

NAVSHP IST VILLAGE THEATRE

September 9-13, 2005 - IBC – Amsterdam

Friday 9th September, 2005 12.00 – 18.00**15.00-15.30 MHP-KDB** (MHP-Knowledgebase)

Mr. Marcel Langlois

17.00-17.30 COHERENT (Real-time holographic display and 3D software applications)

Mr. Tibor Agócs

Saturday 10th September, 2005 9.30 – 18.00**10.30-11.00 PULSERS** (Ultra-Wideband (UWB) Radio Technology)

Mr. Sven Zeisberg

12.30-13.00 COHERENT (Real-time holographic display and 3D software applications)

Mr. Tibor Agócs

15.00-15.30 PULSERS (Ultra-Wideband (UWB) Radio Technology)

Mr. Sven Zeisberg

17.00-17.30 MHP-KDB (MHP-Knowledgebase)

Mr. Marcel Langlois

Sunday 11th September, 2005 9.30 – 18.00**10.30-11.00 TEAHA** (Middleware Platform)

Mr. Enrique Menduïña

12.30-13.00 MEDIANET (MediaNet Open Model)

Mr. Michiel Pelt

15.00-15.30 TEAHA (Middleware Platform)

Mr. Enrique Menduïña

17.00-17.30 MEDIANET (MediaNet Open Model)

Mr. Michiel Pelt

Monday 12th September, 2005 9.30 – 18.00**10.30-11.00 WCAM** (Wireless MPEG-4 AVC/H.264 video streaming)

Mr. Didier Nicholson and Mr. Christian Tricot

12.30-13.00 DANAE (Scalable video Coding)

Prof. Jens-Rainer Ohm

15.00-15.30 WCAM (Wireless MPEG-4 AVC/H.264 video streaming)

Mr. Didier Nicholson and Mr. Christian Tricot

17.00-17.30 DANAE (MPEG-2I Adaptation)

Mr. Saar De Zutter

Tuesday 13th September, 2005 14.00 – 16.30**14.00-16.30 NMC** (New Media Council) Session: Innovation for New Media.

Progress Report from the EU NAVSHP program.

Conference Centre - Room A - RAI.



AVISTA Project is a Specific Support Action within the NAVSHP strategic objective, funded by the European Commission FP6 programme. It aims at supporting the FP6 projects in the area in a number of topics: concertation, projects portfolio, standardization, New Media Council, common exhibitions, etc. AVISTA partners are: ROSE Vision (Coordinator), TELVIUM, INSTITUT FUER RUNDFUNKTECHNIK GMBH (IRT), PHILIPS ELECTRONICS NEDERLAND B.V., TELEDIFFUSION DE FRANCE (TDF) and EUROPEAN BROADCASTING UNION (EBU).



IST Village Networked Audio-Visual Systems and Home Platforms Demonstrations of European Commission funded projects Supported by



The **NAVSHP IST Village** supported by AVISTA Project shows the most relevant results achieved by research projects in the **Networked Audiovisual Systems and Home Platforms (NAVSHP)** strategic objective of the European Commission's Sixth Framework Programme (FP6) at IBC 2005 in Amsterdam from 9th to 13th September 2005.

The NAVSHP IST Village is a common area created as a meeting point for the NAVSHP projects and IBC visitors. This area, conceived as an active environment, seeks to attract the attention of potential partners and to serve as a dialogue space for the projects. The NMC (New Media Council) and the NEM (Networked and Electronic Media) Technology Platform are also present.

This common exhibition consists of an **'Exhibition Area'** and a **'Theatre'**. The Exhibition Area is integrated by five thematic islands in which eight NAVSHP projects display their exhibits covering diverse research areas and fields of interest. The Theatre is a means for the projects to make presentations and disseminate their results.



THEATRE

Within the booth, a Theatre has been set up for the NAVSHP projects to make presentations on their domains of research, every day during the show. The following projects are participating in this Theatre:

- MHP-KDB, coordinated by IRT (Germany)
- COHERENT, coordinated by Holografika (Hungary)
- PULSERS, coordinated by GWT mbH Dresden (Germany)
- TEAHA, coordinated by Telefónica I+D (Spain)
- MEDIANET, coordinated by Thomson - R&D (France)
- WCAM, coordinated by Thales Communications (France)
- DANAE, coordinated by France Telecom R&D (France)

MHP-KDB

The prime focus of MHP-KDB (Knowledge Database) is to improve the interoperability of MHP implementations and MHP applications.

