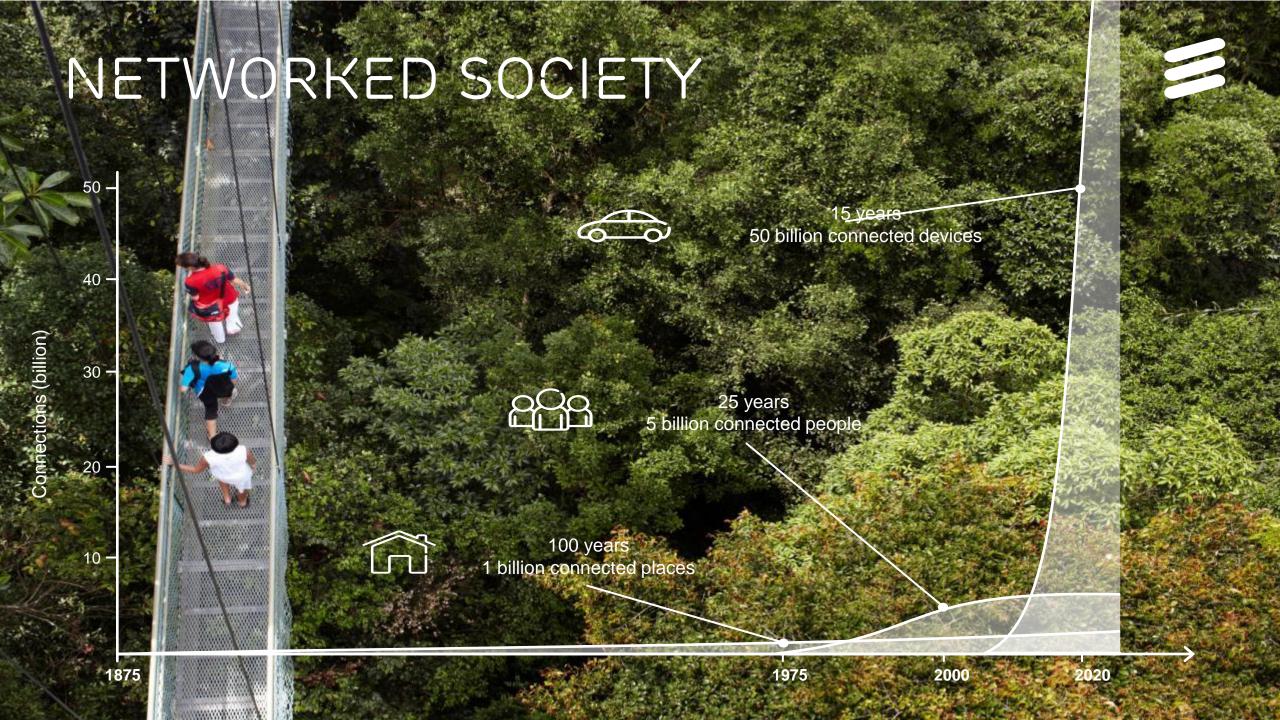




SMART METERING AS A SERVICE

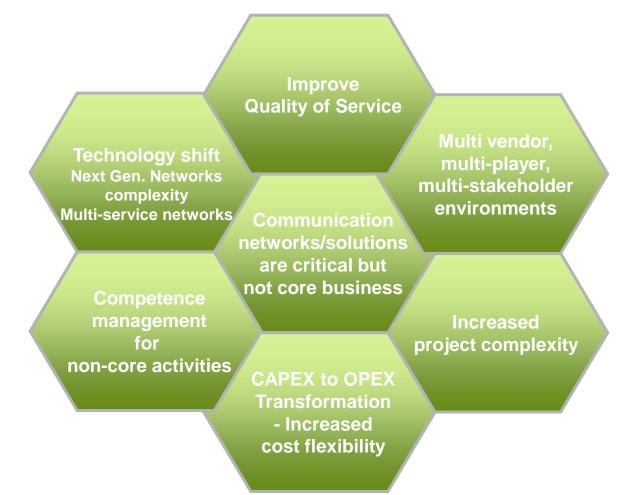
ERICSSON

Julio Echenique Carbonell
SMART METERING GLOBAL OFFERING LEAD



WHY SMART METERING AS A SERVICE?





