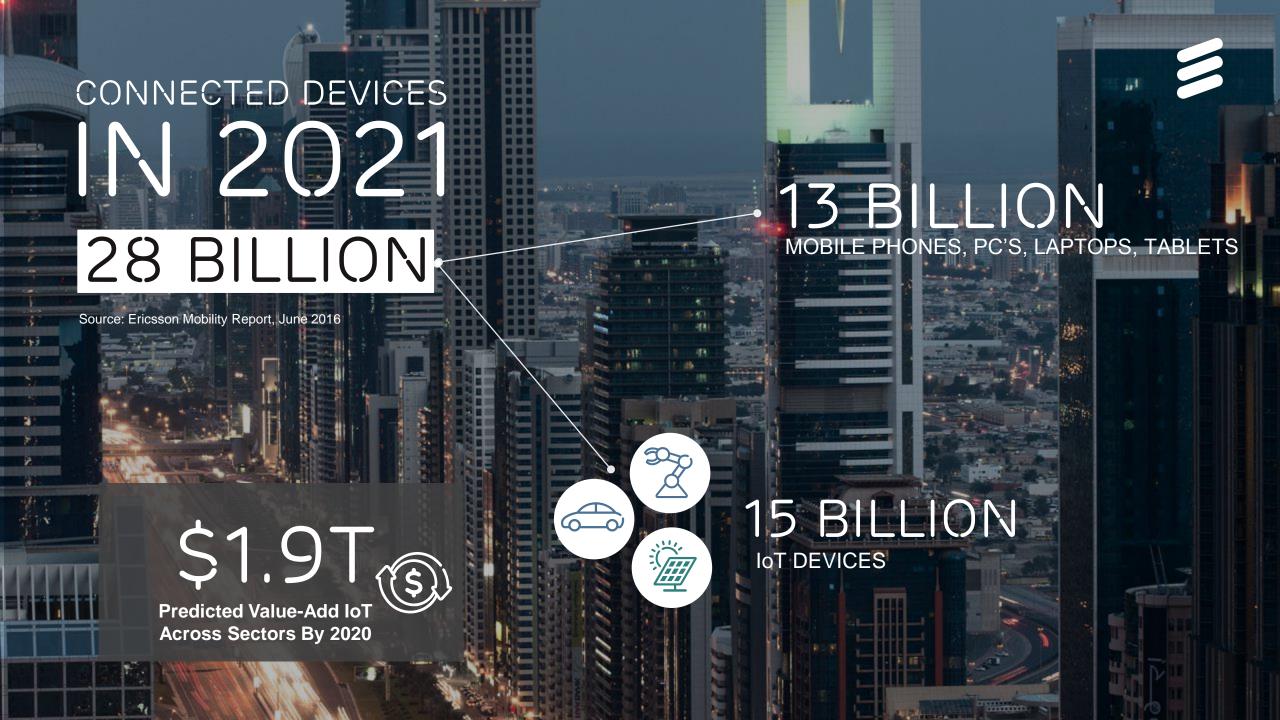


# THE NETWORKED SOCIETY M2M



## TYPICAL IOT USE CASES TODAY



#### **MASSIVE MONITORING**







#### **ASSET MANAGEMENT AND TRACKING**







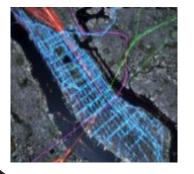
#### **REMOTE OPERATIONS AND ROBOTS**







#### **INFRASTRUCTURE MONITOR AND CONTROL**







# IOT VALUE DRIVERS & CUSTOMER NEEDS





# IOT VALUE CHAIN QUANTIFIED



**Estimated Technology** Spending Split (2025)\*

Services

~30%

**Global IoT Spending Forecast** (2025)\*

**Applications** 

~25%

300-2,900

**Platforms Enablement & Application** 

~25%

**Connectivity** Networks & Management

~10%

\$B

**Devices** 

Inc. Chipsets & Sensors

Today's spending split vastly different from 2025

Market still largely at "Devices" and "Connectivity" phases

Most IoT revenue today captured by operators: Vodafone world's only company making >\$1B

