

CO₂GeoNet update

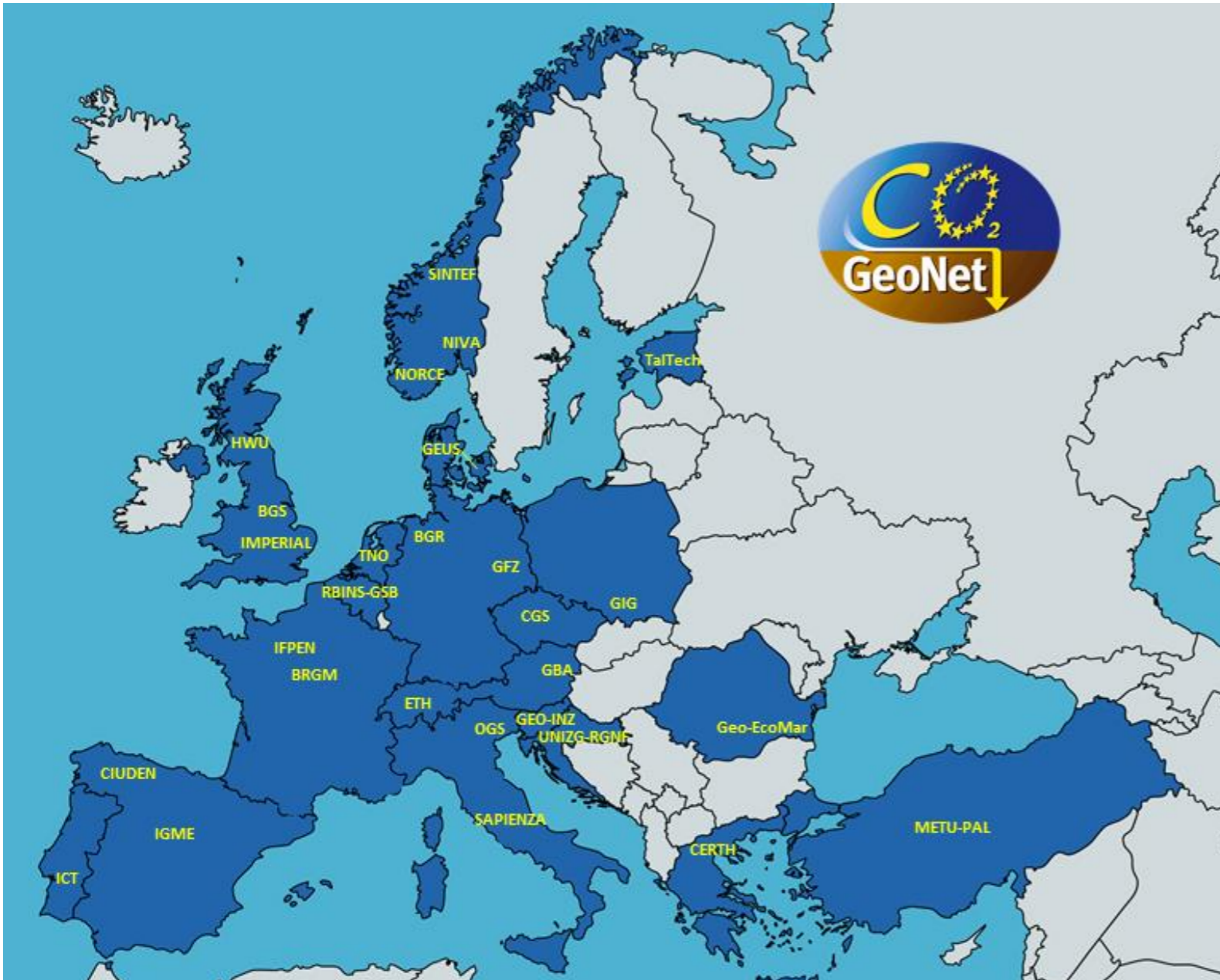
CSLF Technical Group, September 2020

Ceri Vincent, CO₂GeoNet-BGS



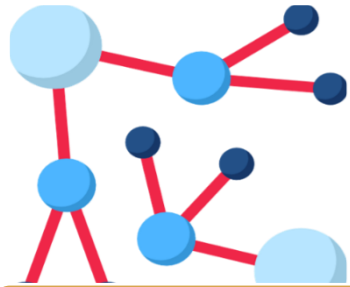
THE EUROPEAN NETWORK OF EXCELLENCE ON THE GEOLOGICAL STORAGE OF CO₂

CO₂GeoNet: a growing European Network of Excellence on CO₂ geological storage



- ✓ Created as a EU **FP6 Network of Excellence** 2004-2009 became an **Association** under French law in 2008
- ✓ The Association continues to grow and now comprises **28 research institutes** from **20 countries**

Unites over **300** researchers with the multidisciplinary expertise needed to address all aspects of CO₂ storage



Research & networking



Scientific Advice & International Collaboration



Training & Capacity Building



Information & Communication



COP25

- Booth in negotiation zone: **We need CO₂ capture and storage (CCS) to meet the Paris Agreement targets**
