IRISS

Implementation of Research & Innovation on Smart Systems Technologies

Contractual Partners

ARTSCI	Arts & Science	United Kingdom
CEA	Commissariat à l'Energie Atomique et aux Energies Alternatives	France
CSIC	Agencia Estatal Consejo Superior de Investigaciones Cientificas	Spain
CRF	Centro Ricerche Fiat SCPA	Italy
CSEM	Centre Suisse d'Electronique et de Microtechnique SA - Recherche et Développement	Switzerland
ENAS	Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.	Germany
Hitachi	Hitachi Europe Limited	United Kingdom
HSG	Hahn-Schickard-Gesellschaft für angewandte Forschung e.V.	Germany
IKERLAN	IKERLAN S.Coop.	Spain
PARAGON	Paragon Anonymh Etaireia Meleton Erevnas Kai Emporiou Proigmenhs Texnologias	Greece
Siemens	Siemens AG	Germany
Sorin	Sorin CRM SAS	France
Starlab	Starlab Barcelona SL	Spain
STM	STMicroelectronics SRL	Italy
Thales	Thales Communications & Security SA	France
VDI/VDE-IT	VDI/VDE Innovation+Technik GmbH	Germany

In addition to the 16 Contractual Partners, all of which are EPoSS members, IRISS involves a number of Associated Partners that support the project by providing input to the work packages and feedback on the work performed by the consortium.

Project Details

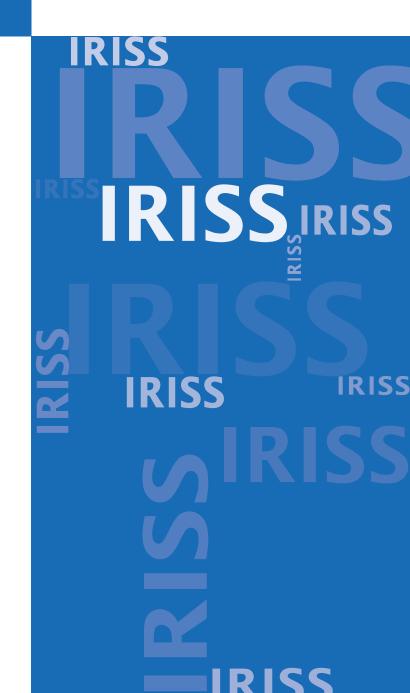| Project Acronym	IRISS
Project Title	Implementation of Research & Innovation on Smart Systems Technologies
Project Number	287842
Funding Scheme	Coordination and Support Action
Start Date	1 October 2011
End Date	30 September 2013
Duration	24 months
Project Cost	2.1 million Euro
Project Funding	1.5 million Euro

Project Coordinator

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For more information on IRISS, please go to the project website at www.iriss-csa.eu

IRISS is a Coordination and Support Action that receives funding from the European Commission's 7th Framework Programme (FP7/2007-2013) under Grant Agreement No. 287842. IRISS involves 16 contractual partners – all of which are members of EPoSS, the European Technology Platform on Smart Systems Integration – and a number of Associated Partners. It covers the whole value chain from researchers to end-users. The start date is 1 October 2011. The project duration is 24 months.

Project Abstract

Europe benefits from leadership across a breadth of industries including automotive, avionics, information and communication technologies, medical equipment, and industrial automation. Incorporated Smart Systems, including smart components (and in the future Micro-Nano-Bio Systems) often provide the key technical features for the competitiveness of products in these sectors.

The objectives of IRISS are to hedge and extend competitive advantages of European industry in order to make Europe number one in the world in Smart Systems research and production. Therefore this coordination and support action focuses on improvements of the European innovation system in the Smart Systems sector, which comprises

• the formulation of a coherent strategy involving all major stakeholders
• the opening of new application fields and markets
• the intensification of cooperation in the Smart Systems value chain, paying particular attention to the inclusion of SMEs
• the overcoming of fragmentation in the political landscape.

The innovation focus of IRISS is to identify, examine, and recommend ways to gain a European advantage in smart, integrated products and systems, with an emphasis upon engaging with user communities – in particular:

• to establish applications-pull in a supply chain by engaging with user communities in fast-developing sectors, alerting them to the capabilities of Smart Systems and extracting their needs and ideas for introduction
• to examine and put forward cases for focused effort in the manufacturing sector and health sector, which both promise to provide hubs for coordinated activity, combined with world benchmarking and a survey of the longer-term technology landscape
• to draw together a network to support the implementation of its recommendations.

In order to reach its objectives IRISS makes use of the EPoSS structures and builds upon the results of the Coordination Action CEPoSS.

IRISS Structure and Work Packages

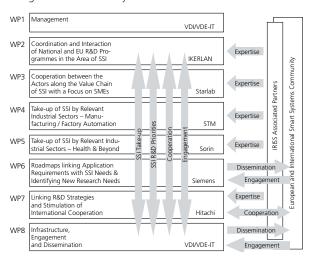The work in IRISS is organised in 7 thematic work packages.

Work Package 2 targets coordination and interaction of national and EU R&D programmes in the area of Smart Systems Integration (SSI). It is led by IKERLAN.

Work Package 3 on cooperation between the actors along the value chain of Smart Systems Integration with a focus on SMEs and including a study on value creation of Smart Systems in Europe is led by Starlab.

Work Packages 4 and 5 aim at take-up of Smart Systems by relevant industrial sectors. WP4 focuses on

manufacturing – both manufacturing of Smart Systems and the use of Smart Systems for manufacturing – and is led by STM. WP5 is on Smart Systems in health and beyond with a special focus on Micro-Nano-Bio Systems. WP leader is Sorin.

Work Package 6 under the leadership of Siemens covers roadmapping exercises linking application requirements with SSI needs and the identification of new research needs.

Work Package 7 concentrates on stimulation of international cooperation in the field of Smart Systems Integration and is led by Hitachi.

The above work packages are further supported by Work Package 8 on infrastructure, engagement and dissemination. This work package, which is led by coordinator VDI/VDE-IT, has a strong focus on activities that target until now SSI unaware stakeholders and user communities.