



RELEVANT STANDARDS IN ETSI

Gaby Lenhart

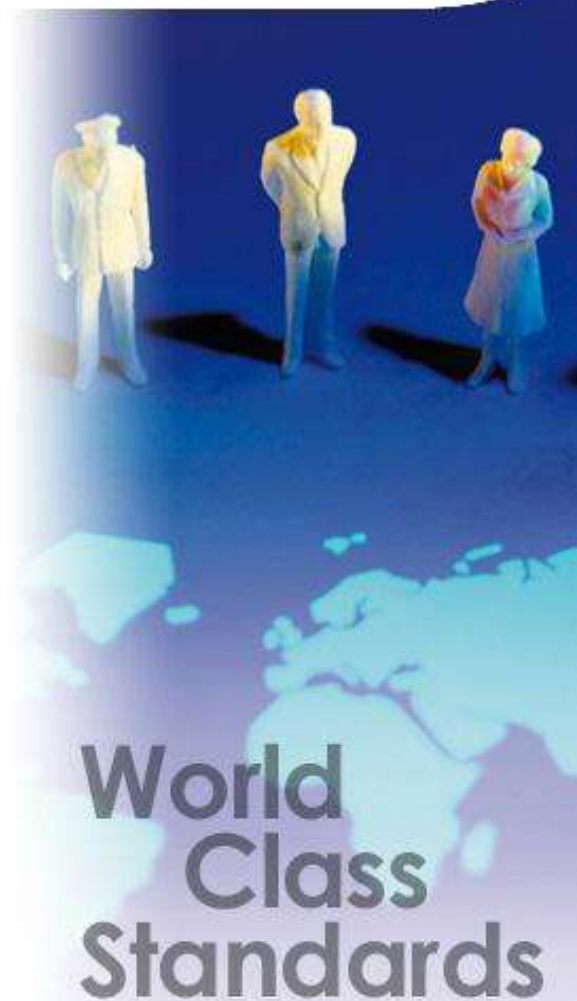
ICT for Sustainable Homes 2010

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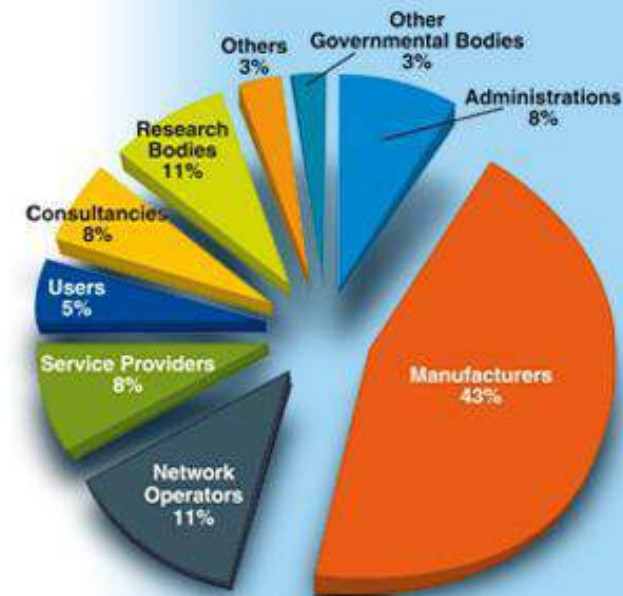


ABOUT ETSI

- **Technical specifications and standards** with global application
- Support to industry and European **regulation**
- Specification and testing **methodologies**
- **Interoperability testing**
- **Fora hosting**

