transport

#### **LEARNING**

Capture of data for analytics and predictive modelling



#### SUSTAINABLE

Use of renewable energy Network of sensors to monitor environmental health.

#### INTEGRATED

Collaborative Decision
Making based on single
source of information

#### **SECURE**

Coastal/border security Cyber security

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## INNOVATIVE USE CASES

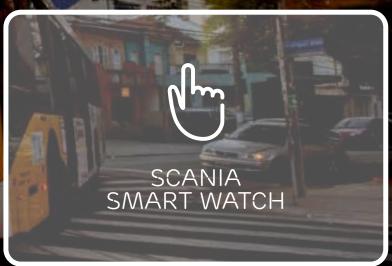




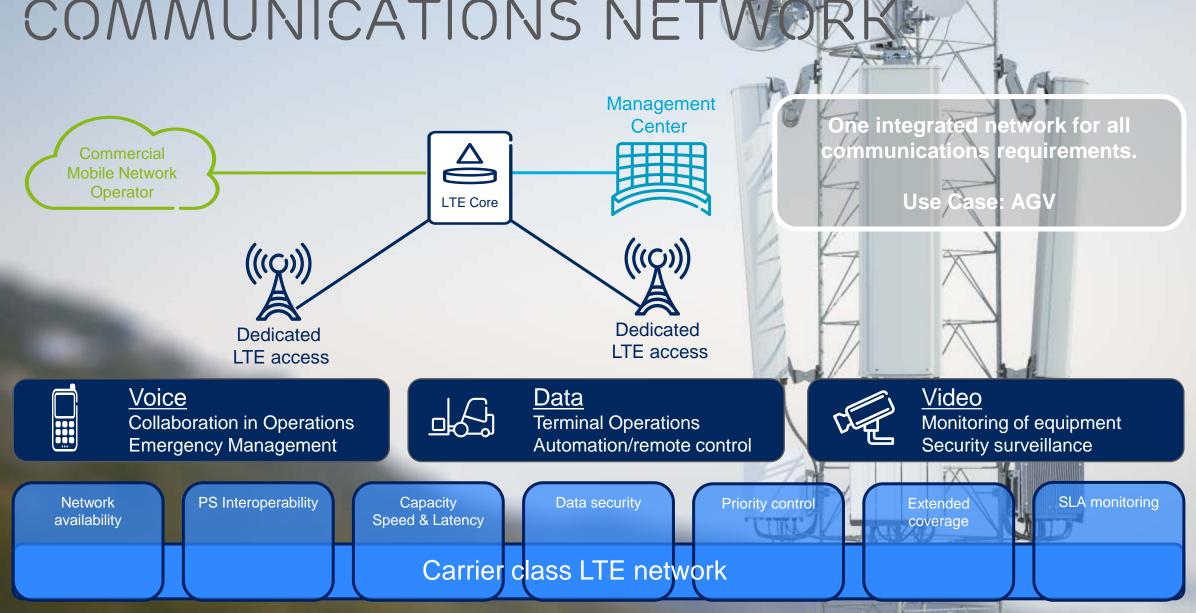








## LTE SOLUTION FOR PORT COMMUNICATIONS NETWOR



## GEO-SPATIAL ANALYTICS

#### WHAT

Ability to unify complex IOT data where the data is sampled at different points in space and time.

#### PROTOTYPE

Container shipping example combines sensor (location, speed), communications (GSM, Satellite) and weather (GRIB) data



Port Call Process
Terminal Operations

Port Operations Passing
Limitations

Dangerous Goods Management

**Virtual Container Tracking** 







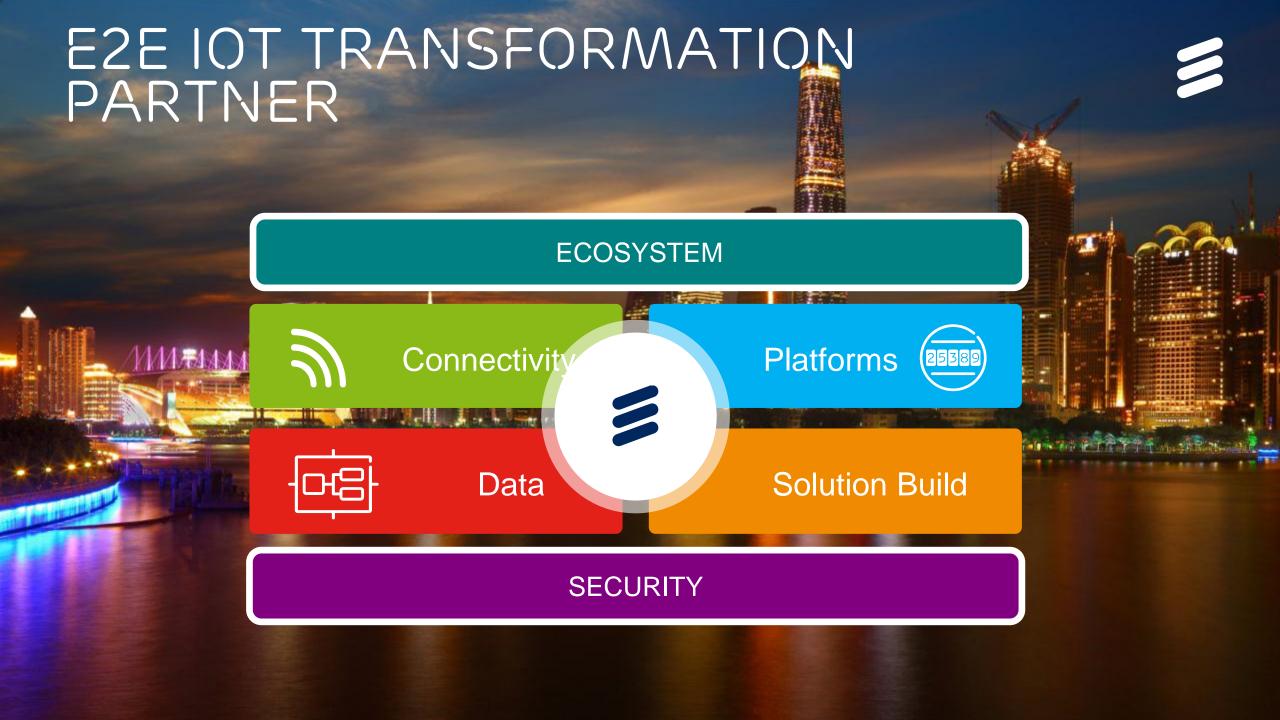
# MONETIZE NEW SERVICES

- Single view of customer enabling flexible tariffs
  - Discounts and/or Incentives
- Port Charges
- Cargo Handling
- Inland Transport

IF YOU CAN MEASURE IT,
YOU CAN MONETIZE IT









## **ERICSSON**