First results of the Cooperation Platform for Research and Standards

Presentation at D2 Concertation meeting, 2nd December 2004

Palais de la Méditérranée, Nice

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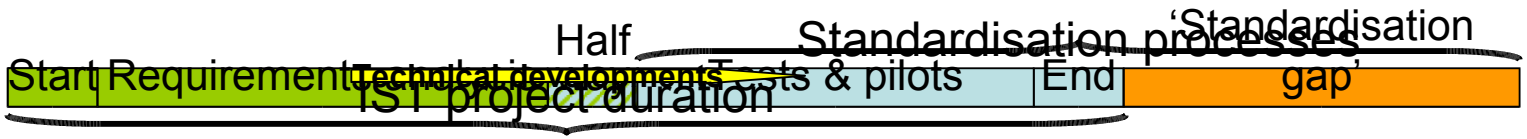
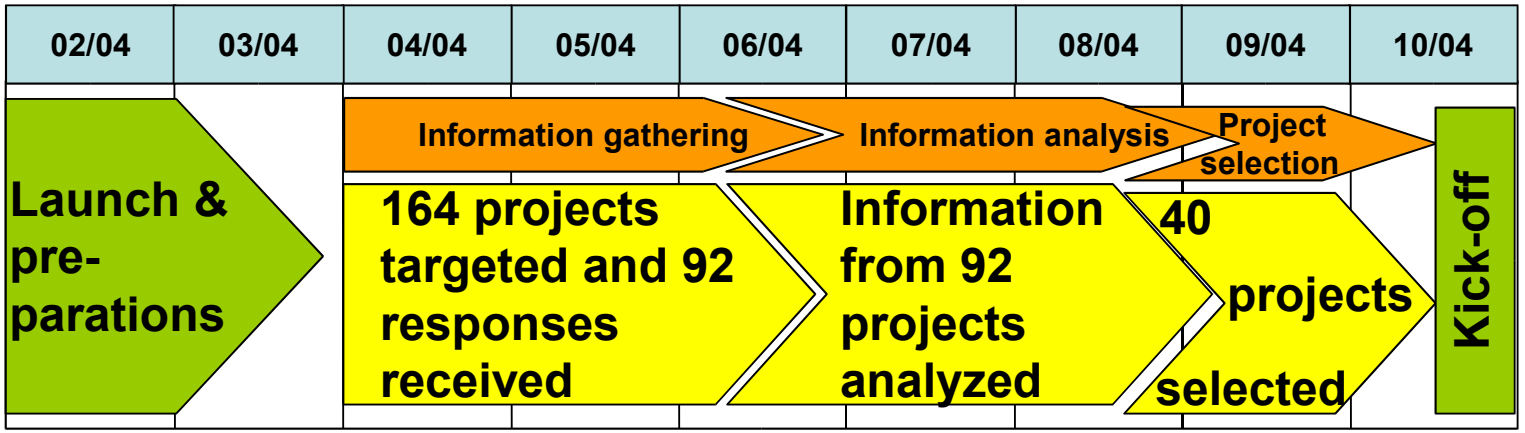
COPRAS addresses the link between IST research and standardization

- SSA project set up by ETSI, CEN, CENELEC, W3C & Open Group addressing projects across FP6
- Improve interfacing between FP6 IST projects and standards bodies
- 2 Prime goals:
  - Act as a facilitator to FP6 IST projects wishing to upgrade their deliverables through standardisation
  - Prepare generic information on RTD/standards interfacing guiding those proposing or evaluating future projects



Steps surveying, analyzing and selecting projects in call 1

- 10 Strategic Objectives, including ‘Networked audio-visual systems and home platforms’ addressed with questionnaires
- Standards related feedback analysed
- 25 ‘tier 1’ projects & 15 ‘tier 2’ projects selected
- Pre-meetings with tier 1 projects September ‘04



A set of transparent criteria was used to select projects

- Primary criteria
  - Is the issue addressed by a project relevant to the activities of one of the consortium partners, one of the ICTSB members or to the activities of a standards body outside the ICTSB
  - Has the project a clear view of the standardization activities they seek to deploy
  - Is a standards body a project would interface with sufficiently experienced in a particular domain and are they capable of seeing the standardization paths projects have identified
- Secondary criteria
  - Does a project have resources available for standardization activities
  - Is a project's timing (in terms of its capabilities of defining a Standardization Action Plan) in line with COPRAS' timing
  - Are standards bodies, a project seeks to interface with, already pre-identified or not

