



The Medgrid initiative for the development of the Mediterranean Grid

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The Context

- ✦ **The MSP and the export of RES to EU**
- ✦ **Development of a euro-mediterranean grid**
 - *CO2 savings / climate protection*
 - *Reduction of cost – operation and investment*
 - *Reliability - interconnection an answer to intermittence*
 - *Security of supply – diversification of sources*
 - *Help funding RES investment in SEMCs*

A strong and smart grid is most efficient in the fight for climate change



Medgrid objective

Promote and facilitate the development of the Mediterranean Grid

- **Prove that the grid is viable and prepare an environment conducive to investments**
- **Promote developments: technology, regulation, funding**
- **Support investors' initiatives**
- **In cooperation with SEMCs**

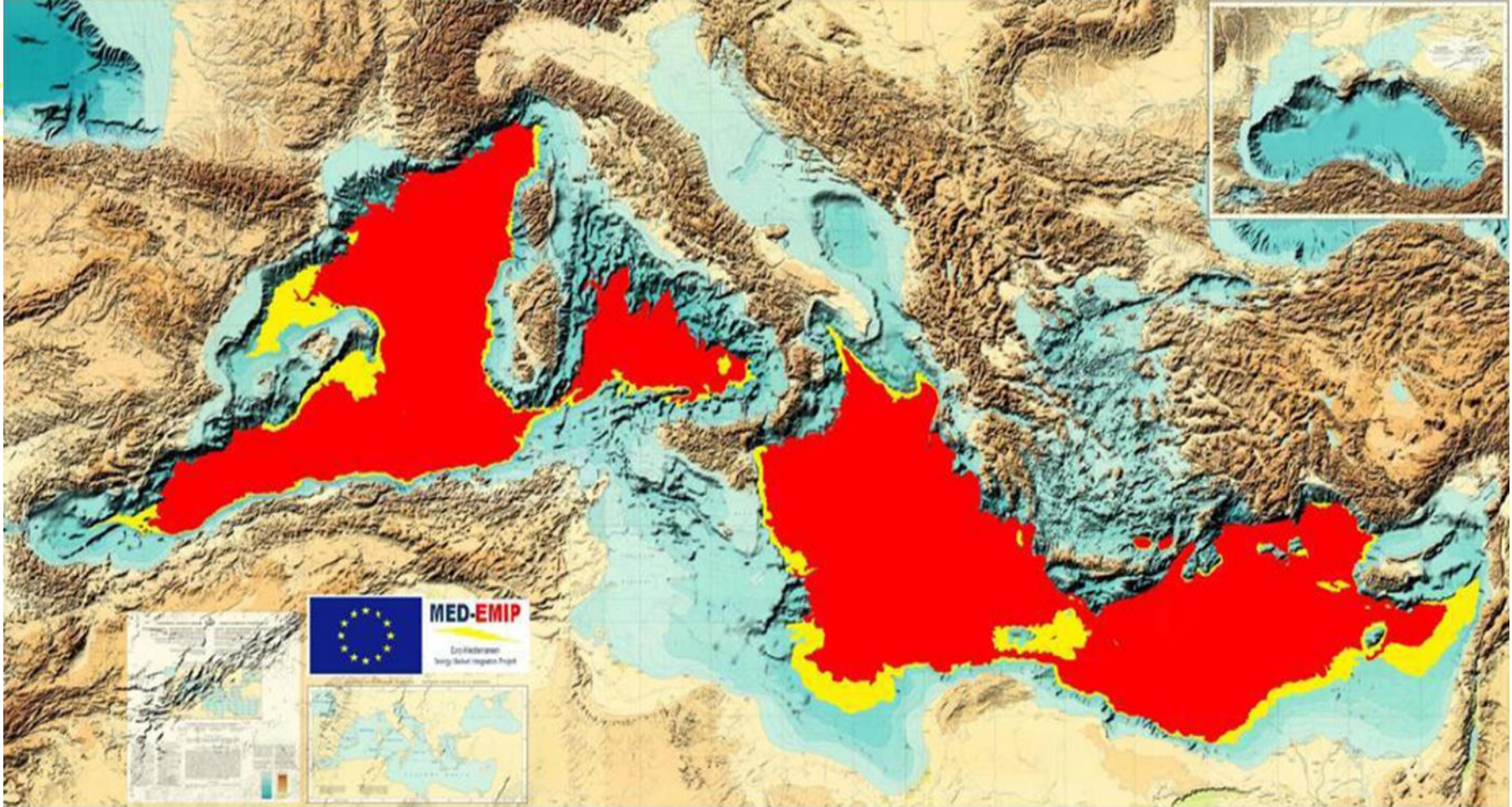
A consortium of EU & SEMCs companies (TSOs, generators, manufacturers, financing institutions, investors)

How?

