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(*under CGS Europe)

6th CO₂GeoNet Open Forum, 9-10 May 2011, San Servolo Island, Venice

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1 Introduction

The tradition of the CO₂GeoNet Open Forum on San Servolo Island in Venice, Italy, started in 2006. This year was the 6th edition, held from May 9-11, 2011. The first two days were dedicated to progress in Europe on CO₂ storage from a scientific perspective, including policy and implementation aspects related to research issues. The third day was dedicated to a regulatory workshop (see Deliverable 4.2 “Outcomes of the internal knowledge sharing workshop: *Legal and regulatory issues for the implementation of the EU Directive on the geological storage of CO₂*”)

This report provides a short summary of main observations and conclusions from the first two days. More detailed information on individual subjects can be found in the presentations available at the CGS Europe website (www.cgseurope.net) and the CO₂GeoNet website (www.co2geonet.eu)

2 Scope of the 6th Open Forum in Venice

The CO₂GeoNet Open Forum offers a unique opportunity for stakeholders and major players in the CCS arena to meet and interact directly with Europe’s largest group of researchers on CO₂ geological storage. This was all the more true this year, with the involvement of the CGS Europe project: the “Pan-European Coordination Action on the Geological Storage of CO₂” that brings together the CO₂GeoNet Association and 21 other research institutes all with CO₂ storage research experience, thus covering 28 countries (24 European Member States plus 4 Associated Countries).

The aim of the 6th Open Forum was essentially to provide:

- the current state of research to reach the goals set for 2015 and beyond by the EU and the member states
- an overview of envisaged large scale demos in Europe, pilot projects and field experiments
- status of the regulatory framework

To achieve this goal it was considered important to create an open atmosphere where participants could discuss freely. To create such an open environment allowing particularly the various stakeholders such as regulators, policy makers, industry and researchers to exchange ideas and share points of view, different timeslots were allocated throughout the program to panel discussions and breakout group discussions.

3 Main observations

A few of the most striking observations after the two days' workshop were:

- Europe is well on track with current pilot projects and planned large scale demos, with a solid financing scheme through the EEPR & NER300 combined with national funding of the individual member states for the integrated large scale demos.
- However, the start of the demos in time (i.e. 2015) is absolutely critical in order to get CCS implemented on a wider scale. Not all participants were convinced of the feasibility of reaching this deadline. Presentations on the preparation of the different demos did show indeed, that the timelines are quite tight, but feasible.
- Besides possible technical hurdles, communication remains a topic coming back in discussions and seems to be one of the key issues in getting CCS adopted as a proper technique to mitigate GHG-emissions. The need for public engagement is urgent and absolutely necessary.
- From a research perspective, there is clearly more attention to potential impacts of CO₂ leakage nowadays with the large scale demos approaching. This is exemplified by EU-funded projects such as RISCs and ECO2. CO₂GeoNet partners have been doing pioneering research work in this field since 2004 focussing on natural analogues, and thus play a leading role in Europe on these topics.

4 The program in sessions

This chapter will briefly give some highlights per session. For each session the agenda is shown.

Monday May 9

CO₂ storage developments in the European context

CHAIR: SERGIO PERSOGLIA, CO₂GeoNet-OGS

9.00 Welcome

SERGIO PERSOGLIA, CO₂GeoNet-OGS

9.10 CO₂Geonet and CGS Europe: what is it all about and objectives Open Forum 2011

NICK RILEY, CO₂GeoNet-BGS

9.25 Overview of CO₂GeoNet activities for the past and the coming year

SAMUELA VERCELLI, CO₂GeoNet-URS

9.40 Overview of CGS Europe activities in the next three years

ISABELLE CZERNICHOWSKI, CO₂GeoNet-BRGM

9.55 Summary of current CO₂ storage R&D activities in European countries

HEIKE RUETTERS, CO₂GeoNet-BGR

10.15 Setting the scene - EU legal framework and funding of CCS demonstration projects

MARTINA DOPPELHAMMER, EC DG Climate Action

10.45 Coffee break

After a warm welcome by the host and Secretary General of CO₂GeoNet, Sergio Persoglia, this session kicked off with an overview of CO₂GeoNet and CGS Europe activities. This was followed by a presentation of research trends in member states by Heike Ruetters based on a survey carried out within the CGS Europe community prior to this Forum. Though the information should not be taken as an absolute truth, it was very interesting to see the compiled information translated into maps of activities and of the status of CCS research over Europe. The session was ended with a presentation by Martina Doppelhammer of the EC explaining the situation on

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CCS legislation, particularly on the transposition of EU Directive in the different member states and on the financing schemes for the large scale demos through the EEP and NER300 mechanisms.

