Press Release

ARTEMIS & ITEA Co-summit 2012  
30 & 31 October – Paris, France

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**La Défense provides the futuristic backdrop to share a vision for ICT innovation at the Co-summit 2012**

The visionary architectural landscape of La Défense, bathed in morning sunlight and casting a stunning futuristic backdrop to this fifth Co-Summit, perfectly complemented this year’s theme of the event. ITEA and ARTEMIS reflected their common ambitions through an exhibition floor of fascinating projects, a walk of fame, a special focus area section on reliability, star performers, inspiring keynote speakers and challenging debates. Jointly opened by Klaus Grimm (President of the ARTEMIS Industry Association) and Rudolf Haggenmüller (Chairman of ITEA 2), the Co-summit was welcomed to the French capital by Cécile Dubarry, Director for ICT at the Ministère du Redressement Productif.

Keynote speaker Thierry Breton, Chairman and CEO of ATOS, gave an inspirational and challenging address. A man willing to take risks – something many might term visionary – already evident in his controversial decision to implement ISDN during his term as Director of France Telecom, he boldly asserted that internal e-mails would be a thing of the past in his present company by the end of next year. This example of not only the speed of change but the intrinsic kind of change that is taking place in our society would be echoed in the panel session that followed. “We are a society that is not undergoing evolution or revolution but a metamorphosis.” It is a time to be visionary and now, more than ever, it is a time for ARTEMIS and ITEA 2 to share a vision for ICT innovation.

**Knowing and not knowing**

Taking up this theme, the stage gave way to a panel discussion hosted by Emile Aarts, formerly Chief Scientific Officer at Philips Research and now Professor of Computing Science at Eindhoven University of Technology. This very lively debate, featuring five prominent players from different fields, was inspiring and gave the captivated audience plenty to think about. For instance, when asked ‘What did you not anticipate?’ when looking back on the impacts of technology during the past twenty to thirty years, panellist Heinrich Daembkes, Vice President of System and Software Engineering at CASSIDIAN, answered: the spectacular impact of social media – the size and speed at which it happened. Even more revealing by implication, then, is what it is we don’t know about what will happen tomorrow. The three parallel sessions in the afternoon – EIT ICT Labs, Vision 2030 Living Roadmap/Repository and Reliability (also the special focus area of this Co-summit) – pursued these and other relevant questions.

Throughout the day and indeed the following day, the exhibition floor allowed plenty of opportunity to look at how the future was already happening now in the ARTEMIS and ITEA 2 projects and, of course, gave the project representatives the chance to share insights with their colleagues from other projects. Guided tours also gave all projects the chance to present the impact of their work to various guests. This real community, family spirit once again underlined the value of such an event. The day closed, appropriately, with a dinner at the Ô restaurant on the banks of the Seine.

**Community at work**

The Wednesday morning, although less sunny on outside, nonetheless continued to be a glittering display of innovation and achievement in the CNIT conference centre as ARTEMIS kicked off the day with a brief retrospective by Executive Director of the ARTEMIS Joint Undertaking, Eric Schutz, in which he put the spotlight on the ARTEMIS projects before introducing a fascinating discussion in which four panellists were very capably moderated by Dr. Irene Lopez de Vallejo on the theme of healthcare and manufacturing automation. One of the questions – how the panellists interpreted the concept of ‘think big’ – drew different responses such as that from Andrei Lobov (e-Sonia project) who suggesting that ‘think open’ could be another way of phrasing the notion while Mladen Berekovic (R3-COP) emphasised the ambition of developing a large, knowledge-based tool design platform to provide solutions. The ‘big’ for Frank van der Linden (High Profile) centred on the cross-domain aspect and Silvio Bonfiglio (CHIRON) saw the ‘big’ in terms of projects having critical mass and societal impact. An interesting remark on this ‘big’ issue came from Andrei Lobov who cited the essential participation of SMEs as a driver of innovation and a key to the value chain. The challenges are evident but so is the progress being made in meeting those challenges and making significant inroads to really improve the quality of our lives. In presenting the ARTEMIS Recognition Awards, Eric Schutz turned the spotlight once again on the people who were responsible for making ARTEMIS such a success. Recipients were:

