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Scoping Study for a pan-European Data Infrastructure

D 2.1

Stakeholders and Plan for Stakeholder Consultation

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EGDI-Scope Project, WP2 Stakeholders and Plan Stakeholder Consultation

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1 Introduction

According to the Description of Work, WP2 shall identify stakeholders and examine their needs for geological data and services. Special emphasis should be put on pan-European institutions and communities, but the gross list of stakeholders should also include national and local governmental organisations and private companies working with a large variety of international problems that require access to geological information on international and European level. The outcome of the stakeholder consultations should be used as input for WP3 (Prioritisation of datasets) & WP4 (Technical Design) and dissemination of relevant information, as well as organisation of stakeholder meetings, and workshops should be done in close cooperation with WP6 (Communication and Dissemination).

WP2 is divided into four tasks each resulting in a deliverable (Table 1). The present document represents deliverable D2.1 which reports the result of Task 2.1 (Identification of Stakeholders) that has been carried out as planned during the first three months of the project.

Table 1. List of tasks under WP2

Task	Months	Participants	Deliverable
2.1: Identification of Stakeholders	1-3	GEUS, EGS, BRGM, BGS, TNO	D2.1: List of stakeholder's and detailed plan for workshop, questionnaire and interviews
2.2: Stakeholder Consultation	4-19	GEUS, EGS	D2.2: Report on user needs for datasets and services
2.3: Specification of functional requirements and use cases	7-12	GEUS, EGS, BRGM, BGS, TNO	D2.3: Report on technical user requirements and use cases
2.4: Stakeholder Feedback	13-18	GEUS, EGS, BRGM, BGS, TNO	D2.4: Final report of user needs and functional requirements

2 Stakeholder Panel

The most important part of Task 2.1 was the identification of key stakeholders. All members of the consortium took an active part in this process. A number of the stakeholders were subsequently nominated for the "Stakeholder Panel". The consortium wanted the Stakeholder Panel to be the link between the project consortium and the policy-making bodies in the EU. Furthermore, it was agreed that the members of the panel should be external relative to the EuroGeoSurveys organisations, and represent a wide range of use cases. The list of candidates nominated for the stakeholder panel is included below together with a brief description of the reason for their involvement.

Invitation letters were sent to potential members of the stakeholder panel in early July. An example is included at Appendix A.

The Stakeholder Panel will act as an advisory board for the duration of the project. The members will be contacted as appropriate and will be invited to the workshops scheduled for Months 6 and 16. Members of the Stakeholder Panel will be invited to provide input to an external advisory paper, an important final deliverable of the current project. Subsequently, during the course of the project it will be discussed with the members of the Stakeholder Panel in what way they may be involved with regard to the implementation of the EGDI in the future.

The Stakeholder Panel consists of a number of named members (see 2.1), but can be expanded later if the project consortium considers this to be appropriate. The Stakeholder Panel is expected to follow the project throughout its duration, and will advise the project consortium on a number of relevant issues, such as:

- external developments relevant to achieving progress with the development of an EGDI such as policy and investment programs
- clarification and prioritization of use cases in connection with an EGDI; requirements (functional, technical, legal) for a geological data infrastructure;
- dissemination of EGDI-Scope findings to relevant user communities.

2.1 Nominated Candidates for the Stakeholder Panel

Environment

European Environment Agency (EEA)

Contact person *Stefan Jensen*

EEA is an agency of the European Union. It's key task is to provide information on the environment. Many of the topics covered by the EEA require access to geological information, including climate change, land use, natural resources and water. In 2010, EEA and EGS signed a MoU regarding the use of the OneGeology-Europe portal.

Non-energy raw materials

DG Enterprise and Industry (DG ENTR)

Contact person: *Milan Grohol*

Deputy: *Slavko Solar*

Non-energy raw materials are high on the EU's agenda. The Raw Materials Initiative was adopted by the Commission in November 2008 and is now in its implementation phase. As a result, the Commission has, among other things, launched a proposal for a European Innovation Partnership (EIP) on raw materials. The actions to be taken by this EIP are grouped into five work packages, one of which aims to "...build and standardise geological data, and to identify and exchange best practices in defining policies for minerals, land planning and regulation thereof in the Member States". It is important to secure proper coordination between the EGDI-Scope project and the EIP in order to ensure that the future EGDI is considered a natural home for any results generated by the EIP.