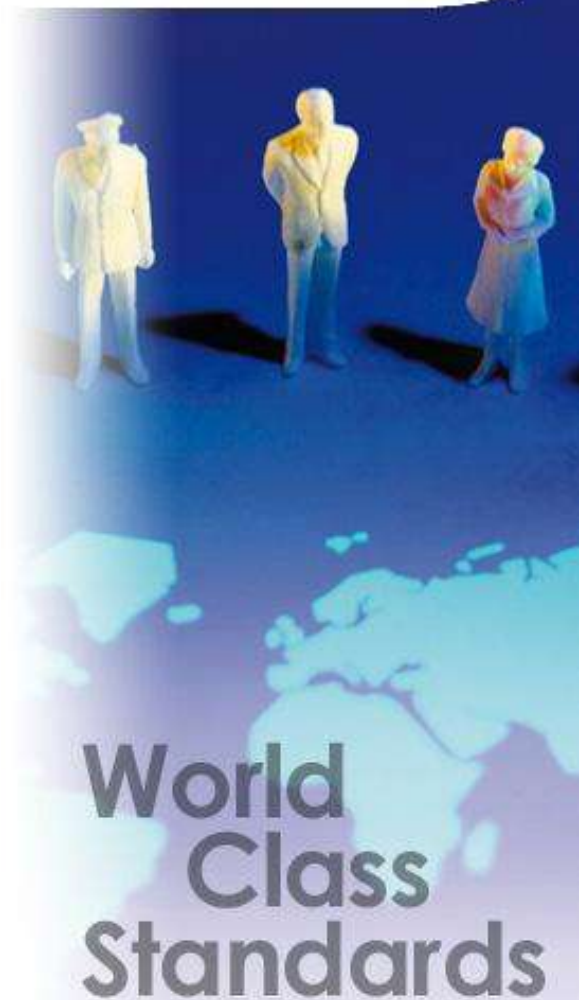


- Over **700 companies**, big and small, from **more than 60 countries** on **5 continents**
- Manufacturers, network operators, service and content providers, national administrations, ministries, universities, research bodies, consultancies, user organizations



A powerful and dynamic mix of **resources, skills and ambitions**

- **Independent of all other organizations and structures**
- **Respected for neutrality and trustworthiness**
- **Esteemed for our world-leading Intellectual Property Rights(IPR) Policy**





BETTER LIVING WITH ICT

Part of A Connected World

Human Factors
(TC HF)

Speech & Multimedia Transmission Quality
(TC STQ)

Environment and Infrastructure
(TC EE)

Better Living with ICT

User Interests
(User Group)

Energy Efficiency
(TC EE, TC ATTU, TISPAN WG5)

Telecommunications Safety
(TC Safety)

“Design For All”
(TC HF)



Technologies that improve people's life and environment

Current Work

- Usability and Accessibility
- Localization, Personalization
- Procurement, e-services
- Performance, QoS, QoE
- Interoperability
- Energy-using devices
- Electrical and acoustic safety

Possible Future Work

- Standards to support carbon labeling
- Eco-regulation impact on devices/systems
- Ubiquitous ICT, multi-modality
- Measurement standards & best practices
- Improved audiovisual conference systems

Contributing ETSI groups

EE, HF, SAFETY, STQ, TISPAN [5], USER, 3GPP [CT,SA]

