



SMARCOS

SMARt COMposite human-computer interfaceS

EXECUTIVE summary

To help users of interconnected embedded systems by **ensuring** their **interusability**. Smarcos results will be applicable to **all embedded systems** that interact with their users, which is a substantial fraction of today's market. The results will also help web services that are integral parts of such systems.

RELEVANCE CALL 2009 objectives

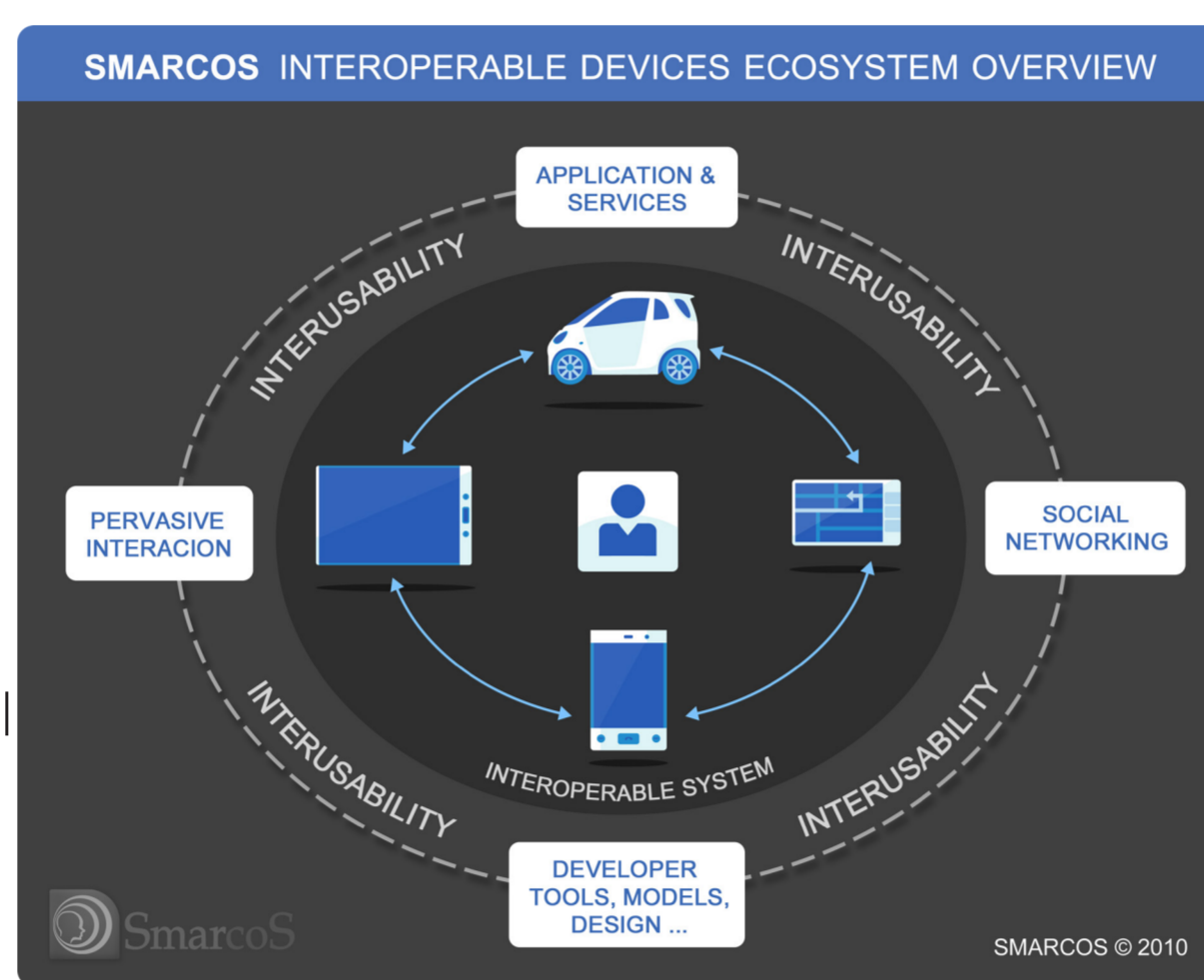
Seamless connectivity and middleware: Smarcos targets interconnected embedded systems in different domains, seeks cross domain connectivity at the UI level and shares resources dynamically.

Design methods and tools: Smarcos builds models of human-device interaction to predict and analyse usability issues and enhances design tools for design-time validation.

MARKET innovation

Smarcos results will be applicable to all embedded systems that interact with their users, which is a substantial fraction of today's market.

We will look at **usability-enhancing** principles in several complementary domains (healthcare, personal devices, control systems), identify commonalities in their technical solutions (e.g. context-aware features) and transfer lessons learned and solution patterns between these domains.



Smarcos results will enhance the products and R&D processes of our partners and their allies. Our concepts will lead to novel products, both as **new, better devices** and **novel services in the cloud**.

TECHNICAL innovation

Smarcos seeks to:

- > Extend usability research and user interface solutions to look beyond individual devices and services.
- > Make devices better aware of what their users and other systems are doing. This will reduce the "artificial stupidity" so common in today's systems and render user experiences less frustrating.
- > Find useful tools for modelling the combination of devices, services and the people who uses them. We hope to capture in these models such essential features of the domain that the models/modelling techniques can be reused from one system to another, reducing the need for redesign.
- > Improve the state of embedded HCI, creating new user studies and novel concepts methods to be widely demonstrated.



PROJECT COORDINATOR Dr. Pertti J. Huuskonen	START January 2010
INSTITUTION Nokia	DURATION 36 months
EMAIL pertti.huuskonen@nokia.com	TOTAL INVESTMENT €13.5 M
WEBSITE www.smarcos-project.eu	PARTICIPATING ORGANISATIONS 17
	NUMBER OF COUNTRIES 7