European large scale demonstration projects (EEP/NER300)

CHAIR: ROB ARTS, CO₂GeoNet-TNO

11.15 Italy - Porte Tolle: storage in an offshore saline aquifer

MONIA POLITI, ENEL-IIN

11.35 Netherlands - Rotterdam: storage in an offshore gas field

ANDREAS KOPP, Eon Gas Storage/ROAD project

11.55 UK - storage offshore in oil&gas fields

NICK RILEY, CO₂GeoNet-BGS

12.15 Poland - Belchatow: storage in an onshore saline aquifer

ADAM WOJCICKI, PGI-NRI

12.35 Germany - Janschwalde: storage in an onshore saline aquifer or gas field

CHRISTIAN BERNSTONE, Vattenfall

12.55 Romania - Oltenia: storage in an onshore saline aquifer

CONSTANTIN SAVA, GEOECOMAR

13.15 Lunch

Open Forum panel discussion

CHAIR: ROB ARTS, CO₂GeoNet-TNO

14.30 Large demos: questions and challenges

PANEL WITH MORNING SPEAKERS

The second session provided a clear overview of the status of some of the large scale demos of the EEP and NER300 program and the challenges that these projects face. It was clear, that the different projects are at different levels of development. Some of the key issues that were common to most of the projects concerned:

- Public acceptance, especially for the onshore storage sites
- To implement terminology and definitions as used in the storage Directive, like for example the “storage complex”, into the storage applications
- The development of a suitable monitoring program.

Thematic studies

CHAIR: DOMINIQUE DURAND, CO₂GeoNet-NIVA

15.30 Results of IEAGHG study “Quantification techniques for CO₂ leakage”

ANNA KORRE, CO₂GeoNet-Imperial

16.00 Coffee break

16.30 Results of IEAGHG study “Potential impacts on groundwater resources of CO₂ Storage”

FRANZ MAY, CO₂GeoNet-BGR

17.00 Sustainable environments for CO₂ storage communication and understanding

SAMUELA VERCELLI, CO₂GeoNet-URS

Open Forum general discussion

CHAIR: NICK RILEY, CO₂GeoNet-BGS

17.20 The scientific case for CO₂ storage - recent developments

18.00 End of Day 1

The next session concerned specific thematic studies carried out by CO₂GeoNet:

- Report on monitoring techniques for quantification of leakage. This report is almost finalised and will be made available through the IEAGHG website in due time.

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- Report on impacts of CO₂ on groundwater. Again this report is almost finalised and will be made available through the IEAGHG website in due time. Issues covered in this study include both brine displacement as well as the effects of direct CO₂ leakage.
- Results of a social study performed amongst school children showing the importance of a “trusting environment” for science communication. The key learning point is that the challenges in communicating CCS probably lie more in the relationship with the public than in the actual content to be communicated.

The session was finalised by Nick Riley of CO₂GeoNet providing a good illustration on how we should place CCS in perspective, also in our communication: “Why do we do it ?” and “What are the effects of CO₂ on climate and ocean acidification ?”.

Scientific developments

CHAIR: NICK RILEY, CO₂GeoNet-BGS

- 9.00 EC activities on CCS from the research perspective**
VASSILIOS KOUGIONAS, DG Research
- 9.20 New lessons from natural analogues**
SALVATORE LOMBARDI, CO₂GeoNet-URS
- 9.40 Integrated monitoring research at natural CO₂ vents, Laacher See (Germany)**
INGO MOELLER, CO₂GeoNet-BGR
- 10.00 Geomechanical modeling and Insar at In-Salah (Algeria)**
SEVKET DURUCAN, CO₂GeoNet-Imperial
- 10.20 Ongoing research activities in the North Sea and Skagerrak area**
NIELS-ERIK POULSEN, CO₂GeoNet-GEUS
- 10.40 Coffee break**
- 11.10 Case study in Slovakia**
LUDOVIT KUCHARIC, SGUDS
- 11.30 Assessing impacts in terrestrial environments - results from the RISCS project**
DAVID JONES, CO₂GeoNet-BGS
- 11.50 Assessing impacts in marine environments - results from the RISCS project**
CINZIA DE VITTOR, CO₂GeoNet-OGS

