



CO₂GeoNet

The European network of excellence
on the Geological Storage of CO₂

CO₂GeoNet update

Ceri Vincent, CO₂GeoNet-BGS

CSLF Technical Group, April 2021



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 **27** research institutes from **21** countries



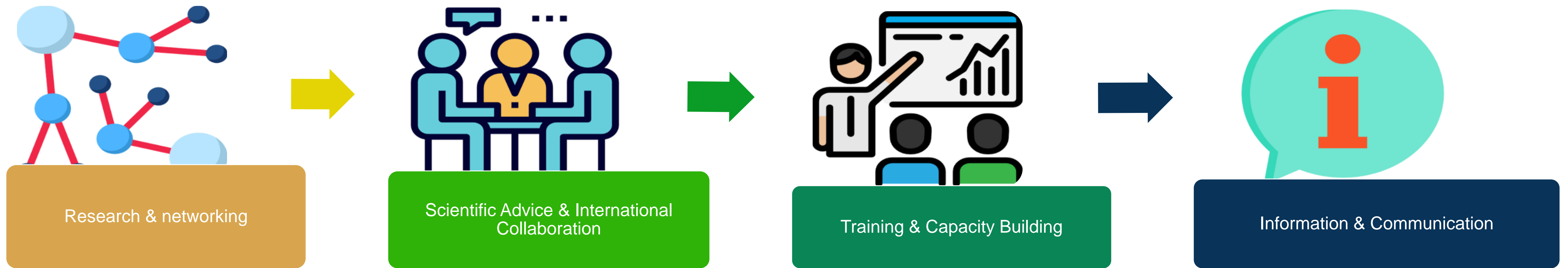
www.co2geonet.com



CO₂GeoNet

The European network of excellence
on the Geological Storage of CO₂

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



State-of-play on CO₂ geological storage in 32 European countries – an update |



ENOS
Enabling Onshore CO₂ Storage



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CO2GeoNet Winter Webinar (1)

- Session 1: Status of European forerunner projects
- Session 2: Emerging CCUS technologies
- Session 3: Enabling onshore CO2 storage in Europe (ENOS project)
- Online Q&A in each session



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CO2GeoNet Winter Webinar (2)

Maria Velkova DG CLIMA

[European Green Deal & CCS strategy in Europe](#)

Per Sandberg, Equinor

[Building the CO2 storage business - Northern Lights perspective](#)

Peter Arends, PORTHOS

[CO2 reduction through storage beneath the North Sea](#)

Anna Korolko, Equinor

[Scaling up hydrogen and CCS for clean energy - Zero carbon Humber perspective](#)

Fulvio Canonico, Buzzi Unicem

[The cement sector and the Cleanker Project](#)

Marie Gastine, BRGM

[Accelerating onshore storage in Europe – highlights from the ENOS project](#)



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<http://www.co2geonet.com/news-and-events/news/winter-webinar/>

CO2GeoNet Winter Webinar- key messages

- CCS is essential to meeting climate targets!
- Climate change is a huge threat, we need to continue to fight it
- Increased ambition (2030) and long-term perspective (2050): zero or very low carbon technologies and business concepts need to be developed and tested at scale in this decade
- CCS projects are moving towards commercial operating model with companies wanting to offer low carbon services; Northern Lights, Net Zero Teeside, Zero Carbon Humber, PORTHOS...
- Innovations in CCS continue to make the process more efficient (CLEANKER, ENOS....)



