

Wo₀

Web of Objects

PROJECT SUMMARY

Build on IoT and WoT, make objects smarter enabling them acting in secured choreographies towards making easy the development of complex business IoT applications.

OBJECTIVES

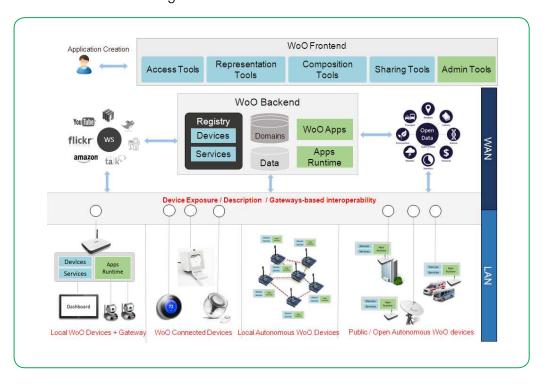
- Devices & services Interoperability
- Service adaptation to context
- Increased security
- Devices dynamic discovery, reconfiguration and cooperation

BUSINESS VALUE

- Migrate of the existing business applications to the Web of Objects
- Acquire new business collaboration based on devices and services sharing
- Towards automated & decentralized system operation

EXPECTED RESULTS

- Service infrastructure for IoT business applications enabling multi-tenancy, interoperability, service composition
- Semantic-based reasoning tools



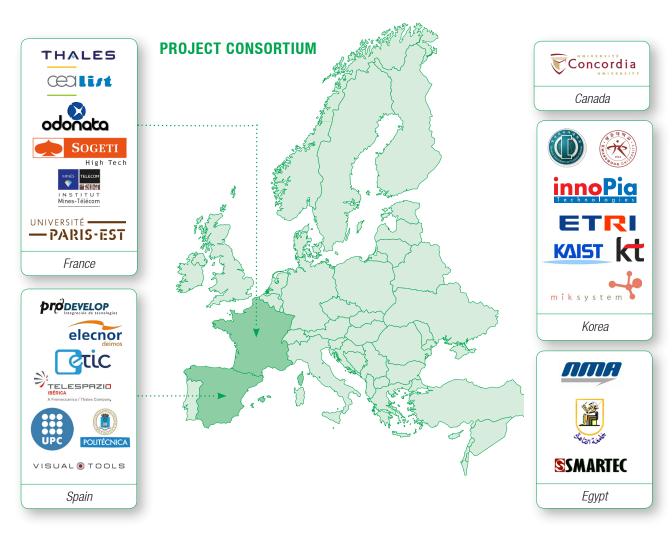






Wo0

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PROJECT START

PROJECT END

January 2012

December 2014

WEB OF OBJECTS PARTNERS

- Large companies (6)
- SMEs (7)
- Universities (7)
- Research institutes (5)

WORK PACKAGES OVERVIEW

WP1 – Project Management Planning, monitoring, reporting WP2 - Use Cases Sota, Application Requirements and Business Models

WP3 - Common Architecture
Requirements, specifications & reference architecture

WP4 - Devices and Network
IPV6, autonomic & wireless sensors networks

WP5 - Services Semantic Based Handling Modelling, Reasoning, Composing and orchestrating

WP6 - Demonstrations
Smart and secured building oriented demos

WP7 - Dissemination Dissem, Exploitation, standardisation





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WoO Demonstrators

Web of Objects

COOPERATIVE OBJECTS FOR SECURED & SMART BUILDINGS

- Multiple levels interoperability with proxies and gateways
- Behaviour Composition
- Context recognition
- Semantic-based reasoning

ONE EVENING FROM HOME TO THE MALL

 NFC-Based personalized access to services provided by home, personal car, parking, shopping mall's objects and commercial actors

SMART EMERGENCY SURVEILLANCE IN HOME AND IN SHOPPING MALL

- Dynamic service creation based on semantics & context
- Pet Care service
- IPTV service platform based on Smart streaming protocol

AUTONOMOUS ENERGY EFFICIENT CLIMATE CONTROL

- Smart Monitoring & Diagnostic
- Mote Placement Optimization Tool

