

ITALY DAY

ABSTRACT TABLE OF PROJECT PROPOSAL

PROJECT Nr. 18

SECTOR:

IT Information Technology

**PROJECT IDEA IN A
HEADLINE:**

“If We sense, We make sense!!!”

INNOVATIVE POINTS:

- New Fluid Ribbon Web UI for the Web Application and context sensitive role enabled commands
- Web Management, Monitoring, Control and Remote Programming
- Receiving information and status measurements (sensors)
- Sending and scheduling commands (customizable Rule and Workflow Engine) to perform specific actions (actuators) on single node or logical groups of nodes
- Alarms, Events and Warnings SMS and/or E-mail notifications
- Georeferencing of the nodes (view and interact in Google Maps window) and GeoServer 2.0 via WMS
- Graph and reports

**POTENTIAL BUSINESSES AND
APPLICATION FIELDS**

Our purpose is to create a Web Cloud SaaS Application for manage wireless sensor networks in different fields:

- Monitoring and Management Systems Lighting and Energy Consumption (off the 35-40% of saving)
- Fleet Management – Monitoring Fleets of Vehicles / Boats / Goods
- Climatic Stations / Weather / Air quality in cities (Smart Cities)
- Monitoring of soil and hydrogeological for landslides and/or earthquakes or fires
- Monitoring and Managing Wheel Turbines / Solar Panels
- Functions of building automation and home automation (lights domestic consumption, shutters, doors, alarms, security)
- Tracking of local goods, pallets with embedded RFID technology
- Integration with the Internet and Smart Grids – The smart grid creation and distribution energy as needed and in a scalable, unifying contributions from

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renewable Wind, Solar, Hydro

- Geospatial data exposed via standard Web Services WMS, WCS and WFS of Geoserver 2.0 UE INSPIRE directive compliant

CHARACTERISTICS OF POTENTIAL PARTNERS: Companies involved in ICT technologies, renewable energy, energy conservation, smart cities and internet of things, and managing fleets of vehicles or boats

EU PROGRAMMES TO PARTECIPATE:

FP-7 SMARTCITIES-2013, FP7-ENERGY-2013-2

BRIEF PROJECT DESCRIPTION:

The wireless sensor network (WSN) communication is based on radio frequency (RF) ZigBeePro standard and encrypted secured channel, two-way communication to the network nodes with proprietary protocol.

Each nodes has a very competitive cost base and low impact by adding sensors, actuators and extensibility.

The Web Application is Cloud enabled and Multitenant, every client has its own network of sensors, user accounts, monitoring data, custom rules, workflows, reports and notifications (SMS, E-Mail).

The functions on the Web Ribbon UI, changes based on the logged-in user role, the item selected and the active pay-per-use service enabled.

The Web Application is a SaaS software (Software as a Service), the client can buy the entire project and customize it or use the Web Application with a monthly fee for every managed node.

For example in public lighting applications with LED technology and sensor nodes you have up to the 35-40% of saving over previous technologies.