Utility benefits:

- Utility can focus on core business/activities
- › Optimal Technology choice
- One Single-Point-of-Contact
- Access to best in class resources for managing their network
- A controllable and visible solution operational cost
- > Flexible solution that follows the company's core activities requirements
- A proven approach to reducing the total cost of ownership

BUSINESS CHALLENGES



FUTURE PROOF

- Long term technology sustainability
- > Open or easy to access data, technologies and protocols
- > Flexible and adaptable to regulatory and market changes

EFFICIENCY

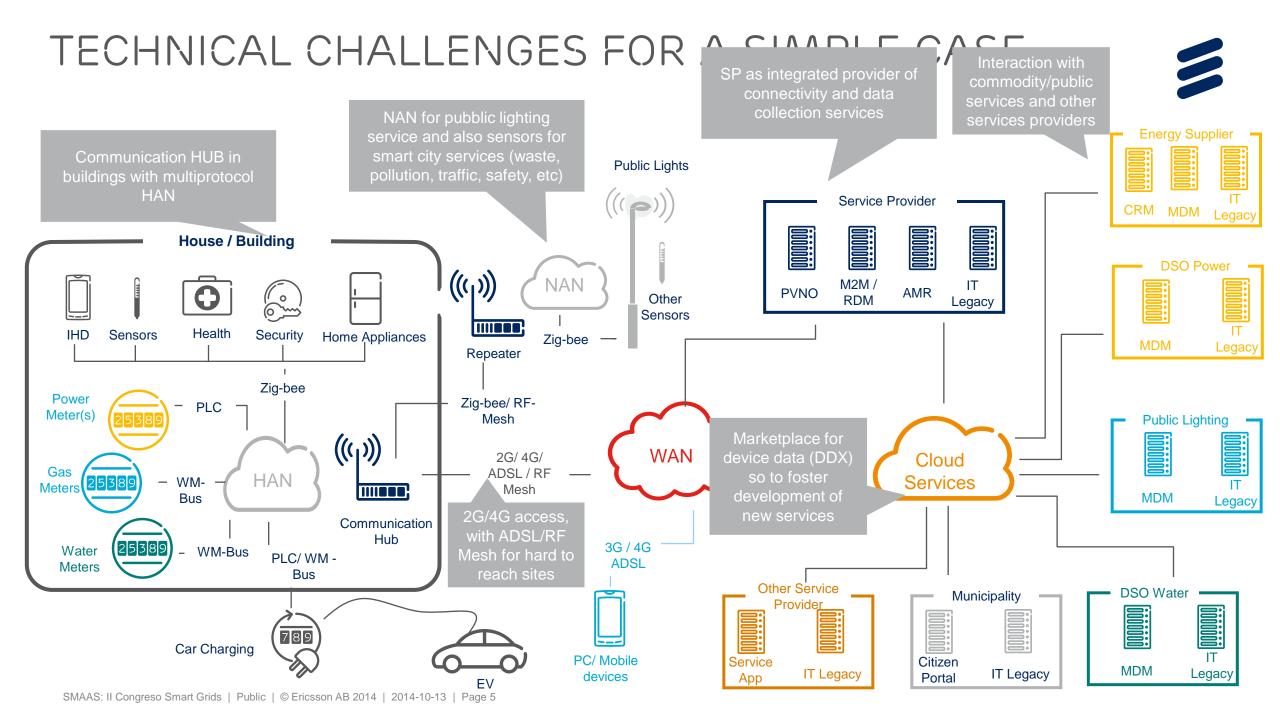
- Use of existing infrastructure (no redundant investments)
- Connectivity agnostic
- > Cost reduction due to economies of scale

SCALABILITY

- Many services (water, electricity, waste, street lights, etc.),
- › Geographic scalability
- Capable to enable smart city development

