

THE NETWORKED SOCIETY AND THE INTERNET OF THINGS

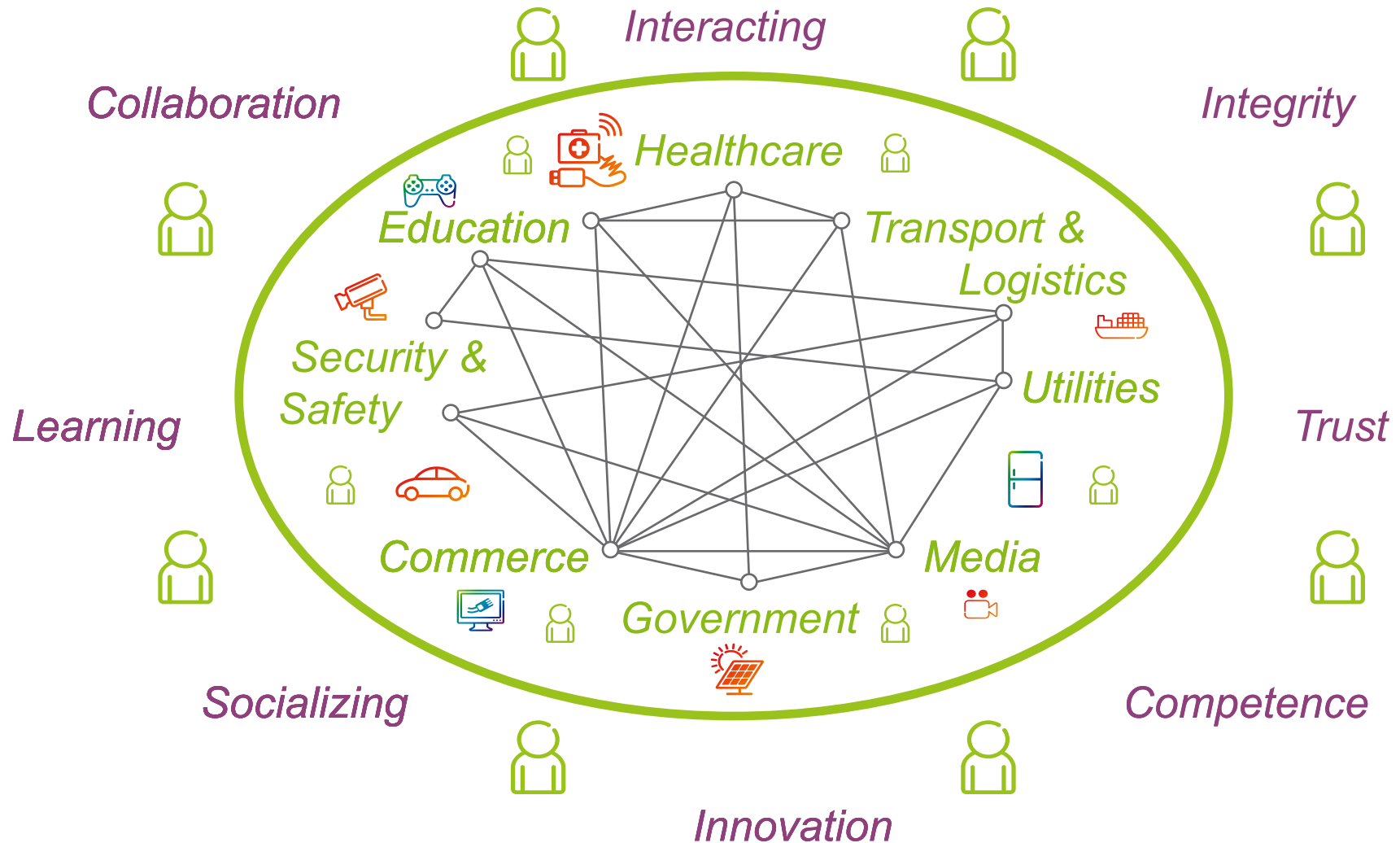
Real World resource layer

