



The Development of the Euro-Mediterranean Electricity market

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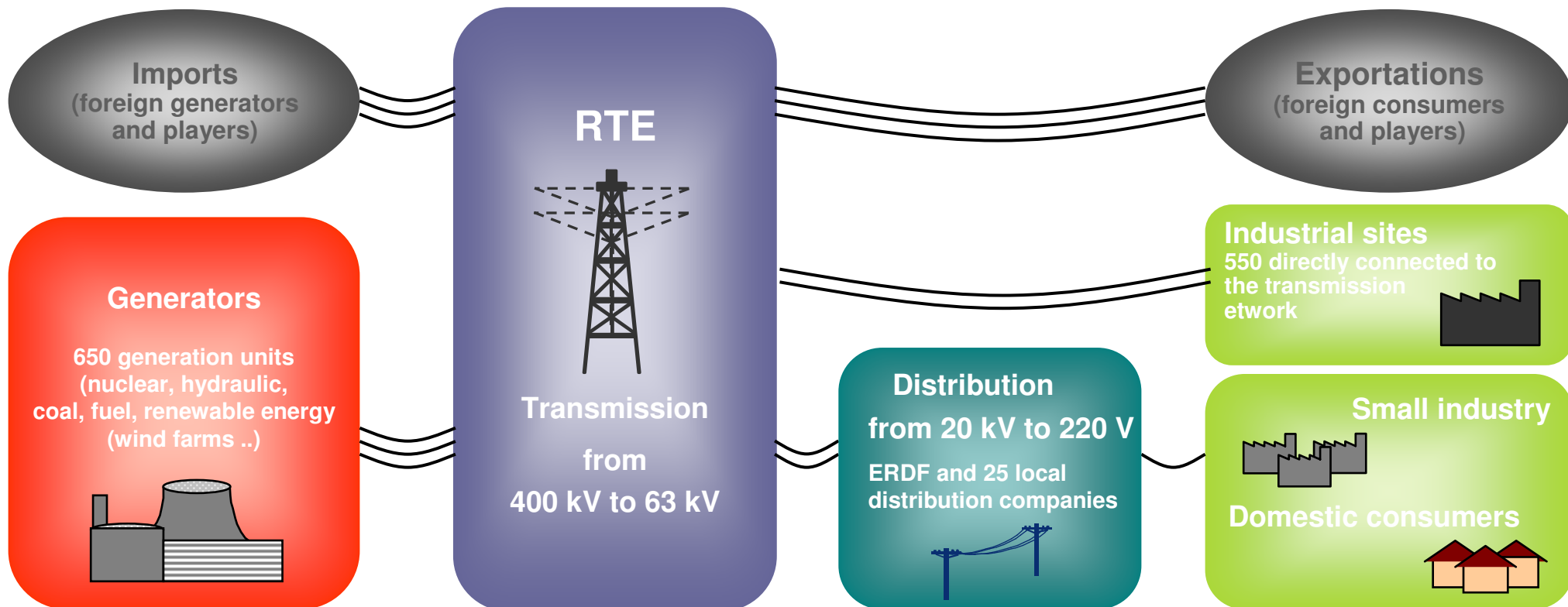
- 1. RTE (The French TSO) and ENTSO-E**
- 2. MEDRING**
- 3. RTE's contribution to the Euro-Mediterranean Electricity Market**

GLOBAL FORUM

Shaping the Future

THE DEREGULATED MARKET

2009



Competing electricity suppliers and consumers, free to choose their supplier



RTE's MISSIONS

- ✓ **Balancing electricity generation with consumption at all times**
- ✓ **Guaranteeing the secure operation of the power system (carrying electricity 24 hours a day, 7 days a week)**
- ✓ **Maintaining and developing the network to allow generators, distribution networks and consumers to be connected, as well as interconnection with neighbouring countries**
- ✓ **Guaranteeing non-discriminatory access to the transmission network, whilst ensuring that commercially sensitive information remains confidential**
- ✓ **Integrating transmission installations into the environment and ensuring the security of people and property**

... all at the most economical cost possible

EUROPEAN ELECTRICITY TODAY

27 interconnected countries (20 EU Member States)

