

## **COMPOSE: Collaborative Open Market to Place Objects at your Service**

### **Description**

The COMPOSE project aimed at enabling new services that can seamlessly integrate real and virtual worlds through the convergence of the Internet of Services with the Internet of Things. COMPOSE will achieve this through the provisioning of an open and scalable marketplace infrastructure, in which smart objects are associated to services that can be combined, managed, and integrated in a standardised way to easily and quickly build innovative applications.

The COMPOSE project built upon existing European research projects and ongoing standardisation activities to provide a comprehensive marketplace framework that will be able to cover the whole service lifecycle by integrating a number of innovative technological enablers in a coherent way.

The project developed novel approaches for virtualising smart objects into services and for managing their interactions. This included solutions for managing knowledge derivation, for secure and privacy-preserving data aggregation and distribution, and for dynamic service composition advertising and discovering objects' capabilities and service provisioning and monitoring.

The COMPOSE project gave birth to a new business ecosystem, building on the convergence of the Internet of Services with the Internet of Things and the Internet of Content. The COMPOSE marketplace allowed SMEs and innovators to introduce new Internet of Things-enabled services and applications to the market in a short time and with limited upfront investment. At the same time, COMPOSE will allow major European players in the information and communication industry, particularly cloud service providers and telecommunications companies, to reposition themselves within new Internet of Things-enabled value chains.

The COMPOSE consortium comprised twelve partners, including leading ICT companies, recognised academic and research excellence centres, a standardization body, as well as pioneering SMEs in Internet of Things-based innovative services.

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