



Frankfurt (Germany), 6-9 June 2011

Grid4EU

Large-Scale Demonstration
of Advanced Smart **Grid** Solutions
with wide Replication and Scalability Potential **for EUROPE**

Anh VU

ERDF – Technical Division
Grid4EU Project Coordinator

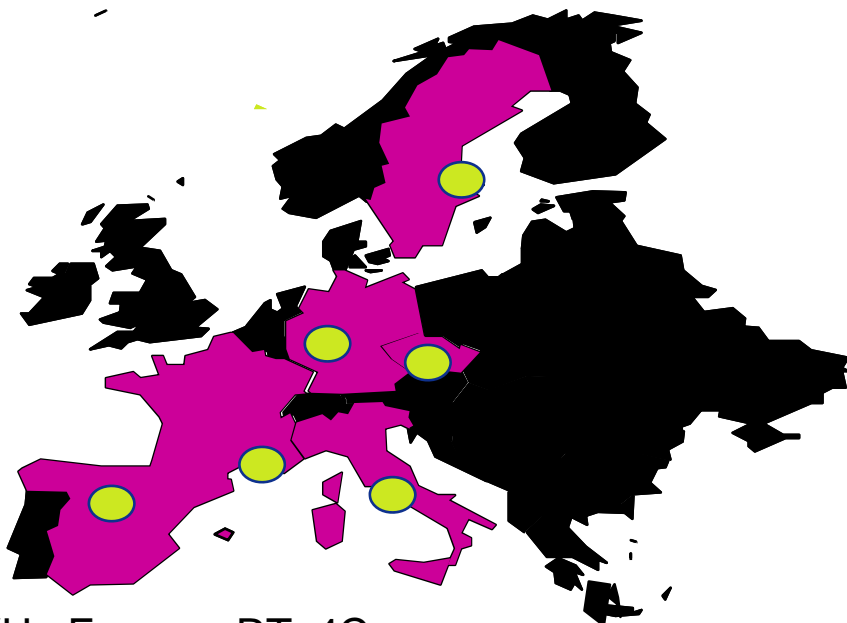


Grid4EU project

An FP7 European Project

□ A European SmartGrid Project (EC FP7 negotiation ongoing)

- Led by a group of DSOs
- **27 partners** (Utilities, Energy Suppliers, Manufacturers, Research Institutes)
- **Duration: 4 years** (2011-2015)
- **ERDF**: project Coordinator





Grid4EU project

Planning and Budget

□ Grid4EU Planning

- Call Publication : 30 July 2009
- Proposal submission: 4 March 2010
- Negotiation process : final step
- **Project starting date : 2nd semester 2011**

□ Grid4EU Budget (on-going negotiation with EC)

- Total Budget : **54 M€**
- Requested EC grant : **25,3 M€**



Grid4EU project

Main Objectives - RD&D Topics

❑ Main Objectives

- SmartGrid Cost-benefits analysis
- Technologies and Standards
- Scalability and Replicability over Europe

❑ Research Development & Demonstration Topics

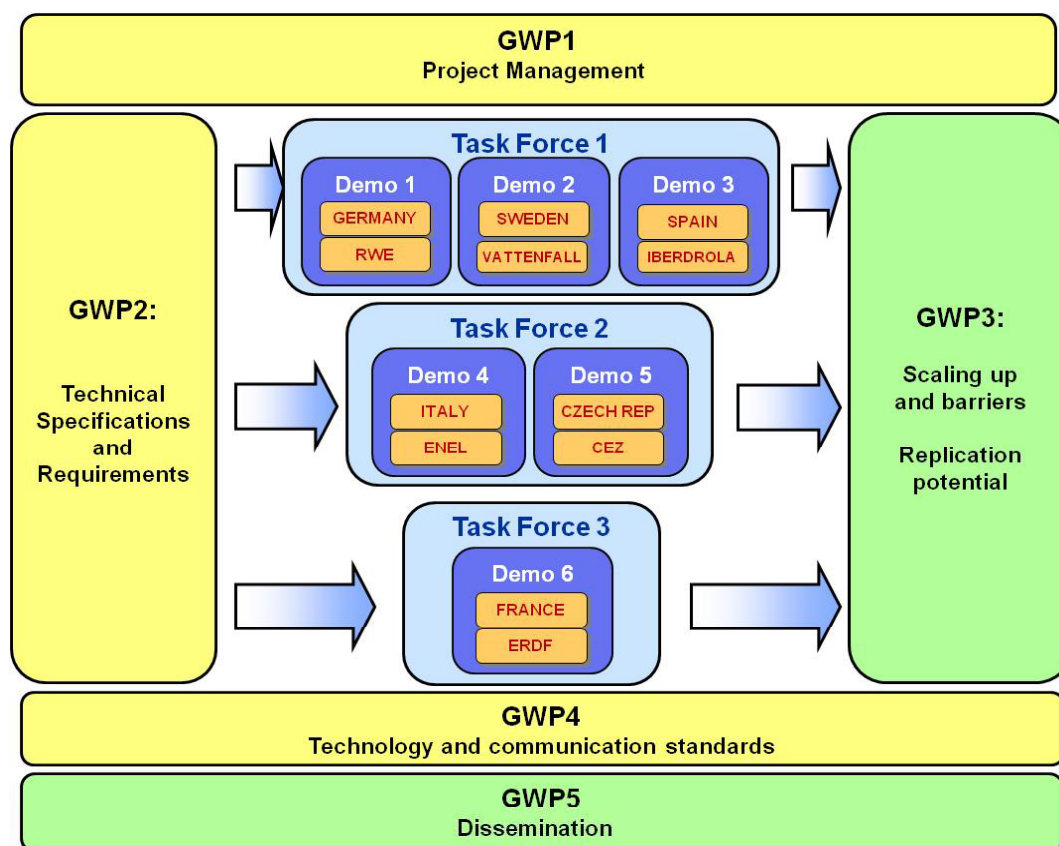
- **More RES** connected to distribution networks,
- **Secure Energy supply:**
 - network reliability: MV / LV network Supervision & Automation
 - Micro grids
- **Peak load management**
 - better interactions between network operation and electricity customers
- **Demand Side Management**
 - including EV and distributed Storage
- **Active Demand**
 - implementing active and efficient participation of customer to electricity markets