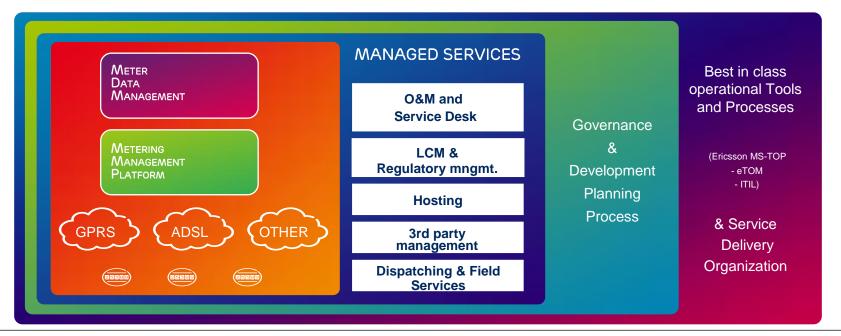
CONTROL

- > Utilities needs to keep the control of the operational data and solution development
- Security and data privacy need to be managed



SMART METERING IS MORE THAN AMI





REAL CASES



- > Third largest power distributor in Italy (and #1 water distributor in Italy).
- Complete managed Advanced Metering Management operation service for <u>1.6</u> <u>million</u> electricity meters and 500 streetlighting substations



- > E.ON Elnat Sverige, part of E.ON Group
- Ericsson operates more than <u>600.000</u> E.ON smart meters from 20 different vendors in Sweden
- Solution combines managed services, system integration, ICT and field services
- > Industrialization of "Meter-to-Cash" processes



- > Electrilevi is the main DSO in Estonia
- Ericsson as prime integrator to suplpy, deploy, system integrate and run a smart metering network
- Includes deployment of <u>630.000</u> smart meters and the needed IT systems



- Ericsson chosen to deliver nationwide SMaaS (including related field operations) for more than **700.000** L&G meters and more than 20 customers in Finland. Contract starts Oct 1st, 2014
- Contract includes transfer of 13 L&G employees to Ericsson

ESTABLISH & OPERATE NEW SERVICES CUSTOMER NEEDS



- Competence and skills to launch a new services and technology
- Managing risks during a change in the communication network and metering devices rollout



No decline in performance during the process

ESTABLISH & OPERATE NEW SOLUTION SMART METERING AS SERVICE TO OFFER



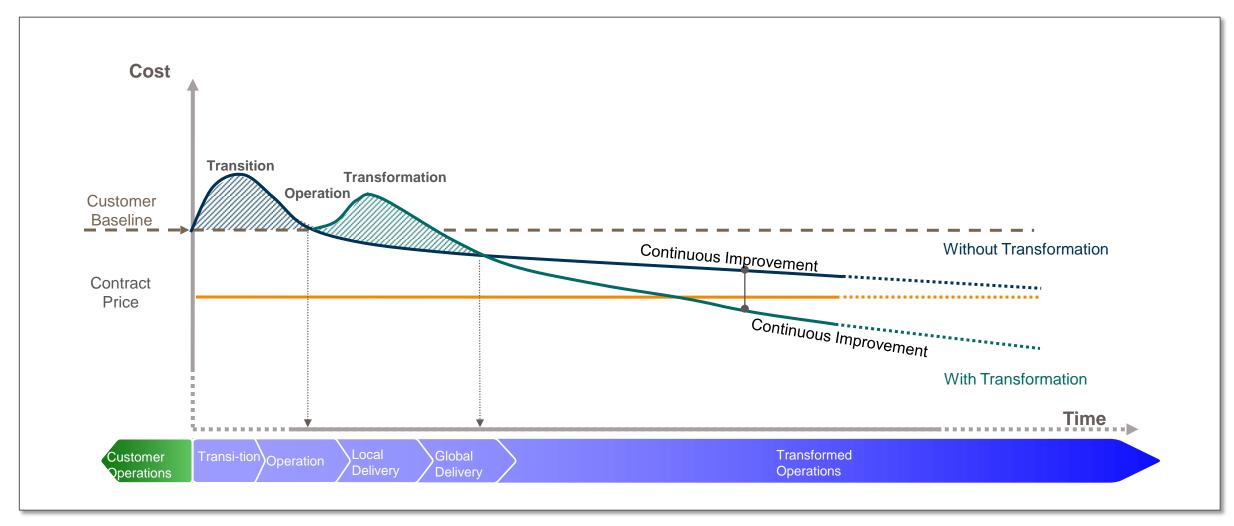
- Global knowledge and experience delivered locally within your premises
- Quality improvement linked to Operational Readiness activities
- End to end operations responsibility during critical change period
- Competence transfer