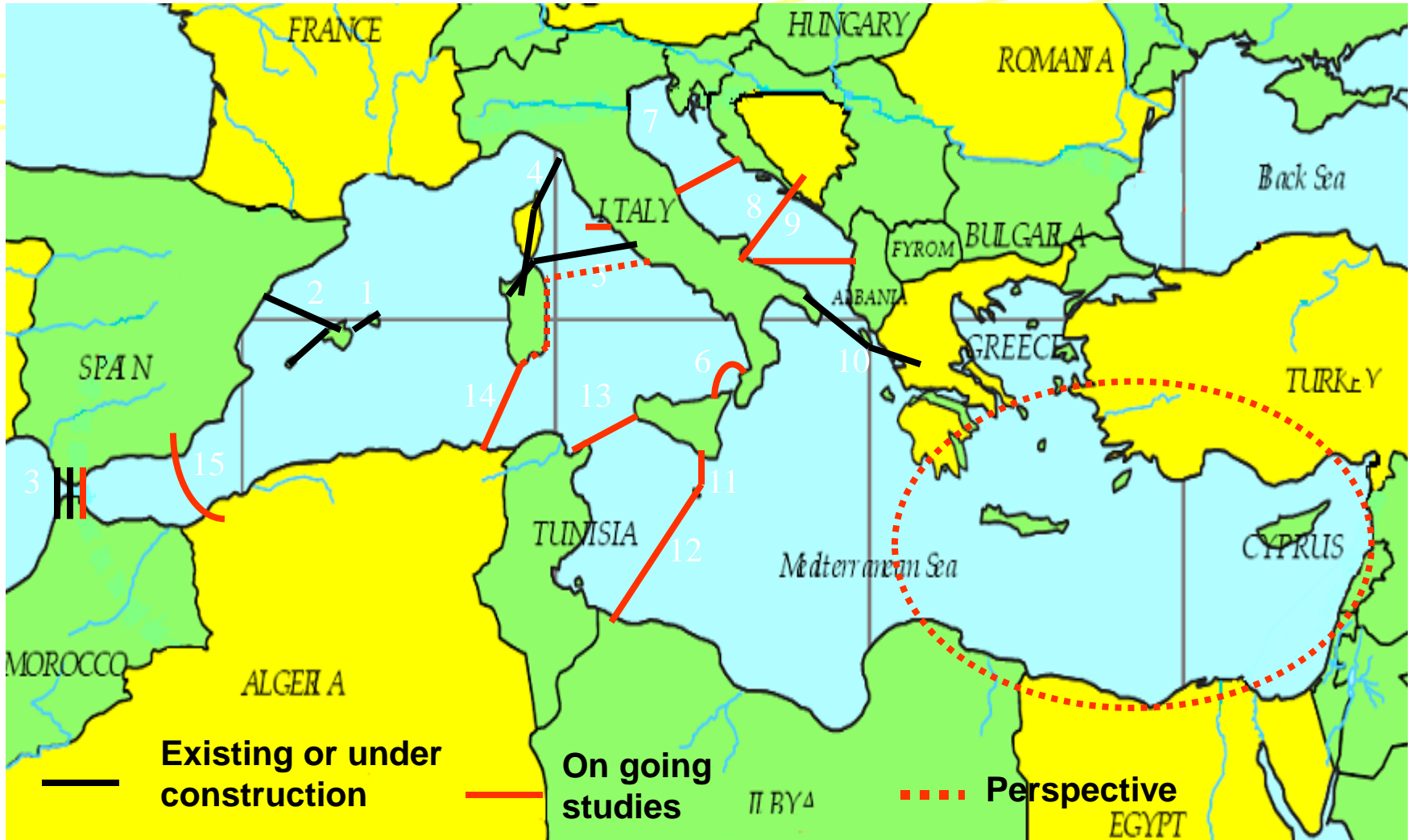
- ✦ **We will define an reference optimal grid : the grid which enables the most efficient operation of the interconnected systems by 2020**
- *Load and Generation “profiles” in EU and SEMCs 2020*
- *Optimize generation ➡ power flows in both directions*
- *Costs of infrastructures, including induced reinforcements in transit systems*

Grid which results in minimum cost (Generation + Transmission)

The feasible submarine routes



Feasible submarine links





Assess the viability of the grid

✦ **Economical analysis**

- *Global benefit / social welfare*
- *Power flows and return on grid investment*
- *Robustness against hypotheses - scenarios*

✦ **Impact of funding conditions**

✦ **Impacts on local economies**

Assess the viability of the grid

✦ Make exchanges with the EU possible

- *Promote basic regulations in SEMCs*

- *Analyze Art. 9 rule*

✦ Status of Transmission and cost of wheeling

✦ Technological developments

- *Laying cables in deep waters: > 2000m against 1650 m SAPEI*

Results by end 2013 - mid 2014



www.medgrid-psm.com

