

RED
ELÉCTRICA
DE ESPAÑA

European Grid Development and Future Challenges Spanish Perspective

September 2017



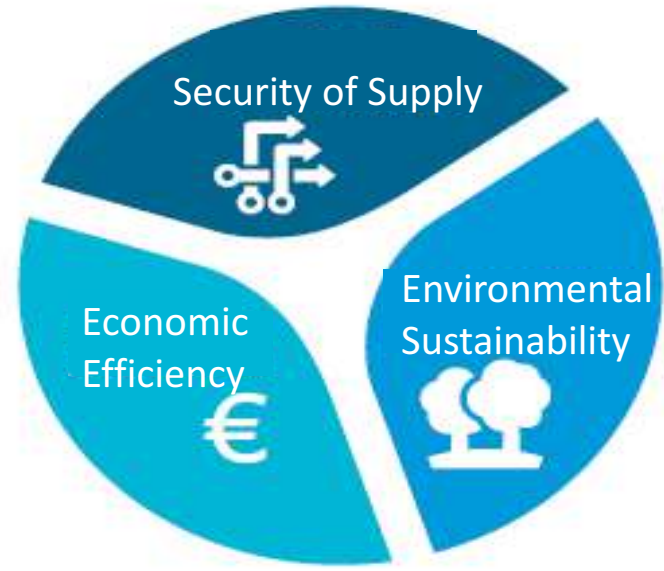
FUTURE CHALLENGES



THE CHALLENGE

of a Master Plan

Fulfill the objectives

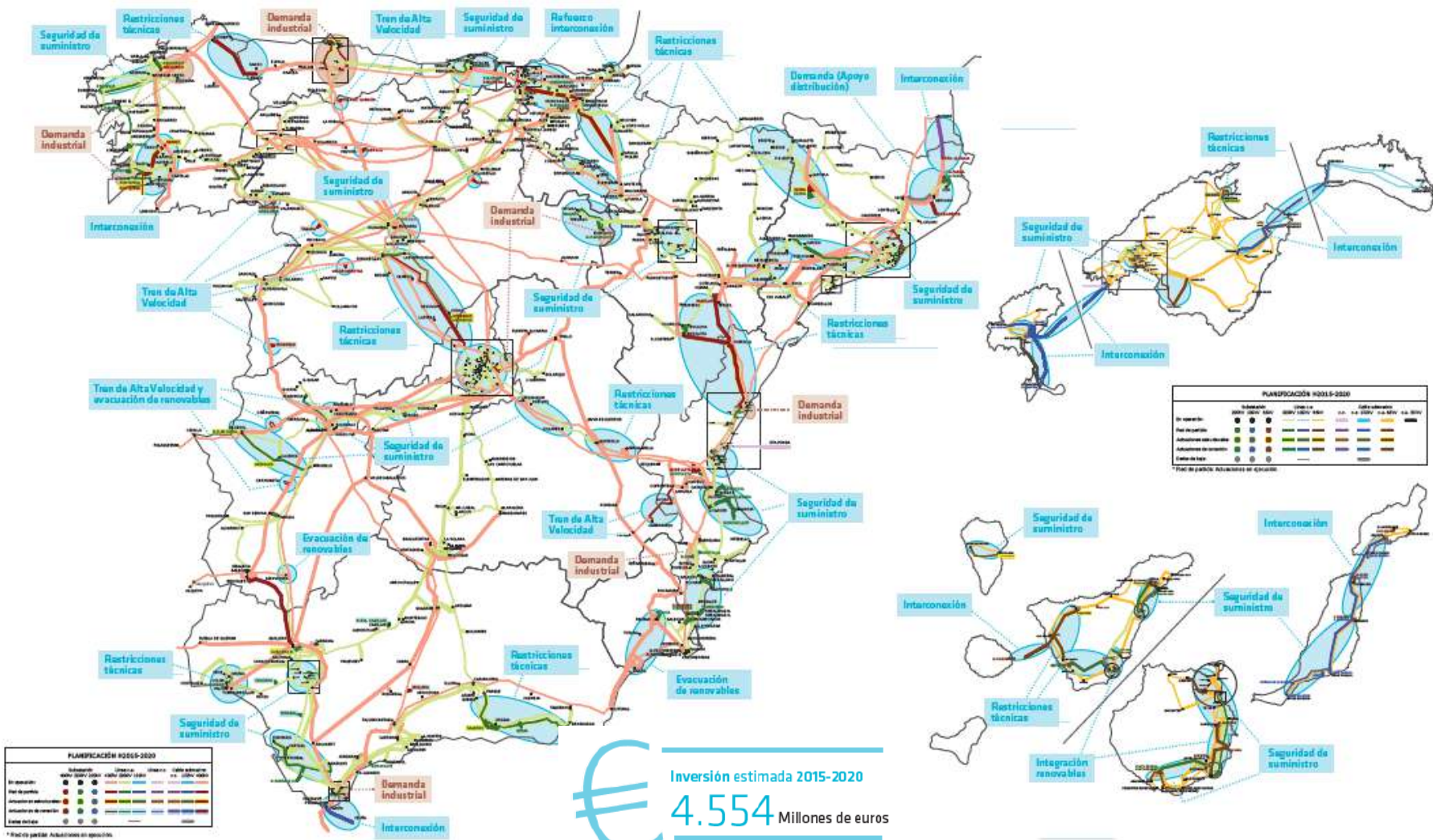


...with a unique grid for every possible future situation



Master Plan

The 2015-2020 Spanish National Development Plan



Inversión estimada 2015-2020
4.554 Millones de euros

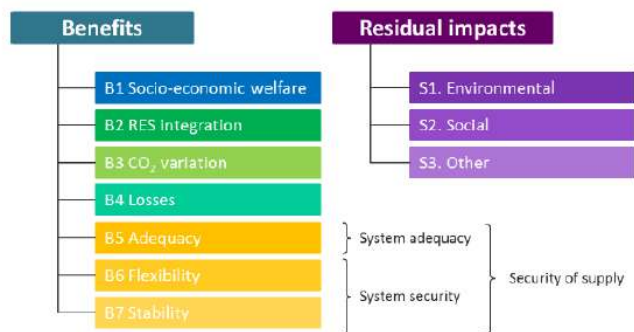


The Master Plan gives useful answers

Do we really need this Project ?



Is this Project the Best option?