~10%

# ERICSSON ROLES IN IOT

Transformation Partner From Foundation to Value Creation

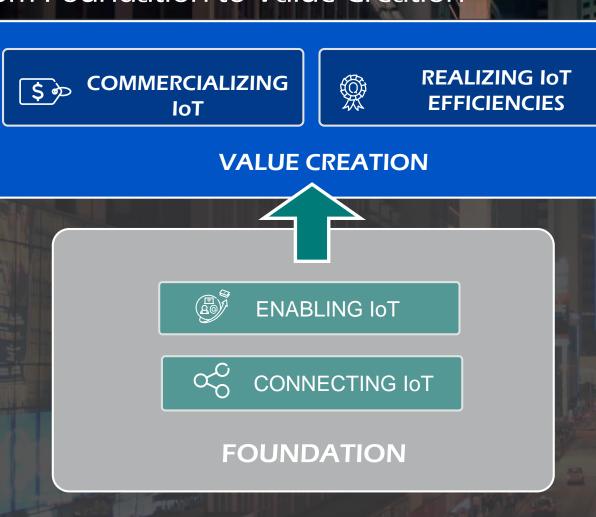
**Services** 

**Applications** 

**Platforms** 

Connectivity

**Devices** 



# ERICSSON IOT FOR VERTICALS



# Utilities







- Deregulation & competition
- Introduction of renewables
- > Aging infrastructure
- > Theft prevention

# Transport







- Fuel efficiency & sustainability
- > Passenger safety & crew welfare
- Capacity management
- > Autonomy & electrification

# **Public Safety**







- Cross-agency collaboration
- > Changing threat landscape
- › Actionable intelligence
- > Public sector overhaul

## ERICSSON INDUSTRY SOLUTIONS



#### **Utilities**

Smart Metering Grid Control Smart Grid Communications

Customer & Revenue Management

Asset & Critical Infrastructure Management

### **Public Safety**

Disaster & Emergency Management

Strategic Government Networks First Responder Networks

Border & Area Security

## Transport

AUTO

Connected Vehicle Cloud

Connectivity Management

Automotive Business Creation

SHIPPING

**Maritime Cloud** 

**Crew Welfare Communication** 

Cargo Data Management

Bunker (Fuel) Efficiency

ITS

Traffic Management

Transport Transactions

ICT Infrastructure for Road & Rail

# VOYAGE OPTIMIZATION SOLUTION





## REDUCED FUEL CONSUMPTION



[Maersk Line, Denmark]

#### THE CHALLENGE

- > Reduction in fuel consumption
- > Stabilized speed
- Change management of fleet management

#### THE SOLUTION

- Accurate data on vessel position, course and speed in real time
- Visualized on dash boards for enhanced decision support
- > Delivered as a Service

#### THE RESULT

- > Reduced fuel costs
- > Improved accuracy
- Advice and decision support from remote central voyage center