- Side event in Green Zone: **Quarries and mines for Climate**



ZERO EMISSIONS TARGET

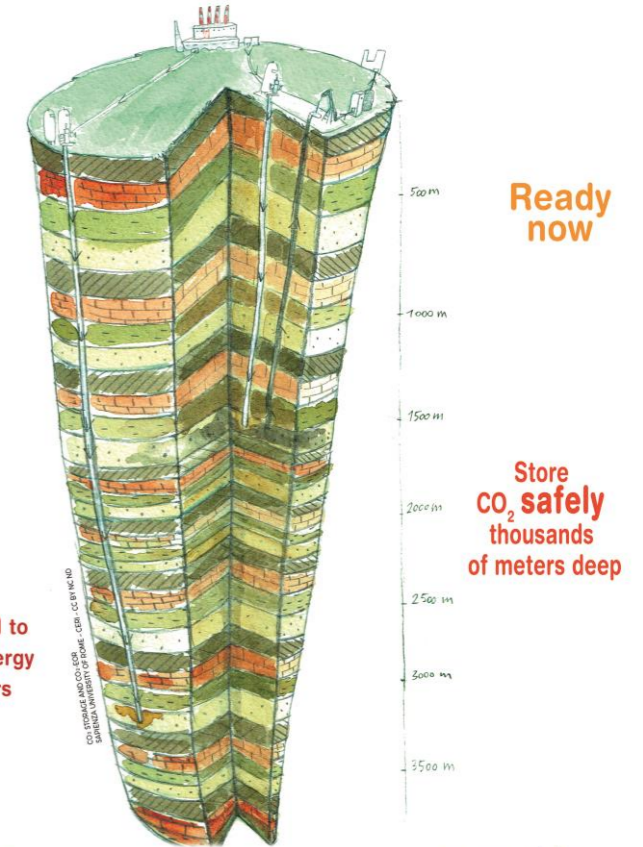
CCUS *against* climate change

CO₂ capture, transport, utilization and storage

Necessary to achieve the 1.5 °C target (IPCC, 2018)

Release or store? it's our choice!

A **just transition** to zero emissions for the energy and industrial sectors



www.co2geonet.com



www.enos-project.eu



ENOS
Enabling Onshore CO₂ Storage



The project has received funding from European Union's Horizon 2020 research and innovation programme under Grant Agreement No 652976

<http://www.cop25.co2geonet.com/>

COP25: Side event in EU Pavilion



- Organised by CO₂GeoNet, Carnegie Climate Governance Initiative and ImplementaSur



<http://www.cop25.co2geonet.com/>

COP25: Side event in EU Pavilion: Pathways to a sustainable future; governance of CO₂ removal & mitigation strategies for industry



