



First results of the Cooperation Platform for Research and Standards

Presentation at BB Europe, 9th December 2004
Session 6: “Standardization”

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COPRAS addresses the link between IST research and standardization

- FP6 Specific Support Action (SSA) addressing projects in 18 Strategic Objectives in calls 1 & 2
- 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
- Project started 1st February 2004 and will run until 31st January 2007

Project was initiated by 5 European organisations cooperating in ICTSB

Collaborative group of organisations concerned with standardization and related activities in ICT



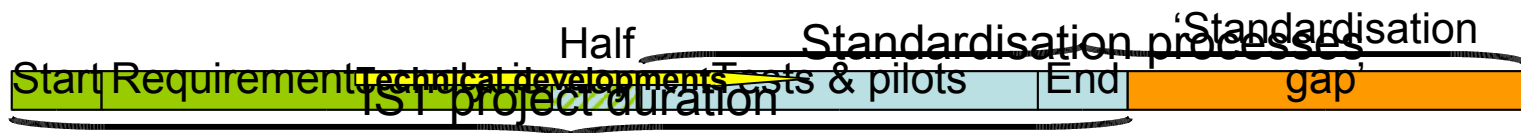
Standards bodies		ERTICO	EBU	EICTA	Industry Groups
		RosettaNet	ATM Forum	ECBS	
	CEN	W3C	ECMA International	OASIS	
	CENELEC	The Open Group	TeleManagement Forum	DVB	
	ETSI		Internet Society	OMG	



COPRAS was initiated by the 3 European Standards Organizations together with W3C and The Open Group, but backed by the ICTSB

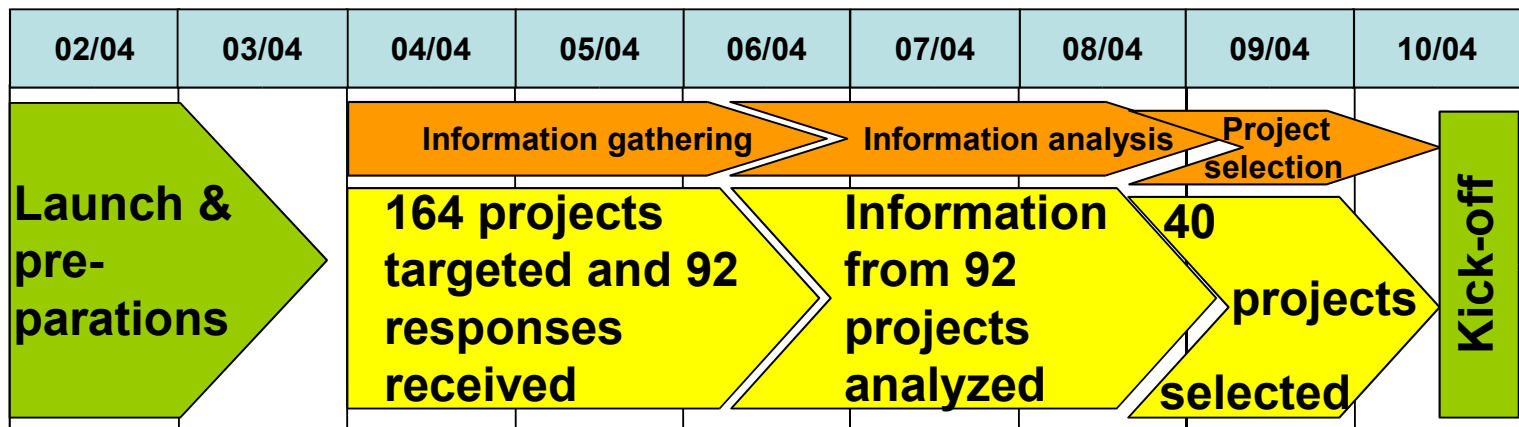
Background, objectives & rationale behind the COPRAS project

- Interfacing with standardisation is required but the 'right' body may not always be easy to find
- Standardisation activities are many times already underway with respect to many aspects in IST
- Structuring cooperation will reduce overlap and save resources on the side of research projects
- Cooperation at an early stage will make research results available earlier to industry & society



As a first step, COPRAS surveyed and analyzed projects in FP6 call 1

- Most Strategic Objectives, including ‘Broadband for all’ and ‘Mobile and wireless systems beyond 3G’ addressed with questionnaires
- Standards related feedback analysed
- ‘tier 1’ projects & ‘tier 2’ projects selected
- Individual pre-meetings & plenary ‘kick-off’



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 broadband areas

- 39 projects approached in ‘Broadband for all’ & ‘Mobile and Wireless systems beyond 3G’
- 21 responses received (54%)
- 6 tier 1 projects selected
- 4 tier 2 projects selected
- 2 SSA/CA projects approached for cooperation

Information analyzed from	Tier 1 projects	Tier 2 projects	SSA/CA projects
BREAD, BROADWAN, CAPANINA, DIADEM FIREWALL, E-PHOTON-ONE, GANDALF, LASAGNE, MUSE, OPERA, SATNEX, U-BROAD, 4MORE, ACE, B-BONE,	OPERA, GANDALF, CAPANINA, 4MORE, B-BONE, MAESTRO	BROADWAN, U-BROAD, PHOENIX, SIMPLICITY	BREAD, SPECTRUM