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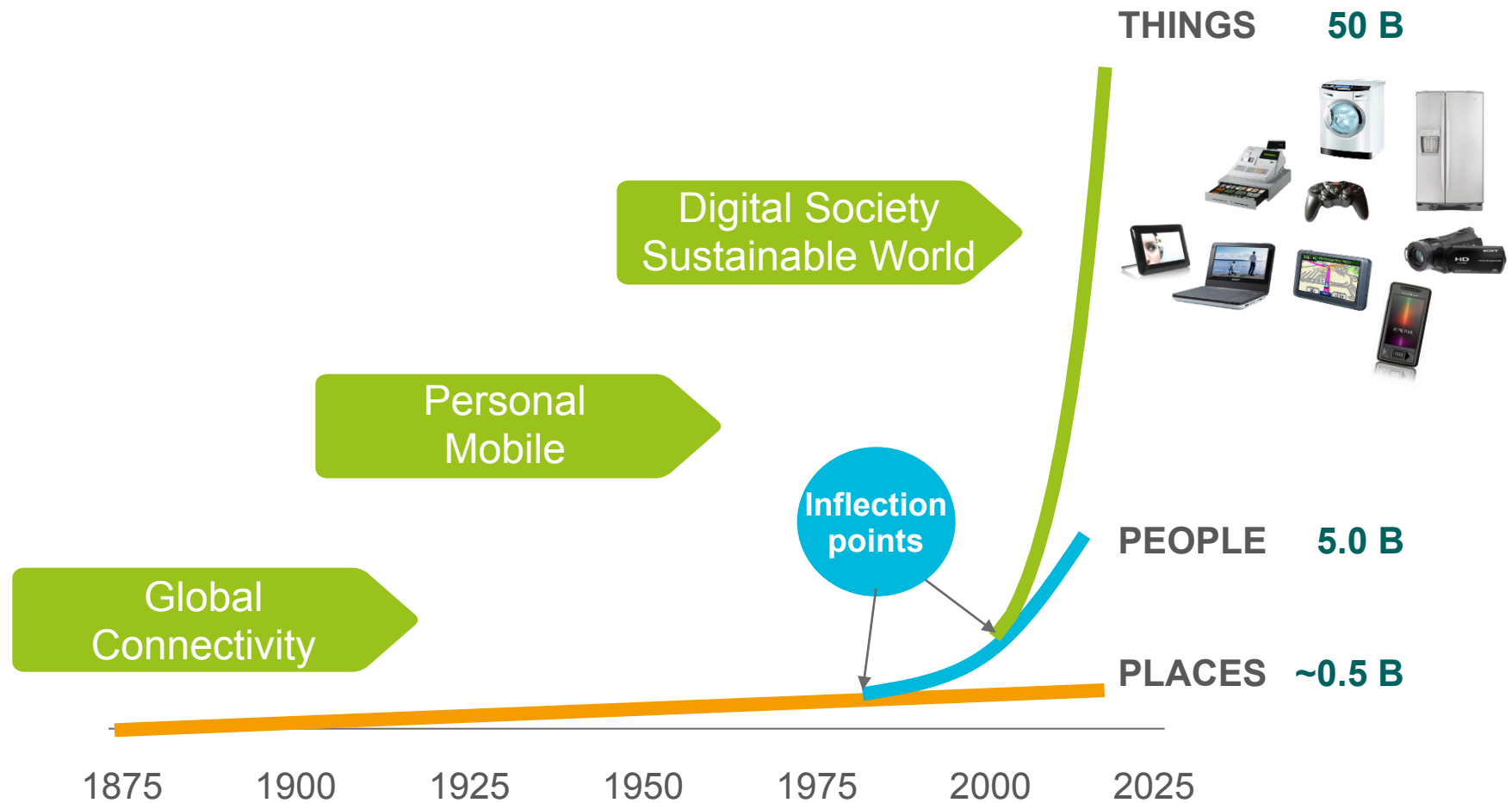
CHINA ICT ALLIANCE WORKSHOP, 9TH MARCH 2012