The first session of the second day on latest scientific developments was introduced by Vassilios Kougionas, EC scientific officer for CGS Europe, with a thorough overview of research planning and funding schemes at European level. New calls focussed on CCS are in the pipeline. Research results were presented:

- Progress made in studies at natural analogues, both in Italy and in Germany
- Results of a geomechanical study at In-Salah based on Insar data analysis and geomechanical modelling / reservoir simulation
- An economic evaluation of a developing CCS project in Slovakia
- An overview of the possibilities for storage in Denmark
- And finally an extensive description of results of the RISCS FP7 project dealing with impacts of CO₂ leakage on the environment both onshore and offshore

Open Forum general discussion

CHAIR: JONATHAN PEARCE, CO₂GeoNet-BGS - SAMUELA VERCELLI, CO₂GeoNet-URS

- 12.10 Building a guide for impacts appraisal: proposals and suggestions**

One of the key results of the RISCS project will be a guide for impacts appraisal. In order to get suggestions for constructing such a guide from the large CCS community present in Venice, break-out sessions were organised centred on hypothetical cases of leakage. Each of these breakout groups, that assumed a different role such as

operator, regulator, general public, NGO, etc., needed to come up with a plan how to deal with such a leakage and to imagine the impacts and consequences. Results of this exercise will feed into the final guide. The most striking observation was probably, that all groups highly favoured a very open communication.

Small scale pilots and field experiments

CHAIR: VIT HLADIK, CzGS

14.30 Current status of CO₂ injection monitoring at K12B offshore gas field (NL)

VINCENT VANDEWEIJER, CO₂GeoNet-TNO

14.50 Learnings from the CO₂ injection pilot at Rousse onshore gas field (France)

JOËLLE HY-BILLIOT, Total

15.10 Preparation of CO₂ injection in a deep saline aquifer at Hontomin (Spain)

PROF. ANDRÉS PÉREZ-ESTAÚN, CIUDEN

15.30 Ongoing research on shallow migration of CO₂ at CO₂ Field Lab in Svelsvik (Norway)

MARIE-LAURE OLIVIER, CO₂GeoNet-SPR

In the early afternoon session an overview was given of progress at various small scale pilot projects and field experiments. It started with a clear update on monitoring activities and experiences at K12-B offshore the Netherlands, followed by the first technical results of microseismic monitoring at Lacq/Rousse in France. Then an overview of the Spanish Hontomin project near Burgos in Spain was given, with a very complete monitoring program envisaged. Finally some insight in the progress of the Norwegian fieldlab, where drilling has started, was provided.

Open Forum panel discussion

CHAIR: ISABELLE CZERNICHOWSKI, CO₂GeoNet-BRGM

16.20 Sharing views on CO₂ storage development in Europe

PANEL DISCUSSION

17.40 Conclusions 1st part Open Forum

SERGIO PERSOGLIA, CO₂Geonet-OGS

The first two days ended with a panel discussion giving rise to vivid and fruitful debate. Each panellist briefly expressed his/her view on storage development in Europe, followed by open discussion with the audience. The issues raised include:

- Communication, and the problem that if scientists are not suited for communicating, who is? Some felt that scientists should simply spread the facts if they wish to remain objective and trustworthy. The audience felt that open and honest communication is the key to success.
- Should scientific research on CCS be funded by industry or would this compromise independence? As long as the process is transparent, funding should not be a problem. Also the role of the peer reviewed literature was stressed in this perspective in the audience.
- Incentives for industry for CCS, the relation with social scientists, and the involvement of other industry.

The most important message from the panel discussion, and probably of the entire two days, can probably be summarized as: **The demos are absolutely necessary as soon as possible!**

5 Final remarks

In retrospect, we can look back at a successful event and the intention is definitely to continue the tradition of this annual open forum. Next year's Open Forum will be held 17-18 April 2012 at the same place.

SEE YOU NEXT YEAR IN VENICE!!!