MAESTRO, OBAN, PHOENIX, PULSERS, SIMPLICITY, UBISEC, WINNER

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

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

Plenary level

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

Break-out sessions

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

- 8 out of 12 selected broadband projects participated in the kick-off meeting
- Representatives from several relevant standards groups

Strategic Objective	Participating projects
Broadband for all	BREAD, BROADWAN, OPERA, GANDALF, CAPANINA
Mobile and wireless systems beyond 3G	4MORE, B- SIMPLICITY, BONE

Relevant represented standards bodies or working groups
3GPP
CENELEC SC205A (PLC)
ETSI OCG Emtel
ETSI TC-ATN NGN@Home
ETSI SES
W3C

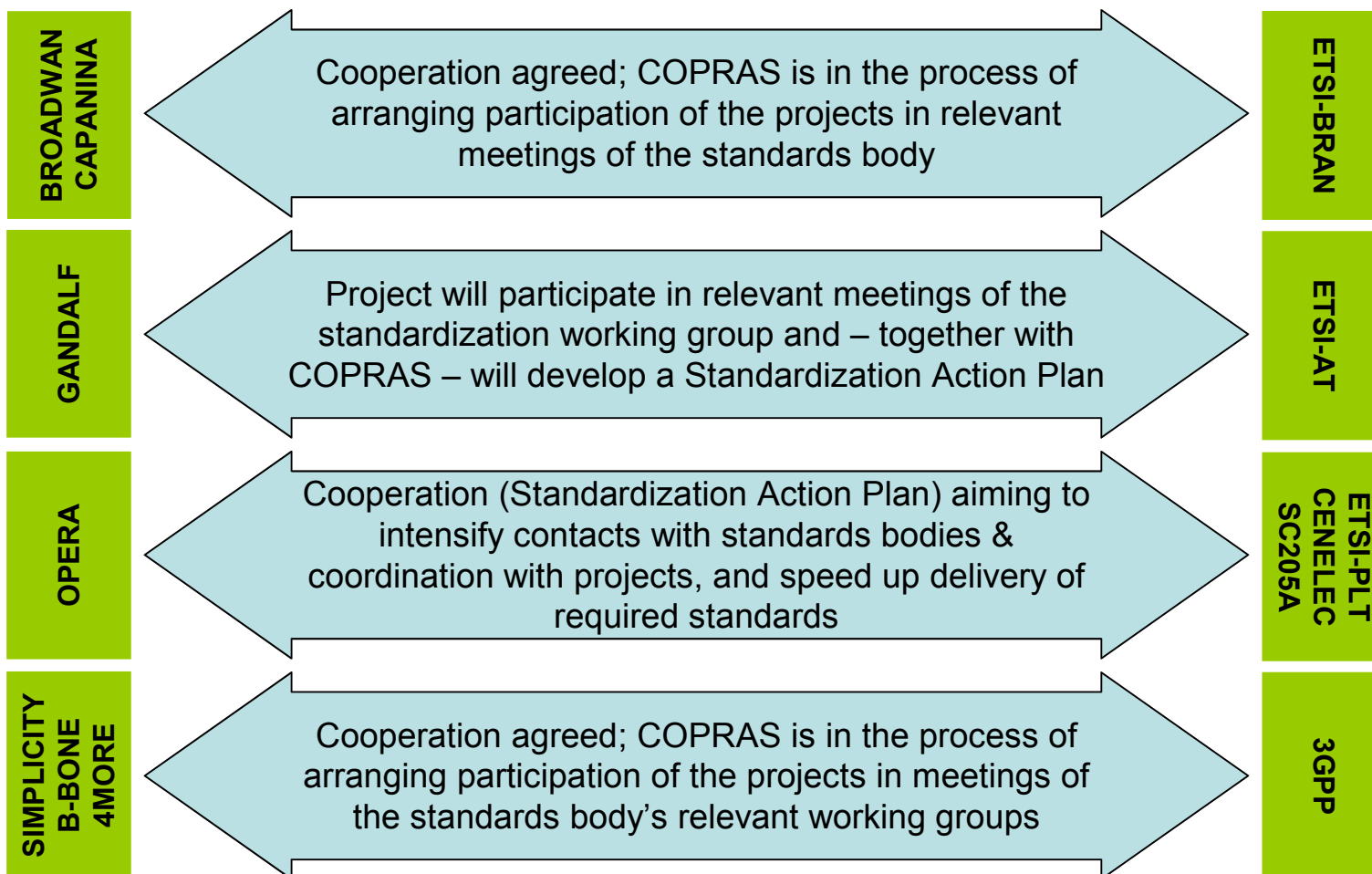
Standardization issues addressed by 'Broadband for all' projects