Selected tier 1, tier 2 and SSA/CA projects in NAVSHP area

- 19 projects approached in 'Networked audio-visual systems and home platforms
- 17 responses received (89,5%)
- 3 tier 1 projects & 2 tier 2 projects selected
- 1 SSA project approached for cooperation
- Additional projects wishing to cooperate with COPRAS will not be excluded

Information analyzed from	Tier 1 projects	Tier 2 projects	SSA/CA projects
COHERENT, DANAE, E-NEXT, ENTHRONE, ePerSpace, INSTINCT, MCDN, MediaNet, META-CAMERA, MHP-CONFIDENCE, MHP-KDB, OLGA, TEAHA, TIRAMISU, UNI-VERSE, VISNET, WCAM	TEAHA, MediaNet, ePerSpace	ENTHRONE, UNI-VERSE	AVISTA

Kick-off meeting with selected projects 14th October in Brussels

- Jump start cooperation between selected projects and standardization working groups
- Share information on ongoing standardization work & cluster projects that have shared interests
- Generate feedback from projects with respect to support COPRAS intends to provide and discuss concrete next steps

Plenary level

- General introduction to COPRAS
- Overview possible ways to standardize output research projects

Break-out sessions

- Broadband access
- Security issues
- Semantic-based systems & languages
- Smart houses & home networking
- eLearning

7 projects and 6 standards bodies and/or working groups represented

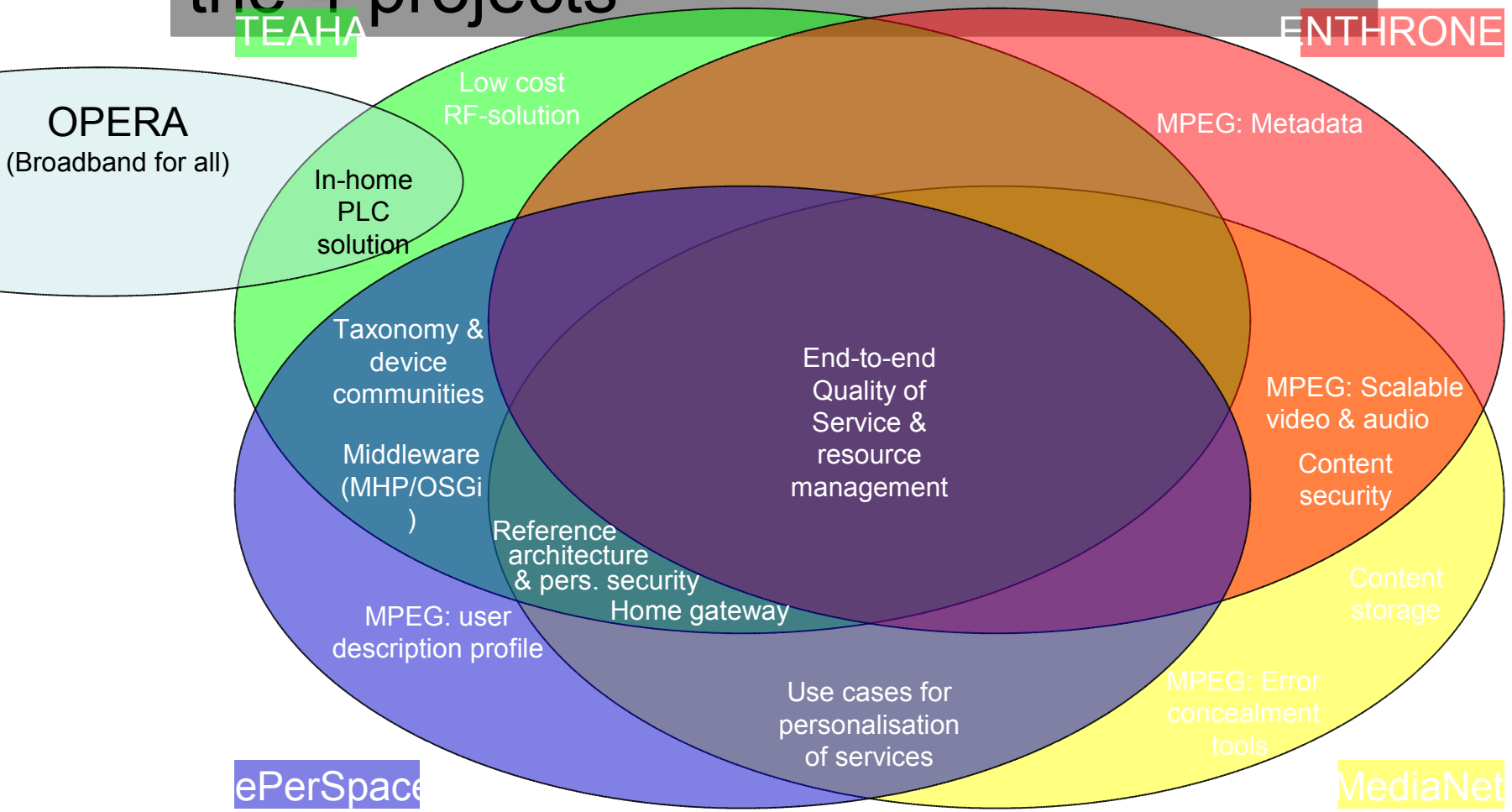
- All of the 5 selected NAVSHP projects participated in the kick-off meeting
- DVB/DLNA, ETSI, W3C, CENELEC and SmartHouse representatives were present as well