Science and technology

DG Joint Research Centre (DG JRC)

Contact Person: *Alessandro Annoni*

JRC hosts the INSPIRE Geoportal that acts as an Internet access point to the INSPIRE infrastructure and JRC has a central role in the specification of the INSPIRE implementing rules. INSPIRE provides data in support of environmental policies, including geology and energy- and mineral resources. These themes are likely to be part of the EGDI in the future. Inclusion of the Digital Earth and Reference Data Unit at the JRC will help ensure proper coordination with INSPIRE.

GeoHazards

DG Enterprise and Industry (DG ENTR - GMES)

Contact person: *Michel Massart*

Environmental information is of crucial importance. It helps to understand how our planet and its climate are changing, the role played by human activities in these changes and how these will influence our daily lives. The well-being and security of future generations are more than ever dependent on everyone's actions and on the decisions being made today on environmental policies. To take the right actions, decision makers, businesses and citizens must be provided with reliable and up-to-date infor-

mation on how our planet and its climate are changing. The earth monitoring programme GMES (Global Monitoring for Environment and Security) provides this information and hence should be taken into consideration within the scope of a future European Geological Data Infrastructure.

Industry and Commerce

Insurance Europe

Contact person: *Carmen Bell*

Considering that the growing number of natural catastrophes requires new methods of risk measurement and calculation, a more forward-looking approach is necessary to improve the prediction of such catastrophes and their economic effects. In this respect, insurance companies are making use of geo-scientific methods of analysis, such as geographical information systems, risk mapping and event scenarios. These methods also aid society and policymakers by quantifying the expected change of future weather related events and incorporating them into premium calculations, thus, helping to provide clear signals about the magnitude of catastrophe risks likely to arise in the future.

3 Other Stakeholders

Stakeholders not nominated for the panel can become members of the “Stakeholder Forum”. The candidates for the Stakeholder Forum comprises a number of institutions and communities that are considered important for the EGDI-Scope project – either because they represent end users of a future European Geological Data Infrastructure (EGDI), or because they possess knowledge that is valuable for the project or because they are potential future suppliers of data and information for the infrastructure.

Invitation letters have been mailed to potential candidates of the Stakeholder Forum. The invitation mail asks people to express their interest in the project and their preferred level of engagement. An announcement circular for the first stakeholder workshop (14th November) was included with a deadline of November 2nd for registration. During the course of the project, any other organization or community that may be relevant for the EGDI is free to express interest in participation in the Stakeholder Forum.

3.1 Members of the Stakeholder Forum

At this stage of the project, the following persons have agreed to participate in the Stakeholder Forum:

European Commission

DG Research and Innovation:

- *Anna Maria Johansson* (European Strategy Forum on Research Infrastructures - ESFRI - Environment)

DG RTD:

- *Frederic Gouarderes* (Observer to the Stakeholder Forum)

EuroGeoSurveys Expert Groups

Geochemistry:

- *Clemens Reimann* (Geological Survey of Norway)

Marine Geology:

- *Henry Vallius* (Geological Survey of Finland)

Minerals Resources:

- *Nikolaos Arvanitidis* (Geological Survey of Greece)

Superficial Deposits:

- *Rainer Baritz* (*Bundesanstalt für Geowissenschaften und Rohstoffe*)

International Cooperation and Development Task Force:

- *Marek Graniczny* (Polish Geological Survey)

Spatial Information - INSPIRE:

- *François Robida - already member of consortium*

Industry

European Technology Platform on Sustainable Mineral Resources (ETP SMR):

- *Corina Hebestreit* (Chair of the High Level Group)

Academia

EPOS:

- *Massimo Cocco* (Coordinator)

European Federation of Geologists:

- *Isabel Fernandez* (Director)

Other European Communities and projects

PanGeo:

- *Ren Capes* (Coordinator)

EMODNET Geology:

- *Alan Stevenson* (Coordinator)

GeoSeas:

- *Helen Graves* (Coordinator)

ESA (through GMES):

- *Jérôme Béquignon*

International Organisations from outside the EU

GEOSS:

- *Francesco Gaetani (Geohazards)*

UNESCO:

- *Patrick McKeever (Global Earth Observation)*

UNECE:

- *Charlotte Griffiths (Sustainable Energy Division)*

Organisation of African Geological Surveys (OAGS):

- *Lhacene Bitam (President)*

Geological Society of Africa (GSAF):

- *Aberra Mogessie (President)*

Minerals and Metals Group:

- *Anthony Reed*

3.2 Invited members who have not yet responded

- Peter Gammeltoft, DG ENV
- Hugo de Groof, DG ENV – INSPIRE
- Stuart Marsh, Earth Observation EG
- Kris Piessens, CO2 EG
- Peter Britze, GeoEnergy EG
- Trevor Maynard, Lloyds

4 Plan for Stakeholder Consultation

This section describes the activities that have been planned for the next tasks in Work Package 2.

4.1 Workshop

A stakeholder workshop has been scheduled for 14th November in Brussels and invitations have been circulated to members of the Stakeholder Panel and Forum. Furthermore representatives of the National Geological Survey organisations (NGSO's) under EGS have been invited to the workshop as observers. At the time of writing, the following stakeholders have registered for the workshop;

Stakeholder Panel participants

- Slavko Solar, DG ENTR – Raw Materials
- Michel Massart, DG ENTR – GMES
- Carmen Bell, Insurance Europe

Stakeholder Forum participants

- Frederic Gouarderes, DG RTD (observer)
- Jan Høst, NGU (represents Clemens Reimann, Chair of EGS' Geochem. EG)
- Massimo Cocco, Coordinator of EPOS
- Helen Glaves, Coordinator of GeoSeas
- Alan Stevenson, Coordinator of EMODnet geology
- Luke Bateson, PanGeo (represents Ren Capes, coordinator of PanGeo)
- Isabel Fernandez, European Federation of Geologists
- Ruth Allington, European Federation of Geologists
- Charlotte Griffiths*, UNECE
- Rainer Baritz, Chair of EGS' Superficial Deposits EG
- Francesco Gaetan*, GEOSS
- Jérôme Béquignon, ESA

A preliminary agenda has been developed and circulated to the participants. In broad terms, the workshop is divided in two sessions; general presentations of the project and the background are given in the morning, while the afternoon is devoted to break-out-sessions. A number of topics have been defined for the break-out-sessions (see below), but decision regarding the final topics will be taken at a consortium meeting which takes place two days before the workshop, where all participants are known.

Preliminary Agenda for Stakeholder Forum, November 14th, Brussels

09.30 – Registration

10.00 – Opening and introduction to workshop (Rob van der Krogt, Coordinator EGDI-Scope)

10.10 – Welcome Address on behalf of EuroGeoSurveys

10.25 – Introduction to EGDI-Scope (Rob van der Krogt)

11.00 – Stakeholder involvement in EGDI-Scope (Mikael Pedersen, GEUS)

11.15 – Coffee break

11.35 – Role and strategic development of the Geological Surveys in Europe and connection with EGDI-Scope (Luca Demicheli, EuroGeoSurveys)

12.00 – The need for Geological Data – Example from the Raw Materials sector (Slavko Solar, DG ENTR)

12.30 – Lunch

13.30 – Introduction to break-out-sessions (Mikael Pedersen, GEUS)

13.45 – Break-out-sessions:

- international availability of geological data and value
- possible 'use cases'
- requirements (functional, technical, legal) for a geological data infrastructure

15.15 – Reporting from break-out-groups

15.45 – Wrap-up of the day and follow-up (Rob van der Krogt)

16.00 – Drinks

4.2 Meetings with members of the Stakeholder Panel

Members of the Stakeholder Panel, have been invited to a meeting with the project consortium the day before the workshop in order to get acquainted and exchange expectations. Most panel members have accepted this invitation.

The members of the Stakeholder Panel will be invited to similar meetings with the project group regularly either as a group or on individual basis. The objective of these meetings will be to have fruitful discussions with people close to the political levels of the EU to help guide the project from the start and ensure maximum awareness of the project at high levels within the EU system.

4.3 Stakeholder interviews

Stakeholders that do not have the opportunity of attending the workshop on November 14th will subsequent to the workshop be contacted via mail, telephone or in person in order to capture their needs for geological data as well as their view on the development of a future EGD. A similar approach will be taken towards stakeholders that are identified later in the project.