THE NETWORKED SOCIETY VISION



ALREADY GETTING CONNECTED



Source: Ericsson

IOT CHALLENGES

Technology

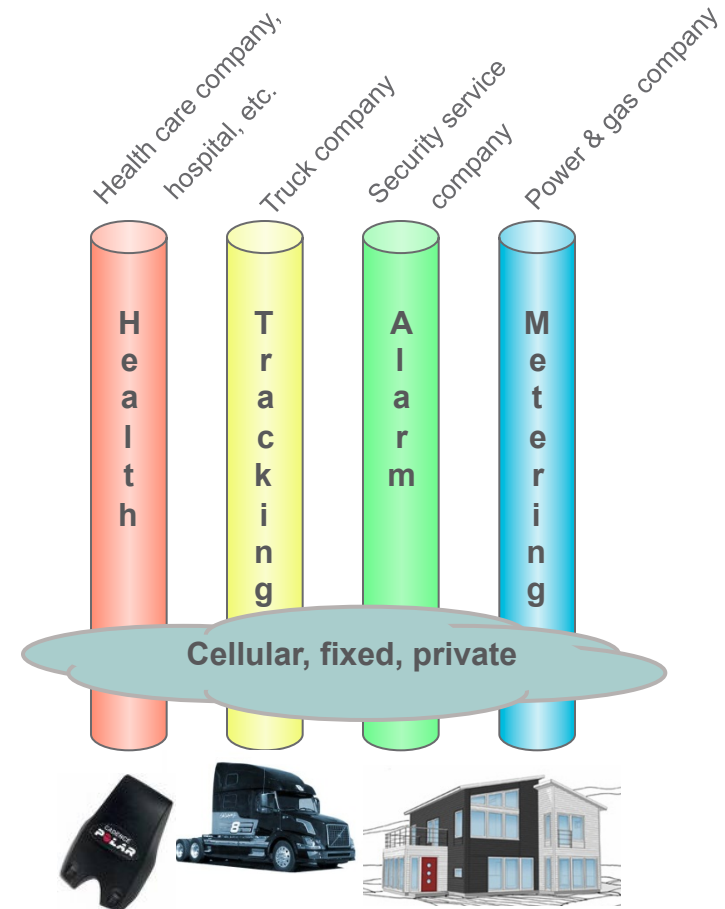
Usability
Scalability
NW management
Energy consumption
Security