* CAMMI – adaptive cognitive man-machine interfacing and human-centred communication
* CESAR – Reference Technology Platform to reduce development time and effort by up to 50%
* CHARTER – concepts, methods and tools for the development, verification and certification of critical embedded systems
* CHESS – building languages to model and evaluate extra-functional properties as component contracts
* eDIANA – multi-purpose framework to enable the building sector to optimise energy consumption
* EMMON – research, testing and development of a functional prototype for large-scale wireless networks
* iLAND – enabling technologies for modular, component-based middleware
* INDEXYS – cross-domain instantiation of GENESYS embedded system architecture
* pSHIELD – pioneering investigation to address security, privacy and dependability in embedded systems context
* SCALOPES – enabling the evolution of low-power, multi-core computing platforms
* SMART – creating an innovative low-power wireless video-capable sensor network infrastructure
* SOFIA - making information in the physical world available for smart services in embedded and ubiquitous systems
* SYSMODEL – developing supportive modelling tools to enable SMEs boost performance and reduce time to market.

With the twelve beaming prize winners taking the plaudits on stage, Eric Schutz stressed that these stars were just twelve of the stars in the ARTEMIS heaven, proudly announcing that “Every project is a star”.

**Happy family**

Following on from the ARTEMIS Community session, ITEA 2, in the person of its Vice Chairman Philippe Letellier, opened its Family session. He announced to the ITEA family that approval had been secured for ITEA 3, and underlined the need to ‘seize the high ground’ by spotting new gaps in the market and moving quickly into them. “We must adapt continuously,” he reminded the audience, as he spoke explicitly about the new Living Roadmap and the very tangible evidence of the continuous adaptation already being engaged by ITEA 2. Instead of a printed book, the Living Roadmap is now available online for the ITEA Community, with constantly updated State-of-the-Art (SotA) documents. Hence, project proposers can focus their proposal on innovation building on the SotA, build a consortium with people and organisations already strongly involved in the targeted topic and create connections with related projects. Public Authorities can also measure the impact of the programme and evaluate the quality of the proposals. The ITEA reviewers can analyse the level of innovation of the Project Outlines (POs) and Full Project Proposals (FPP) and steer the projects towards innovation during their lifetime. Turning to the projects nominated for the Achievement Award, he praised the consistently high level of innovation, business impact and speed of exploitation. He pointed in particular to:

* the 23 patents registered by DiY Smart Experiences for its DiY service creation platform
* the rapid uptake of the Functional Mockup Interface (FMI) standard as defined by MODELISAR throughout the automotive industry and beyond, and
* the dramatic achievement of JEDI in demonstrating world satellite transmission of 3D TV in BluRay quality and in yielding 15 new products and 5 patents.

The three nominees then literally took centre stage as their presentations captivated the audience with the excellence of their work. In the end, the very difficult choice saw a deserved winner of the Gold Award in the **JEDI** project.

This 2012 Gold Award winner has created a new project pattern; through intensive participation in Digital Video Broadcasting (DVB) standardisation, the consortium was ready for DVB Phase 2 in June 2012. The JEDI project delivers BluRay-3D quality, or full HD per eye at broadcast, and a user-centric approach to complement the technological and business orientation of the project. The targeted market and fast exploitation cover the value chain from 3DTV content, post processing, encoders, delivery, IPTV, cable and STB to interactive applications, HDMI display port, display and audio.

Silver Award winner **MODELISAR** has closed the loop between the Modelica simulation environment and AutoSar, the automotive standard. Dynamic modelling of different software systems can be used together for soft­ware, model and hardware-in-the-loop simulation and for embedded software – a sort of plug-and-play approach for components in the simulation framework. The other Silver Award winner, **DiY Smart Experiences**, shows the potential of the Internet of Things for and by the end consumer as well the encouragement it gives to the IoT community to look further. DiYSE has delivered a huge quantity of practical results, including security of the contiki OS, a semantic layer to describe the sensors and ensure interoperability, and underlying distributed architecture. But in the end, all the projects deserve acclaim through the contributions they make to boosting the value of innovation for society.

The Co-summit exhibition award prizes based on votes cast by participants for the best and most understandable projects went to the ITEA **DIAMONDS** project and the ARTEMIS **R3-COP** project. DIAMONDS also won this award in Helsinki last year, so it was unique feat for this project that is developing a new, model-based approach to software testing with applications in multiple industries – such as banking, transport and telecommunication. Three young enthusiastic demonstrators of the R3-COP stepped up to receive the award for their project that addresses robotic autonomous systems in domains like surveillance and rescue, agriculture, people care, home environments and transport.