MHP interoperability will lead to a wide adoption and usage of the MHP standard and pave the way for a whole range of new e-content formats and e-services – including E-Commerce and E-Learning – accessible via the most commonly used media device world-wide: television (with local and remote interactivity)! The results will be beneficial for the whole media industry as well as for the end-user in fostering a standardized API (i.e. digital gateway) to ensure the development of horizontal markets for services and receiving equipment, in line with Directive 2002/21/EC.

The state of the project outcome and the latest results will be presented.

The actual MHP-Knowledgebase, its content and services will be presented live.

COHERENT

COHERENT proposes new solutions and extensions to:

- current telepresence applications
- transmission of digital 3D content through high-speed IP network

The project is based on existing standards and proposes recommendations to those standards targeting real 3D imaging.

The following results/topics will be presented:

- COHERENT project overview & results
- Current Applications: COMEDIA, COLLAUDA & Future applications related to broadcasting and media industry (potential 3D TV, 3D Telepresence)

The system that will be showcased represents:

- the prototype of the real-time holographic display
- related 3D software applications

PULSERS

PULSERS (Pervasive Ultra-wideband Low Spectral Energy Radio Systems) is an Integrated Project started in January 2004 within the 6th Framework of the EU-IST Programme (FP6). PULSERS explores, develops and exploits the large technological and application potential of Ultra Wide Band Radio Technology (UWB-RT) and contributes toward consensus building processes on coexistence and standardisation issues. PULSERS aims to develop innovative Ultra Wide Band (UWB) devices starting with proofs of concept and arriving at fully working prototypes.

The presentation provides an overview of the current status of the PULSERS project, including some selected technical details (high data rate: wireless DVI, low data rate + location tracking: initial measurement results from ranging experiments).

TEAHA

TEAHA (The European Application Home Alliance) Project is focused on networked home control applications, consumer electronics & multimedia applications. Its objective is to work with the Audio-Visual world to specify an open, secure, interoperable and seamless global home platform.

TEAHA presents some features of the project about Home Networking which attempts to be a standard in applications about "Connected Homes".

Presentation is focused on 2 main aspects of ongoing Projects developments: the TEAHA multicenter approach of global home platforms and the development of advanced residential gateway subsystems.

MEDIANET

MediaNet (Multimedia Networking) addresses the domain of digital multimedia personal communication and content distribution, as well as cooperation schemes between content owners, service providers, network access operators, and telecommunication, computer, components and consumer electronics industries.

The presentation will introduce the MediaNet open model, the reference architecture and its common infrastructure elements, as well as the uses cases developed by MediaNet.

WCAM

WCAM (Wireless Cameras and Audio-visual seamless networking) studies, develops and validates a wireless, seamless and secured end-to-end networked audio-visual system focused on the technology convergence between video surveillance and multimedia distribution over the Internet.

WCAM takes into account real time aspects as well as security and scalability. The project is improving state of the art technologies in each of the technological components involved in the system and combining them.

The achievements of the project enable wireless streaming of MPEG-4 AVC video over WLAN. A focus will be done on source QoS (network packetisation strategy, error concealment). Subjective quality assessments results on video including error concealment will be given during the presentation together with some video examples.

DANAE

Scalable Video Coding (SVC) is one of the key factors in media adaptation. It enables flexible adaptation and tailoring of video streams for network transmission, terminal capabilities and user needs. DANAE is highly engaged in developing scalable video technology within the framework of the new MPEG/ITU SVC standard, which will finally support such flexibility under the constraint of good compression performance. Future solutions with possibly more degrees of flexibility, such as wavelet video technology, are also investigated and developed.

The presentation will highlight the application-driven requirements, new capabilities and technical approaches of SVC technology. This will cover the status of present SVC standard development and possible extensions beyond, including the wavelet video technology. The high potential for market acceptance, due to backwards compatibility with existing standards, will be discussed. Examples reflecting the capabilities of the new solutions, enabling high quality and adaptive video services, will be presented.

EXHIBITION AREA

The Exhibition Area is integrated by five thematic islands in which eight NAVSHP projects display their exhibits covering diverse research areas and fields of interest.

IP-based Networks, Services and Terminals for Converging systems

INSTINCT

INSTINCT assists DVB in realising the commercial provisioning of commercial services in mobility.