- security of the power system
- economic optimisation
- security of supply

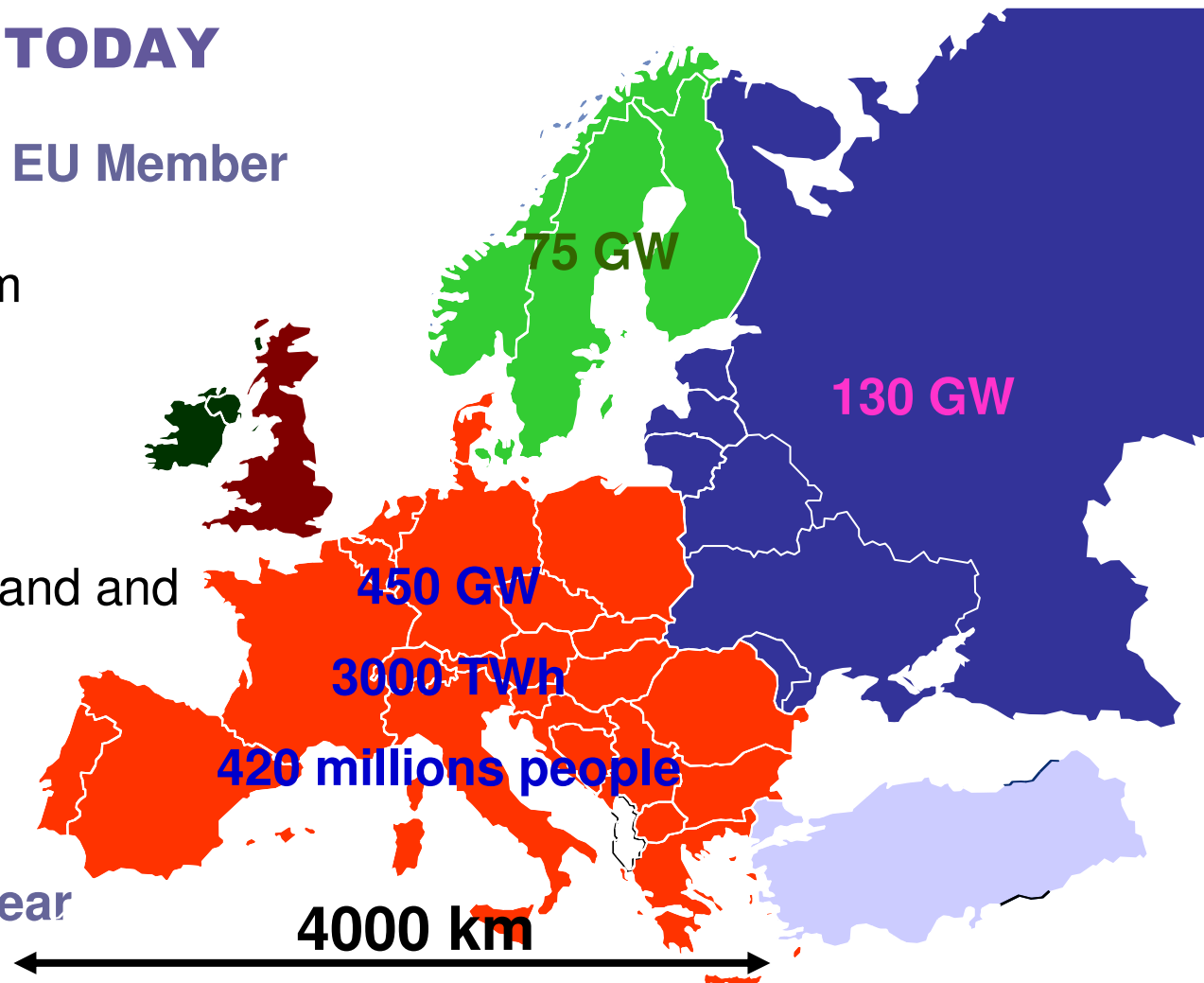
4 synchronous zones