Realistically, not all stakeholders will be able to travel to the stakeholder workshop. They will be contacted via telephone or invited to a personal interview. Furthermore, an online questionnaire will be developed and sent to a larger group of interested parties.

4.4 Questionnaire

A questionnaire will be developed and distributed to all engaged members of the Stakeholder Panel and Forum subsequent to the workshop. Furthermore, a greater number of stakeholders will be identified and invited to fill in the questionnaire in order to get input from as many different types of organisations as possible.

The questionnaire will be relatively simple, and will be focussed around the needs of WP3 and WP4, i.e. asking people about their need for geological data and services. A preliminary version of the questionnaire is shown in Annex D. The final version will be completed before the workshop on November 14th.

All incoming answers to the questionnaire will be captured, processed and analysed by GEUS. In cases where it seems relevant, stakeholders will be contacted personally and asked to elaborate on the answers from the questionnaire.

Based on the incoming questionnaires, an analysis report will be produced and distributed to the rest of the project consortium in order to form the background for activities carried out by WP3 and WP4. The analysis report will also be included in deliverable D2.2.

4.5 Outreaching activities

Beside stakeholder consultations, the general needs for geoscience data and possible interfaces to other data-providing initiatives will be investigated through participation in meetings and workshops arranged by other European level communities and projects such as GEO, EPOS, INSPIRE, Geo-Seas, EMODNET, PanGeo etc.

Annex A. Example of invitation letter for Stakeholder Panel



Brussels, 6th July 2012

Our reference: 2012/967

Dr. Alessandro Annoni

Head, Spatial Data Infrastructure Unit

TP 262

Institute for Environment and Sustainability

DG Joint Research Centre

European Commission

I-21020 ISPRA (VA),

ITALY

Cc. Mr. **David Wilkinson**, JRC Director Scientific Policy and Stakeholder Relations
Mr. **Guido Schmuck**, JRC Director Institute for Environment and Sustainability
Mr. **Marko Komac**, EGS President

Subject: Invitation to participate in Stakeholder Panel

Dear Dr. Annoni ,

As you will be aware, EuroGeoSurveys is the organization representing 33 national geological surveys in Europe with an overall staff complement of over 20,000.

The Geological Surveys of Europe have recently initiated a joint project in the framework the European Commission FP7 programme, entitled "Scoping Study for a pan-European Geological Data Infrastructure" (EGDI-Scope).

The main objective of the project is to develop a strategy and work plan for a future **European Geological Data Infrastructure (EGDI)**. This is also a response to the request by the European Parliament and the Commission for increased cooperation between national Geological Surveys, and increased use of common standards and practices in order to facilitate the exchange and exploitation of available geological data (2011/2056(INI)) to serve international and European policy development.

So far the basic geological exploration and mapping in Europe has been carried out by national geological surveys that have to operate within the constraints of national frameworks and regulations. Today, it is increasingly recognized by the Commission and other international stakeholders that a more appropriate coordination or even integration of activities of the EU's

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different geological surveys is necessary. Yet, innovative thinking based on increased networking and cooperation offers a huge potential to move forward as demonstrated by the successful OneGeology-Europe project. Setting European standards will facilitate the creation of a uniform geological knowledge base, and can also lead to a more cost-effective development and use of required modern technologies, such as satellite-based resource information and advanced 4D computer modelling systems. Recently the Directors of the Geological Surveys of Europe have set this development, including this EGDl project, as a common priority.

In order to optimize the impact of the scoping project and to ensure the requirements from policy makers in the EU are met, we would be pleased if you (or a qualified member of your staff on your behalf) would accept to become a member of the project Stakeholder Panel.

The Stakeholder Panel will advise the project consortium and the community of European geological surveys on the establishment of a pan-European Geological Data Infrastructure, concerning thematic focus, governance, strategic planning and related issues. Within this framework it also provides opportunities to connect with relevant programs of your policy department. In practice, participation in the Panel implies providing inputs and remarks, when deemed appropriate, during the project development (two years), and attending one meeting per year and the final symposium.

Should you have any questions, please do not hesitate to contact me or the project manager Mr. Rob van der Krogt (rob.vanderkrogt@tno.nl; +31 (0) 6 3164 2893). In anticipation of your initial interest we will contact you for a bilateral meeting to provide further information.

