Importance of Standardisation to Innovation

- COM(2008)133 Towards an increased contribution from standardisation to innovation in Europe:
  - "standardisation that is lively and strong has the power to accelerate the access of innovation to both domestic and global markets"
  - "...a level playing field facilitating interoperability and competition between new and already existing products, services and processes"
- COM(2010)546 Europe 2020 Flagship Initiative Innovation Union:
  - "highlights the role of standardisation as a policy instrument to enhance innovation in Europe"

EC Annual Policy Letter to ESOs (27.07.13)

- "An important element for creating sustainable growth is bridging the gap between the research and development (R&D) results in the laboratories and the successful uptake by the market of new products.
- This gap is bridged by innovation, often considered as independent discipline acting from a distance and trying to bring the research and the industrial work closer.
- In order to stimulate innovation, standards should be timely available, and this requires that the standardisation process anticipates and closely follows up research and development activities"

An ESO with direct membership of organizations

- Over 750 companies, big and small, from more than 60 countries on 5 continents!
- In ICT standardization direct membership and free availability of deliverables is the rule!
- 11% Research Institutes & Universities

ETSI: one organization – three roles

- GSP: Global Standards Producer: ETSI creates standards intended to meet global needs in ICT (global applicability of technical specifications)
- ESO: European Standards Organization: ETSI produces Harmonized Standards in all areas of telecommunications & ICT used to access European market
Results from the FP7 JTC1 Sophia Antipolis 8th SIIT Conference, ETSI, 24.-26.9.2013, Sophia Antipolis

**ETSI’s structure**
- General Assembly
- Board
- Special Committees
- ETSI Technical Body
  - Technical Committees
  - ETSI Projects
  - ETSI Partnership Projects
- ETSI Industry Specification Groups
- Secretariat
- (Experts in Specialist Task Forces)

**ETSI’s Partnerships**
- Standards development is fragmented
- Extend geographic reach and reach out to increasingly complex eco-systems
- Over 80+ partnerships including many fora/consortia

**ETSI’s Deliverables – Level of consensus and formal status**
- ETSI Group Specifications (GSs)
- ETSI Technical Specifications (TSs)
- ETSI Technical Reports (TRs)
- ETSI Standards (ESs)
- ETSI Guidelines (GSs)
- European Standards (ENs, telecommunications series)
- Harmonized Standards (HS)

**ETSI’s Innovation in Processes**

**ETSI’s use of remote collaboration tools**

**Research input to Standardisation**
- QKD – Quantum Key Distribution
  - Results from FP7 SECOQC project
- AFI – Autonomic network engineering for the self-managing Future Internet
  - Results from the FP7 EFIPANS project
- MTC – Mobile Thin Client Computing
  - Results from the FP7 MobiThin project
- MOI – Measurement Ontologies for IP traffic
  - Results from FP7 Moment project
- INS – Identity and access management for Networks and Systems
  - Related to SWIFT (FP7) and Daidalos (FP6)
ETSI's Workshops and Conferences

- Open and free participation
- Reach out to a wider community
- Explore new technologies and facilitate industry consensus
- Further develop the work programme
- Examples:
  - Security workshop series
  - Intelligent Transport Systems workshop series
  - M2M workshop series
  - Future Network Technologies workshop series
  - Reconfigurable Radio Systems, Energy Efficiency, Smart Cities

ETSI's Strategic Topics

- Examples including ‘Hells Kitchen’ workshops 2008-2013:
  - Machine-to-Machine (M2M) Communication
  - The Internet of Things (including RFID)
  - Service level Interconnection of IP-based Services
  - Service-Oriented Architecture (SOA)
  - The Wireless Factory
  - Web 2.0 and IMS
  - Smart Grids
  - Smart Cities
  - Smart Appliances

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A Connected World:
ETSI's Standards Programme

Work programme at: http://portal.etsi.org/portal/server.pt/community/home/312

ICT penetrates all sectors

1. Larger and more complex cross-sector eco-systems
2. Lack of shared vision and overall architecture
3. Competing alternative technical approaches
4. Commoditisation and substitution of telephony

Contributions of ISGs to Energy Efficiency and Mitigation

- AFI – Autonomic network engineering for the self-managing Future Internet
  - Standards for autonomic management and control in future networks.
  - Will allow self-configuring and self-adapting to new requirements thus reducing network resources and saving energy.

- NFV – Network Functions Virtualisation
  - Virtualization of network functions will allow consolidation of network resources based on software / time-of-day etc., so equipment can be shut down to achieve power savings and total energy savings by reducing cooling, etc.

- OEU – Operational energy Efficiency for Users
  - Developing operational standards in cooperation with ICT users
  - Defining Global KPIs that will lead to reduction in energy consumption through improved energy management by means of a scale of “Green” levels.
  - Providing referential specifications on “Green” ICT areas.

- SMT – Surface Mount Techniques
  - Defining low power modules that can be embedded into host devices.
  - What could these enable?

ETSI and Horizon 2020

8th SIIT Conference, ETSI, 24.-26.9.2013,
Sophia Antipolis
Today’s M2M Smart City Reality

Summary

- ETSI has the tools to meet the standardisation needs of diverse ICT stakeholder groups
  - Various lines of production tailored to needs of stakeholder communities
  - Efficient lifecycle management of standardisation initiatives
  - Global applicability of genuine standardisation (driven by European stakeholders)
- ETSI supports Innovation in both standards and processes
  - Creating technology oriented (pre-)standardisation groups/committees (technology enablers/technology push)
  - Organising workshops and conferences
  - Advancing testing technologies/methodologies and organising interoperability events

Links to further information

- ETSI website (http://www.etsi.org)
  - General public information
  - Free standards download
  - Promotional aspects
- ETSI portal (http://portal.etsi.org)
  - Easy access to data for each technical body
  - Working documents
  - ETSI applications and databases

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