



FP7-INFRASTRUCTURES-2012-13

Grant Agreement no. 312845

***Scoping Study for a
Pan-European Geological Data Infrastructure***

D 1.1
Minutes of meetings

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1) Preparatory meeting kick-off EGDI-Scope and 1GE+



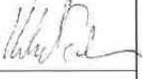
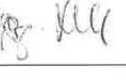

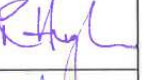


May 31 and June 1, TNO, Princetonlaan 6, Utrecht

Contact person:

Rob van der Krogt 06-3164 2893

Meeting attendance

Meeting attendance:

	May 31	June 1	Dinner	User name	Password	Signature
✓ Francois Robida (BRGM)	X	X	X	Francois	K7SPEC	
✓ Jean-Jacques Serrano (BRGM)	X	X	X	Jean-Jacques	AZAQA	
✓ Mikael Pedersen (GEUS)	X	X	X	Mikael	EGEFJZ	
✓ Jorgen Tulstrup (GEUS)	X	X	X	Jorgen	FAxEP5	
○ Luca Demicheli (EGS)	X					
○ Patrick Wall (EGS)	After 10 am	X	X			
✓ Richard Hughes (BGS)	X	X	X	RAUGHES Richard	CprEEZ	
✓ Kathryn A. Lee (BGS)	X	X	X	KALee		
✓ Katleen Janssen (Un. Leuven)	X	X	X	Katleen	DCCE	
Tirza van Daalen (TNO/GSN)	X	X				
Rob van der Krogt (TNO/ GSN)	After 14:00	X	X			
Kim Nathalia (TNO/GSN)	X					

Agenda

Thursday, May 31, 2012

9:30 Introduction of project members

10:00 Report on negotiation process

10:15 Introduction WP's

11:20 Break

11:30 Communications and announcements (relevant projects, programs, events)

12:15 Organisational and Governance issues

13:00 Lunch (Botanic Garden)

14:00 Role and position of (other) NGSO's

14:30 Administrative, contractual, financial issues

15:10 Preparation kick-off

- Objectives
- Program
- Involvement Wim Jansen
- Practical, organisational issues
- Communication
- Etc.

17:00 Break

17:15 Actions per work package/ startup working on deliverables

- Website
- Logo
- ...

18:00 Meeting schedules and dates

18:20 Other issues

18:30 Closure

~19:30/ 20:00 Dinner (Delphi's, Neude 29, Utrecht)

Friday, June 1, 2012

9:30 Introduction OneGeology

9:55 Work plan follow-up 1GE

11:20 Break

11:30 Organisational and Governance issues

11:50 Administrative and financial issues

12:10 EGDI within framework of EGDI(-Scope) and other projects/ programs

12:30 Actions, appointments, project meetings

12:50 Closure

13:00 Lunch (The Basket) (optional)

Minutes

Pre-kick off meeting EGDI, May 30, TNO Utrecht, NL

1. Short introduction

Partner's role and background

Rob van der Krogt + Tirza van Daalen (+ Kim Nathalia): TNO/GSN
Coordinator + back office - WP1

Katleen Janssen: Uni. Leuven
License policies, legal aspects of infrastructures - WP5

Jorgen Tulstrup: GEUS
ICT development, geology/energy/environment, head of datacenter (develops database systems)
Mikael Pedersen: GEUS
IT database development, Danish and EU projects - WP2

Kathryn A. Lee: BGS
Geologist, surveys, hazards project UK - WP3
Richard Hughes: BGS
Director of information, ICT infrastructure, data policy, libraries, BGS-board member

Jean Jacques Serrano: BRGM
Data modelling, EU projects - WP4
Francois Robida: BRGM
Mining engineer, information systems

Luca Demicheli + Patrick Wall: EGS
Communication and dissemination - WP6

2. Negotiation process with commission

- Wim Jansen

3. Work Package presentations by partner

WP1 (TNO)

- presentation of objectives
- motives and project characteristics
- illustration of the growing cube with its dimensions.

Find a common understanding of PANGEO, connections with other infrastructures, think about a new name for the project.

WP2 (GEUS)

Stakeholders

4 tasks in 2 years

- who are the stakeholders
how can they be involved, from different themes? (sheet: matrix with red crosses)
- Stakeholder consultation
How to involve them when they don't know themselves how to be involved? Workshop?
- Functional requirement and use cases

- Stakeholders feedback

Remarks: nominate candidates today (Jean Jacques list? Format Richard from UK?)

How to filter stakeholders? Maybe focus on a pilot from 3 perspectives, choose a representative for all emergency issues.

Outcome of WP2 will be the input for other WP's, so start as early as possible.

WP3 (BGS)

Priorisation of Datasets

- review of previous and ongoing projects
- review of the data
- implementation and prioritisation plan
- technological requirement for serving 3D GEO-model

Remark: also think about services in the virtual model?

There is loads of information, where to focus on? The same as WP2, it can be interesting to focus on a pilot as well, to go more in detail?