Scandinavia, United Kingdom, Ireland and continental Europe

Installed capacity: > 650 GW

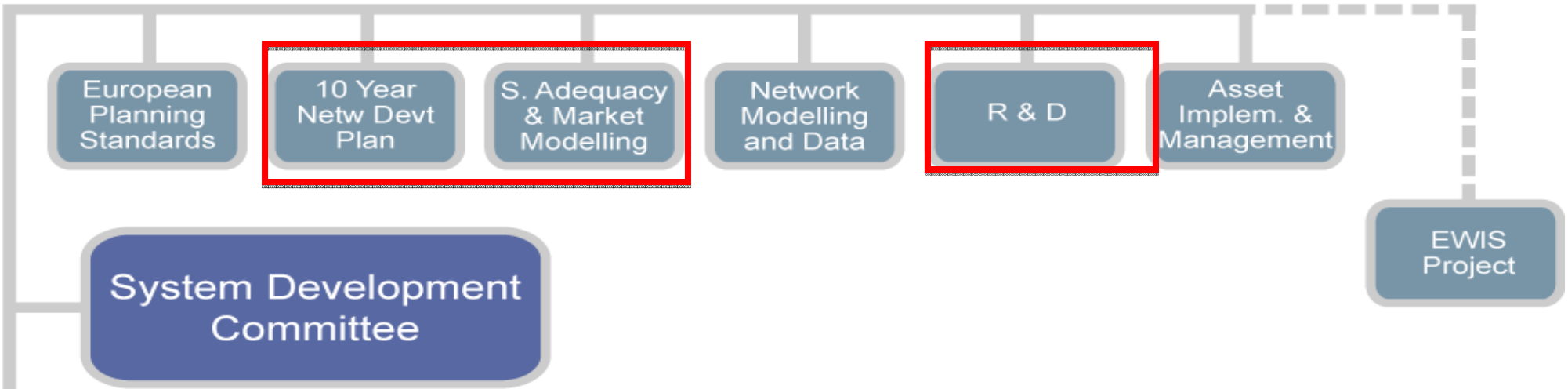
Consumption: 3,000 TWh/year