**Happiness and fun**

The final afternoon of the Co-Summit was devoted to innovative engineering as Gérard Roucairol, President of Teratec, challenged four panellists to confront this very inspiring subject for the research and innovation community. Such as the extremely different lifetimes of software and the products in which software constitutes a vital embedded element. Or the growth of ‘multi-X’ dimensions of software and systems engineering. With demand for the three essential ingredients of software-intensive systems and services – safety, security and reliability – continuing to increase, innovative engineering was a very pertinent topic for this final debate.

Serious though such challenges are, both Rudolf Haggenmüller and Eric Schutz underlined in their joint ambitions that there should be plenty of scope for happiness and fun; sometimes hidden but essential ingredients in the innovation mix and certainly central to the wonderful atmosphere that pervaded this very successful Co-summit. The closing address was presented by Dr Charlotte Brogren, Director General of the Swedish governmental agency for innovation systems, VINNOVA. Pointing to the Swedish tradition of ICT innovation and world leading companies like Ericsson, she looked forward to the Co-Summit 2013, which will be held in Sweden in December.

Rudolf Haggenmüller and Eric Schutz reiterated the happiness and fun that underlie the two programmes. And as proceedings drew to a joyful close, thoughts were already turning to Stockholm and yet another milestone along the path of this successful partnership.

**Strong support**

The Co-summit received strong support from the Ministère du Redressement Productif, DGCIS, Airbus, Alcatel-Lucent, Bull, Institut Mines-Télécom, Technicolor and THALES.

**About ITEA 2**

ITEA 2 (Information Technology for European Advancement) stimulates and supports innovative and pre-competitive R&D projects that will contribute research excellence to Europe’s competitive Software-Intensive Systems and Services (SiSS) sector. SiSS are a vital growth engine for Europe’s economy and a key driver of innovation in Europe’s most competitive industries – such as automotive, aerospace, communications, healthcare and consumer electronics. ITEA 2 and its predecessor ITEA have a proven track record with major achievements and results in these industries. From 2014, ITEA 2 will be succeeded by ITEA 3.  
  
As a EUREKA Cluster programme, the ITEA approach is intergovernmental, bottom-up, market-oriented and industry-driven. Following the EUREKA structure, each ITEA 2 project partner can apply for national funding in their own country – allowing a project idea to attract funding from all participating countries. ITEA 2 is open to partners from large industrial companies and SMEs, as well as research institutes and universities.  
  
ITEA 2 Board members are: Airbus, Alcatel-Lucent, Barco, Bosch, Bull, Daimler, Italtel, Nokia, Philips, Siemens, Technicolor, Telefonica, Telvent, Thales and Turkcell Technology. For ITEA 3 Ericsson and Mobilera are joining the Board.   
  
The current set of more than 150 projects (ITEA + ITEA 2), with more than 1000 partners from 30 countries, has established a solid basis for further development. Many of these projects have led to the creation of completely new businesses.   
  
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**More information about ITEA 2**: <http://www.itea2.org>

**About the ARTEMIS Joint Undertaking**

Growing out of the ARTEMIS European Technology Platform (ETP), the ARTEMIS Joint Undertaking (JU) was established in 2008 and aims to tackle the research and structural challenges in embedded systems faced by the industrial sector. The objective is to define and implement a Research Agenda for Embedded Computing Systems. ARTEMIS JU is an industry driven programme and aims to help European industry consolidate and reinforce its world leadership in embedded computing technologies. The economic impact in terms of jobs and growth is expected to exceed €100 billion over ten years.

The European Union recognises the strategic importance of Embedded Computing Systems and launched the ARTEMIS Joint Technology Initiative (JTI). The ARTEMIS JTI is implemented as a Joint Undertaking (JU) which is a public-private partnership between:

* The European Commission
* Participating Member States, by now 23 countries
* ARTEMIS Industry Association, the non-profit Industrial Association that continues the ETP on embedded systems.

The ARTEMIS JU will manage and co-ordinate research activities through open calls for proposals through a 10-year, €2.5 billion research programme on Embedded Computing Systems. The programme is open to organisations in European Union Member States and Associated Countries. Selected projects will be co-financed by the Joint Undertaking and the Member States that have joined ARTEMIS. The ARTEMIS JU adopts a commonly agreed research agenda closely following the recommendations of the ARTEMIS-ETP Strategic Research Agenda developed by the members of ARTEMIS Industry Association.

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**More information about ARTEMIS:**

About the ARTEMIS-JU: [www.artemis-ju.eu](http://www.artemis-ju.eu)

About ARTEMIS Industry Association: [www.artemis-ia.eu](http://www.artemis-ia.eu/)

About ARTEMIS: [www.artemis.eu](http://www.artemis.eu)