Mandates

M/376, M/439, M/462

Standards Partners

- ATIS, BBF, CEN, HGI, IEC, IEEE-SA, ISO, ITU-T, OMA, TIA, TTA, W3C

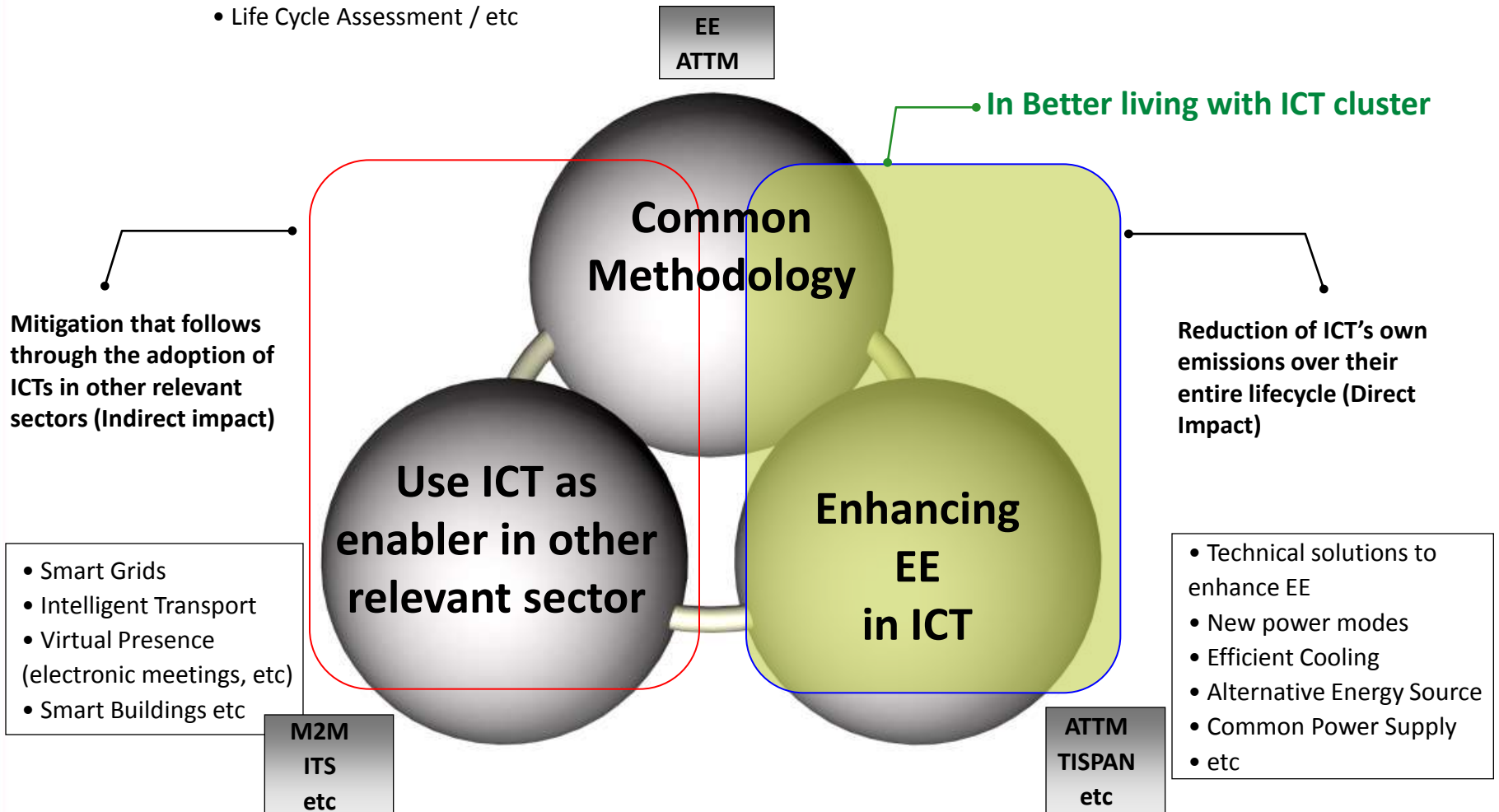
Research Partners

- JRC
- In progress: FP7 Projects*

Digital living for the benefit of society and individuals

Cluster Topics - Energy Efficiency

- Definition of Energy Efficiency in Access (wireless / fixed), Core, Data Center, etc
- Measurement methodology on EE / Test Environment and procedures
- Life Cycle Assessment / etc



● Challenges

- Companies do not see business cases in offering barrier-free products
- Addressing accessibility issues by some considered as unwelcome obligation on industry
- Products/service developers often unaware of customer-requirements for impairment.

● Opportunities

- Today's customers demand fully-featured products and services as they get older
- Products and services useable by people with diminishing physical and mental abilities
→ addressing accessibility now becoming important market-driven necessity
- Help industry and operators to avoid creating technologies that exclude users from the information society
- Help increasing quality and usability of products and services for everyone

● M376 Phase II


- Standardization Mandate M/376 by the EC to support European accessibility requirements for public procurement of products and services in ICT in 2005
- ETSI will deliver European Norms and Technical Reports

QoS based on technical performance (i.e. mainly technology-centred)


QoE is based on end-user behaviour (user-centred)

EN 202 670: User experience guidelines for real-time communication services expressed in QoS terms

Quality of Service

-  Characteristics of ICT services that reflect their ability to satisfy stated and implied needs of the user of the services

Quality of Experience

-  Overall acceptability of an application or service, as perceived by subjectively by the end-user

Who Should Write the Standards?



In all the history of standardization the
most successful standards
always were
written by those
who use them later on.

A really successful standard
is used by the vast majority of those
who offer products of the particular technology
on the market.



THANKS FOR YOUR ATTENTION



CONTACT

gaby.lenhart@etsi.org





BACKUP

ETSI Technical Bodies Rooted in the 'Better Living with ICT Cluster'

● Human Factors

- Scientific application of knowledge about human capacities and limitations
- Broad range of issues arising from interaction of people and the technology they use

● Accessibility

- Design for all = addressing needs of all users including young children, seniors and disabled people
- Drivers for Motivation

● Policy and legislative drivers

- UN Convention on the human rights of disabled people
- EC mandates: e.g. M376 & a new mandate on 'Design for all'

● Demographic changes and changes in society

- People are living much longer than they used to

● Business case = 'Grey Power' (Older people's aspirations for inclusion are growing)