Physical exchanges: 300 TWh/year

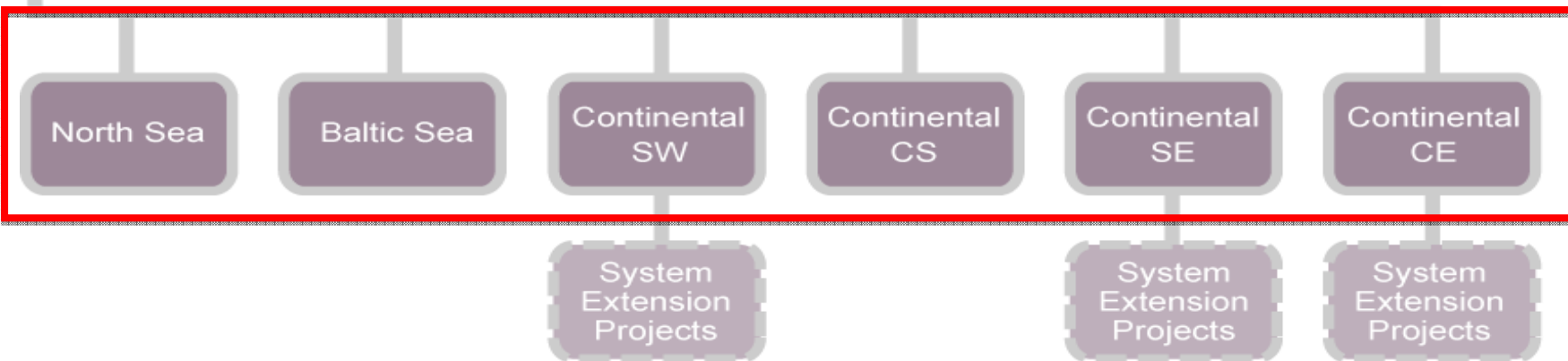


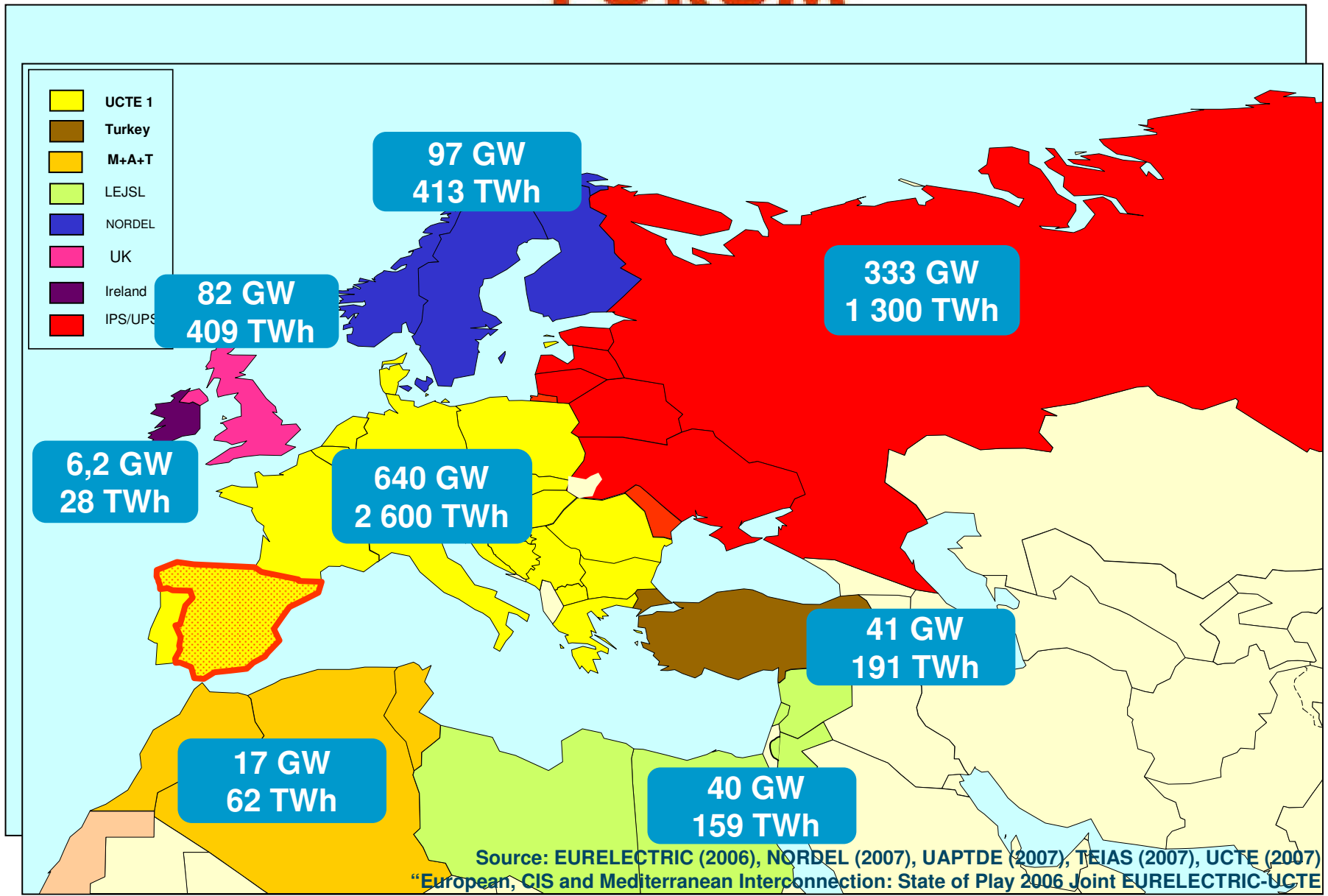
entsoe **Appropriate working structure**

