



Overview of CO₂GeoNet activities for the past and the coming year

Samuela Vercelli

University of Rome "La Sapienza" – C.E.R.I.

Building a European network

- Our **activities** are oriented to consolidate and develop a **scientific community** able to answer to the requests of knowledge on CO₂ storage coming from all sectors of our society
- **Joining through joint research**: providing an articulated body of knowledge on CO₂ storage through multidisciplinary integration
- **New challenges** coming up: defining the role of the Network in the new demo phase, answering to new advice, training and communication requests



A new phase, new horizons: **CGS Europe**

- Many new partners in our scientific adventure:
- 2010 the launch of the FP7 project:

“**CGS Europe**”: an action started by the Network aimed at expanding transnational cooperation and networking
- Not just continuation but creating a paneuropean network



Management of the Network

President **Nick Riley**, BGS

Secretary General **Sergio Persoglia**, OGS

Executive Committee:

July 2009 – June 2010

July 2010 – June 2011

Chair **Rob Arts**, TNO

Samuela Vercelli, URS

1st Vice–Chair **Samuela Vercelli**, URS

Dominique Durand, NIVA

2nd Vice–Chair **Isabelle Czernichowski**, BRGM **Rob Arts**, TNO

Member **Dominique Durand**, NIVA

Isabelle Czernichowski, BRGM

Member **Anna Korre**, Imperial

Anna Korre, Imperial



CO₂GeoNet activity areas

- joint research
- scientific advice
- training and capacity building
- information & communication



New scenarios for joint research

→ Research alignment among the partners and coordination with EERA – European Energy Research Alliance, CO2GeoNet partners' contribution to the launch of the EERA CCS Joint Programme



→ FP7 projects: focus on real test cases rather than basic research



Research alignment

Areas of development:

- Benthic chamber
- Safety and risk
- Intelligent injection strategies (2nd generation)
- Low cost seismic alert system
- Deep microbial system impact
- Impurities and rock-fluid interaction
- Natural laboratories & sensing
- Hydrate containment and storage
- Inventory of CO₂ emission baselines



Joint research within FP7 projects

- CO2GeoNet direct involvement:
- **RISCS** – “Research into Impacts and Safety in CO2 Storage”

- CO2 GeoNet partners’ involvement:
- **SiteChar** – “Characterisation of European CO2 Storage”
- **CO2CARE** - “CO2 Site Closure Assessment Research”
- **ECO2** - “Sub-seabed CO2 Storage: Impact on Marine Ecosystems”



Research workshops

- **Co-organisation of the 1st IEAGHG Workshop on Natural Releases of CO₂: Building Knowledge for CO₂ Storage Environmental Impact Assessments, Maria-Laach, Germany, 2-4 November 2010**
- This research workshop was organised by IEAGHG, BGR and CO₂GeoNet. It attracted about 100 scientists.



IEA GHG studies

- Quantification techniques for CO₂ leakage (coordinator: CO₂GeoNet-Imperial)
- Potential impacts on groundwater resources of CO₂ storage (coordinator: CO₂GeoNet-BRGM)



Scientific advice

- Creation of an organized system for providing advice to external stakeholders:
- **scientific input** in relation to the design and implementation of CO₂ storage projects and regulatory frameworks
- **expert analysis** on scientific controversies concerning CO₂ geological storage



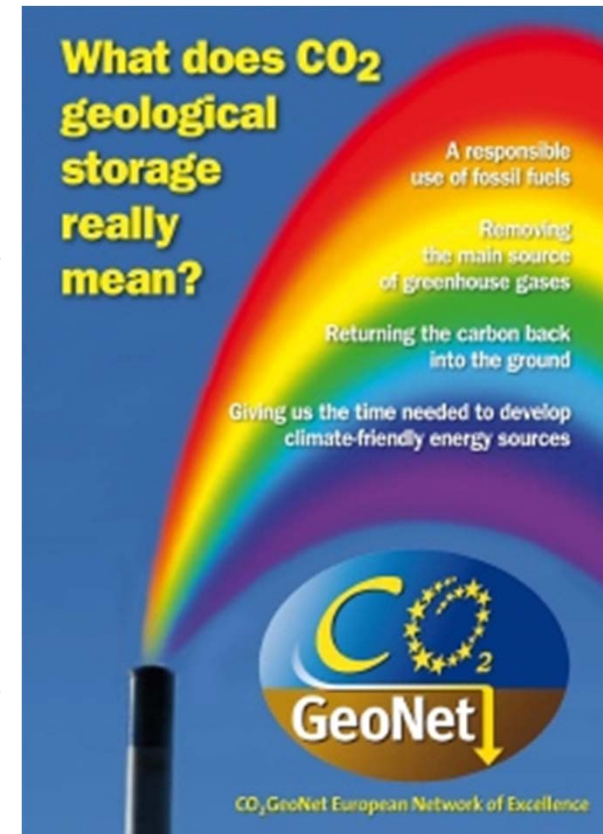
Training and capacity building

- **EAGE Student Lecture Tour 2010-2011:** CO2GeoNet experts give lectures on CO2 Geological Storage at 45+ universities around Europe
- **BRGM-CO2GeoNet professional training courses** in Orleans on “Geochemical modelling” 4.5 course (March and September 2010; October 2011) and “Introduction to CCS” 1.5 day course (November 2011)
- **IEA GHG Summer school**, Norway, August 2010; Illinois, USA, 2011



Information and communication

- CO2GeoNet brochure 'What does CO₂ geological storage really mean?'
- In addition to the 8 existing languages (English, French, Danish, Dutch, Hungarian, Norwegian, Polish, Romanian) new translations have become available:
- German, Italian, Spanish
- Downloads:
www.co2geonet.com/brochure
- New translations soon available to cover all European languages thanks to CGS Europe partners
- Planning a new simple version for a more general public



Information and communication

International events

- Organisation 5th & 6th **CO2GeNet Open Forum** in Venice, May 2010, May 2011
- Co-organisation of **EAGE 2nd workshop on CCS** in Berlin, March 2010
- Co-organisation 2nd Romanian workshop **“Promoting CCS in Romania”**, Bucharest March 2010
- Co-organisation **“European Conference on CCS”**, Rotterdam, April 2010

