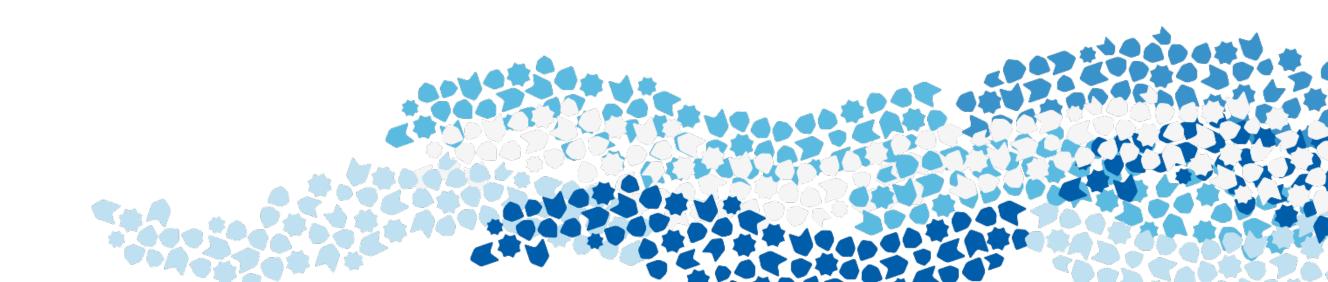




THE CRUCIAL ROLE OF A MEDITERRANEAN PARTNERSHIP – REACHING NET ZERO IN THE MEDITERRANEAN WITH CO2 CAPTURE AND STORAGE

COP27 SHARM EL SHEIKH (EGYPT)





Advancing CO₂ research and demonstration: PilotSTRATEGY project

Paula Canteli, CO₂GeoNet (IGME-CSIC)





PilotSTRATEGY project (2021-2026)



- Funded by EC R&I H2020
- To support development of carbon capture and storage (CCS) in Southern and Eastern Europe by detailed study of 3 CO2 geological storage pilot sites in selected areas of interest.
- Pre-investment proposal for the 3
 pilots in France, Portugal and Spain,
 and development concept proposal
 for Poland and Greece regions.
- Deep saline aquifers: large capacity for storing CO₂.



programme under grant agreement no 101022664.