I look forward to hearing from you.

Yours sincerely,



Luca Demicheli
Secretary General

Also on behalf of the EGDl-Scope Consortium

Annex B. Example of invitation mail for Stakeholder Forum

Dear Anna Maria Johansson

As you will be aware, EuroGeoSurveys is the organization representing 33 national geological surveys in Europe with an overall staff complement of over 20,000.

The Geological Surveys of Europe have recently initiated a joint project in the framework the European Commission FP7 programme, entitled "Scoping Study for a pan-European Geological Data Infrastructure" (EGDI-Scope).

The main objective of the project is to develop a strategy and work plan for a future European Geological Data Infrastructure (EGDI). This is also a response to the request by the European Parliament and the Commission for increased cooperation between national Geological Surveys, and increased use of common standards and practices in order to facilitate the exchange and exploitation of available geological data to serve international and European policy development.

In order to optimize the impact of the scoping project and to ensure that the requirements of important stakeholder are met, we would be pleased if you (or a qualified member of your staff on your behalf) would accept to be part of our stakeholder forum. As stakeholder you will be able to convey your needs for geological data and online services thereby influencing the development of EGDI and the prioritization of its content and functionality.

There are various ways to contribute. First of all, a stakeholder workshop will be arranged in Brussels on November 14 (please see attached announcement). However, we acknowledge that many people are busy and will be unable to travel to the workshop. Therefore - depending on the situation - we can also arrange meetings at or close to your location or set up telephone interviews. If you don't find any of these options adequate, we would be grateful if you would fill in a simple online questionnaire which we will launch shortly.

We would be pleased if you by answering this email would state your interest in the project and the level of engagement you foresee.

Should you have any questions, please do not hesitate to contact me or the project manager Mr. Rob van der Krogt (rob.vanderkrogt@tno.nl; +31 (0) 6 3164 2893).

Yours Sincerely,

Mikael Pedersen
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Annex C. First Announcement for Stakeholder Workshop



FIRST ANNOUNCEMENT

EGDI Scope Stakeholder workshop

Brussels, 14 November 2012



Today, it is increasingly recognized by the European Parliament, the European Commission and other international stakeholders that a more appropriate coordination of activities of the EU's different geological surveys is necessary. This includes increased use of common standards and practices in order to facilitate the exchange and exploitation of available geological data to serve international and European policy development

The Geological Surveys of Europe under the auspices of EuroGeoSurveys, have recently initiated a joint project in the framework of the European Commission FP7 programme, entitled "Scoping Study for a pan-European Geological Data Infrastructure" (EGDI-Scope). The main objective of the project is to develop a strategy and work plan for a future **European Geological Data Infrastructure (EGDI)**, which should ultimately serve a wide variety of geological data of use to modern society exploiting the huge potential to move forward as demonstrated by the successful OneGeology-Europe project (www.onegeology-europe.eu). Setting European standards will facilitate the creation of a uniform geological knowledge base, and can also lead to a more cost-effective development and use of required modern technologies, such as satellite-based resource information and advanced 4D computer modeling systems.

On the 14th of November the EGDI-scope project will be presented by members of the project consortium, and stakeholders will be invited to give their view on the needs for geological datasets and services in order for the project consortium to target the specification of the EGDI in the most appropriate way. Further details of the workshop including an on-line registration form will from 1st of October be available from the EGDI-Scope website (<http://www.??? .eu>).



Annex D. First version of questionnaire form

 	
Organisation	
Name:	
Type:	
Country:	
Sector:	Public, Private
Thematic area:	Natural resources, Environment agencies, Environment Information, Environmental Consultancy, Planning, Education, Academia and research, Insurance, Landscape, Heritage, Civil engineering, Geological survey, Other?
Contact Person	
Name:	
Position:	
Email address:	
Phone (optional):	
Geological Data	
For what purpose do you use geological data?	
What geological data do you use?	
Where do you get your geological data?	
Which data are easily accessible?	
Which data are NOT easily accessible?	
What do you find most important?	Harmonised data Interoperable data Available data
Geological online services	
Are you familiar with the OneGeology-Europe portal?	
If yes, do you find it useful?	
Do you know other European data portals (state which)?	
Do you use other European data portals	
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