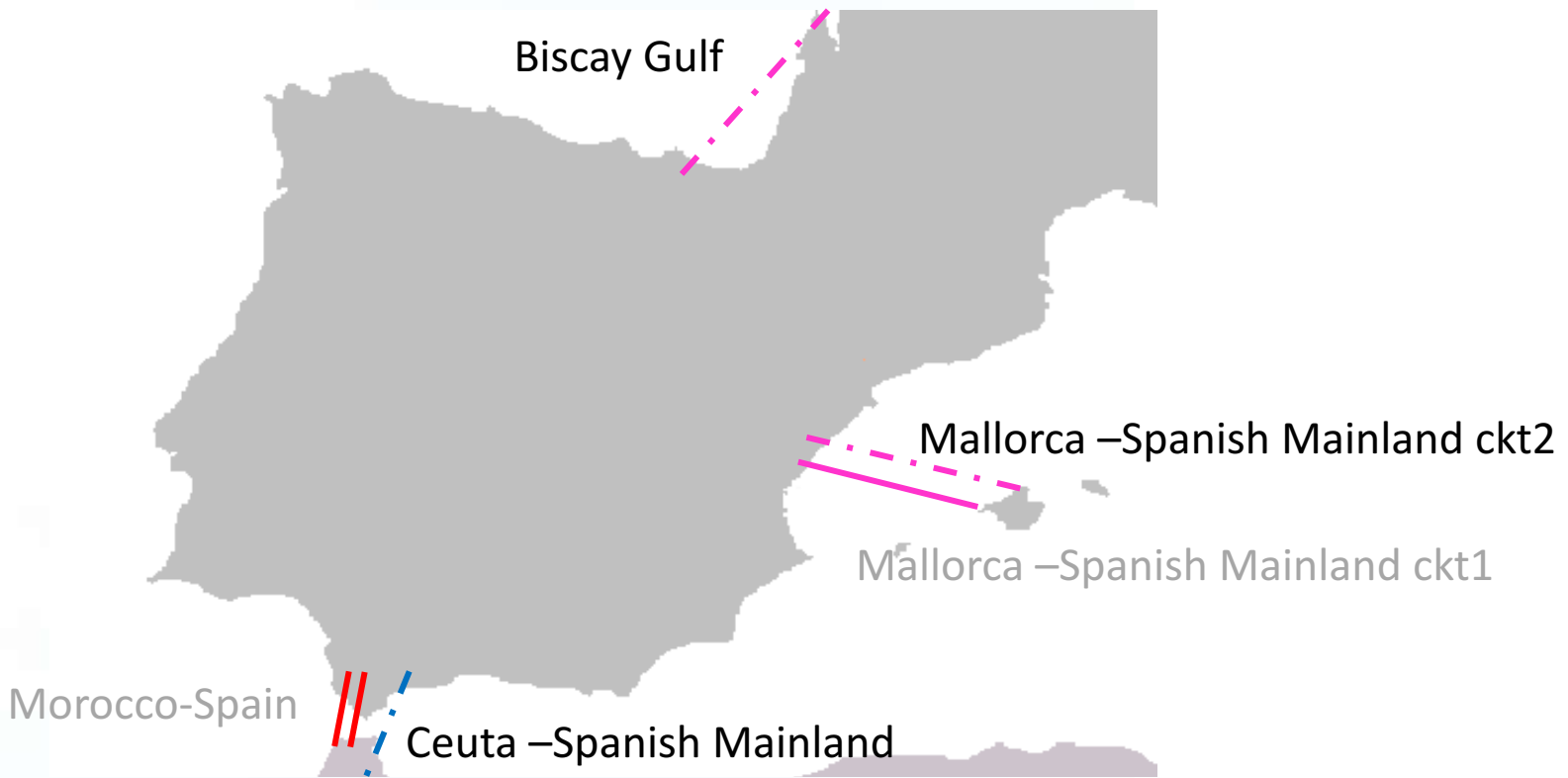


Strategic Environmental Assessment





SUBSEA PROJECTS IN THE SPANISH NATIONAL DEVELOPMENT PLAN



LEGEND

- HVDC in operation
- 400 kV in operation
- Future HVDC
- Future 132 kV



SUBSEA PROJECTS IN THE SPANISH ISLANDS IN THE SPANISH NATIONAL DEVELOPMENT PLAN

LEGEND

- HVDC in operation
- 132 kV in operation
- <132 kV in operation
- Future HVDC
- Future 132 kV
- future <132 kV





