Overview of COPRAS' objectives; cooperation with 'Networked audio-visual systems and home platforms' projects

Presentation at ICTSB-SGSSG meeting, 22 June 2005

CEN/CENELEC meeting centre, Brussels

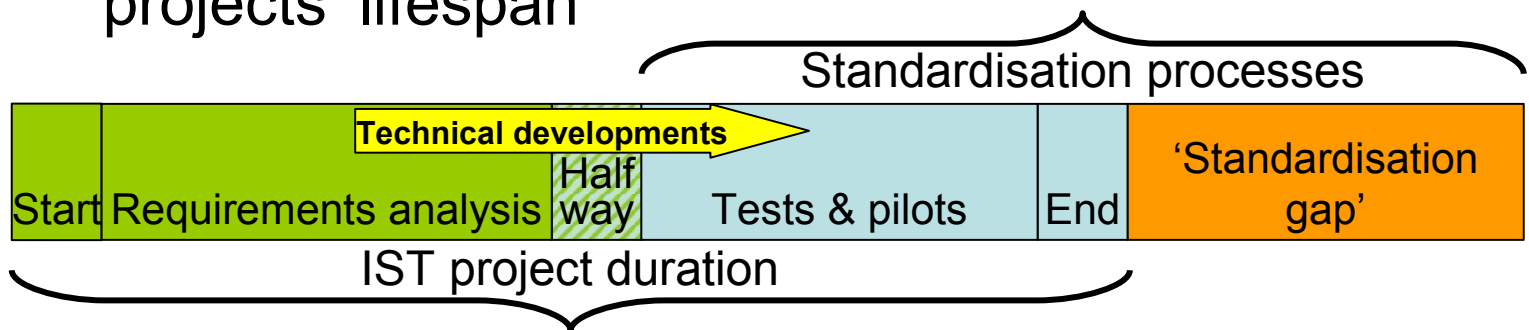Bart Brusse, COPRAS Project Manager

Set up by 5 European standards organisations, backed by the ICTSB

- SSA project focusing on IST projects in calls 1 & 2
- Address projects' obligation to interface with standards bodies
- Support projects seeking to upgrade deliverables through standardization & develop 'Standardization Action Plans' with selected projects
- Prepare generic guidelines on interfacing between IST research & standardization
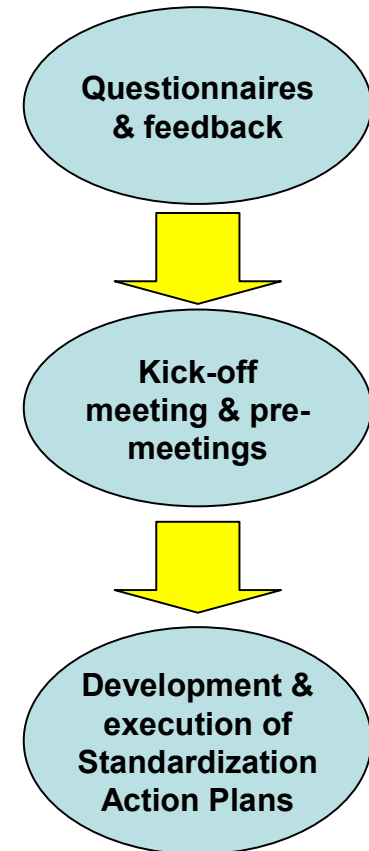
Development Standardization Action Plans with selected projects