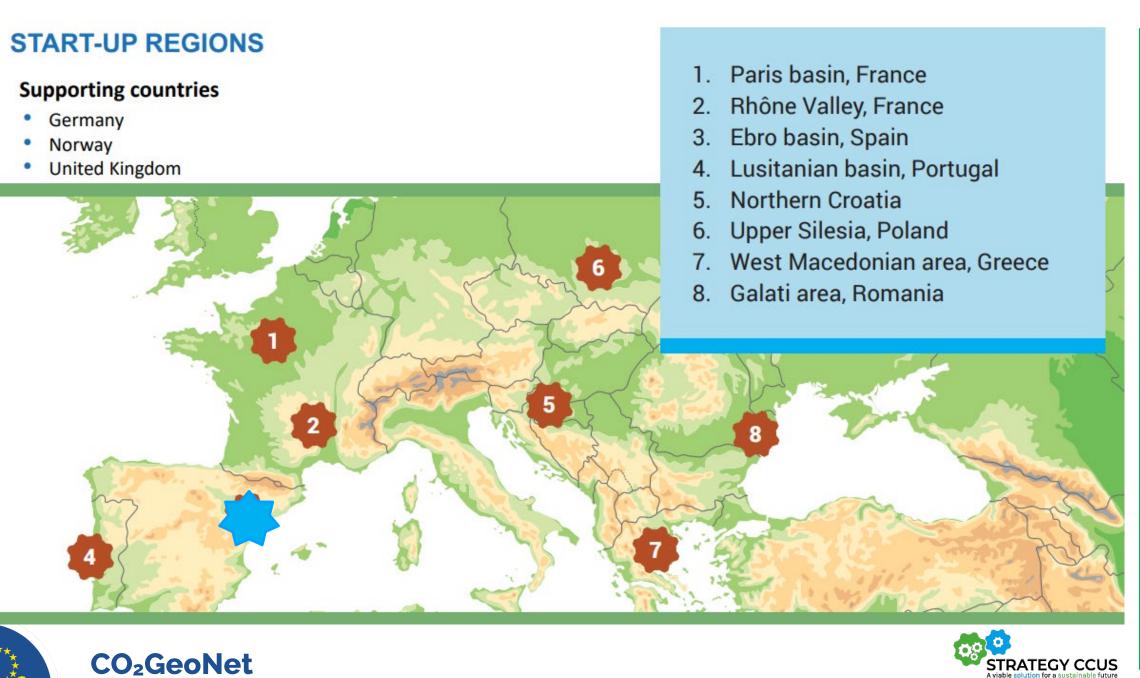


From REGIONAL to PILOT evaluation

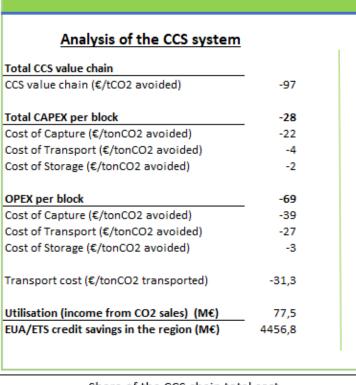


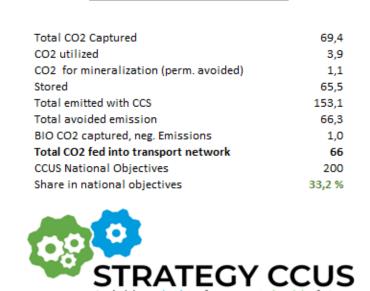
Strategy CCUS (2019-2022)

- ➤ Elaborate **REGIONAL** business case (2021-2050) for potential implementation of carbon capture, utilisation and storage (CCUS) in 8 regions of Southern and Eastern Europe and:
 - Regional techno-economic evaluation of the CCS
 - Identify and evaluate transnational corridors.

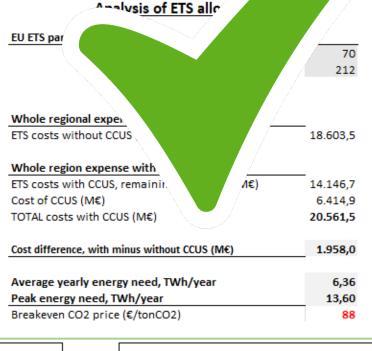


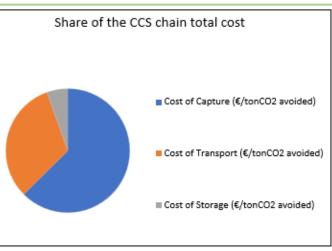




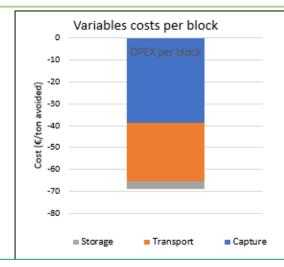


Analysis of CO2 volumes (Mt)













The European network of excellence on the Geological Storage of CO₂





















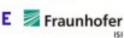




















Pilot detailed studies for pre-investment proposal:

- More than a technical project
- Research & industry collaboration
- Multicriteria approach



Paris Basin (FR) Lusitania Basin (PT) Ebro Basin (ES) Silesia (PL) Macedonia (GR)









































Multicriteria approach

- Technical evaluation
- Environmental risks
- Social acceptance and stakeholder participation
- Techno-economic evaluation
- Socio-economic evaluation
- Legal frame and incentives
- Project objectives