Business

Standards
Ecosystems
Business models
Verticals
Start-ups

CURRENT SOLUTIONS – STOVE PIPES

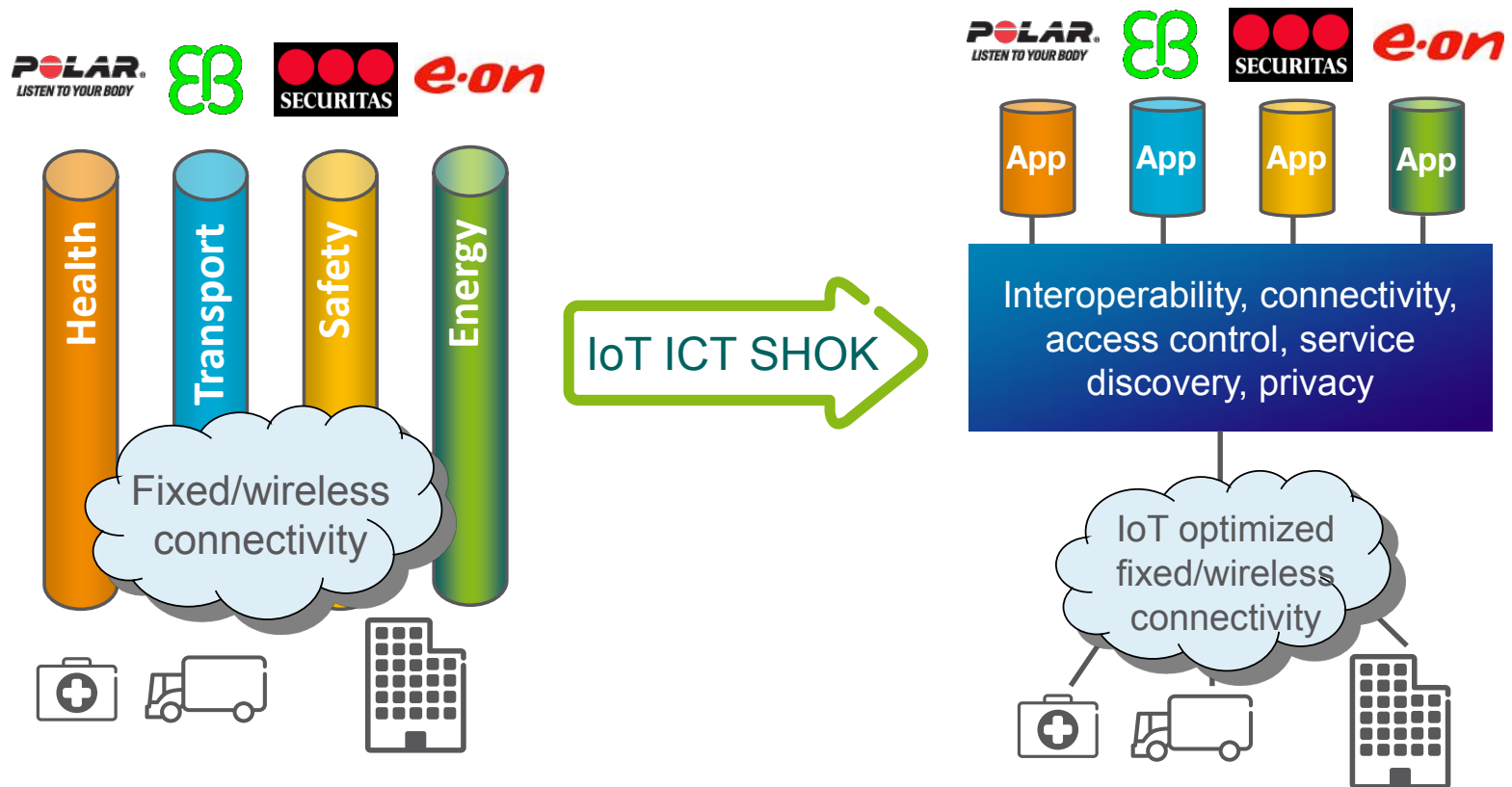
- › Single purpose M2M device deployments
- › Vertical silo solutions for each M2M application with a tight end-to-end integration
- › Re-development of "same functionality" in every vertical
- › Complexity in solution realization
- › Lack of cross-industry standards



