



SandS: Social & Smart

**Social housekeeping through intercommunicating appliances
and shared recipes merged in a pervasive web-services
infrastructure**

Seminar Social&Smart

Social network household appliances, an instance of Internet of Things

Thursday, December 17, 2014

Workshop Summary

Social & Smart is a research project funded by the EU in the framework of the Internet of Things. The goal of this project is to improve the efficiency of household appliances at the service of the persons. The way is a physical and computational networked infrastructure allowing household appliances to better *understand* the needs of their owners.

In order to disseminate the latest results obtained in the project, the consortium organizes a half day seminar, to be held at Fundaci3n CARTIF headquarters on December 17th morning. This seminar is split in two sessions. The first one is devote to the intelligence core of the SandS system. The scientific partners will expose the methodology to generate recipes for complying with the user requirements and refining them with the user evaluations. Then, the role of the domestic island within the Social & Smart infrastructure will be presented. The session ends with a AMIS (ISP from Slovenia) presentation, which will show the latest news and trends about Social Networks, new equipment, etc.

The second session includes the most technological aspects of the project. The mock-up will be described which has been settled in Cartif to support the tests required by the partners. The scope is performing them in the same way as in a real kitchen. The employment of Arduino microcontrollers will be discussed in relation to our target appliances and other open source implementations as well. Moreover, the world of smart sensors and the infrastructure to connect them to the domestic networks will be explained. Finally, the viewpoint of the appliances manufacturers, regarding this technology, actual trends and solutions for a close future, will be introduced by Gorenje manufacturing group.



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Fundación CARTIF [<http://www.cartif.com/en/location-and-contact.html>]
 Parque Tecnológico de Boecillo, par. 205
 47151 Boecillo (Valladolid) Spain

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10:00h-10:10h	Welcome Pr. José R. Perán and Mr. Pedro Caballero, Fundación CARTIF
10:10h-10:30h	The SandS project Pr. Bruno Apolloni, SandS Project Coordinator.
Session I	
10:30h-10:45h	Recipes generation using Computational Intelligence Pr. Bruno Apolloni, Department of Computer Science of the Milan University (Italy)
10:45h-11:00h	Reinforcement Learning by the taste of the users Mr. Borja Fernandez, Computational Intelligence Group, UPV/EHU (Spain)
11:00h-11:15h	Middleware island for domestic infrastructures Mr. Giorgos Siolas, National Technical University of Athens (Greece)
11:15h-11:45h	Network society, trends and discussion Mr. Arton Lipaj, AMIS Druzba za Telekomunikacije (Slovenia)
11:45h-12:15h	<i>Coffee break (with bread SandS) in mockup.</i>
Session II	
12:15h-12:30h	SandS Cartif's Mockup Dr. Samuel Marcos, and Dr. Sergio Saludes, Fundación CARTIF (Spain)
12:30h-12:45h	Open-source microcontrollers for interactive projects Mr. David Cuartielles, Arduino (Switzerland)
12:45h-13:00h	The real world is connected through smart sensors Mr. David Remon, Libelium (Spain)
13:00h-13:30h	Gorenje's Connected Household Appliances within the Social&Smart project Mr. Mihael Bračko, Mr. Sašo Vinkovič, Gorenje Gospodinjski Aparati (Slovenia)
13:30h	Closing

Those interested should write an email to:
seminar_sands@cartif.es
 (Name, surname, email, and organization/company)