INSTINCT is a European project in line with the objectives of the newly established DVB-CBMS activities. It makes use of converged DVB-T, DVB-H and cellular networks (notably GPRS and UMTS). It aims to provide an open platform for the delivery of convergent services in collaborating wireless communications and terrestrial broadcast networks.

<http://www.ist-instinct.org/>



End-to-End QoS through Integrated Management of Content, Networks and Terminals

ENTHRONE - End-to-End QoS through Integrated Management of Content, Networks and Terminals

The ENTHRONE project proposes an integrated management solution which covers an entire audio-visual service distribution chain, including content generation and protection, distribution across heterogeneous networks and reception at various user terminals, bringing focus to mutually advantageous standards such as MPEG-21.

<http://www.enthrone.org/>



Towards the era of personal services at home and everywhere

EPERSPACE

EPerSpace aims at significantly increasing the user acceptance of networked audiovisual systems and applications at home and virtually anywhere by developing innovative interoperable value-added networked services

Access to electronic services will be improved by using seamless authentication and by integrating the home platform and home audiovisual equipment with a variety of user devices, as well as by using the personalisation profiles as a means of adapting contents to specific user requirements and communication devices.

The project will also identify and enhance the key success factors and develop new business models.

<http://www.ist-eperspace.org/>



Multimedia Networking

MEDIANET

MediaNet (Multimedia Networking) addresses the domain of digital multimedia personal communication and content distribution, as well as cooperation schemes between content owners, service providers, network access operators, and telecommunication, computer, components and consumer electronics industries. The objective is to remove the obstacles to end-to-end digital communications and content exchange, from content/service providers to customers and between persons, over shared broadband access and home network infrastructures at the same time. Hereto MediaNet partners jointly study a number of critical constituents of the on-line delivery chain (the e-media chain), made of various technologies, equipment or services, that are considered as pre-requisite elements for the creation of a myriad of new media services, supplied by multiple – and sometimes cooperating sometimes competing – providers and vendors in Europe.

<http://www.ist-ipmedianet.org/>



Dynamic and distributed Adaptation of scalable multimedia contents in a context Aware Environment

DANAE - MPEG-21 Digital Media Solutions for 21st century

DANAE addresses the dynamic and distributed adaptation of scalable multimedia content in a context-aware environment. Its objectives are to specify, develop, integrate and validate in a testbed a complete framework able to provide end-to-end quality of (multimedia) service at a minimal cost to the end-user. An application will be specifically developed and implemented to illustrate the new service concepts pioneered.

<http://www.danae.rd.francetelecom.com/>



The Innovative Rights and Access Management Inter-platform Solution

TIRAMISU

An Interoperable Digital Rights Management framework for a hybrid of applications and networks.

The TIRAMISU (The Innovative Rights and Access Management Inter-platform Solution) project addresses the problem of creation, delivery and consumption of audio-visual media across a wide range of hybrid networks and platforms, where security issues, such as intellectual property rights protection, privacy, access rights and transaction tracing are of major concern.

The objective of TIRAMISU is to unleash the full potential of digital media, addressing the complete consumption chain - media creation, delivery and consumption, while removing the Digital Rights Management (DRM) barrier.

<http://www.tiramisu-project.org/>



Collaborative Holographic Environments for Networked Tasks

COHERENT - Sharing 3D vision supports collaborative action

The COHERENT project aims to create a novel networked holographic audio-visual platform to support real-time collaborative 3D interaction between geographically distributed teams. The holodisplay presents realistic animated 3D images to unlimited number of freely moving viewers, with the potential to be among the candidate technologies for the future 3DTV.

<http://www.coherentproject.org/>



MHP Conformance Testing Improvement by Development of New Conformance Tests in Europe

MHP - CONFIDENCE

Boosting Interactive TV through advanced MHP conformance testing

The EU-Project MHP-CONFIDENCE strengthens the DVB MHP conformance-testing regime by specifying, creating and verifying new conformance tests for MHP 1.0.3, MHP 1.1.2 and MHP PVR/PDR. New tests for MHP 1.0.3 are focused on areas causing problems for application developers and broadcasters. MHP-CONFIDENCE contributes actively to ETSI through DVB.

<http://www.irt.de/mhp-confidence/>



- ISLAND #
- 1 Convergence of Broadcast & Telecommunications
 - 2 Multi-Service Home Gateway
 - 3 MPEG-21 Digital Media Solutions for 21st Century
 - 4 3D Display
 - 5 Interactive TV

ISLAND 1

ISLAND 2

ISLAND 3

ISLAND 4

ISLAND 5