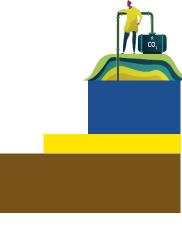












PilotSTRATEGY

Ebro basin: site selection

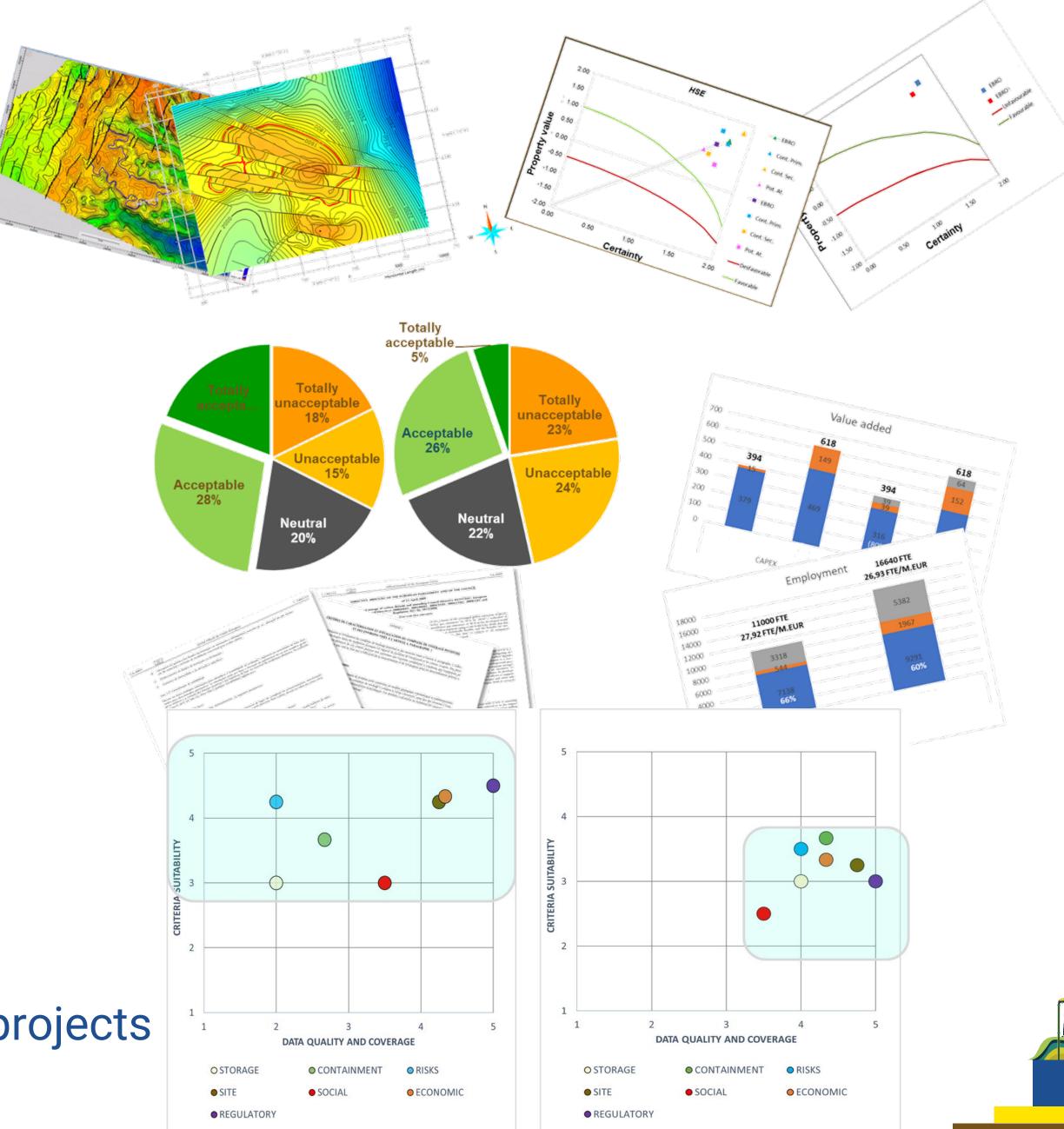


Milestone: M18 site selection (Nov 2022)
Multicriteria evaluation (for decision taken)
Ebro Basin Onshore/offshore: two independent projects



CO₂GeoNet

The European network of excellence on the Geological Storage of CO₂



Conclusion

- CCUS development in the South Europe/Mediterranean area is needed, possible and viable.
- Regional approach to identify promising regions and understanding potential (including social and permits) and needs. Consider transnational possibilities!
- Multicriteria approach is mandatory: bring onboard key stakeholders.
- Pilot scale requires research & industrial collaboration, social implication, and support from government & administration.



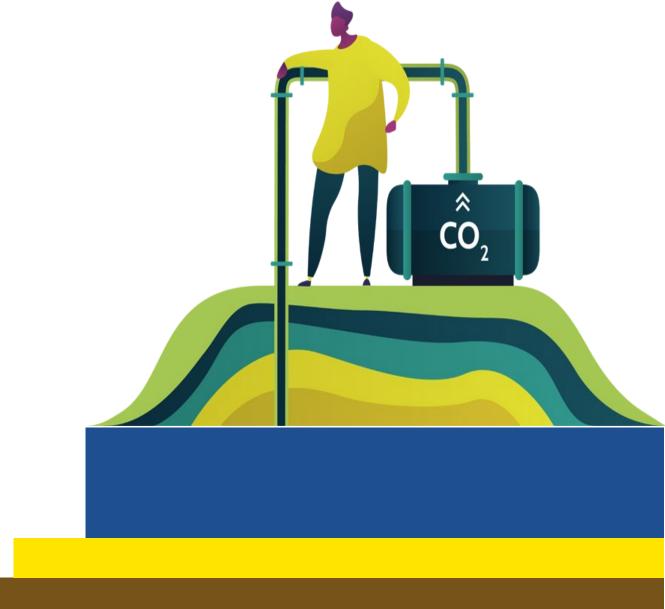




Thank you!

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