Strategic Objective	Participating projects	Break-out session	Represented standards bodies or working groups
Broadband for all	OPERA	PLC	CENELEC SC205A
Networked audio-visual systems and home platforms	ENTHRONE ePerSpace MediaNet TEAHA	Smart houses & home networking	DVB-CM HN / DLNA DVB-TM AVC ETSI TC-ATN NGN@Home SmartHouse
	UNI-VERSE	Semantic	W3C

Standardization issues addressed by 'NAVSHP' projects

Project	Standardization objectives
ePerSpace	• Home Platforms (e.g. interfaces between home gateway, access network and distributed home equipment & QoS for wireless technology) • Personalization (e.g. security, authentication, privacy and access control) • Device communities & profiles standards • Rich media object management
MediaNet	• Reference architecture & Home gateway technology • Value added differentiated network access services • DRM and CP system policy; distributed content storage • Quality of Service management for home networks • Use cases for personal multimedia communications • Network architecture models for video encoding & decoding • Post processing & error concealment tools for MPEG4/H.264 • Advanced techniques for adaptive streaming with MPEG4/H.264 over IP networks
ENTHRONE	• Scalable video & audio, metadata, network quality management and IP management • Deliver an integrated management solution (IMS)
TEAHA	• Network independent middleware framework specification & definition of taxonomy • Low cost RF solution for inter-working between power-supplied home appliances • Ultra low-cost PLC solution & components • Residential gateways components
UNI-VERSE	• Real-time protocol for 3D information & audio (Verse)