Project	Standardization objectives	Current situation/issues
BROADWAN	Next generation wireless access at low and high frequencies; hybrid networking; radio wave propagation information for wireless access network design guidance	Active in ETSI BRAN & WiMAX; membership issue; relevant committees have to be identified; presence & presentations will be arranged
OPERA	Equipment & system requirements; measurements, disturbance voltage, radiation, immunity & approval testing	Contacts in place with CENELEC SC205A; contact with the ETSI PLT TB needs to be intensified
GANDALF	Simultaneously feeding of wireless and wire-line access networks; demonstration new optical feeder configuration & wireless DOCSIS transmissions	Review existing standards; studies, into interoperability and coexistence of wireless and wire-line access technology; arrange involvement in ETSI AT Digital work
CAPANINA	Broadband access using mm-wave bands from 'High Altitude Platforms; possible broadband mobile standards, e.g. ITU-R WP 9B, IEEE 802.16 and IEEE 802.20,	Access to ETSI BRAN standards needs to be arranged; membership issue; contacts with the proper committee will be arranged
BREAD	Analysis of standardization landscape and technology gaps	Project will participate in COPRAS consultation activities; COPRAS will support BREAD activities

Standardization issues addressed by 'Mobile & wireless B3G' projects

Project	Standardization objectives	Current situation/issues
B-BONE	Transmission & reception equipment & component (MC-CDMA and MIMO); interconnection and inter-working of wireless infrastructures; new modulation & coding techniques for broadband radio access networks; broadcasting & multicasting over 3G	Issues identified driven by 3GPP; link to 3GPP will be arranged in order to provide inputs to ongoing work
4MORE	Transmission & reception equipment & components (multi-antenna MC-CDMA technology); cellular aspects; system-on-chip design (PHY & MAC layers)	Cooperation with MAGNET & WINNER; standardization plan already published but cooperation through COPRAS may lead to more efficiency; participation arranged in activities of 3GPP TSG RAN
SIMPLICITY	GSM and UMTS SIM; Bluetooth; high-layer re-configurability; adaptation of user devices; standardization of the user profile, Bluetooth profile and ontology	Project wishes to contribute to W3C for the definition of OWL and to contribute to 3GPP; Standardization Action Plan will be elaborated together with 3GPP and W3C

First steps arranged with individual projects after the kick off meeting



Some concrete results from the Broadband access break-out session

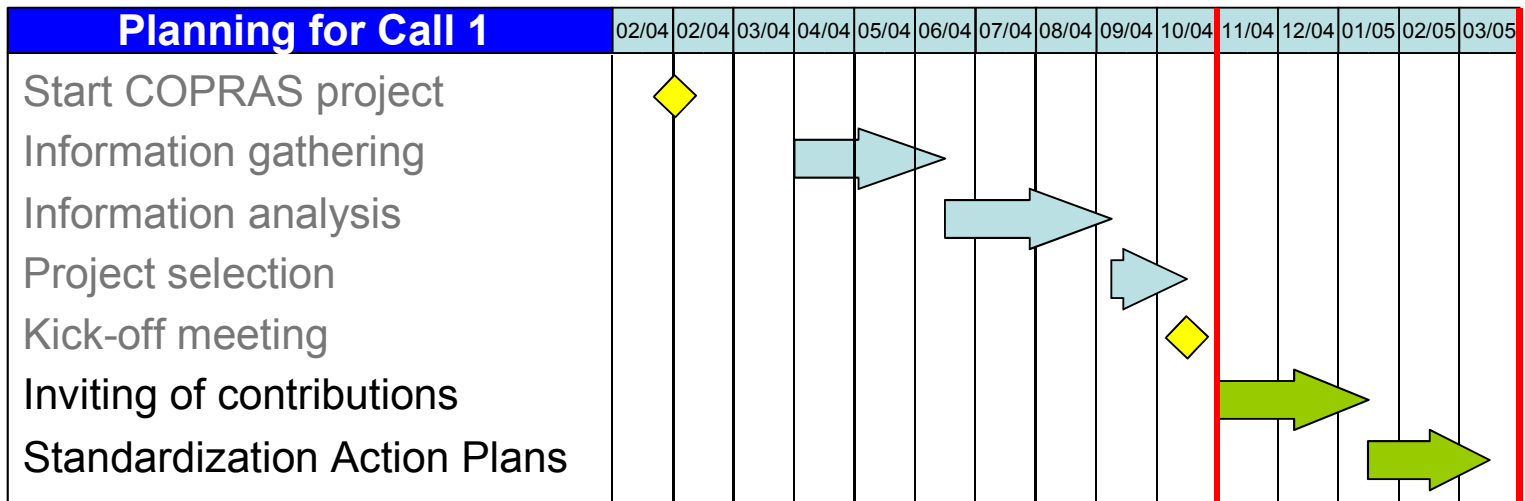
- Concrete cooperation was initiated between various projects and standards bodies
- Liaisons between other projects and the relevant standards bodies will be put in place by COPRAS
- In several cases cooperation is already arranged through consortium partners' regular contacts
- Membership issue and availability of standards related documentation to projects addressed
- Various next steps defined, ranging from the definition of Standardization Action Plans to mutual cooperation and coordination

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 activity
- Analysis current standards environment
- Deliverables from projects & support COPRAS
- Schedules, actions, resources & responsibilities





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

Thank you for your attention & feedback

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