Grid4EU project

Project structure

3 Task forces - 5 General Work Packages



Task Force 1

How to improve existing distribution networks in order to welcome more DER and Active Demand into the electric system?

Task Force 2

How DER and Active Demand can help existing distribution networks become stronger and more flexible?

Task Force 3

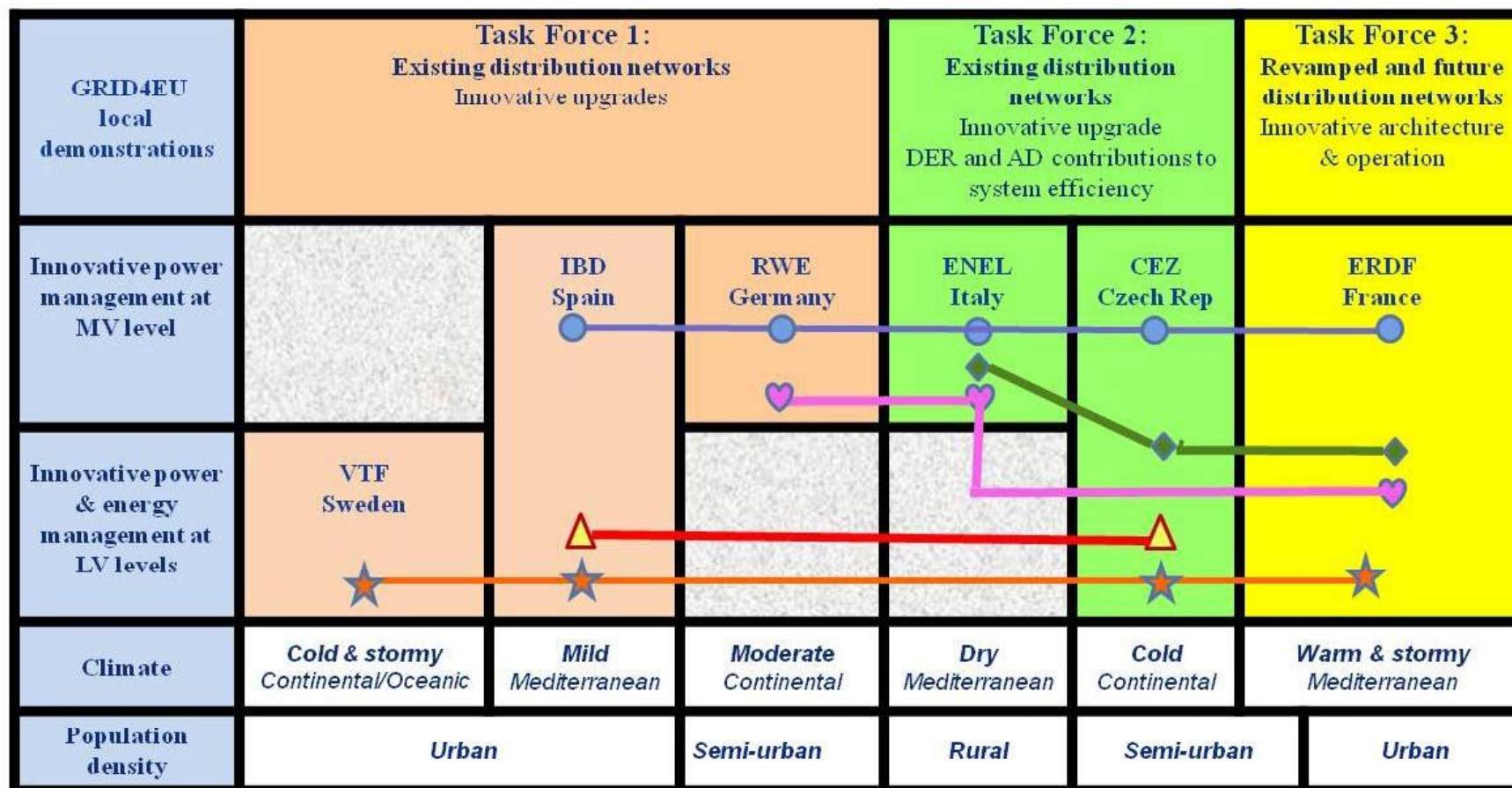
How to maximize smart districts benefits through the use of future distribution networks architecture and operation?



Grid4EU project

Local demonstrations

Interactions & synergies



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**Thank You
for your Attention**