

# Spanish Smart Grids Technology Platform



17<sup>th</sup> December 2015



## Profile

□ **Name:** Spanish Smart Grids Technology Platform

□ **Country:** Spain

□ **Classification:**

National Technology Platform (NTP)

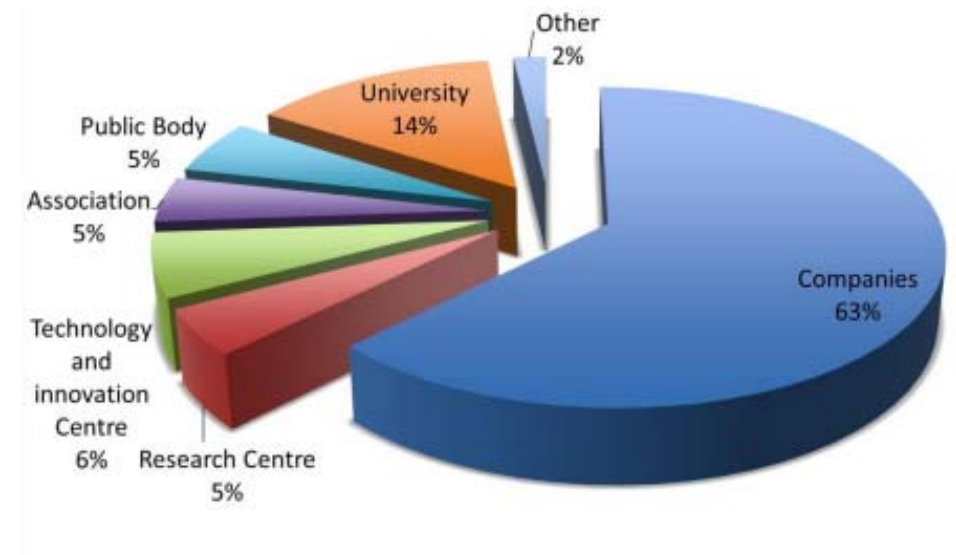
□ **Year of establishment:** 2005

□ **Members:** 122

□ **Target audience:** Electricity grid stakeholders at Spanish level – utilities, companies, research organizations, universities, associations, public administration, etc...

□ Over 60% of members are companies

□ **Main focus:** Promotion of technology development and innovation



## FutuRed's dynamics

- ❑ From a Steering Committee as a stable group:
- ❑ Workshops / Conferences
  - ❑ To show project results
  - ❑ To promote partner collaboration in new project ideas
  - ❑ To exchange information at European level or with other tech. platforms
- ❑ Working groups life cycle



## Other FutuRed's activities

### DOCUMENTS / R&D WORKSHOPS

- Strategic vision document
- Strategic research agenda
- Economic prospective assessment
- R&D capacities inventory in Spain

The documents are under a continuous update according to the technological and regulatory developments held in the framework of the electricity grids.