Real time data



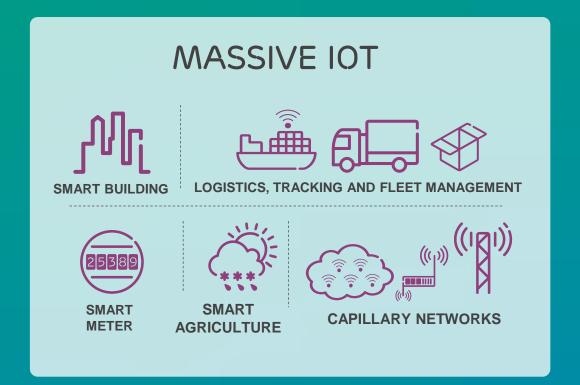


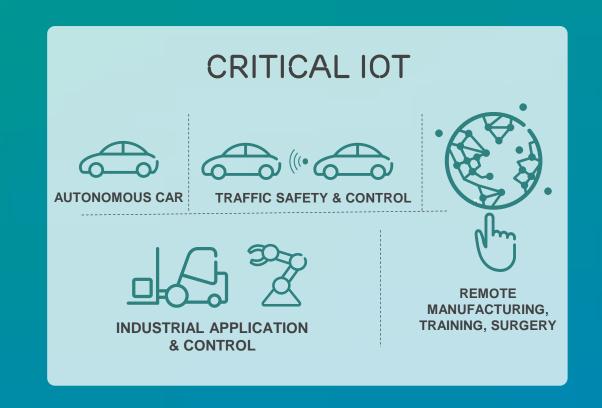


15 M\$ annual savings

## DIVERSE IOT USE CASE NEEDS







LOW COST, LOW ENERGY
SMALL DATA VOLUMES
MASSIVE NUMBERS

ULTRA RELIABLE
VERY LOW LATENCY
VERY HIGH AVAILABILITY





BROADBAND EXPERIENCE EVERYWHERE, ANYTIME



SMART VEHICLES, TRANSPORT & INFRASTRUCTURE



MEDIA EVERYWHERE



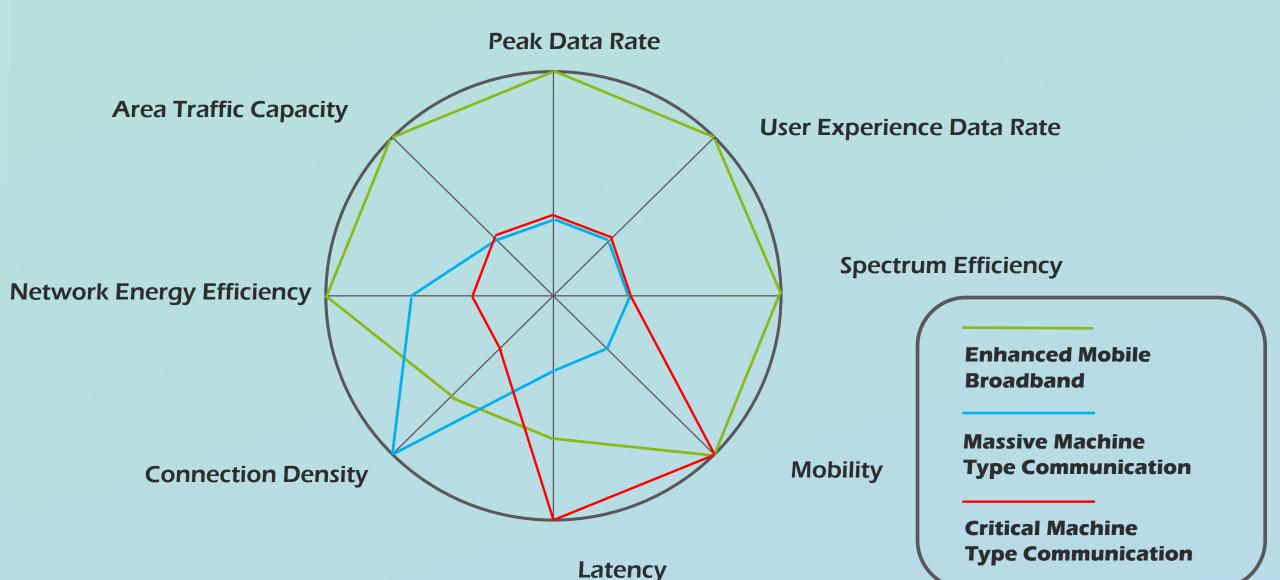
CRITICAL CONTROL OF REMOTE DEVICES





## RANGE OF IOT REQUIREMENTS









# IOT VALUE DRIVERS & CUSTOMER NEEDS





## TECHNOLOGY FOR GOOD: SUSTAINABILITY















# IOT VALUE DRIVERS & CUSTOMER NEEDS





# CONNECTED VEHICLE CLOUD







Sensus
Cloud
Powered by Ericsson

2013

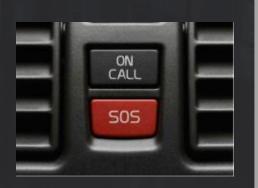
2015

2016

## EVOLUTION OF CAR & DRIVER NEEDS







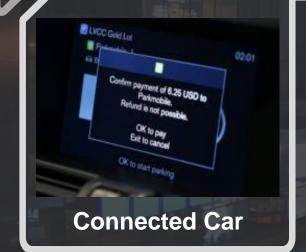
#### **DEVICE DRIVEN**



**Telematics 1.0** 



#### **BUSINESS DRIVEN**



#### **NETWORKED SOCIETY**





#### **INNOVATION DRIVEN**



## IOT IS A JOURNEY TO A DYNAMIC ECOSYSTEM Collaboration + Partners,

Channels, Customers

**Ecosystem of** Things

Connect & **Collect** 

**Operational Optimization** 

Unlocking **Enterprise** or **Public Value** 

**Ecosystem Evolution** 

Ops Data

Correlated Data

Internal Data

External 3rd Party Data

**Data Integration Plane** 

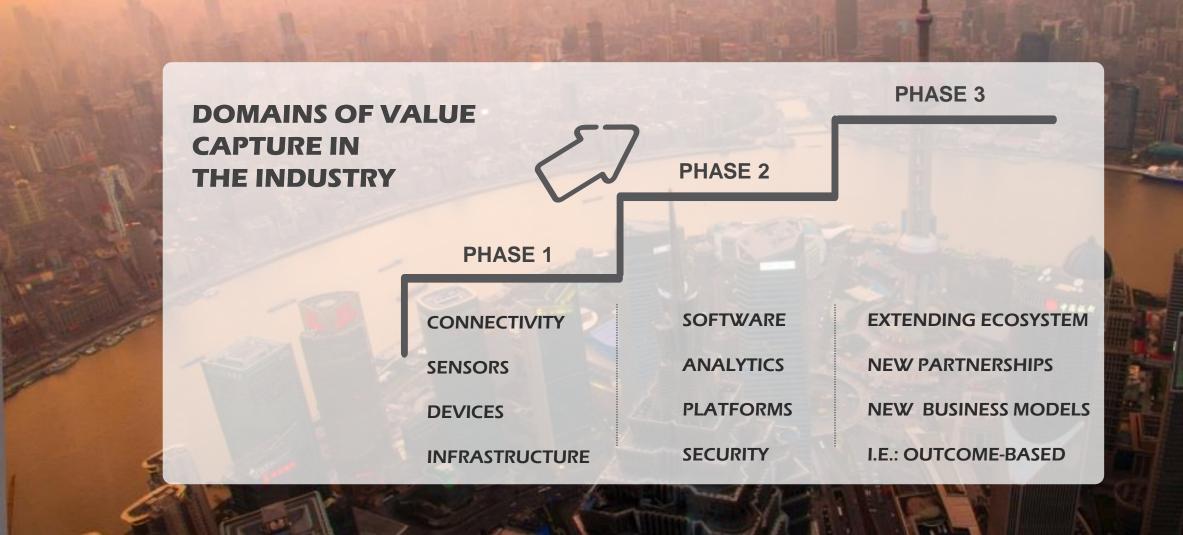








## WHERE ARE WE HEADED?



## TRANSFORMING BUSINESS LOGICS

#### INDUSTRIAL AGE LOGICS

- Value Chains
- Products & Services
- Transactional Business Models
- Vertical Silos
- In-House Innovation
- Customer Solutions
- Transactional Partnerships
- Scale With Assets

#### **NETWORKED SOCIETY LOGIC**

- Ecosystem
- Value Proposition
- Output-Based Business Models
- Cross-industry Collaboration
- Collaborative Innovation
- Customer Value-(Co)creation
- Strategic Partnerships
- Scale With Scope & Speed



# ILLUSTRATING THE NETWORKED SOCIETY 5





Lapka PEM Personal environment monitor reveals an



Mobile service brings transparency to food production.



Maersk Line Connectivity optimizes the efficiency of cargo shipping fleet.



Remote Schooling Bhutan Online project connects students across



CuteCircuit The intersection of fashion, wearable tech and communication.



Misfit Wearables Device helps you to live an active life.



Adidas miCoach Smart Ball Taking food delivery to the next level. A coach inside a football



