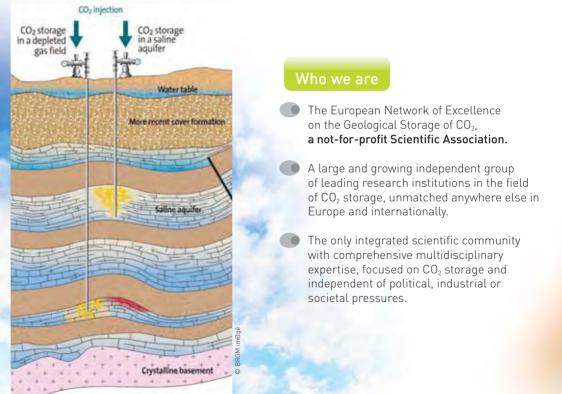# CO$_2$GeoNet

The European Network of Excellence
on the Geological Storage of CO$_2$

Strategy and Values

Why CO$_2$ geological storage research is important

In order to limit global warming and avoid the most dangerous consequences of climate change, the emissions of greenhouse gases must be reduced drastically. Capturing and storing in the deep underground the CO$_2$ produced by industrial sources can contribute up to 20% of this reduction, preventing CO$_2$ release into the atmosphere.

The full-scale deployment of CO$_2$ Capture and Storage (CCS) requires investment decisions that cannot be taken without first having confidence in the storage sites, in terms of location, geology, capacity, efficiency and safety.
Research is key to achieving these objectives.
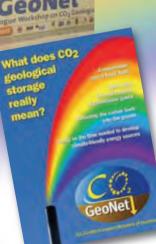

The principles of CO$_2$ geological storage:

CO$_2$ is injected into deep geological layers of porous and permeable rocks (e.g. sandstone), overlain by impermeable rocks (e.g. claystone) that prevent the CO$_2$ from escaping to the surface.

Who we are

- The European Network of Excellence on the Geological Storage of CO$_2$, **a not-for-profit Scientific Association.**

- A large and growing independent group of leading research institutions in the field of CO$_2$ storage, unmatched anywhere else in Europe and internationally.

- The only integrated scientific community with comprehensive multidisciplinary expertise, focused on CO$_2$ storage and independent of political, industrial or societal pressures.

Our Values

- Scientific honesty and quality, collegiality, openness and respect of the diversity of stakeholders' opinions.

- Independency, integrity, objectivity and impartiality, through internal review and self-regulation of ethical issues within the Association.

- We welcome collaboration with, and funding from public or private organizations that respect these values.

The CO_2GeoNet brochure "What does CO_2 geological storage really mean?" is now available in 25 languages

What we offer

- An **expert perspective** on CO_2 geological storage.

- An **open forum** for exchange and discussion with all interested parties.

- **Access to knowledge and expertise** extending across all relevant disciplines and geographically wide-ranging, larger than that achievable by any one single organization.

- Definition and promotion of **best practices**.

- **Inputs to policy and regulation** at national and international levels.

- **Engagement and building trust** with the general public by providing independent information.

- **Support to the capacity building** required for the full-scale deployment of CO_2 geological storage.

As an Association gathering principal research organizations that have been studying the geological storage of CO_2 since the 1990s, CO_2GeoNet aims to:

- **Provide and disseminate integrated scientific research results** and synthesized knowledge to contribute to the improvement of technical, economic, regulatory aspects and public awareness of CO_2 storage.

- **Be the preferred source of impartial scientific and technical information** and advice for the European Union, industry, regulators, the general public and other CCS stakeholders.

- **Contribute to the identification of knowledge gaps** and the formulation of new research targets.

- **Foster interaction and exchange** of information and views between CO_2 storage researchers and CCS stakeholders.
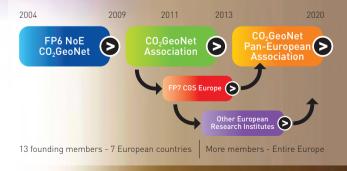
- **Foster the training of upcoming generations of scientists** that will be needed for a widespread deployment of the technology, by being a source of unbiased information, excellent tutors and training programmes in the science of CO_2 storage.

- **Expand our membership** in order to provide an excellent, robust, multidisciplinary and pan-European knowledge/skills base for the implementation of the geological storage of CO_2.

CO_2GeoNet organizes each year an Open Forum on San Servolo island, Venice, which attracts some 100 participants from Europe and beyond. It is a unique opportunity for stakeholders and major players in the CCS arena (policymakers, public authorities, industrialists, regulatory bodies, NGOs, EC representatives, etc.) to meet and interact directly with Europe's largest group of researchers on CO_2 geological storage and catch up on the latest results.

CO_2GeoNet Network of Excellence: from a European project to a pan-European Association on the geological storage of CO_2

2004 — FP6 NoE CO_2GeoNet
2009 — CO_2GeoNet Association
2011 — FP7 CGS Europe
2013 — CO_2GeoNet Pan-European Association
2020 — Other European Research Institutes

13 founding members - 7 European countries │ More members - Entire Europe

Founding Members

GEUS (Denmark)

BRGM (France)

IFPEN (France)

BGR (Germany)

OGS (Italy)

URS (Italy)

TNO (Netherlands)

IRIS (Norway)

NIVA (Norway)

SPR SINTEF (Norway)

BGS (UK)

HWU (UK)

IMPERIAL (UK)

Cooperations with

EC
European Commission

EERA
European Energy
Research Alliance - CCS
programme

ENeRG
European Network for
Research in Geo-energy

ZEP
European Technology
Platform for Zero
Emission Fossil Fuel
Power Plants

CSLF
Carbon Sequestration
Leadership Forum

GCCSI
Global Carbon Capture
and Storage Institute

IEAGHG
International Energy
Agency Greenhouse Gas
R&D Programme

CO₂GeoNet
3, avenue Claude Guillemin
B.P. 36009
45060 Orléans Cedex 2 - France

Secretariat
Borgo Grotta Gigante,
42/C, 34016 Sgonico (TS) - Italy
info@co2geonet.com

www.co2geonet.eu