Fast time to market for new solution and services

UNDERSTAND BEFORE TRANSFORM





SMAAS: MODEL USE EXAMPLE (SIMPLIFIED)



Service Management

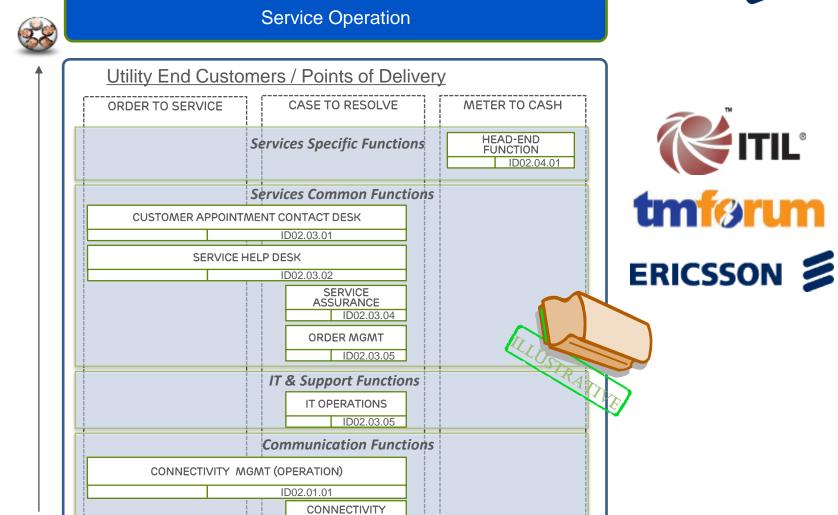
Internal Utility Client
(service owner unit)

SMAAS MGMT
(SLAS, LCM, CONTRACT)

ID01.01

Providers
(external and internal clients)

PROVIDER MGMT
| ID01.04



MGMT

ID02.01.01

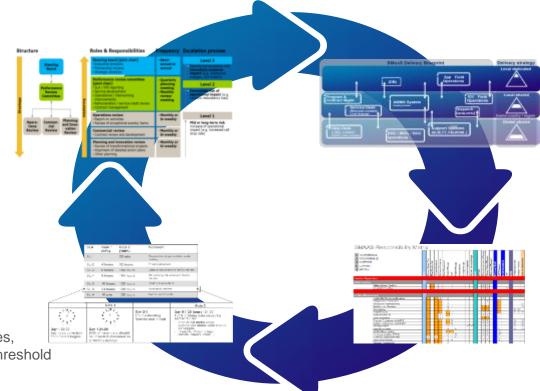
Ericsson SMaaS acts as main point of contact for all Smart Metering related activities, simplifying the utilities relationship with internal and external clients

MAIN COMPONENTS OF A INDUSTRIALIZED SERVICE MANAGEMENT MODEL



GOVERNANCE MODEL

- > Three-level governance model:
 - Level1: Operations, Commercial,
 Planning & Innovation review
 - Level 2: Performance review
 - Level 3: Steering Board review



OPERATIONAL MODEL

- Industrialized processes and procedures
- Combination of local dedicated, local/global dedicated/shared resources
- › Based on Ericsson Managed Services Blueprint