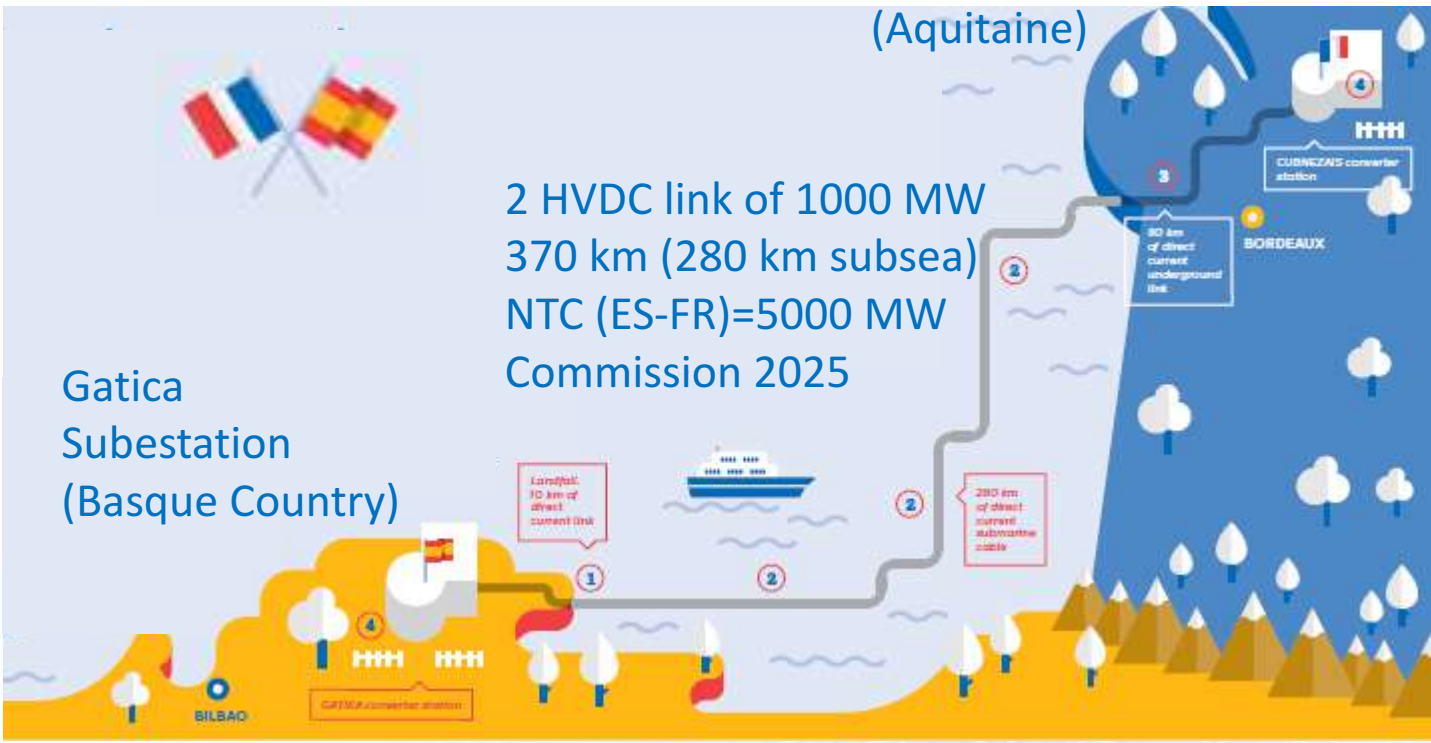
BISCAY GULF PROJECT Spain - France



Benefits



Cubnezais Substation (Aquitaine)





CONCLUSIONS

Fulfil political objectives and solve future needs will require new grid

For sure new projects will require a proper