



World Class Standards

FUTURE NETWORK STANDARDISATION AT ETSI

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FUTURE INTERNET IN ETSI?

- 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
 - **INS**: Identity and access management for Networks and Services
 - **MOI**: Measurement Ontology for IP traffic
 - And others can easily be created

- Sector-specific standardization committees:
 - M2M (Smart Meters, Smart Grids), eHealth, ITS, MCD & BROADCAST, RFID & IoT, Grids and Clouds, and traditional network technologies in TISPAN

- Culture of co-operation with other standards bodies such as IETF, ITU-T (and 3GPP!)

Standards and the Future Internet

Public Private Partnership



- “An essential characteristic of the PPP should be to develop open, standardised, cross-sector service platforms”
- Large-scale Usage Area projects 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 needed for an open cross-sector platform, with open interfaces to enable new applications

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



LESSONS LEARNED

Issues for research projects

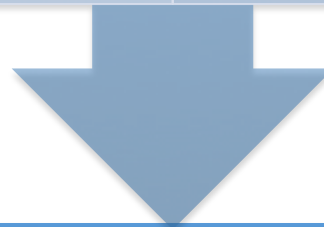


- What to standardise?
 - Look for 'Golden Nugget' technologies
- Choosing the right standards body
 - Look for critical mass and existing markets
- Getting the timing right
 - Standards can sometimes move FASTER than R&D projects!
 - No one point in time: prepare for a process
- Funding – for membership, travel and time
 - Time most expensive
- Which partner(s) participate?
 - Vested interests are GOOD!
- IPR ownership, or who can contribute what?
 - Start with who owns what?

The Key Challenge is to Transform Innovation Leadership into Market Leadership

It is not sufficient to be innovative, or to master the innovation environment

How to ensure first mover / innovative advantage is not wasted?



Standards help first movers to build market leadership

First movers set the standards and use them to impose their market leadership

Standardization offers a market for knowledge to innovative firms

Standardization offers a path to exploit R&D results



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THANK YOU

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