



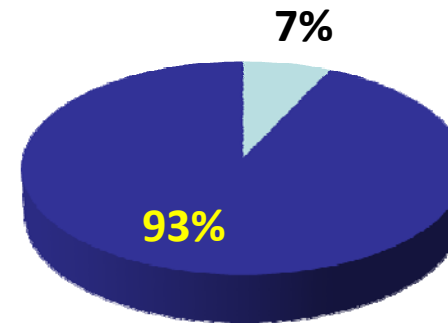
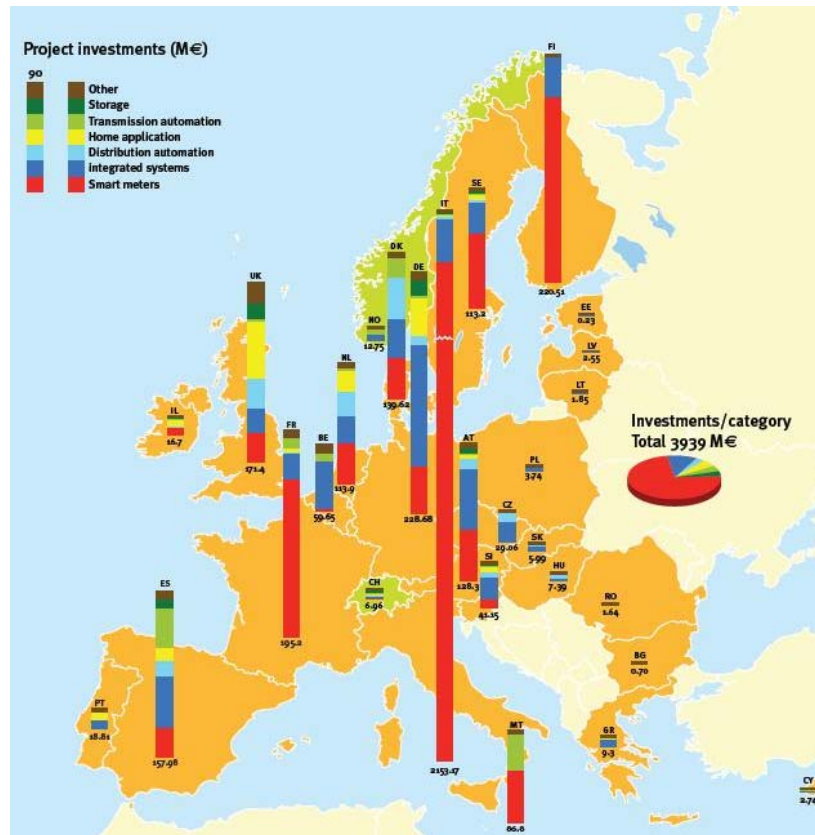
A tool to make European Smart Grids collaborative effort a reality