Annex 1 – Agenda

AGENDA

Welcome cocktail San Servolo Island - Room Blasaglia - **Sunday May 8 from 18:30**

Monday May 9

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MARTINA DOPPELHAMMER, EC DG Climate Action

10.45 Coffee break

European large scale demonstration projects (EERP/NER300)

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MONIA POLITI, ENEL-ITN

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13.15 Lunch

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17.20 The scientific case for CO₂ storage - recent developments

18.00 End of Day 1

20.00 Gala dinner

Tuesday May 10

Scientific developments

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VASSILIOS KOUKIONAS, DG Research

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SALVATORE LOMBARDO, CO₂GeoNet-URS

9.40 Integrated monitoring research at natural CO₂ vents, Laacher See (Germany)

INGO MOELLER, CO₂GeoNet-BGR

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SEVKET DURUCAN, CO₂GeoNet-Imperial

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NIELS-ERIK POULSEN, CO₂GeoNet-GEUS

10.40 Coffee break

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LUDOVIT KUCHARIC, SGUOS

11.30 Assessing impacts in terrestrial environments - results from the RISCs project

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Open Forum general discussion

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MARIE-LAURE OLIVIER, CO₂GeoNet-SPR

15.50 Coffee break

Open Forum panel discussion

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16.20 Sharing views on CO₂ storage development in Europe

PANEL DISCUSSION

17.40 Conclusions 1st part Open Forum

SERGIO PERSOGLIA, CO₂GeoNet-OGS

18.00 End of Day 2

Wednesday May 11

1st CGS EUROPE KNOWLEDGE SHARING WORKSHOP

LEGAL AND REGULATORY ISSUES FOR THE IMPLEMENTATION OF THE EU DIRECTIVE ON THE GEOLOGICAL STORAGE OF CO₂

Session 1. Legislation Process in Europe

CHAIR: ROBERTO MARTINEZ, S-IGME

9.00 Introduction

ALLA SHOGENOVA, TTU GI

9.10 Overview of the national CCS regulatory developments in CGS Europe countries: progress and problems

ALLA SHOGENOVA, TTU GI

9.40 Carbon capture and storage regulatory test toolkit

DEREK TAYLOR, Global CCS Institute

10.10 Public information issues related to the legislation process

SAMUELA VERCELLI, CO₂GeoNet-URS

10.20 Coffee break

Session 2a. National legislation in the CGS Europe countries: case studies
CHAIR: ADAM WOJCIK, PGI-NRI

- 10.50 Geological carbon storage: towards a Danish implementation plan**
NIELS E. POULSEN, CO₂GeoNet-GEUS
- 11.15 Implementation of the CCS directive when geological storage options do not exist: two case studies from Belgium**
KRIS PIJSSSENS & WOUTER STROOBANTS, RBINS-GSB
- 11.40 Implementation of the CO₂ geological storage Directive in Hungary: experiences, problems and their solutions in a new EU country**
GYORGY FALUS, ELGI

12.05 Lunch

Session 2b. National legislation in the CGS Europe countries: case studies
CHAIR: HUBERT FABRIOL, CO₂GeoNet-BRGM

- 13.30 EC Directive on CCS: roadmap for its implementation in Italy**
MARCELLO CAPRA, Ministry of Economic Development
- 13.50 Practical experience in transposing the 2009/31/EC Directive: the French case**
LIONEL PERRETTE, Directorate General for Energy and Climate, French Ministry of Ecology

Session 3. Open discussion - Sharing experience on the CCS Directive transposition process in Europe
CHAIR: KRIS PIJSSSENS, RBINS-GSB

Session 3a. Transposition of CCS Directive: the most problematic issues

- 14.10 Assessment of storage capacity: organization and standardization**
NIELS E. POULSEN, CO₂GeoNet-GEUS
- 14.30 Conflicts of interests/interaction with other underground use**
ADAM WOJCIK, PGI-NRI
- 14.50 Monitoring issues**
ANANTH CHIKKATUR, ICF International

15.10 Coffee break

Session 3b. Issues not covered by the CCS Directive:
CHAIR: ALLA SHOGENOVA, TTU GI