- Identify cooperation possibilities between projects
- Broaden exposure of projects' relevant output among standards bodies & industry consortia
- Actively support further dissemination of projects' standardization deliverables & results
- Address possible complications (e.g. IPR, confidentiality, organization membership, etc.)
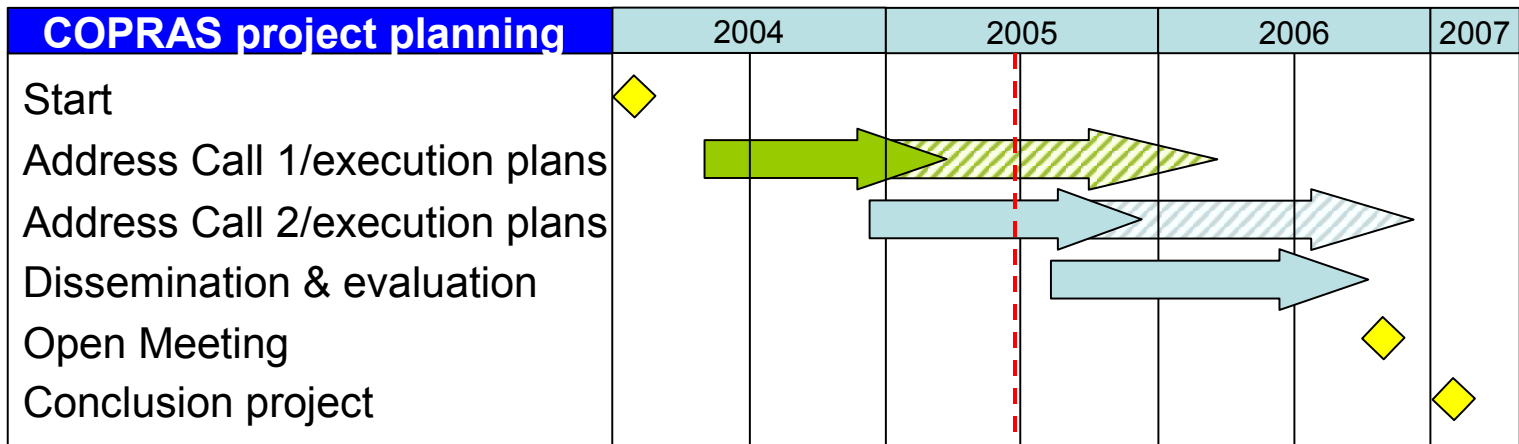- Shorten 'standardization gap' at the end of projects' lifespan

Standardisation processes

Technical developments

| Start | Requirements analysis | Half way | Tests & pilots | End | 'Standardisation gap' |

IST project duration

…..by mapping information gathered with ongoing standardization effort

- Survey projects for standards related output

- Analyse feedback & select projects to invite for closer cooperation

- Identify cooperation projects and standard bodies, also across different calls or Strategic Objectives

- Arrange input from research projects into standardisation processes and promote new work items

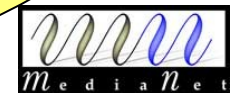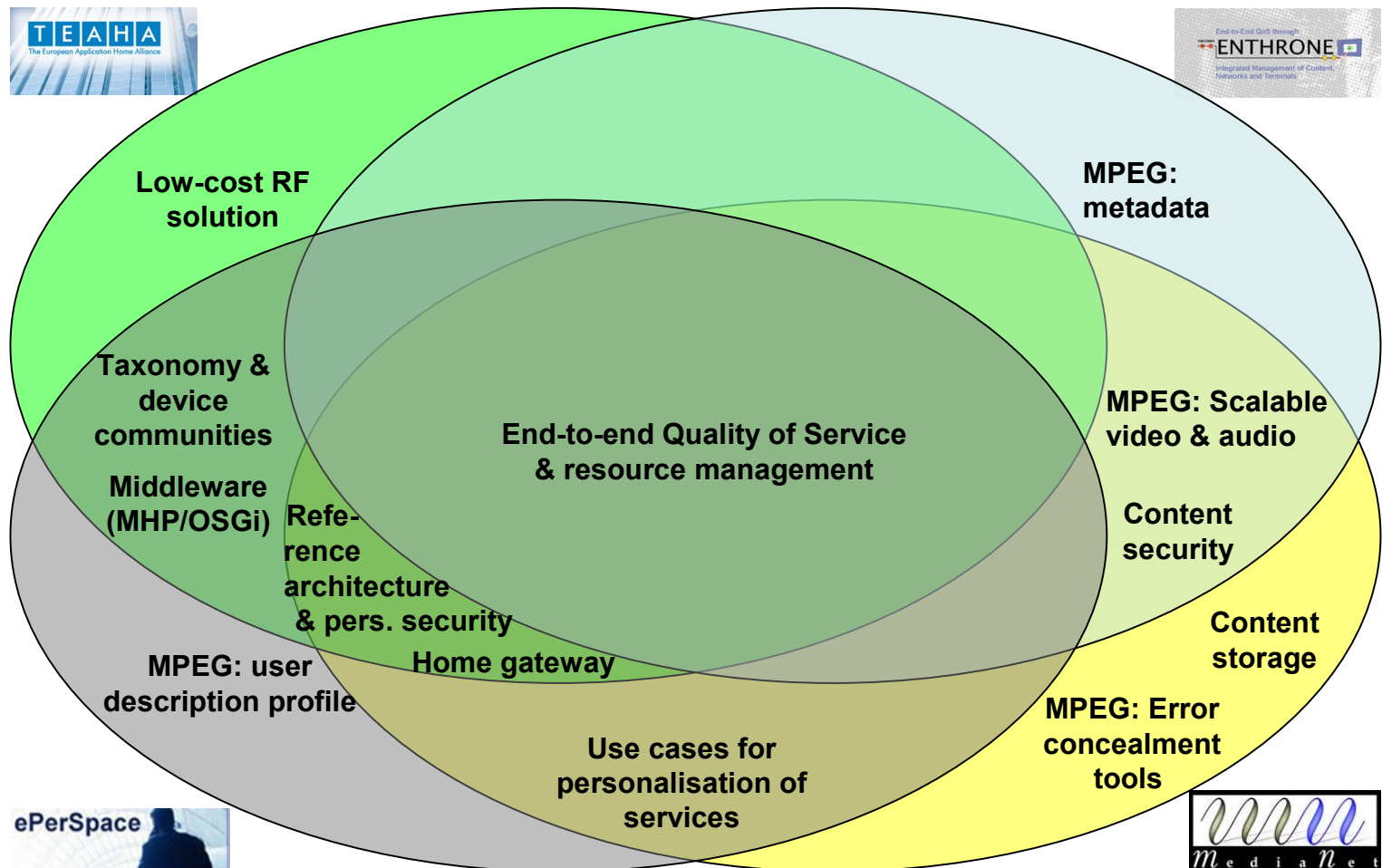- Ensure relevant input from standards bodies to research projects