Michele de Nigris
Project coordinator

The European background : SET-plan and its initiatives



The European background: National demonstrators and European initiatives



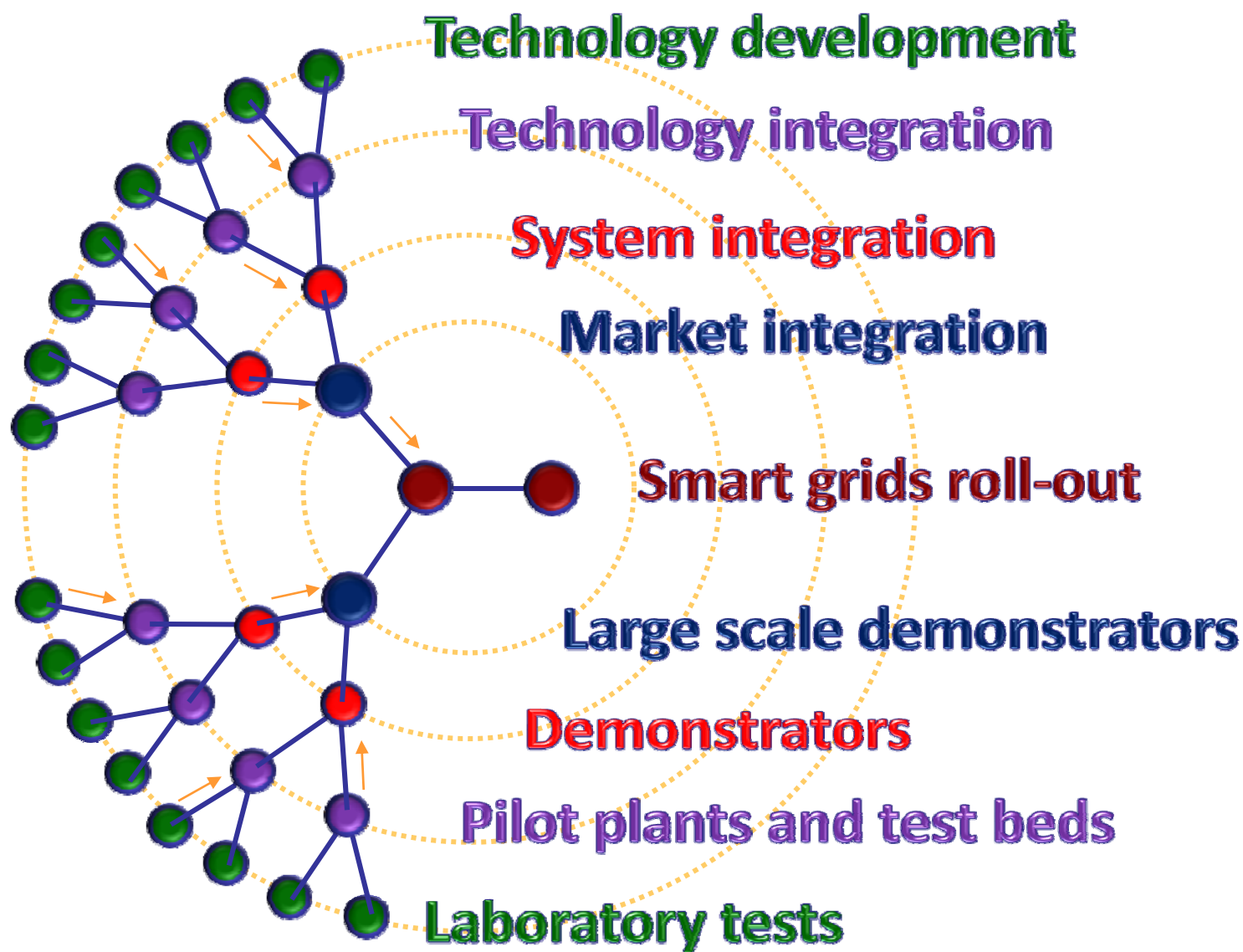
EC funds
national funds



203 European projects in total

- 111 projects with significant demo part;
- 15 projects EC-funded,
- 189 MS-funded

The steps of a global collaborative effort



GRID+: make it happen

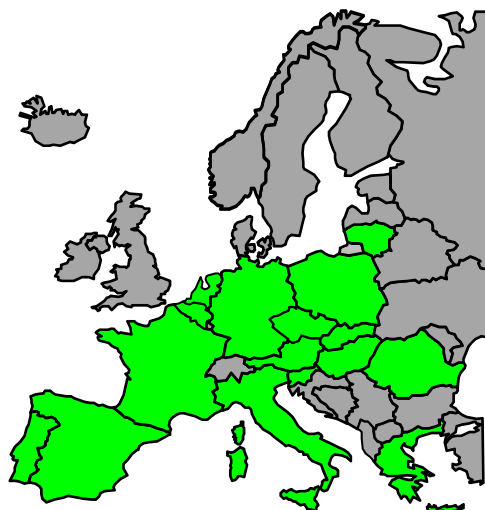
Implement and support the management, planning and networking process of the EEGI over the years 2012-2014, within and beyond the European borders, to enhance the delivery by the European network operators of the knowledge needed to deploy Smart Grid solutions in the most effective way possible.