justification, positive CBAs and pass Strategic Environmental assessment

An increasing number of future projects will be submarine

Submarine projects bring to us technological and financial challenges

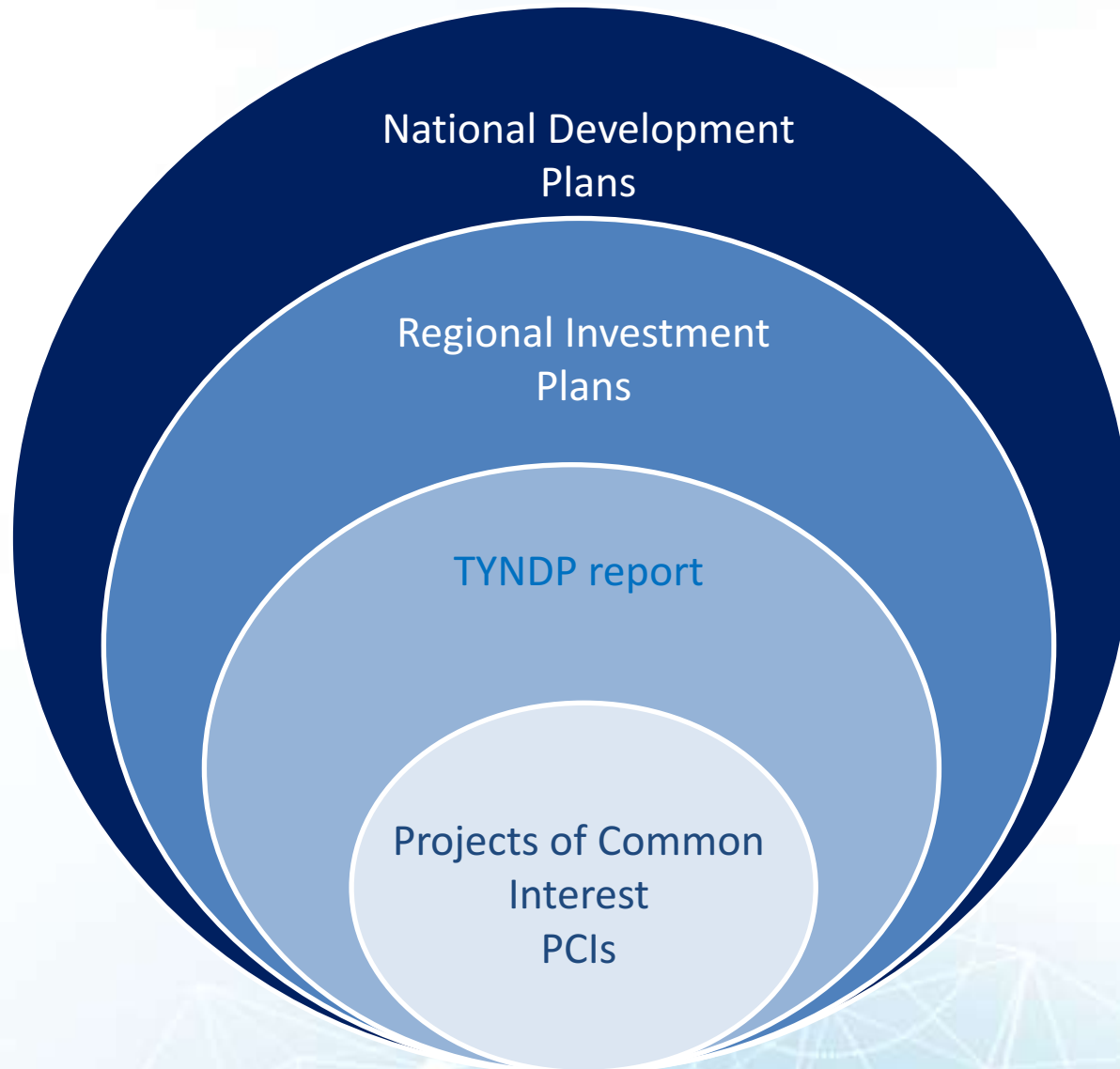
LET'S GO!