Questionnaires & feedback

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Kick-off meeting & pre-meetings

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Development & execution of Standardization Action Plans

COPRAS time plan and activities towards NAVSHP projects in call 1

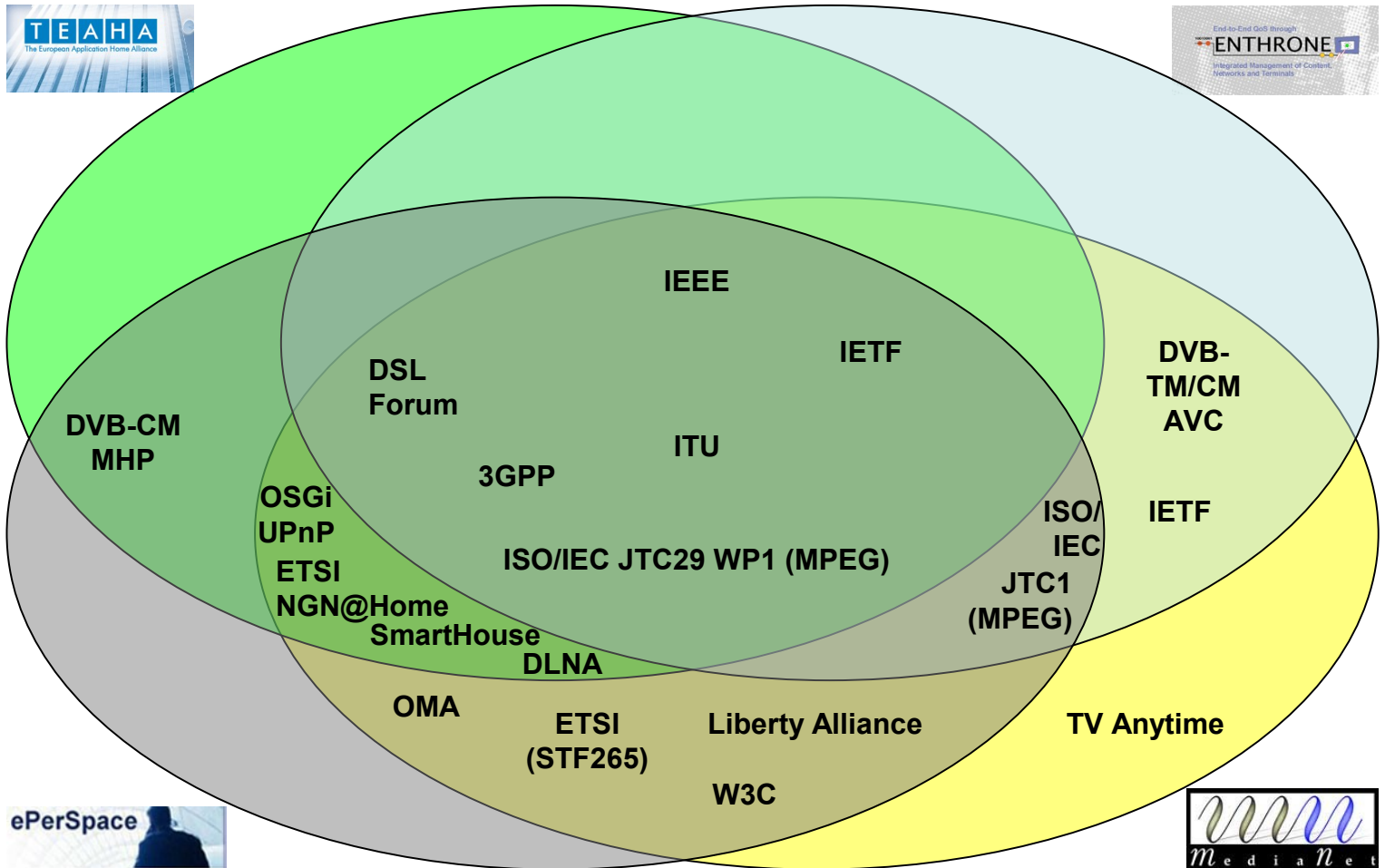| COPRAS project planning	2004	2005	2006	2007
Start				
Address Call 1/execution plans				
Address Call 2/execution plans				
Dissemination & evaluation				
Open Meeting				
Conclusion project				