Working Groups



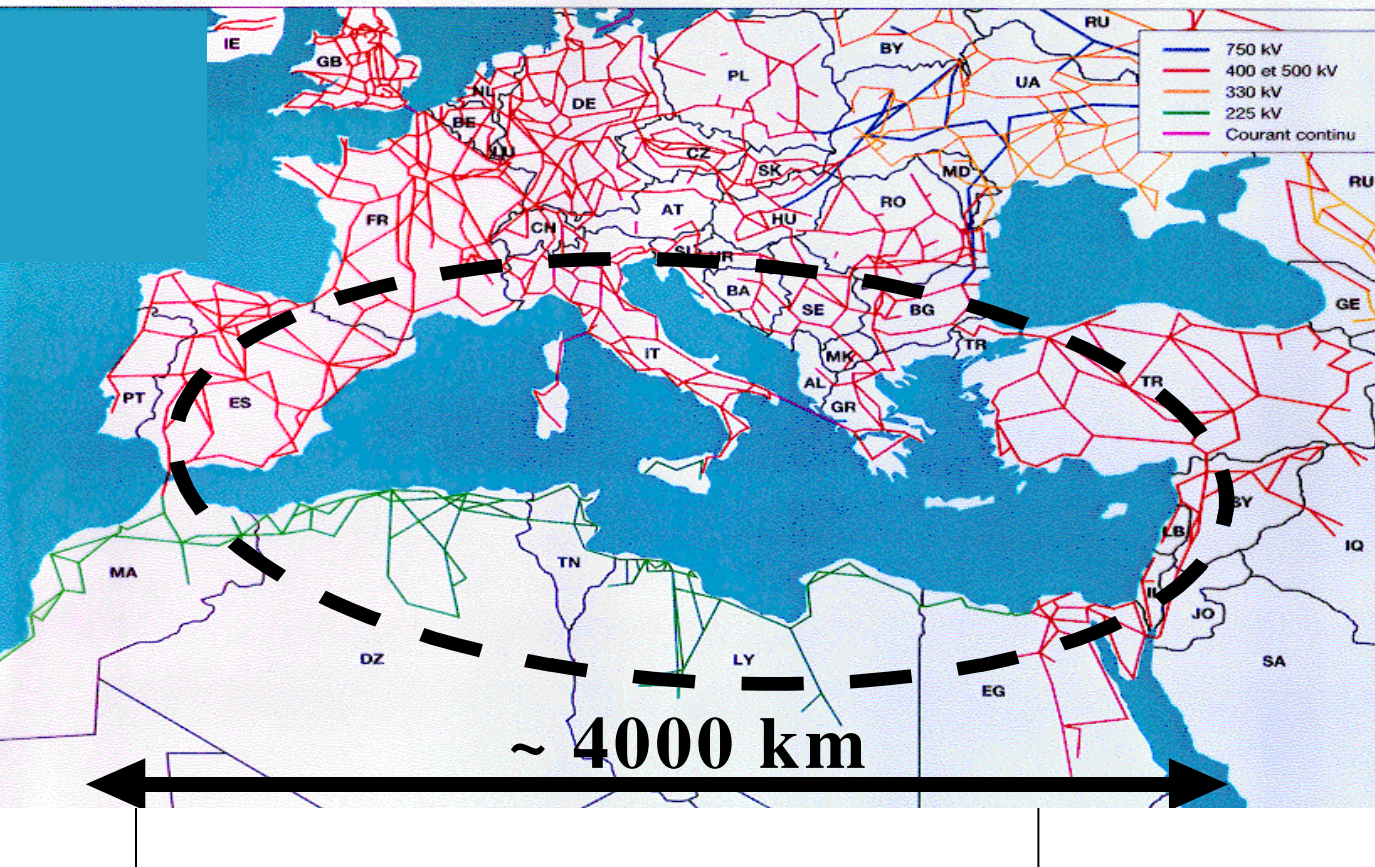
Regional Groups





Source: EURELECTRIC (2006), NORDEL (2007), UAPTDE (2007), TEIAS (2007), UCTE (2007)
 "European, CIS and Mediterranean Interconnection: State of Play 2006 Joint EURELECTRIC-UCTE"