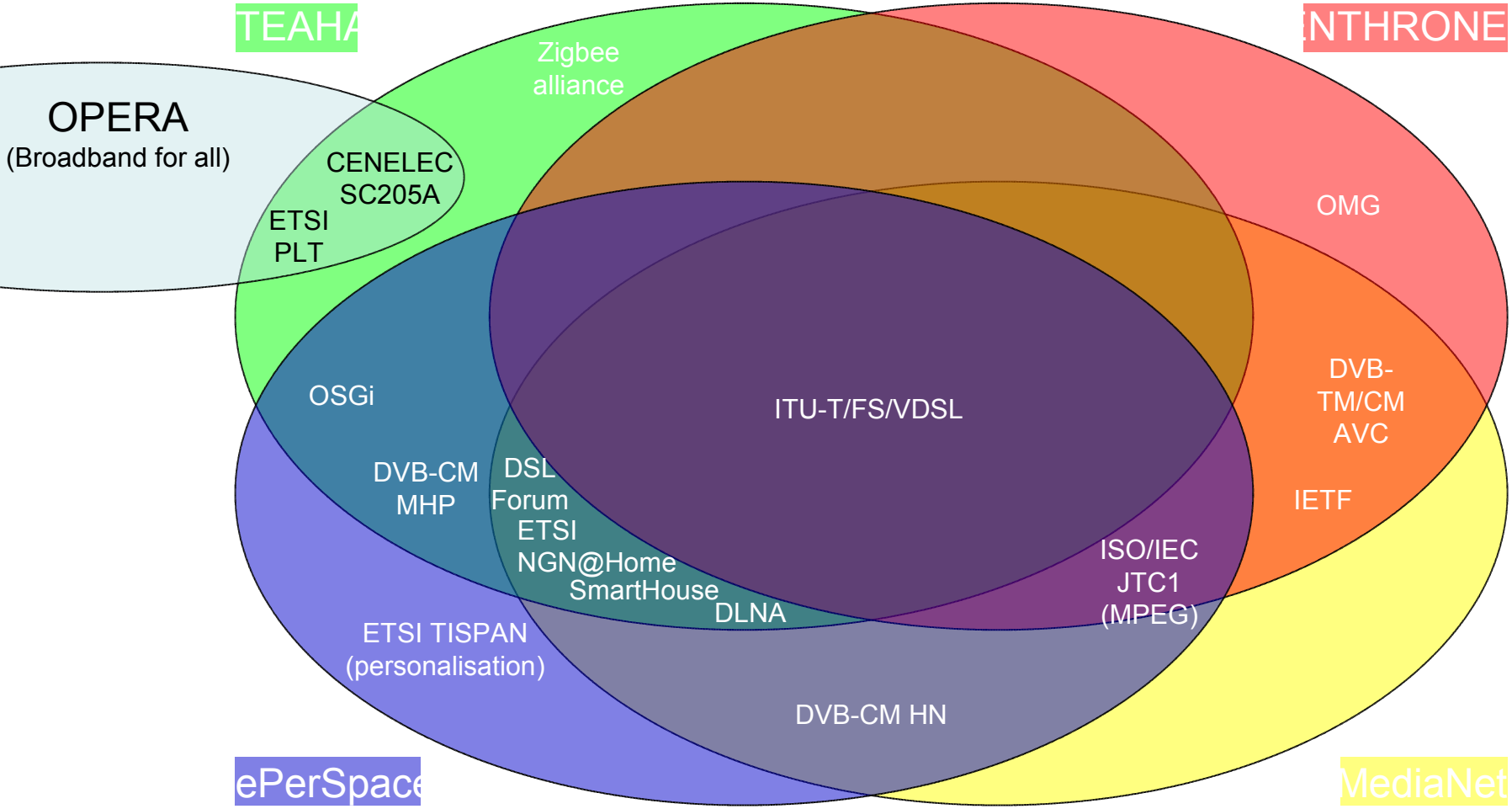
Possible clustering of standardization objectives between the 4 projects



Currently deployed relevant standardization activity

Project	Standardization objectives
ETSI NGN @HOME	• Home networking architecture requirements: general requirements for inter-working, robustness, heterogeneity; demonstrate open network architecture for provisioning services to the user in & outside the home; home residential gateway architecture
DVB-TM AVC	• Convergence of broadcast and mobile services; interoperability across multiple networks and platforms; content Protection and Copy Management • Audio and Video coding for DVB services over DVB Transport Streams and for DVB services directly over IP; toolbox approach with criteria for considering multiple solutions
DVB-CM HN / DLNA	• DVB: Commercial requirements & use cases for home audio-visual networking based on the IP protocol; standardized DLNA & LAN based home network; • DLNA: enabling cross industry convergence by establishing a platform of interoperability based on open and established industry standards; guidelines for interoperable products; interoperability framework
Smart House	• Code of Practice (CoP) for smart houses: existing standards related to smart houses (service provider aspect; content, broadcasting, DRM & security; network operators' aspect and broadband delivery; network termination & residential gateways; customer premises equipment & displays; home networks & in-home communication; user interfaces & privacy aspects; architectures)
CENELEC SC205A	• Signalling on low-voltage electrical installations • Immunity requirements for PLC apparatus and systems

Possible cooperation interfacing with standards bodies between projects



Cooperation/clustering opportunities from the Smart houses break-out

- Reference architectures & middleware for the broader concept of home networking
- Home gateways definition and interfacing between home and access networks
- Quality of service management of multimedia content distribution over home networks
- Commercial requirements, benchmark applications & services, and use cases for home networking
- Guidelines for usage & inter-working of home networking standards & specifications
- Personal security related issues

