

WEST is strongly characterized by **design capacity** to address specific problems in different **application scenarios**.



## APPLICATIONS SCENARIOS

Communications applications

Sensor networks for monitoring applications

IoT applications

New generation automotive and industrial applications



## DESIGN CAPACITY

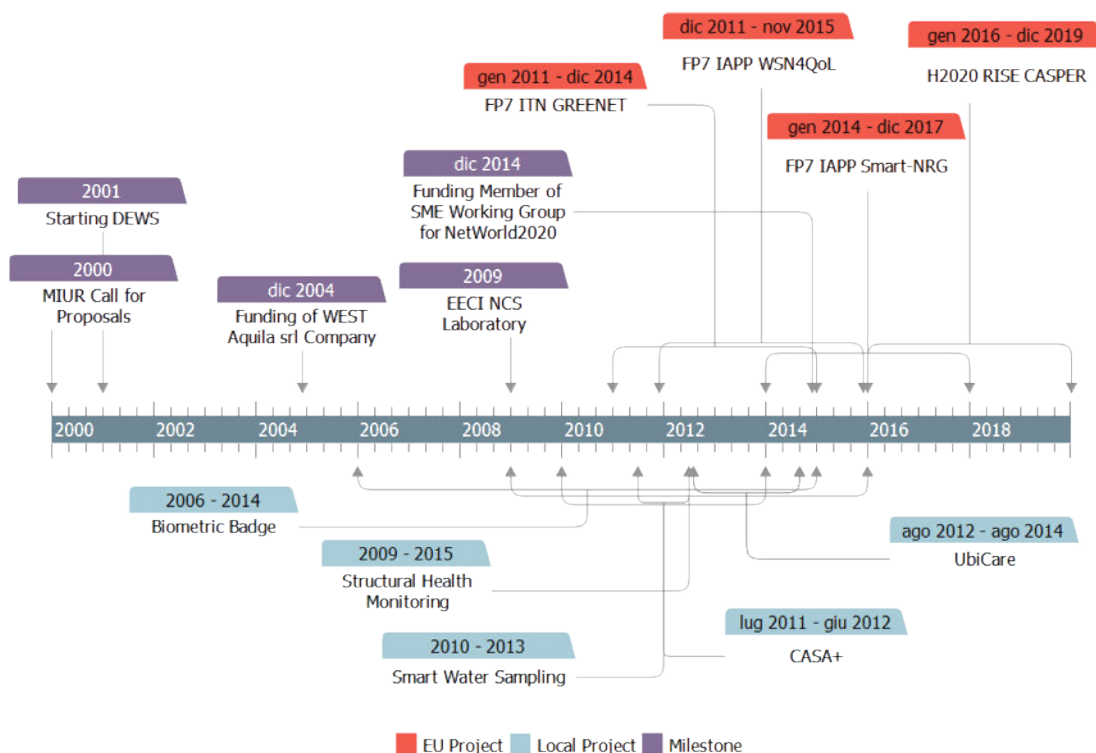
Electronic Digital Systems

Embedded Systems

Firmware and System Integration

Analog to Digital and Digital to Analog interfaces

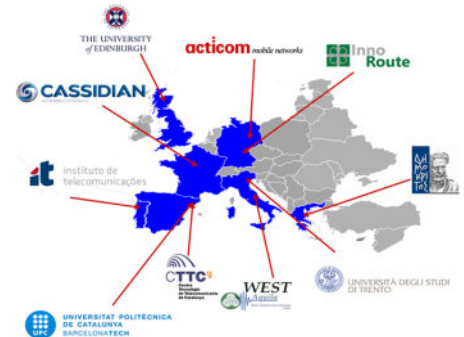
Analog Signal Processing





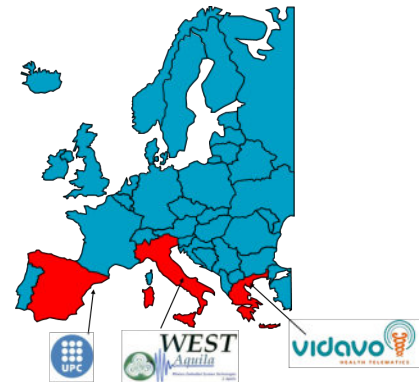
## GREENET

- Greenet is an Initial Training Network (ITN) Marie Curie Project
- Objective: the analysis, design, and optimization of energy efficient wireless communication systems and networks.
- Consortium from 7 EU Countries: 3 Universities, 3 Research Centres, 4 Companies
- Project website: [www.fp7-greenet.eu](http://www.fp7-greenet.eu)




## WSN4QoL

- Wireless Sensor Networks for Quality of Life is Industry-Academia Partnerships and Pathways (IAPP) Marie Curie Project
- Objective: bringing together experts from industry and academia, with the goal to design innovative Wireless Sensor Network (WSN) technologies for a more efficient pervasive healthcare system.
- Consortium from 3 EU Countries: 1 University, 2 Companies
- Project website: [www.wsn4qol.eu](http://www.wsn4qol.eu)




## Smart-NRG

- Industry-Academia Partnerships and Pathways (IAPP) Marie Curie Project