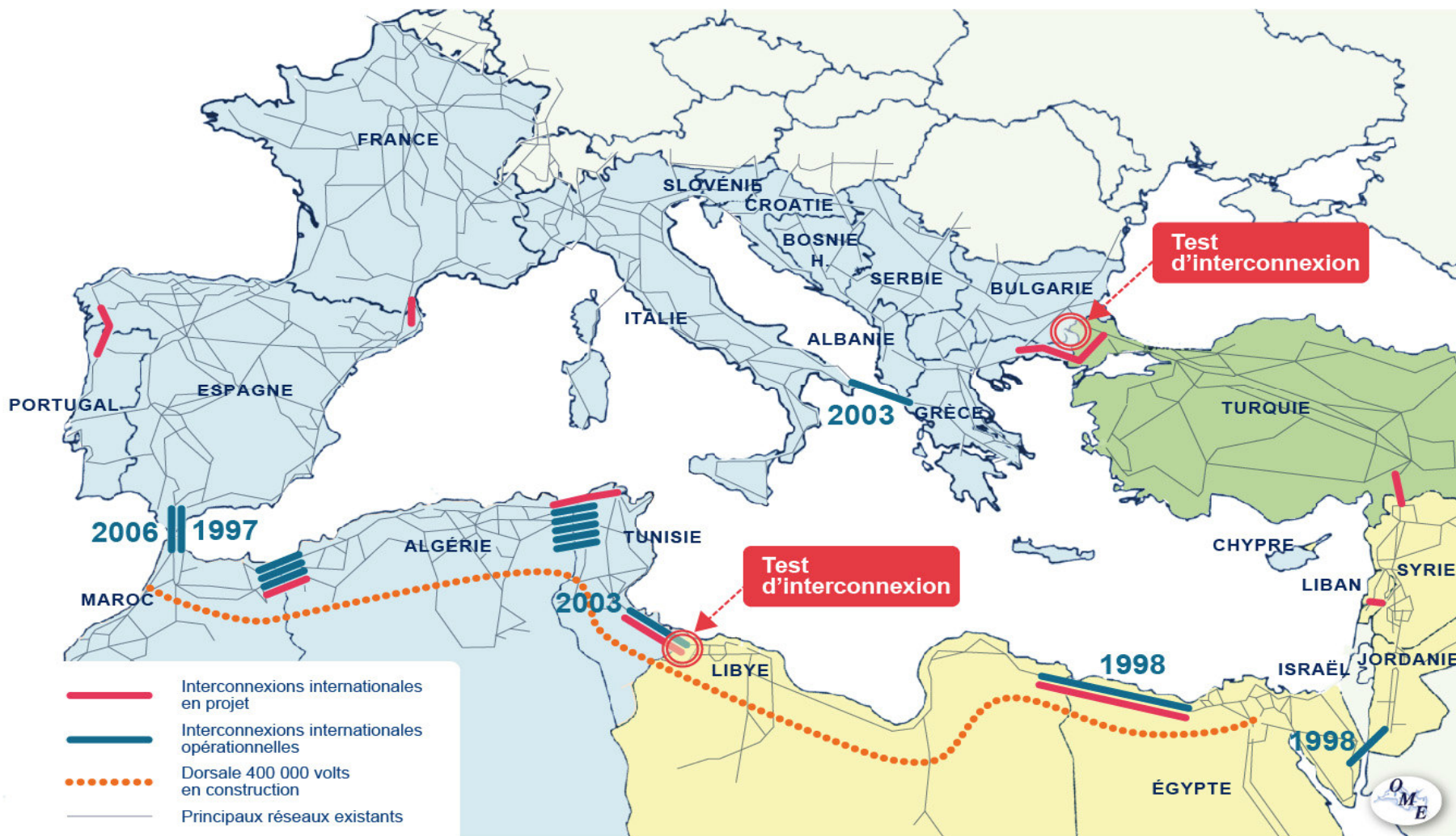
What does MEDRING mean?