Key messages:

- Limiting average global temperature rise to 1.5°C is possible, but the longer we wait the more expensive & challenging
- We need both emission reduction/zero CO₂ emissions and CO₂ removal targets
- A range of measures are available for carbon dioxide and emission reduction
- Effective governance (regulatory and financial frameworks) is critical
- We need to ensure that we pick the right solutions that are effective in the local and global context
- There is something for everyone to do!
- The main challenges to achieving climate targets tend to be cultural and political, not technological
- Industry needs policy predictability in order to make investment decisions

<http://www.cop25.co2geonet.com/>

Joint research – H2020 ENOS project has supported CO₂ field lab progress over the last few years



UK GeoEnergy Test Bed

Final stages of site commissioning underway



Italian Sotacarbo Fault Lab

CO₂ will be injected near a fault – ENOS has informed site design and installed monitoring tools.



Focus: ENOS project supporting SotaCarbo Fault Lab (SFL) development



Sotacarbo Fault Lab

- Groundwater monitoring probes installed
- Drilling of vertical monitoring well – ENOS geophysical testing informed design
- Drilling of vertical injection well imminent (funded though National funding)



Multipla sensor being installed (temp, CO2, pH, conductivity)



Vertical seismic profile survey for site storage model

GasPro soil gas monitoring probes ready for deployment



Training – ENOS project

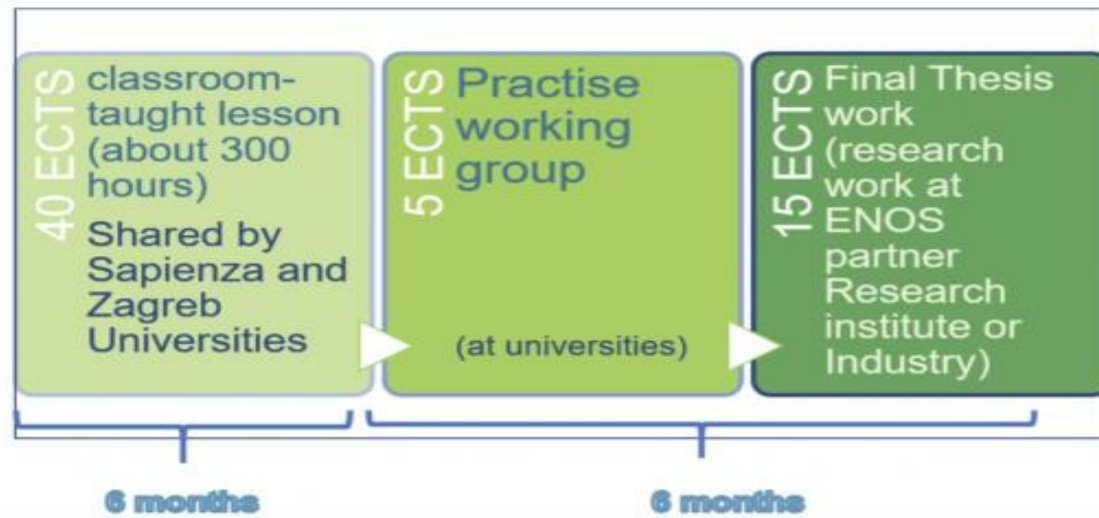


SAPIENZA
UNIVERSITÀ DI ROMA

International Master
CO₂ Geological Storage

HOME PROGRAM NEWS

Home / Notizie / News for students



- MSc in CO₂ storage
- Course started Feb 2020, due to finish Nov 2020



CO₂GeoNet Winter Lectures (Open Forum 2020 postponed)



Overarching theme: CCS is essential, not an option

- National strategies toward CCUS
- CCUS Success stories from around the world
- Emerging CCUS technologies/added value through utilisation



Thank you for your time



The European Network of
Excellence on the Geological
Storage of CO₂
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