- Objective: the design and implementation of an efficient, reliable and secure smart energy network.
- Consortium from 2 EU Countries: 1 University, 2 Companies
- Project website: <http://smart-nrg.net>



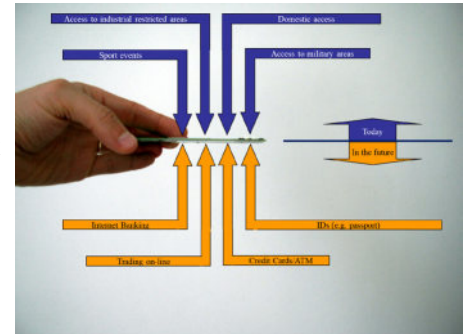

## Casper

- A user-Centric middleware Architecture for advanced Service Provisioning in futurE netwoRks. It is a Research and Innovation Staff Exchange (RISE) project under Marie Skłodowska-Curie Actions (2016-2020)
- Objective: design and implement a middleware architecture for QoE-driven service provisioning.
- Consortium from 3 EU Countries: 2 University, 3 Companies
- Project website: <http://casper-h2020.eu>



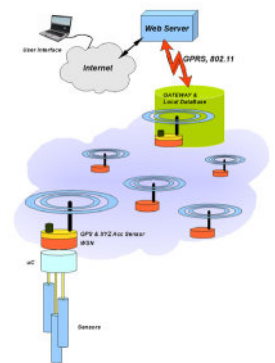
## Biometric Badge

- Development of enabling technologies for security management in crowded areas, access control to restricted (logical and physical) resources
- Home banking authentication based on the biometric badge



## Smart Water Sampling

- Surface water monitoring to contrast pollutions
- Multiparametric sensors for early warnings
- Water sampling subsystem to bring samples to the lab for specific analyses



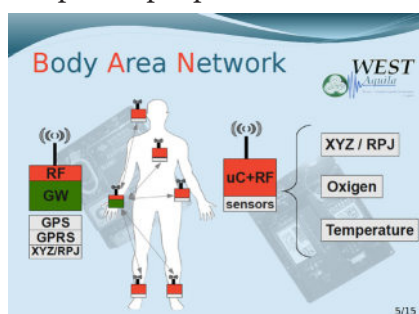
## Structural Health Monitoring

- Monitoring of structural behavior during the reconstruction of the Basil of "Santa Maria di Collemaggio" in L'Aquila, damaged by the Earthquake in 2009



## Ubicare

Ubiquitous Caregiver: technologies for the remote assistance of impaired people.



## Casa+

Support to young people with Down syndrome for independent living at home.