Some relevant overall conclusions from the kick-off meeting

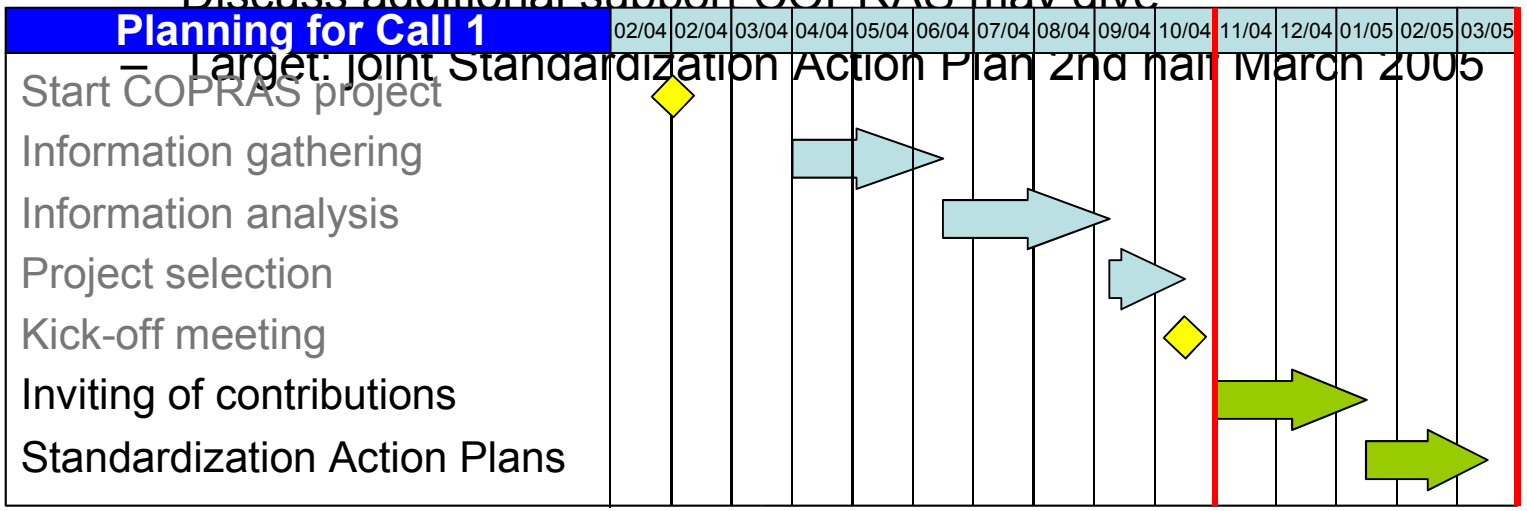
- Clear requirement for guidelines how to build in standardization efforts into project proposals
- Many projects have insufficient resources to deal with all standards issues they address
- Projects lack resources for contributing to standards bodies at the end of their lifetime
- Interfacing at an early point is essential in order for projects synchronizing with procedures adopted by standards bodies
- Issues outside COPRAS' scope may need to be addressed as well (e.g. by the Commission)

Next step: ‘Standardization Action Plans’ defining cooperation

- Objectives & rationale of standardization actions
- Clustering (where appropriate) of projects
- Definition deliverables & arrangements
  - Output from projects & input from standards bodies
  - Arrange participation in appropriate working groups
  - Technical environment and conflicting standards or processes
- Schedules, resources & responsibilities
  - Responsibilities project(s), COPRAS & other standards bodies
  - Time plan for delivery output from, and input into projects
- Dissemination actions
  - Additional awareness projects’ results & standards activity
  - Arrange industry & other decision makers recognition
  - Support of other joint projects (e.g. approaching standards bodies)

Follow-up meeting with ENTHRONE, ePerSpace, TEAHA & MediaNet 01/12

- Agreed actions:
  - Facilitate closer cooperation on standards issues (COPRAS)
  - Draft contents structure Standardization Action Plan (COPRAS)
  - Discuss, agree & fill in contents structure (COPRAS & projects)
  - Discuss additional support COPRAS may give
  - Target: joint Standardization Action Plan 2nd half March 2005



COPRAS
Cooperation Platform for Research & Standards

We hope to develop a fruitful cooperation between COPRAS, NAVSHP projects, standards bodies and other relevant stakeholders

Thank you for your attention & feedback

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CEN CENELEC ETSI THE Open GROUP W3C WORLD WIDE WEB consortium