

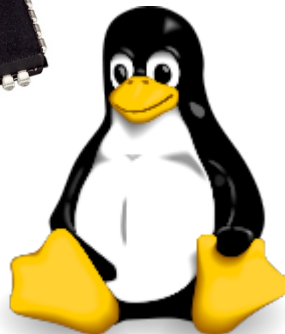
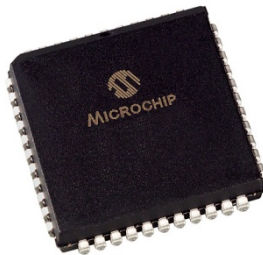
Open standardisation for the Future Internet

Future Internet Assembly
15-16 April 2010, Valencia

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ETSI Secretariat
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Standards are important...

- ❑ ICT markets are shaped by standards
 - de facto, industry, fora, SDOs
 - Communications system standards
 - IT and software systems
 - File formats
 - Physical, environment and packaging



...for Researchers

- ❑ European strength in collaborative R&D for ICT



- ❑ European R&D in ICT must lead to standards activity
 - To develop new products, new services, new markets
- ❑ Input is not enough – longer term participation is required
 - Driving, not disseminating
- ❑ Future Internet Research is an extreme example
 - Today's communications networks are highly standardized

Mind the Gap!

- What to standardise?
- Funding – for membership, travel and time
- How to choose the right standards bodies?
- Getting the timing right
- Recognising vested interests
- Which partner(s) participate?
- IPR ownership, or who can contribute what?

- COPRAS Standardization Guidelines for IST research projects interfacing with ICT standards organizations
 - <http://www.w3.org/2004/copras/docu/generic-guidelines.pdf>

ETSI – A Global Player

- ❑ Globally applicable standards for Information & Communications Technologies:
 - Telecommunications
 - Radiocommunications
 - Broadcasting
 - Other ECNS related areas
- ❑ Officially recognised European Standards Organization
- ❑ Independent, Not-for-profit
- ❑ Direct member participation
- ❑ Over 700 members from 62 countries
- ❑ c. 25,000 publications available for free



Located here at Sophia Antipolis, France

ETSI in a nutshell

- ❑ Track record of worldwide industrial successes (fixed, mobile, broadcast)
- ❑ ...enabled also by an efficient IPR policy (FRAND)
- ❑ Global network of partnerships and alliances
 - US, China, MEA, Japan, Korea, Latin America
- ❑ Major focus on Interoperability
 - CTI → IOP engineering & testing for ETSI TBs and many others



<http://www.etsi.org>

<http://portal.etsi.org>

ETSI open to research results

- ❑ **Incubator or pre-standardisation groups**
 - **Industry Specification Groups**
 - **Open for non-member participation**
- ❑ **Workshops and events with R&D community**
 - **Hosting at ETSI, and attending, listening**
- ❑ **Reduced barriers to access and participation**
 - **Reduced membership fees and easier access**
 - For Universities & Public Research Bodies
 - For SMEs
 - **Electronic participation**
 - **Standards available for free on the internet**
- ❑ **Partner in selected R&D projects**
- ❑ **'New Initiatives' team in Secretariat**
 - **Help on creating an ISG , finding existing TBs, founding a new TB**

ETSI in Future Internet Standardization

- ❑ **3 ETSI Industry Specification Groups (ISGs)**
 - Resulting from FP7 Future Networks related R&D projects
 - Open to all – members and non-members of ETSI
 - **AFI: Autonomic network engineering for a self-managing Future Internet**
 - <http://portal.etsi.org/afi>
 - **INS: Identity and access management for Networks and Services**
 - <http://portal.etsi.org/ins>
 - **MOI: Measurement Ontology for IP traffic**
 - <http://portal.etsi.org/moi>
- ❑ **Proposal for new ISG on Future Internet Architecture**
 - Also TC GRID/CLOUD, MCD, M2M, TISPAN etc.
- ❑ **Culture of co-operation with other standards bodies such as IETF, ITU-T (and 3GPP!)**

ETSI Future Network Technologies workshop

- ❑ 10-11 March 2010 in ETSI, co-located with Future Internet Cluster meeting
- ❑ 120 delegates, 18 presentations, 1-hour discussion session

- ❑ Focus on:
 - Network Virtualisation
 - Content centric-networking
 - Autonomics
 - Architectures