Zero Site Smart collaboration improves street lighting and network coverage.



Boliden 'Aitik' Mine Connectivity enables remote management from a single dispatch.



Volvo Connected Car Cars deliver more than transportation.



RunKeeper App functions as a personal running



Wonder Workshop Toy robots help children to learn



Music streaming service revolutionizes



Antenna Integrated Radio Providing network coverage for the next



The Bay Lights The evolving landscape of art with



Emojis in Real Life Web platform pairs native speakers with Self-expression in the Networked Society.



MC10 + Reebok: CHECKLIGHT Making contact sports safer with monitoring devices.



Norwegian Polar Institute Device helps researchers track polar bears more accurately.



OCEARCH Connectivity helps to protect endangered sharks through education



An online community encouraging kids to



Nepal Wireless Networking Project Bringing the benefits of connectivity to



DreamHack Open Bucharest Connecting the global community of



Saroo Reconnection A family is reunited using interactive satellite imagery



Remote Flight Services Controlling several airports from a single



Hospital uses video calling to improve quality of treatment



Rainforest Connection Using existing mobile infrastructure to monitor and protect rainforests



Igarapé Institute Safer police enforcement on the streets



Firefighter app Firefighting application helps to save



Avicii X You DJ asks fans to collaborate on a his next



iKure Techsoft Technology brings remote healthcare to



EyeNetra A smartphone add-on that can test



Airbnb Online platform opens new ways to live



Copenhagen Wheel Transforming any bicycle into a smart



MC10 BioStamp Tiny device monitors the health of



Ann helps ranchers to monitor their herd



M-Commerce in Uganda Banks and telecoms collaborate to increase financial inclusion



Instagram Foodie Ida Frosk Networked Society helps to turn passion into profession.



Children's Memorial Hermann Hospital Children's hospital provides virtual zoo visits for patients.



Wearable technology helps users reach their fitness goals.



TELE Greenland Connecting the most remote communities of Greenland.



@tunameltsmyheart Abandoned dog becomes an unlikely internet celebrity



Community helps people share and discover the world around them.



SoundCloud Platform transforms how sounds are