The Consortium

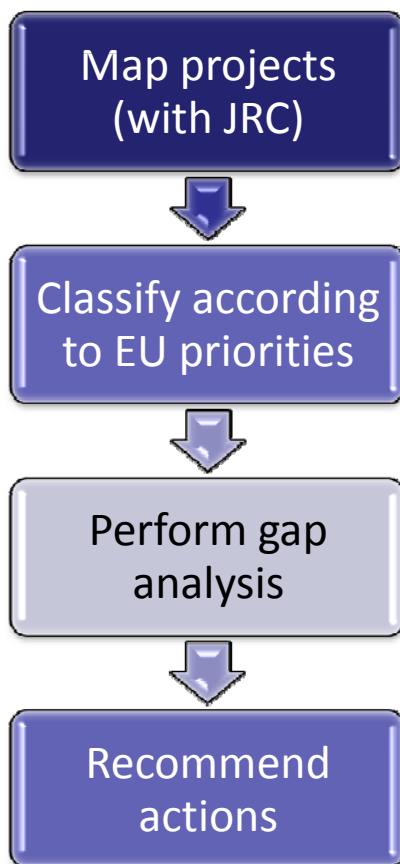


The representative of GRID+ consortium

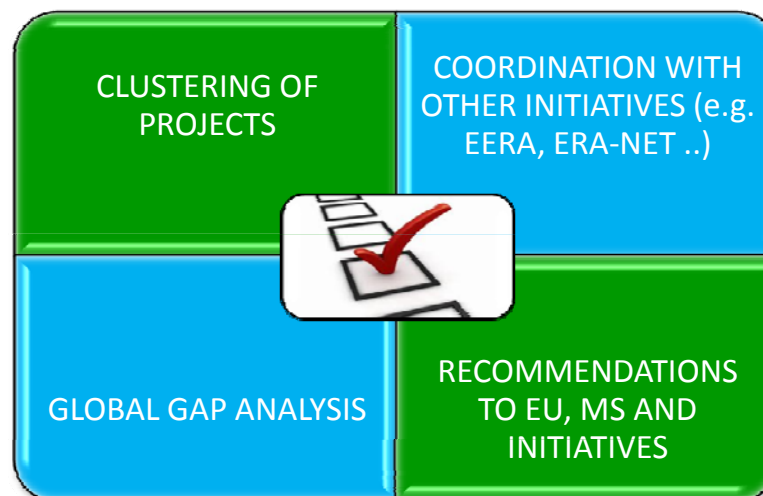




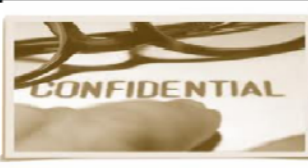
How can the on-going efforts be optimised filling in gaps and avoiding overlaps to achieve EU priorities?



	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
Components	Yellow	Yellow	Yellow	Orange	Orange	Orange	Red	Orange	Red	Red	Orange	Orange
Network	Green	Orange	Orange	Orange	Red	Orange	Red	Red	Orange	Orange	Orange	Orange
Market/Business Models	Red	Red	Yellow	Red	Red	Red	Red	Red	Orange	Red	Red	Red
Customer Acceptance	Orange	Orange	Orange	Orange	Orange	Green	Red	Orange	Green	Green	Green	Green
Framework	Red	Orange	Red	Red	Red	Orange	Red	Orange	Red	Red	Red	Red



no needs identified	Green
need information exchange to be improved	Yellow
missing	Red



How can the available knowledge be managed, leveraging existing efforts and safeguarding IPR?