- 19 NAVSHP projects approached & 17 responding to COPRAS questionnaire
- 5 projects invited to kick-off meeting; follow-up with ENTHRONE, ePerSpace, MediaNet & TEAHA December 2004 – march 2005
- First release Standardization Action Plan 10/05/05

Clustering of standardization focus areas between projects

Low-cost RF solution

MPEG: metadata

Taxonomy & device communities

MPEG: Scalable video & audio

Middleware (MHP/OSGi)

Reference architecture & pers. security

End-to-end Quality of Service & resource management

Content security

MPEG: user description profile

Home gateway

Content storage

Use cases for personalisation of services

MPEG: Error concealment tools

Clustering of standards bodies that could be addressed

Main objectives finally identified across 3 standardization categories

	Home Gateways, home device communities, inter-operability & taxonomies	End-to-end QoS (Quality of Service) management	Personalized, services, content storage & security
ENTHRONE		Deployment model for integrated QoS management	Definition & specification of Metadata
		Content management/protection	Content protection & management
		QoS infrastructure across heterogeneous networks	
ePerSpace	Enriching the UPnP profile and integrating UPnP and non-UPnP devices in the same network	Model for mapping & managing distributed or centralized QoS in the Home Area Network environment	Definition of the structure of the user profile for provisioning personalized services
	Interoperability between OSGi and UPnP		Exchange of personalization information between network entities
		Implementing the Home Gateway as the home network QoS controller	Distribution of profile infor-mation & end-to-end security
MediaNet	Open end-to-end architecture	reference architecture for service delivery with end-to-end QoS management	Contributions to a common DRM requirements document
	Additional UPnP features		Interoperability between various DRM/content protection systems
TEAHA	Network independent application profiles		
	Integration of a seamless inter-working approach in OSGi		
	Inter-application profiles		

Main targeted standards bodies finally identified across 3 categories

COPRAS — Cooperation Platform for Research & Standards

	Home Gateways, home device communities, inter-operability & taxonomies	**End-to-end QoS (Quality of Service) management**	**Personalized, services, content storage & security**
ENTHRONE		ISO International Organization for Standardization	ISO International Organization for Standardization
ePerSpace	UPnP, OSGi Alliance	HGI Home Gateway Initiative	ETSI
MediaNet	UPnP, DVB, DSL FORUM	ETSI	
TEAHA	UPnP, OSGi Alliance		

