### Renewable hydrogen, a key vector for the decarbonisation and industrial competitiveness

Renewable hydrogen is a clean energy vector that can be applied in sectors with difficult decarbonisation solutions, such as intensive industry and heavy transport.

The European Commission has emphasized hydrogen as a key pillar in achieving the 2040 GHG reduction targets. The expansion of hydrogen in the EU will rely on the development of a large-scale infrastructure network, linking supply from producer countries to demand centres.

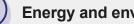
Collaboration between companies and institutions on projects such as H2med, supported by the development of essential national networks, will be key to achieve the European hydrogen targets while enhancing the security of supply and price competitiveness.

## Potential and benefits for Europe



#### Socio-economic

- Industrial development
- Innovational development
- Investment attraction
- Price competitiveness
- Market integration



- **Energy and environmental**
- Emissions reductions
- Air quality improvement
- Renewables promotion
- Contribution to national objectives



### **Social indicators**

- Just transition
- Employment
- Contribution to local economies
- Sustainable development goals



an example of European energy cooperation









# H2med

# an example of European energy cooperation



H2med is an essential element for the configuration of a hydrogen corridor from the Iberian Peninsula to North Western Europe, connecting supply from producer countries to demand centres.

Driven by the governments of Portugal, Spain, France and Germany, with the support of the European Commission, it is promoted by the TSOs of the countries: REN, Enagás, GRTgaz, Teréga and OGE.

On the 8<sup>th</sup> of April 2024, the project was included on the list of Projects of Common Interest (PCI).

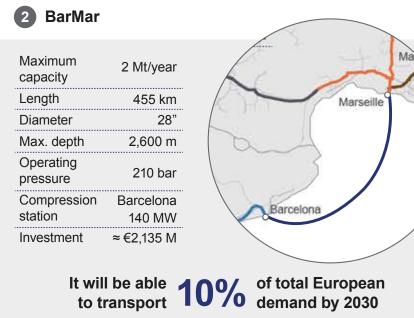
### The project

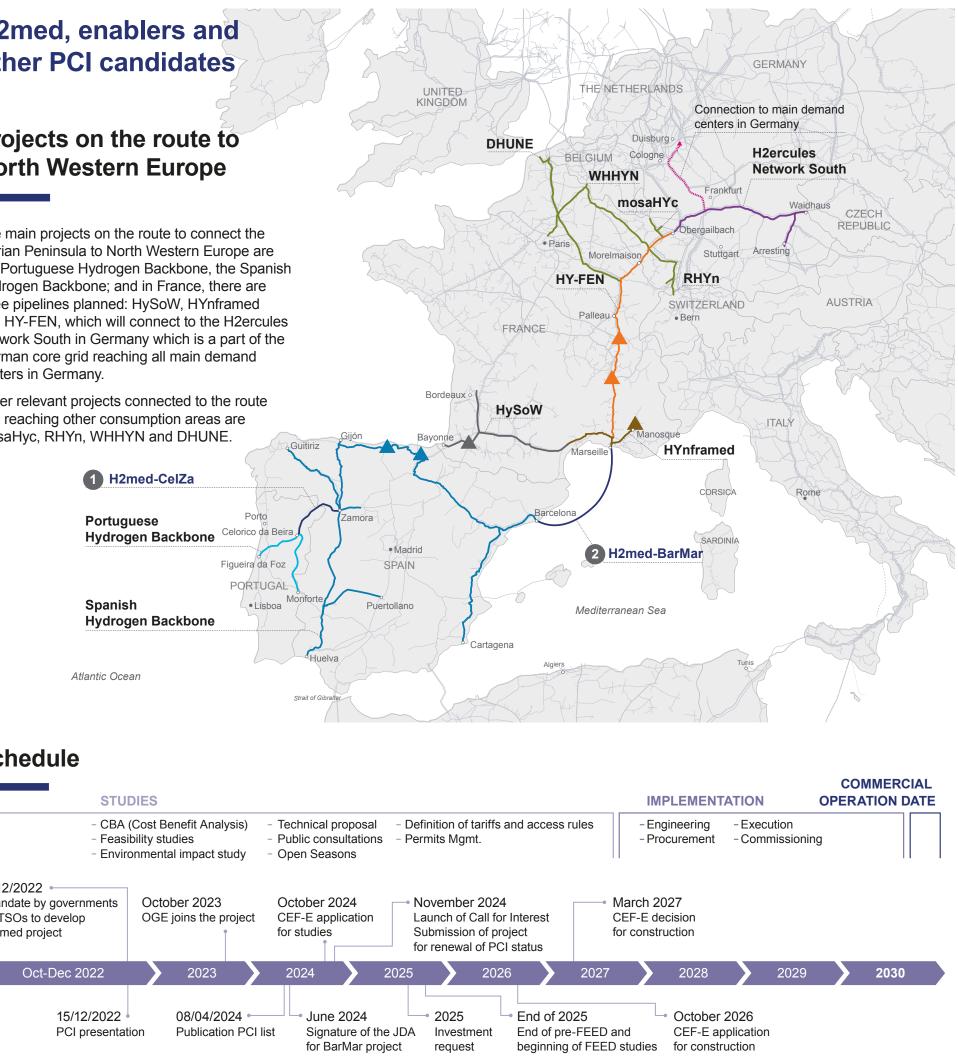
H2med is made up of two interconnections, CelZa between Portugal and Spain, and BarMar, an offshore pipeline between Spain and France. The joint investment of these two projects is estimated at €2.5 billion.



Alternative maritime route under consideration

CelZa Maximum 0.75 Mt/year capacity 248 km Diameter 28" 100 bar pressure Compressor Zamora 24.6 MW ≈€350 M Investment





### **Schedule**