SLAS & REPORTING

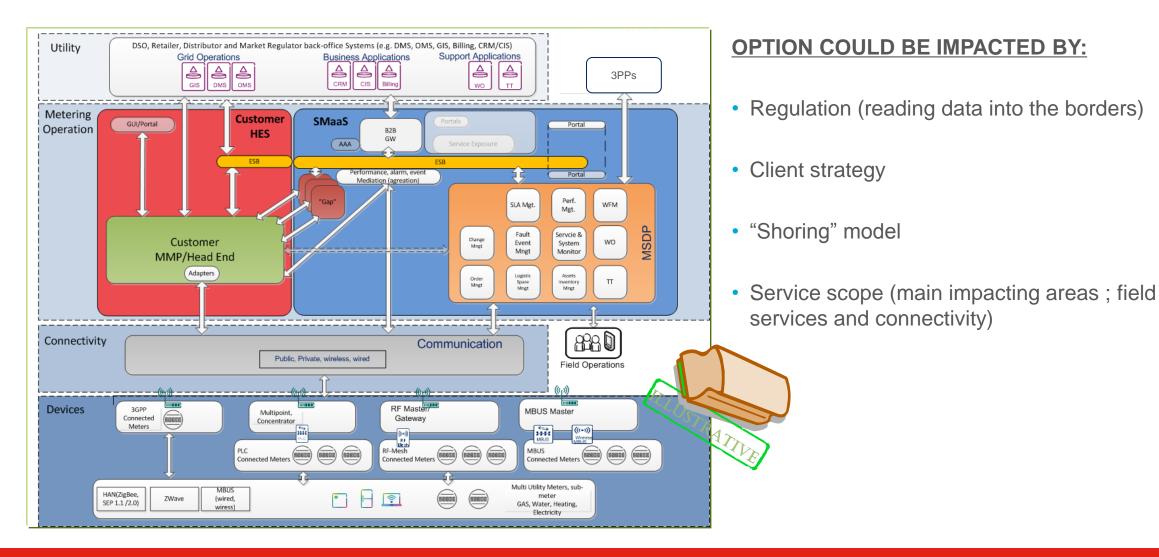
- KPIS/SLAs to be agreed between both parties, including severity level, description, type & threshold
- > Reports include:
 - Quaterly Service Performance Report (scorecard & quality indicators, KPI trends, Procedure Manual Reviews, and proposals for strategy changes)
 - Monthly Service Performance Reports (status report, forecast, Service Quality & SLA fulfilment, complaints, etc.)
 - Incident / Service Fault Reports

RESPONSIBILITY MATRIX

- RASCI (Responsible, Accountable, Support, Consult, Inform) matrix covering all service domains (Service Management & Service Operations) according to MSTOP framework:
 - Delivery management (service strategy)
 - Planning & Engineering
 - Deployment & Integration
 - Service Operations