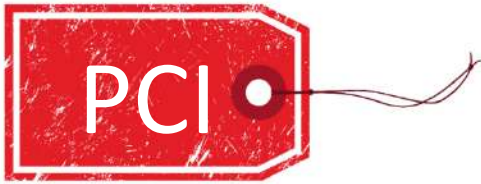
Lets go for a more sustainable world without forgetting about taking care of the environment

Thank
you

plabra@ree.es

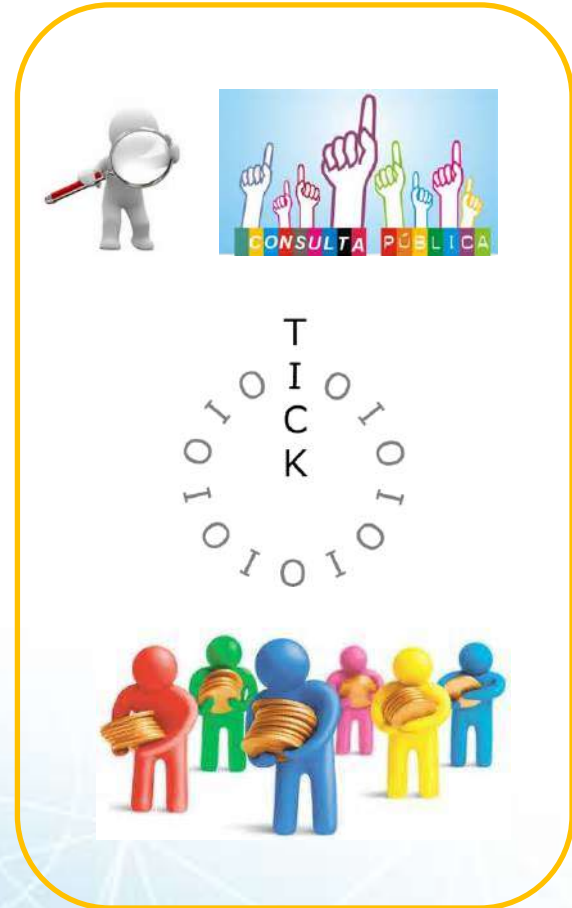
Additional Slides

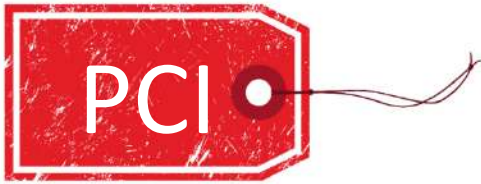




Projects of common interest

They contribute significantly to reach the energy and climatic european objectives (Reg 347/2013)





Projects of common interest

List 2015



http://ec.europa.eu/energy/infrastructure/transparency_platform/map-viewer/main.html

List 2017

