

The European CCUS Research Infrastructure



An ECCSEL ERIC project

3<sup>rd</sup> webinar on CCUS

# Characterisation of a CO<sub>2</sub> geological storage site



# SOME RECOMMENDATIONS

ALL PARTICIPANTS MUST SWITCH OFF THEIR MICROPHONE  
AND CAMERA DURING THE WEBINAR



QUESTIONS ARE WELCOME AT THE END OF PRESENTATIONS SESSION

PLEASE TYPE THEM IN THE QUESTIONS PANEL  
AND THE SPEAKERS WILL ANSWER YOU

**European Research Infrastructure Consortium:**

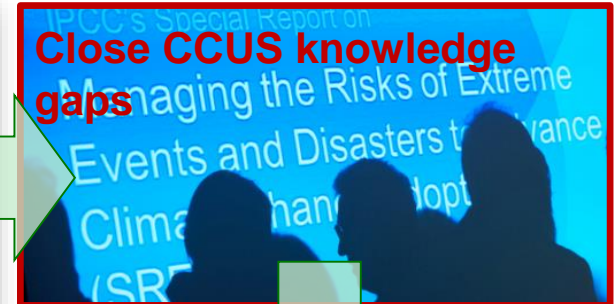
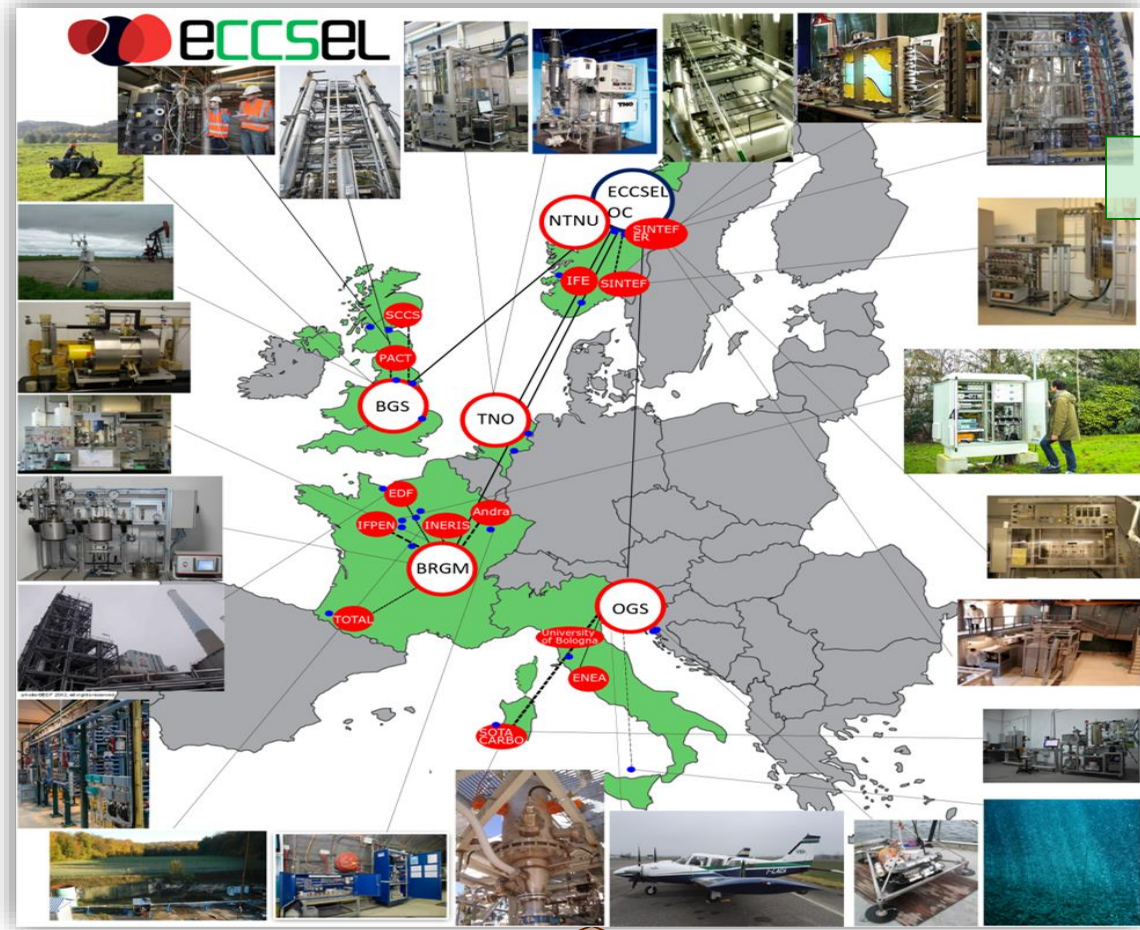
*Norway (Operations Centre), France, Italy, United Kingdom and Netherlands*