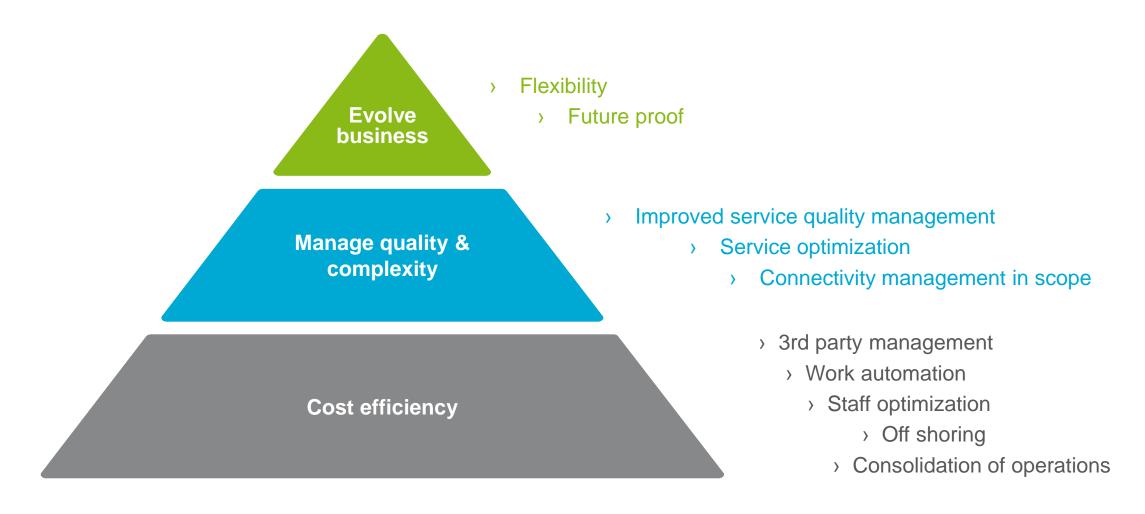
SMAAS: TECHNICAL SOLUTION MODEL FLEXIBILITY /ADAPTABILITY





MODEL BENEFITS





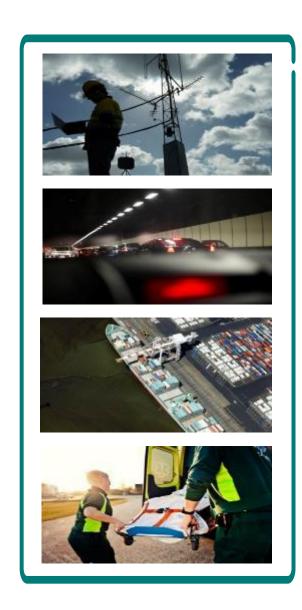
NEXT STEPS



 Begin with non mission critical services (Smart metering)

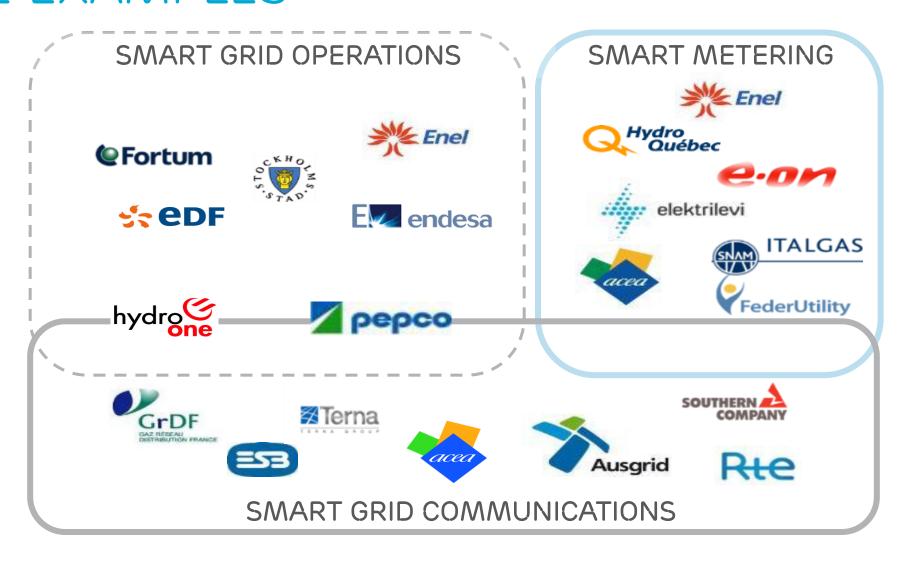
 Put focus in the KPIs management related with security and processes improvement

Work with a reliable partners



ERICSSON UTILITIES REFERENCES SOME EXAMPLES





UTILITIES TRACK RECORD



>42

MILLION METERS

MANAGED BY PLATFORMS DEVELOPED, OPERATED OR MAINTAINED BY ERICSSON

>20%

SAVINGS

IN COST OF COMMUNICATIONS OPERATION, BY UTILITIES THAT HAVE SELECTED OUR COMMUNICATIONS NETWORK OPERATION SERVICES

INNOVATION

FOCUS ON INNOVATION FOR UTILITIES, PARTICIPATING IN SEVERAL INNOVATION PROJECTS SUCH AS GAD, STOCKHOLM ROYAL SEAPORT, AUSGRID, FINESCE, ADDRESS, PRICE AND ELVIIS



STANDARDS

PARTICIPATING IN SEVERAL STANDARDIZATION BODIES FOR UTILITIES SUCH AS MANDATES M441 AND M490, ESMIG, ETSI M2M, NIST, IEEE, UTC, GWAC, ETC.

FIRST

4G (LTE) NETWORK

DESIGNED AND DEPLOYED FOR SMART GRID & FIELD FORCE COMMUNICATIONS

9 UTILITIES

HAVE SELECTED ERICSSON'S SMART METERING AS A SERVICE MODEL

NEXT GENERATION ENERGY NETWORK POWERED BY ICT...









MUCHAS GRACIAS

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