Analyse current IPR framework for main on-going national and European projects



Perform gap analysis



Propose knowledge management framework for future EU (and national) projects



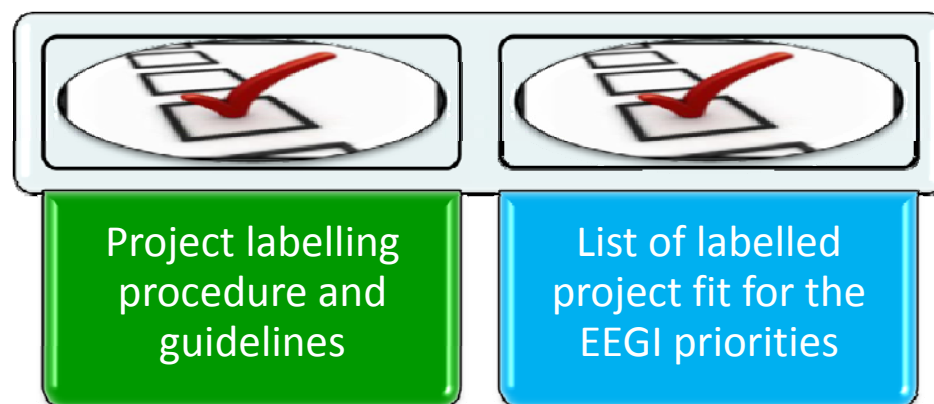
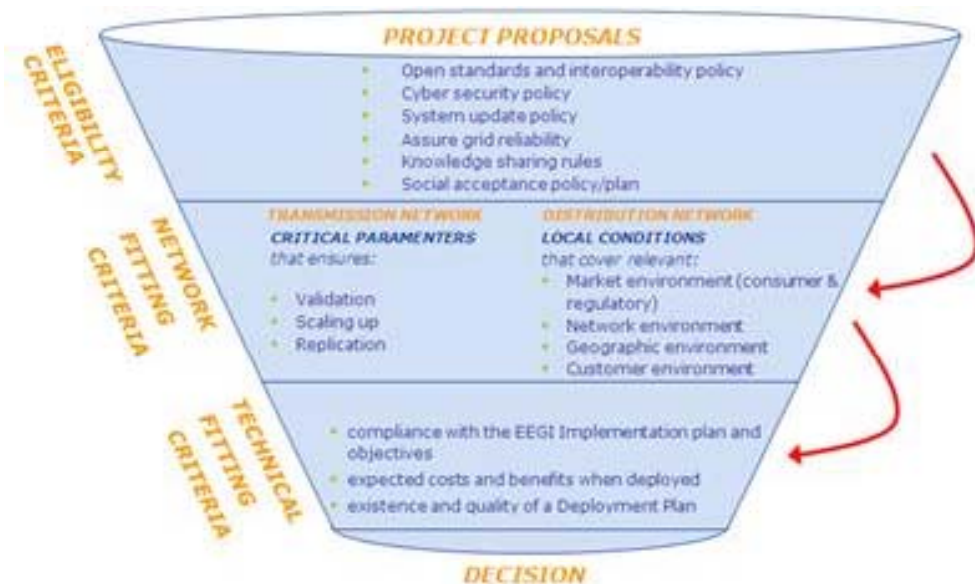
Validate through stakeholder and public consultation

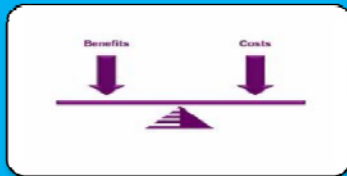


**GUIDELINES FOR
KNOWLEDGE
MANAGEMENT OF EU
SMART GRIDS
DEMONSTRATORS**

Periodic Table of the Elements

How to measure the adequacy of a project to fit the priorities of the European Grids Initiative?





How can the cost and benefits of a project be assessed?

Propose a set of KPIs adapted for the SG framework



Validate on existing projects



Deliver procedure and guidelines



Technical

- Increased interconnection capacity
- TSOs, DSOs
Manufacturers
points of view

Economic

- Cost benefit analysis
- Effectiveness of the proposal
- Regulatory aspects

Policy

- Compliance towards 20-20-20 targets

KPI

Level 1 KPIs

Level 2 KPIs

Level 3 KPIs

EEGI
Programme

Cluster of
Projects

Functional
Projects





How can project results be replicated to extend the lessons learned?