**21 research facility owners**

*providing open access to*

**79 world class research facilities**

*(Continuously expanding with new members/partners and facilities)*



Contribute to reduction of CO<sub>2</sub> emissions in accordance with the Paris agreement 1,5 – 2 degree target



Upgrades and new builds in the range of 200 Million Euro from 2015 until 2030

# The ECCSELERATE project

3-year project managed by ECCSEL ERIC (01/2020 – 12/2022)

Budget: 3.5 M€

The project ECCSELERATE focuses on:

- Increasing **use** and **long-term sustainable operation** of the ECCSEL ERIC RI
- Developing **marketing, access and services** models for **industry** and SME
- Increasing **international collaborations**
- Extending ECCSEL ERIC activities towards utilisation of CO<sub>2</sub> (**from CCS to CCUS**)
- Developing **national nodes** and expanding ECCSEL ERIC **membership**
- Increase the involvement of ECCSEL ERIC with **ongoing industrial CCS projects**



# The ECCSELERATE capacity building programme

ECCSEL has developed a new capacity building programme to implement access services to its facilities and, more generally, to further attract the industrial and research community of users gravitating towards CCUS.

The capacity building programme will consist of three main core activities:

- a **webinar series**, dedicated to highlight some key topics of capture, transport, utilization and storage, and to present ECCSEL solutions to support these topics (starting at the end of 2020)
- **specific workshops** held in conjunction with popular **Summer Schools** (Panarea and Sulcis – starting from 2021)
- **tailored training courses** addressed to attract industry, researchers and new user groups to ECCSEL ERIC (from 2021)

# The webinar series – preliminary programme

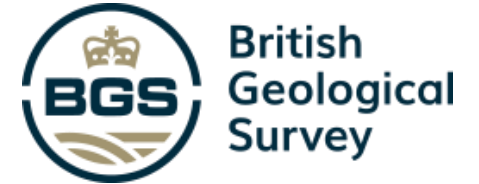


| Year | CO <sub>2</sub> capture  | CO <sub>2</sub> transport  | CO <sub>2</sub> utilization  | CO <sub>2</sub> storage   |
|------|--|--|--|---|
| 2020 | 13 <sup>th</sup> October (14.00 -15.00 CET)                            | 16 <sup>th</sup> December (14.00 – 15.00 CET)  |  |   |
|      | CO <sub>2</sub> capture technologies: Fit to purpose (SINTEF Industry) | Research for safe and efficient CO <sub>2</sub> transport (SINTEF Energy)            |  |   |
| 2021 |  |  |  | February 25 <sup>th</sup> (14.00-15.00 CET)<br>Characterization of a CO <sub>2</sub> geological storage site<br>BGS , IFE |
|      | February   | March  | April  | June  |
|      | Chemical looping and gas switching combustion                          | Gas specifications (impurities, oxygen, sulphur, etc.) for CO <sub>2</sub> transport | CO <sub>2</sub> conversion into “e-fuels”: concepts and applications | Injection and storage of CO <sub>2</sub>  |
|      | September  | November   |  |   |
|      | Advanced membranes for pre-combustion capture                          | Safety of CO <sub>2</sub> transport  |  |   |
| 2022 |  |  | February   | March   |
|      |  |  | Hydrogenation processes  | Monitoring  |
|      | April  | June   | September  | October   |
|      | CO <sub>2</sub> capture from industrial plants                         | Interfaces: Capture/Transport, Transport/Transport, Transport/Injection              | Potocatalytical and photoelectrochemical processes                   | Mechanical impact of CCS on reservoirs  |

# Today's agenda

Keynote speakers:

- **Karen Kirk**, BSc, Geologist, BGS – Decarbonisation and Resource Management
- **Stéphane Polteau**, PhD, Research Scientist, IFE – Reservoir Technology



Chaired by:

- **Valentina Volpi**- Researcher, Geophysics department  
OGS – ECCSEL ERIC
- **Federica Donda**- Researcher, Geophysics department  
OGS – ECCSEL ERIC