State of play on CCS - coming soon

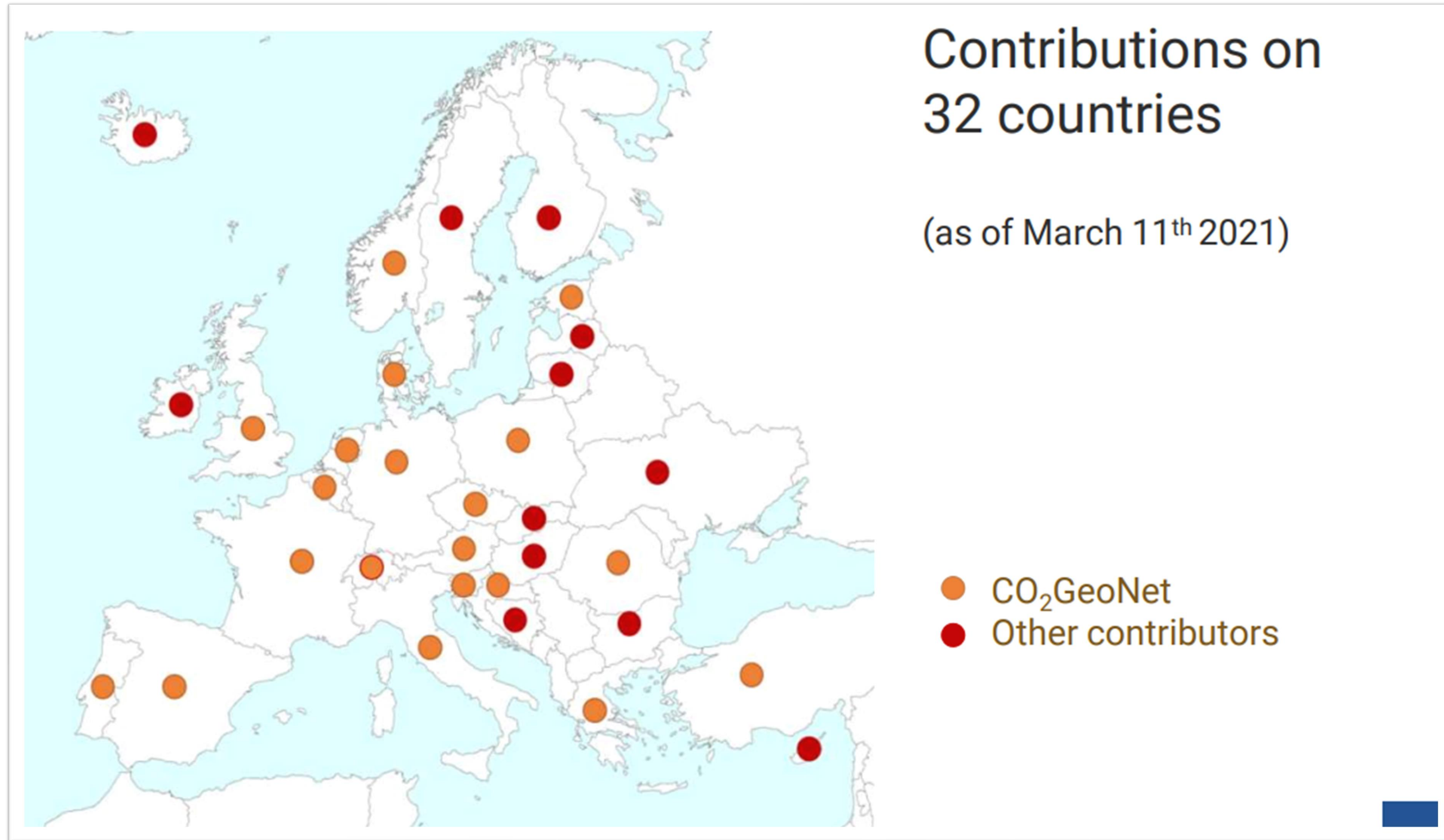
- Questionnaire sent to all CO₂GeoNet Members plus other contacts
- 32 countries covered in new update
- Chapters:
 - National policies and climate strategies
 - National legislation and regulations with respect to CO₂ geological storage
 - Large-scale, demonstration, pilot and test sites in Europe, cluster initiatives, projects of common interest
 - Research activities with respect to CCS
 - National actors driving CCS forward and public engagement
 - Summary and conclusions



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State of play on CCS - country coverage