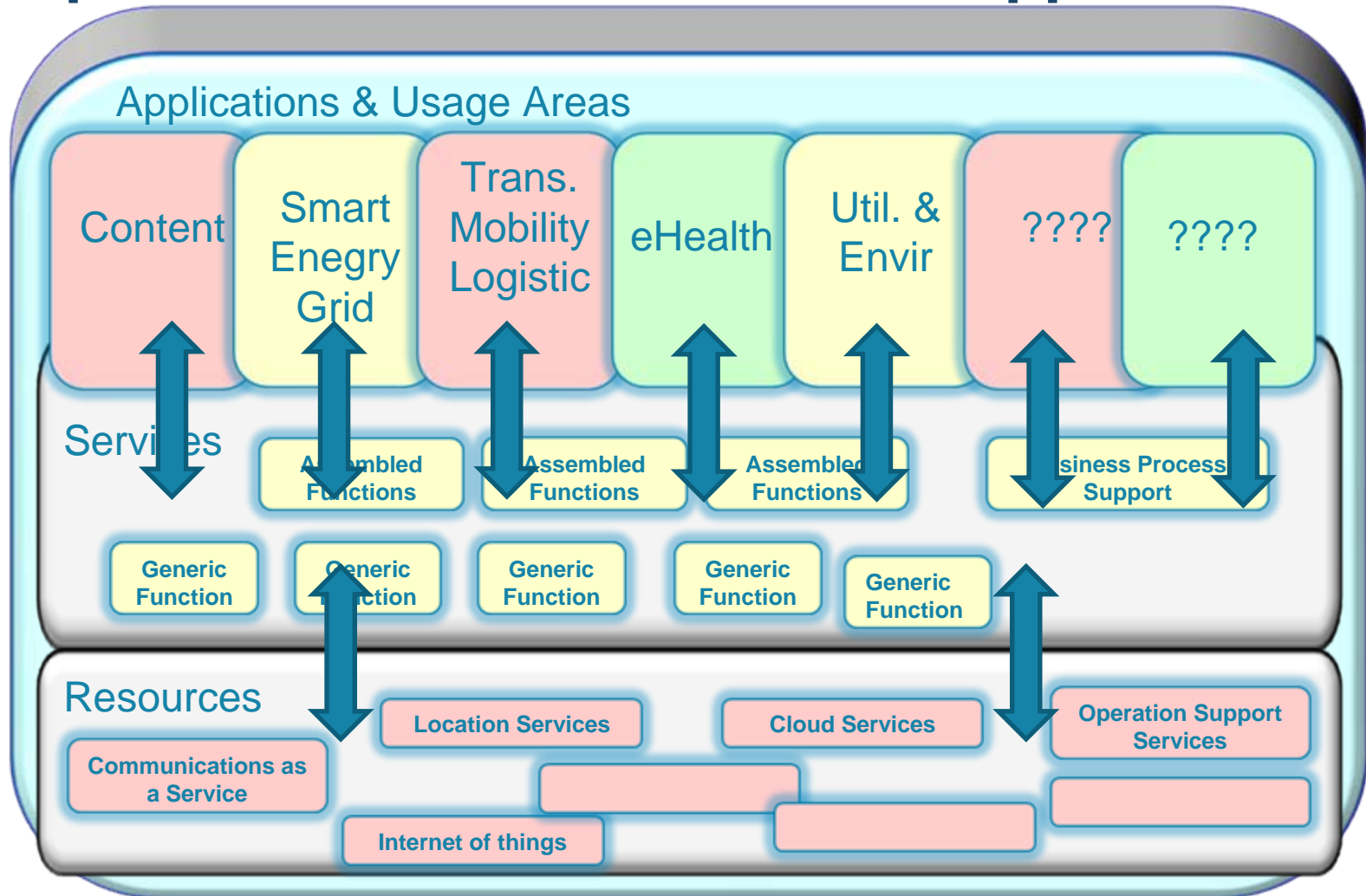
- ❑ Early standardization proposals in Network Virtualisation
- ❑ Clear divergence of views on need for a common architecture
 - No clear convergence on any one architecture

- ❑ Next steps:
 - Start focused discussions on Network Virtualisation
 - Demand for follow-up event

Standardization in the PPP

- ❑ **From the FI PPP Communication:**
 - **“An essential characteristic of such a PPP should be to develop open, standardised, cross-sector service platforms”**
- ❑ **EFII White Paper foresees large-scale infrastructure for applications in eHealth, M2M, Smart Grid and ITS sectors**
 - **All industries currently active in ETSI standardization!**
 - **Need to define architectures, interfaces, information flows for common enablers**
- ❑ **Open specifications for an open cross-sector platform, with open interfaces to enable new applications**
 - **Use an open process and existing structure**
 - **ETSI Industry Specification Group offers a solution**

Open interfaces to enable new applications



ETSI standardization system is a key enabler for the success of the Future Internet PPP