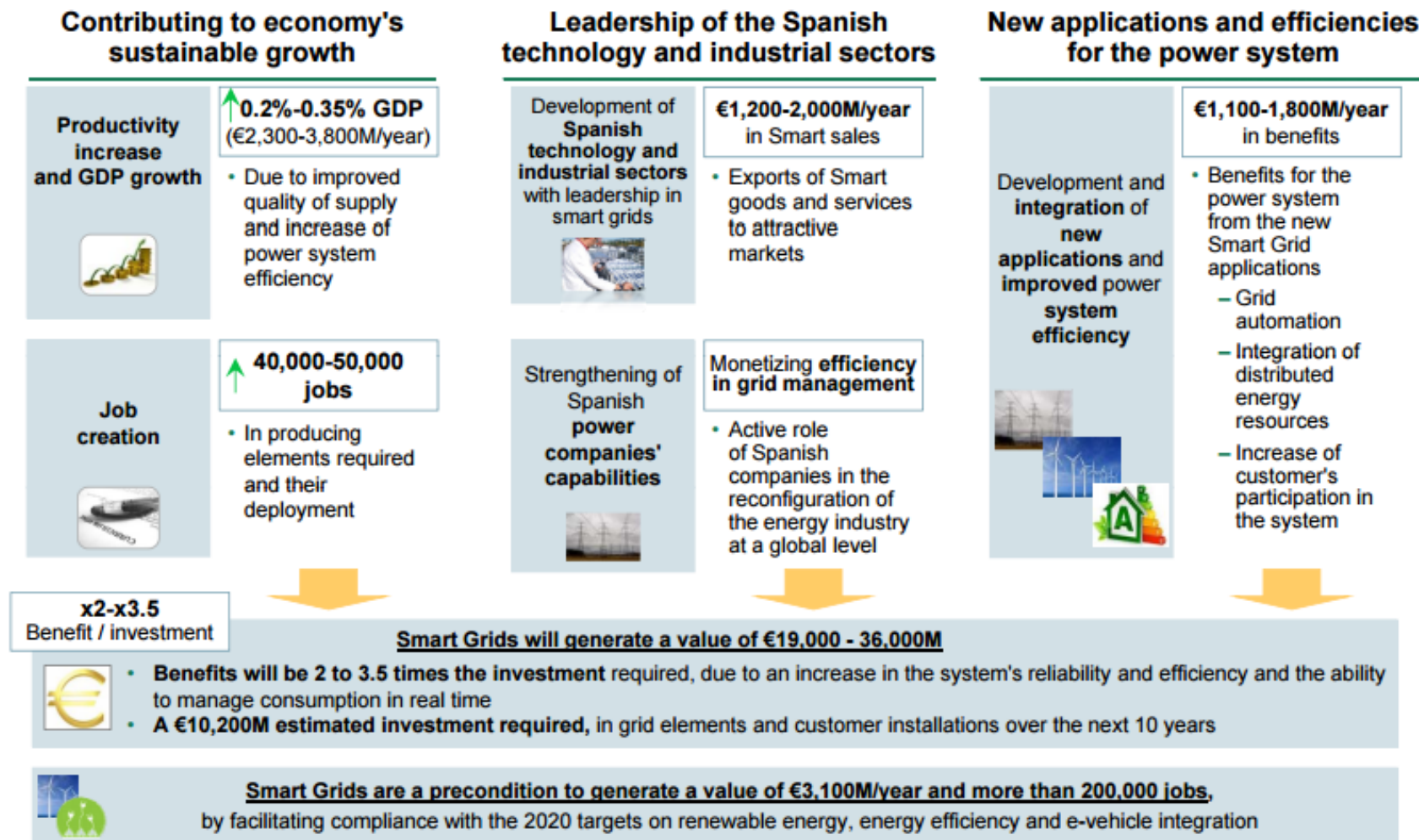


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## Economic prospective assessment

### Developing Smart Grids will improve country's competitiveness, generating benefits for the technological & industrial sectors



## FutuRed's Smart Grids Capabilities

- ❑ Spain has a large experience and capabilities through the whole value chain in the electrical sector: from the university, the research centers the manufacturers, service providers to the electrical companies.
- ❑ The capabilities map records in a systematic and tabulated way the capabilities **in three axes**
  - ❑ Knowledge (researchers, patentes and publications)
  - ❑ Infrastructures (from laboratories to living labs)
  - ❑ Projects



- ❑ **29 organizations recorded**

- ❑ **Information available at:**

[www.futured.es/capacidades](http://www.futured.es/capacidades)

Plataforma Española de Redes Eléctricas - FUTURED

**PRESENTACIÓN**

**Ubicación:** TECNALIA Research & Innovation - DERIO - Parque Tecnológico de Vizcaya C/ Geldo, Edificio 700 - 48160 Derio - Vizcaya

**Año de creación:** 2004

**Potencia gestionada:** 200 kW[1]

**Descripción:** Centro de Desarrollo y Demostración de Tecnologías de Generación eléctrica Distribuida

**Admite visitas:** Sí

**Función Microred:** Sí [2]

**Función en isla:** Sí

**TIPO DE SERVICIOS:**

- Laboratorio

**Descripción**

InGRID. Infraestructura de Ensayo y Experimentación para Redes Eléctricas Inteligentes

**Tipo de servicios que ofrece**

**DIRECCIÓN:**

TECNALIA Research & Innovation - DERIO - Parque Tecnológico de Vizcaya C/ Geldo, Edificio 700 - 48160 Derio - Vizcaya

**Fecha:** 28/05/2012

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## Training working group

### Objective

- To promote the Smart Grids related technologies among the High School students, which are the future experts that have to be engaged.
- To increase the number of students in Technical Careers related to the electrical grid of the future.

### Developed actions:

- Workshops (2 hours): an expert explains to high school students the current state of the art of a technology and its future trends.
- Creation of materials to enable high school lecturers to discuss with the students about the Smart Grid Technologies (current and near future). Smart Grids, Electric Vehicles and their integration, energy efficiency at consumer side...



**Over 35 lectures in spanish schools supported by specific science promotion programmes.**

## WORKSHOPS

### WORKSHOP ON SMART GRIDS PROJECTS IDEAS

- **Date:** 16 January 2015
- **Venue:** Sede MINECO – Paseo Castellana 162 (Madrid) – Sala F
- **Description:**
  - **85 Attendees** ↑
  - **16 Project ideas** ↑
  - Section I: National and international funding programmes
  - Section II: Smart Grids project ideas
  - Section III: Energy storage integration ideas
  - Section IV: Energy storage

Next workshops to be held in January / February 2016.





## Collaboration lines proposal

Under ETP SG:

- ❑ Promote collaboration between NTPs/RTPs members sharing ideas/proposals through workshops
  - ❑ Good practices or working groups results exchange
  - ❑ Multinational/regional working groups
  - ❑ Collaborative projects promotion (proposals submission trough the NTP/RTPs to an ETP SG committee for approval and open presentation of the proposals)
- ❑ Information exchange: database of national/regional smartgrid projects, database with R&D capabilities in member states/regions.
- ❑ Interoperability group: close the gap between normalization and interoperability.

THANK YOU

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