- 15.40 Cross-border transport and storage**
TUIJA VAHAKUOPUS, GTK
- 16.00 Competent authority: are they ready to evaluate applications?**
KRIS PIJSSSENS, RBINS-GSB
- 16.20 Conclusions and summary**
WORKSHOP SCIENTIFIC COMMITTEE: Alla Shogenova (TTU GI), Kris Pijssens (RBINS-GSB), Hubert Fabriol (CO₂GeoNet-BRGM), Adam Wojcik (PGI-NRI), Roberto Martinez (S-IGME), George Hatzilyannis (G-IGME), Sergio Persoglia (CO₂GeoNet-OGS)

17.00 End of Day 3



CO₂GeoNet
The European Network of Excellence on the Geological Storage of CO₂

CO₂GeoNet is the European scientific body on CO₂ geological storage. It currently comprises 13 public research institutes from 7 European countries, and brings together over 300 researchers with the multidisciplinary expertise needed to address all aspects of CO₂ storage. With activities encompassing joint research, training, scientific advice, information and communication, CO₂GeoNet has a valuable and independent role to play in enabling the efficient and safe geological storage of CO₂. CO₂GeoNet was created in 2004 as a Network of Excellence supported by the EC FP6 programme for 5 years. In 2008, the Network became a non-profit association under French law. www.co2geonet.com

CO₂GeoNet members: BGR (Germany); BGS (UK); BRGM (France); GEUS (Denmark); HWU (UK); IFPEN (France); IMPERIAL (UK); IRIS (Norway); NIVA (Norway); OGS (Italy); SPR Sintef (Norway); TNO (Netherlands); URS (Italy)



CGS Europe
The Pan-European Coordination Action on the Geological Storage of CO₂

CGS Europe is a networking project that pools together the expertise of 34 key research institutes in the area of CO₂ geological storage across 28 countries (24 European Member States and 4 Associated Countries). Funded by the EC FP7 programme, it builds upon the networking and integration experience of CO₂GeoNet with the ultimate goal of providing an independent, scientific, pan-European platform and reference source where national, European and international experts, institutes and regulators can access the most up-to-date results of CO₂ storage-related studies, share experiences and good practices, discuss the implementation of regulations, identify research needs to face upcoming challenges, and build new projects. www.cgs-europe.net

CGS Europe partners (in addition to the 13 CO₂GeoNet members mentioned above):
CzGS (Czech Republic); ELGI (Hungary); GBA (Austria); GEOECOMAR (Romania); GEO-INZ (Slovenia); G-IGME (Greece); GSI (Ireland); GTC (Lithuania); GTK (Finland); LEGMC (Latvia); LNEG (Portugal); METU-PAL (Turkey); PGI-NRI (Poland); RBINS-GSB (Belgium); SGU (Sweden); SGUOS (Slovakia); S-IGME (Spain); SU (Bulgaria); TTUGI (Estonia); UB (Serbia); UNIZG-RIGNF (Croatia)

MAIN SPONSORS



SPONSORS



6th CO₂GeoNet Open Forum
May 9-11, 2011
Venice, San Servolo Island, Italy

CO₂GeoNet - a resource for Europe for scientific support to the geological storage of CO₂

CGS Europe - a coordination action across 28 Countries

A forum - to make scientific research and researchers available to stakeholders



Annex 2 - Invitation



CO₂GeoNet The European Network of Excellence on the Geological Storage of CO₂

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Visit CO₂GeoNet's website at www.co2geonet.com

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Invitation

6th CO₂GeoNet Open Forum Venice, San Servolo Island, 9-11 May 2011

The CO₂GeoNet Open Forum is a unique opportunity for stakeholders and major players in the CCS arena to meet and interact directly with Europe's largest group of researchers on CO₂ geological storage.

This is all the more true this year, with the involvement of the CGS Europe project: the "Pan-European Coordination Action on the Geological Storage of CO₂" that brings together the CO₂GeoNet Association and 21 other research institutes all with CO₂ storage research experience, thus covering 28 countries (24 European Member States plus 4 Associated Countries).

The 2011 Open Forum will offer a complete overview of CO₂ storage developments in Europe at different levels:

- latest scientific results and studies;
- scientific investigations related to CCS demos and pilots in Europe;
- a dedicated regulatory workshop on scientific issues related to the implementation of the European Directive on CO₂ Storage.

Who will attend: Decision-makers, Public authorities, Industry, NGOs and Scientists from Europe and abroad

Consult the agenda and more information at:
<http://www.co2geonet.com/Venice2011>

Registration link: www.co2geonet.com/openforum2011