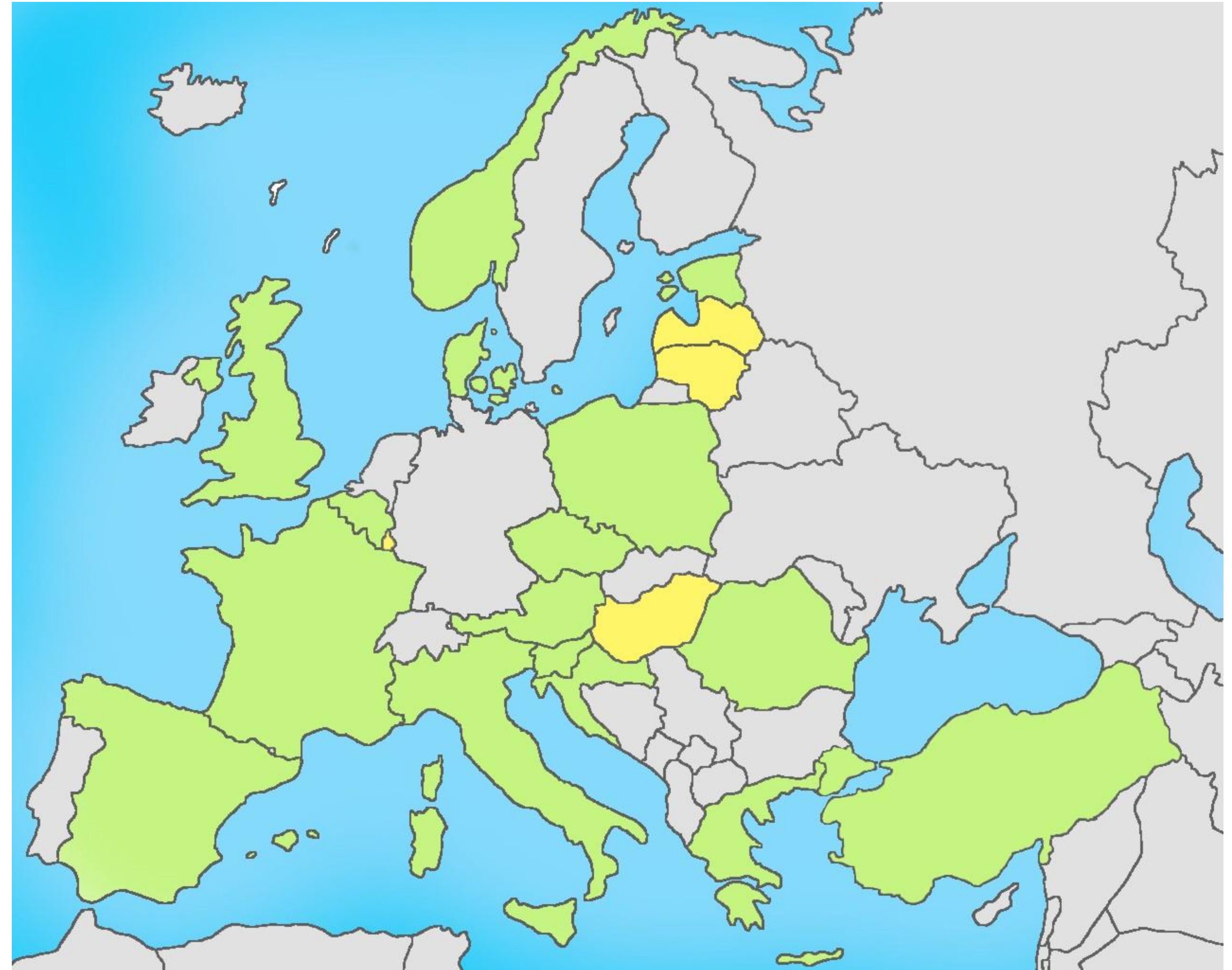
Hystories project (1)

- H2020 FCH-02-5-2020: Underground storage of renewable hydrogen in depleted gas fields and other geological stores.
- The **Hydrogen Storage in European Subsurface (HyStorIES)** project is coordinated by GeoStock and 17 CO₂GeoNet Members are involved as Third Parties
- CO₂GeoNet will collate geological data to improve existing database and contribute to modelling and knowledge sharing activities



Hystories project (2)

- CO₂GeoNet leading WP1 which will generate database populated with geological data to enable HyStorIES project to assess opportunities for H₂ storage in Europe



Training – Professional Master in CO₂ Geological Storage



- Funded through ENOS project (ENOS was a CO₂GeoNet initiative)
- All students from the first course have successfully defended their theses and received Final Diploma Awards of **Professional Master in CO₂ Geological Storage**.
- The next run of the Master Course is planned to start in **January 2022** and will be announced in August 2021



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CO₂ storage Masters - theses topics

Dr. Pegah Soleimani Dinani

- [Simulation of fluid flow in a fault and nearby aquifer on the base of the Sotacarbo Fault Lab data](#)

Dr. Martina Mariani

- [North Italian CCS scenario for the cement industry](#)

Dr. Michele Conte

- [Fluid flow simulation in the Cornelia reservoir, Adriatic Sea](#)

Dr. Gabriela Garcia:

- [Determination of Cost-Effectiveness of CO₂-EOR and CO₂ Utilization Factor as Feasibility Indicators for Permanent CO₂ Storage,](#)



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Thank you for your time



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