Search and assess worldwide experience on project replication and upscaling



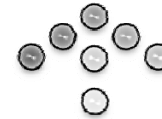
Assess the scalability potential of main on-going smart grid projects



Propose methods and tools for enhancing the scalability of ongoing and new projects



Provide guidelines that can be used in support of actual projects



Recommendations



Discussion of methods and identification of factors that influence scalability



Literature search on existing methods



How can the action of network operators be leveraged keeping focus on their evolving needs?

Compile a wish-list of priorities and needs with network operators



Assess the list against the operators R&D programmes and roadmaps



Validate through public consultation

Propose a yearly update of the work programme for the EEGI

• FIRST UPDATE OF THE WORK PROGRAMME FOR T&D DEMONSTRATORS

2012



• SECOND UPDATE OF THE WORK PROGRAMME FOR T&D DEMONSTRATORS

2013

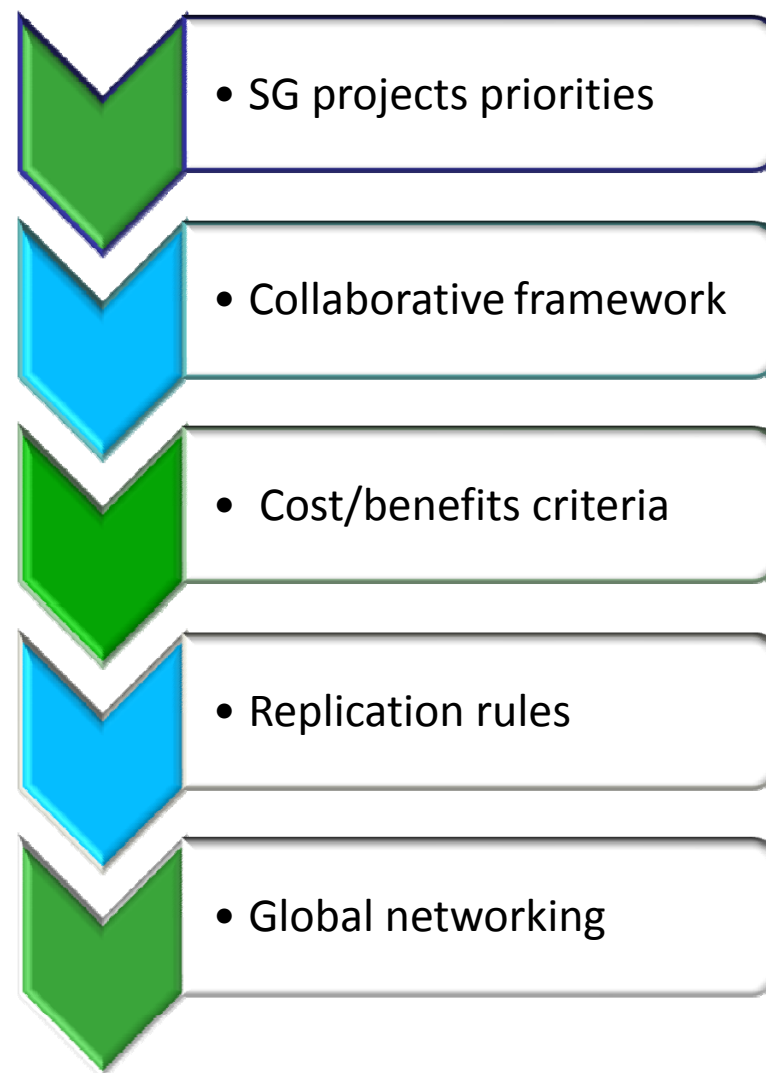


• THIRD UPDATE OF THE WORK PROGRAMME FOR T&D DEMONSTRATORS

2014



GRID+: your tool to make it happen

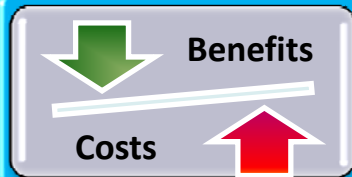




Grazie

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How can the cost and benefits of a project be assessed? (2)

Level 1 KPIs

Sustainability and integration [CO₂ emissions avoided]

Increased network capacity and technology
[Net Transfer Capacity]

Economic KPI

Examples of level 1-2 KPIs proposals