CEN CENELEC ETSI THE Open GROUP W3C WORLD WIDE WEB consortium
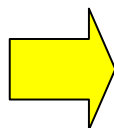
Planned ENTHRONE & ePerSpace Standardization deliverables

ENTHRONE		06/05	07/05	08/05	09/05	10/05	11/05	12/05
	Implementation demonstrator for ENTHRONE DRM capability Metz	◇						
	Implementation of an MPEG-21 IMS deployment model					◇		
	Delivery of an IMS Design Specification proposal to ISO/IEC JTC1/SC29 WG11 (MPEG)							◇
	Contributions to ISO/IEC JTC1 SC29/WG11 (MPEG)					◇		
	Final version deliverable D36 (Regulation and Standardization)				◇			

ePerSpace		06/05	07/05	08/05	09/05	10/05	11/05	12/05
	Specification and list of non-UPnP devices	◇						
	White paper on the enrichment of the UPnP profile					◇		
	White paper on the specification of services for non-UPnP devices						◇	
	UPnP and OSGi interoperability							◇
	White paper on the specifications of HAN as a QoS control point							◇
	White paper on the definition of user profile (to be contributed to the work of ETSI STF265)				◇			
	White paper on specifications of mechanisms for exchanging user profile (to be contributed to the work of ETSI STF265)							◇

Planned MediaNet & TEAHA Standardization deliverables

MediaNet		06/05	07/05	08/05	09/05	10/05	11/05	12/05
	Specification of possible additions to the UPnP profile					◇		
	Contributions to DVB-CM MHP						◇	
	Contribution to DSL forum regarding 'provisioning parameter for a videophone CPE'							◇

TEAHA		06/05	07/05	08/05	09/05	10/05	11/05	12/05
	Preparation documentation on a taxonomy and adapted architecture for seamless inter-working between home-networked devices			◇				
	Preparation documentation on an architecture for seamless inter-working between home-networked devices for integration in OSGi			◇				
	Presentation architecture for seamless inter-working between home-networked devices to OSGi for feedback					◇		
	Presentation device taxonomy to interested organizations					◇		
	Submission architecture for seamless inter-working between home-networked devices to OSGi							◇
	Submission device taxonomy to interested organizations							◇

Execution of the Action Plan will start 06/05 but regular updates will follow and and additional deliverables may be defined

COPRAS support across the 3 categories

Home Gateways, home device communities, interoperability & taxonomies	End-to-end QoS (Quality of Service) management	Personalized, services, content storage & security
Support cooperation on the improvement of the UPnP profile and interoperability between UPnP & non UPnP devices	Facilitate interfacing between MediaNet and ETSI/TISPAN	Definition secondary organizations where results can be presented and/or submitted (e.g. Liberty Alliance or 3GPP)
Determine organizations for standardizing a device taxonomy	Definition secondary organizations where results can be presented and/or submitted (e.g. DSL Forum, IETF or 3GPP)	
Arranging presentation architecture for seamless inter-working to OSGi		
Definition secondary organizations where results can be presented and/or submitted		

Production of material (e.g. brochures) supporting the broader dissemination of projects' standardization deliverables

Presentation of concepts developed by projects to secondary organizations (e.g.CENELEC SmartHouse, DSL Forum, IETF, 3GPP, Liberty Alliance, etc.)

There is a need to address the RTD/ standards interface in a generic way,

- Could generic guidelines be defined supporting projects' interfacing with standards bodies and answering questions such as:
  - How to find the right organization in a maze of standards bodies and industry groups
  - How to synchronize your project's standardization objectives with ongoing processes
  - How to focus your project's standardization activities & streamline them with your resources
  - How to create support & consensus for starting new standardization activities
  - How to ensure you're able to complete your work with standards bodies

…..and clear feedback from kick-off meetings with call 1 & call 2 projects

- 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

- Additional means or mechanisms for interfacing process should be provided by the Commission

Platform & guidelines supporting the interfacing will be developed

- Generic guidelines for RTD/standards interfacing in document format summer 2005

- Production of brochures and dissemination of guideline material

- Feedback from IST reseach community & standards organizations

- Translation of document version into interactive platform (portal)

- Availability interactive RTD/standardization guidance platform end of summer 2006

Thank you for your attention;
we look forward to your feedback!

Questions?

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