Efficient, flexible and open M2M service enablement is critical

IOT SRA PROGRAM

Building the foundations for new horizontal solutions



UTILIZE STRENGTHS OF MOBILE NETWORKS

Ubiquitous coverage

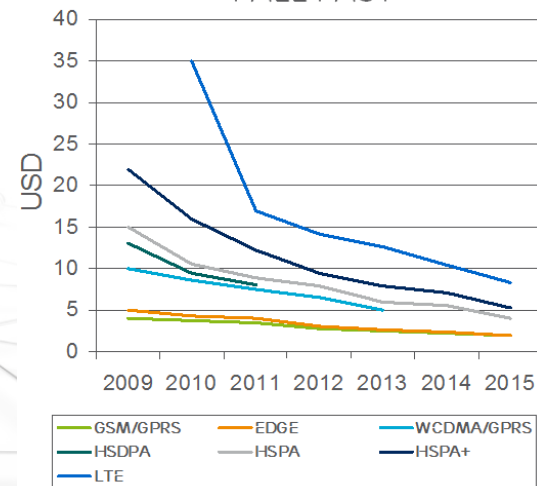
Existing networks

Global roaming

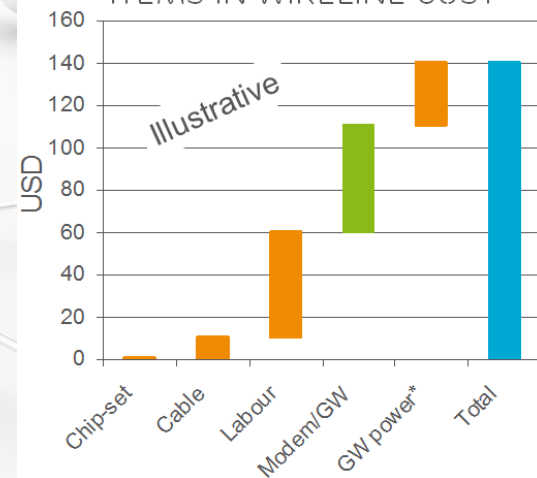
High performance

Economy of scale

3GPP CHIP-SET COSTS
FALL FAST



MOSTLY NON-FALLING
ITEMS IN WIRELINE COST



EXAMPLES COORDINATED FROM OUR RESEARCH LAB IN BEIJING...

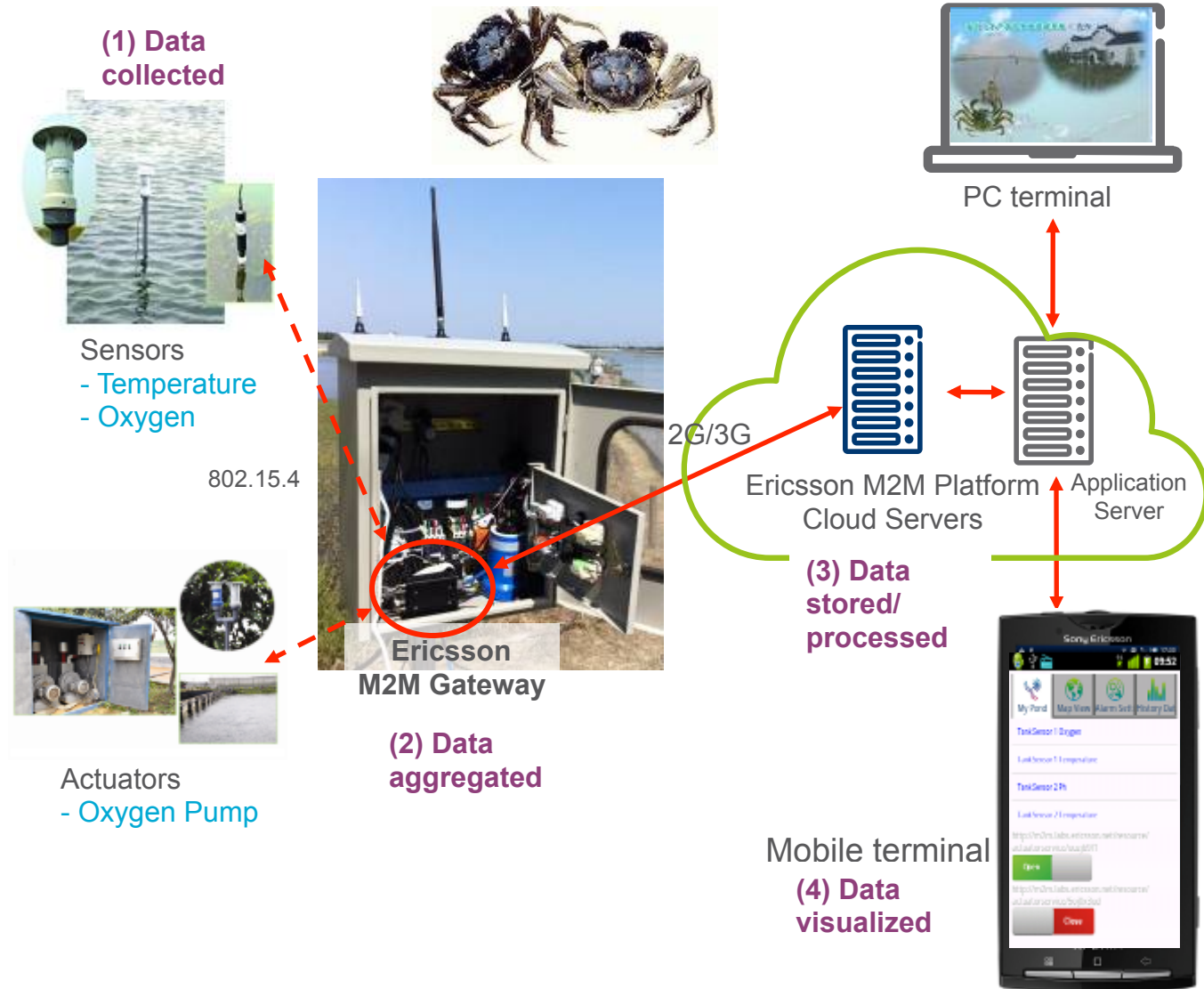
EXAMPLE IMPLEMENTATION: FISH FARM PROOF-OF-CONCEPT