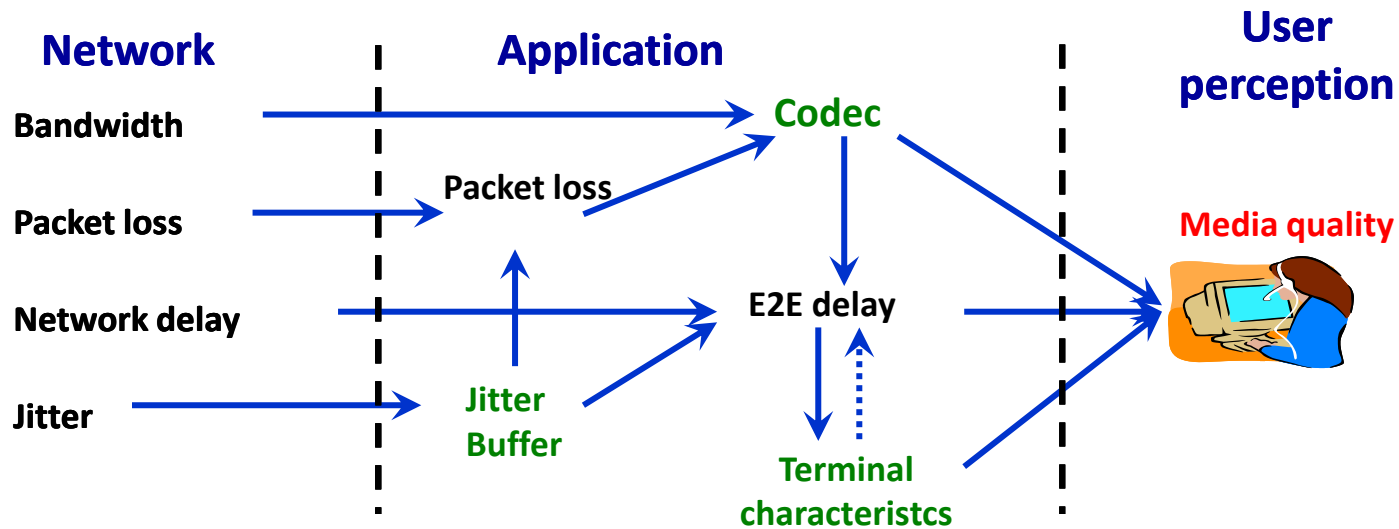
- Increased marketability by increasing functionality for all users: e.g. volume amplification control -> originally designed for people with hearing problem, but also useful for phones in noisy environment
- big LCD and keys, hands-free option -> originally developed for phones for elderly and disabled

- **Represents users of ICT products and services**
 - Consumers, business users, users with special needs, service providers, TLC operators acting as users

- **User requirements**
 - Produce reports on users' requirements
 - Convey users' concerns and viewpoints

Speech and multimedia Transmission Quality (TC STQ)

- Speech (wideband, super-wideband, fullband) quality, but also multimedia quality
- User related QoS
- Metrics and test methods for media quality
- NGN related QoS
- Strong collaborations inside ETSI (DECT, TISPAN, User) and outside ETSI (mainly ITU-T SG12 and TIA TR41, but also 3GPP SA4)
- QoS parameters and test methods for popular services in GSM & 3G Networks (a set of 6 TS, continuously updated)

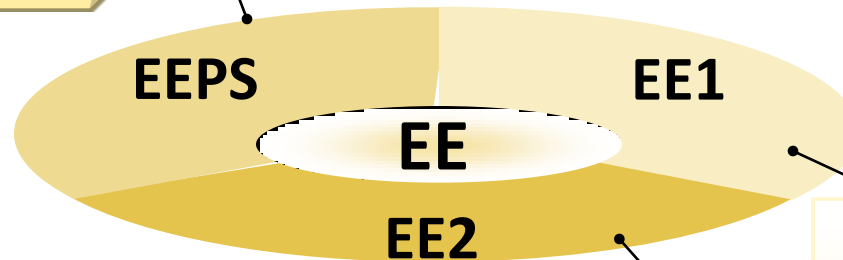


TC EE (Environmental Engineering)



- **EEPS: Eco Environmental Product Standard Group**
- ICT impact on energy consumption

Define environmental and infrastructure aspects for telco equipment and its environment



- **EE1: Environmental Conditions**
- Climatic, mechanical, chemical and biological conditions

- **EE2: Power Supply Bonding and related Topic**
- Mechanical structures and physical design of power supply interface



Telecommunication Safety

- ETSI deliverables on TLC safety
- Co-ordination of ETSI positions on TLC safety requirements

Activities

- Identify telecommunications equipment safety requirements including those which are essential requirements of Directives
- Map the telecommunications equipment safety requirements according to IEC 60950
- Consider safety requirements of IEC 60 065 which are relevant to consumer electronic equipment combined with telecommunications equipment, e.g. Set Top Boxes

Recent and On-going works

-  Health and safety aspects of personal music players and mobile phones with music playing functionality
-  Safety requirements for mounting and operation of information technology installations with remote power feeding and operating AC voltage exceeding 50V or operating DC voltage exceeding 120V