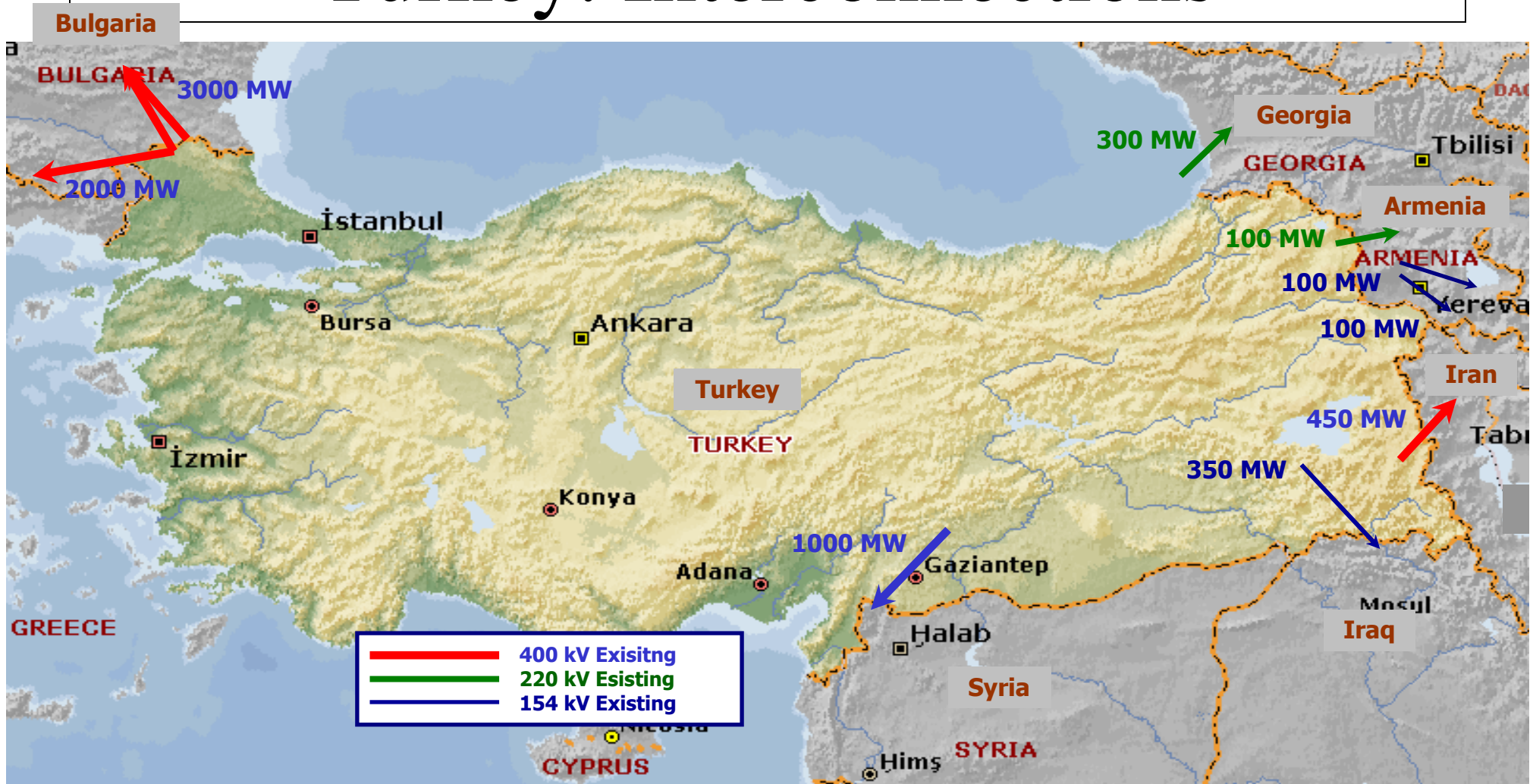
- the Mediterranean Electricity Ring is the sequence of the various national networks bordering the Mediterranean shore which are interconnected together. Then they form a kind of oval (about 4000 km long, 2000 km high) around the Mediterranean Sea

GLOBAL FORUM

LA BOUCLE ÉLECTRIQUE MÉDITERRANÉENNE



Turkey: Interconnections



Turkey interconnection

- RTE and TEIAS signed a 2 year-twinning contract as early as 2006 aimed at improving operation and maintenance of the Turkish transmission grid:
 - Allow to progress in terms of interconnection to the European Continental System
 - After a trial year in 2010, the final interconnection should be realized in 2011
- A cooperation agreement between RTE and TEIAS was just signed on 2nd October in Ankara regarding deregulation, system reliability and the quality of supply.



CONCLUSION

- ENTSO-E has put in place an organization to study the new interconnection challenges. The previous process has been a step by step integration by adoption of European standards
- ENTSO-E has to maintain the whole system at the same high level of reliability and stability:
 - The on-going MEDRING process is not yet finished
 - The sizes of the systems to be interconnected are completely different