> Purpose

- Show **M2M solution** that can be used in different industry verticals
- Demonstrate ICT to help farmers in rural China be more efficient in their work and thus generate more profit from their farms

> Main Functionalities

- **Monitor** water conditions; temperature, dissolved oxygen, pH, depth through distributed sensor networks
- Remote **control** actuators to improve water conditions
- Process and **expose** sensor data in agriculture specific applications (PC and **Smartphone**)

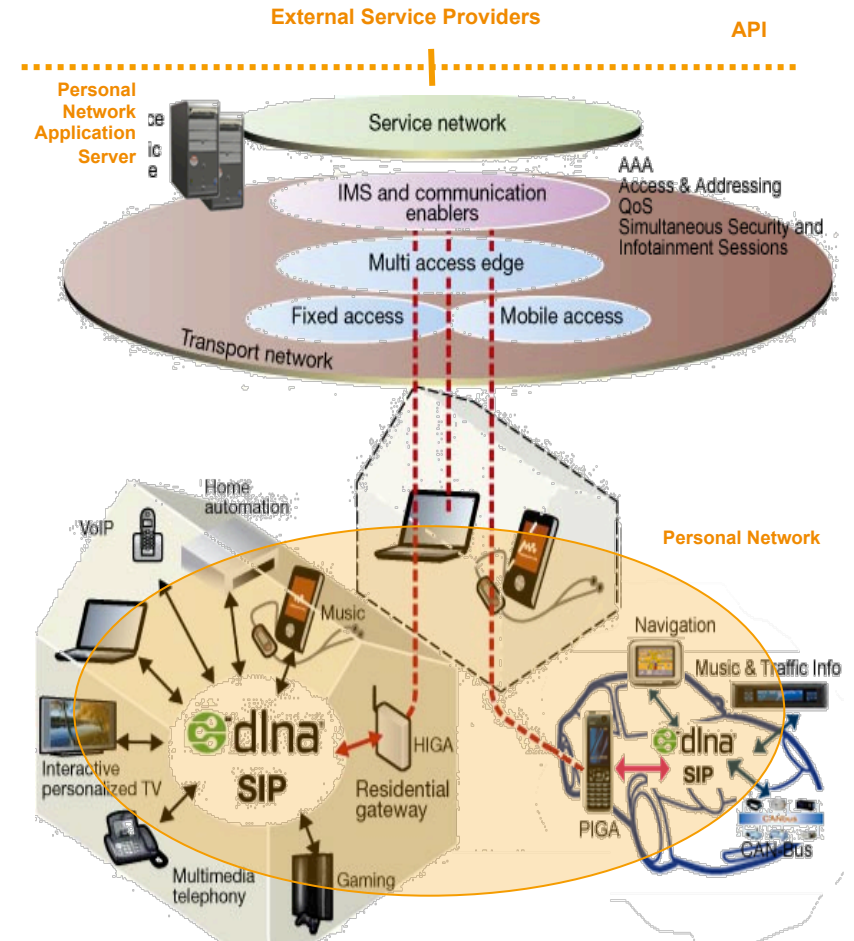


EXAMPLE IMPLEMENTATION: TWO MAIN CAR INITIATIVES

TRAFFIC HAZARD WARNING



CONNECTED CAR



SUMMARY AND CONCLUSIONS

- › In the Networked Society, **everything** that benefits from a **network connection** will have one
- › We need to move from the current stove pipe solutions to a **horizontal** model
- › To realize this we need **cross-research area collaboration**





ERICSSON