Article 1.8.5 > program has a relation with WP3

WP4 (BRGM)

Infrastructures / NGEOCLOUDS

3 tasks

- Identify infrastructure

NGEOCLOUDS > services for INSPIRE > added values

Use cloud-infrastructure to deliver this service for EGDI

New is the centralized data storage = one server with data and services and unlimited space

Purpose: demonstrate the technology is useful

No one is focusing on legal issues

Exchange general info about NGEOCLOUD project > info online

EURO GEOS project > check how they manage data and service

-Technical design and implementation

Remark: Not develop a data model but investigate in all issues of data model building, to find a direction to organize.

There are two options: 1. Improve existing model externally / 2. Design own perspective

> Focus on the general infrastructure, data models are one aspect.

WP5 (Uni. Leuven)

Legal and organisational framework

4 tasks

- analysis of trust and authentication issues
- analysis of and comparison of existing regulations and policies
- > which infrastructure already exists? for example; GEO framework
- create guidelines

Remark: What means trust?

Broad understanding but being transparent and secure information and data protection (like personal)

Remark: metrological organizations can be references

WP6 (EGS)

Communication and dissemination

EGS is in a transition.

3 focus area's: mineral resources, international cooperation, energy

Interesting: Article 1.8.5 initiative > business plan

-create a vision to develop an overall framework beyond the project > make it bigger

- mapping the resources
- create an intern + extern implementation plan

LOGO proposals, visual translation of merging forces,
But should the word scope be part of the logo? Partners prefer more earth/nature colours.

4. Kick off meeting – Brussels, June 21

Make agenda / storyline as soon as possible
June 20, preparation day

Questions:

- Who is invited? Have a dialogue with discussion persons before meeting?
- Everyone involved plays a role?
- What is the communication strategy? (not part of the consortium agreement)
- What is their role? What do we want from them? We need their expert knowledge, we link to their own surveys.
- We want their expert feedback on the deliverables? A roadmap?
- For two years we need from EGS: knowledge and advice > they give and we bring

Preparation Kick off meeting, June 20, max 20 persons incl. delegates surveys
Kick off meeting, June 21, 40/50 people incl. some strategic persons (directors) incl. experts

Ideas and suggestions for day 2:

- explain relevance of EGDI > strategic context (Luca?)
- gross list of stakeholders > ask for input?
- Short presentation WP's (max 10 minutes)
- What to expect from the other representatives? What would we like them to contribute?
Role of EGS members?
- Internal communications > transparency
Communication structure part of WP6
- Who will be invited speakers? from EGS? Marco? Wim Jansen? > instructions and procedures
- Rob/Tirza will speak as coordinator? together with Francois?
- Finish the meeting with a debate? Rob can be host
- Presentation of related projects? Maybe not
- Time schedule: 10.00-16.00 with drinks afterwards

5. Planning

Workshop planned for Month 6, together with progress meeting?

Progress meeting: November 12 + 13, Brussels

1. Consortium meeting
2. Surveys meeting

Executive board meeting Month 3: September 27 + 28, Paris

2) EGDI-Scope Kick-Off Meeting 21-06-2012

21 June 2012, Brussels

List of participants

Country	Survey/Organisation	Name
Albania	AGS	Arben Pambuku
Austria	GBA	Martin Schiegl
Belgium	EuroGeoSurveys	Luca Demicheli
Belgium	EuroGeoSurveys	Céline Andrien
Belgium	EuroGeoSurveys	Claudia Delfini
Belgium	EuroGeoSurveys	Patrick Wall
Belgium	GSB	Pierre-Yves Declercq
Belgium	K.U.Leuven	Katleen Janssen
Croatia	HGI – CGS	Josip Halamic
Cyprus	GSD	Zomenia Zomeni
Czech Republic	CGS	Zdenek Venera
Denmark	GEUS	Mikael Pedersen
Denmark	GEUS / EGS GEEG	Jørgen Tulstrup
Finland	GTK	Jarmo Kohonen
Finland	GTK	Jouni Vuollo
France	BRGM	François Robida
France	BRGM	Jean-Jacques Serrano
Germany	BGR	Kristine Asch
Germany	Geological Survey of Bavaria	Gerold Diepolder
Greece	IGME-NCSD	Alexandra Zervakou
Greece	IGME-NCSD	P. Karakonstantis
Hungary	MFGI	Turczi Gabor
Ireland	GSI	Ray Scanlon
Italy	ISPRA	Carlo Cipolloni
Malta	MRA	Julie Auerbach
Norway	NGU	Jan Høst
Norway	NGU	Per Ryghaug
Poland	PGI-NRI	Waldemar Gogolek
Poland	PGI-NRI	Anna Tekielska
Portugal	LNEG	Rita Caldeira
Romania	GIR	George Tudor
Slovakia	SGUDS	Branislav Zec
Slovenia	GeoZS	Jasna Sinigoj
Spain	IGME	Fernando Pérez Cerdan

Sweden	SGU	Andreas Gref
The Netherlands	TNO/GSN	Tirza van Daalen
The Netherlands	TNO/GSN	Rob van der Krogt
UK	BGS	Richard Hughes
UK	BGS	Kathryn Lee

Agenda

Thursday 21 st June, 2012		
10:00 – 10:10	Opening and introduction to kick-off session	Rob van der Krogt Project coordinator EGDI-Scope <i>TNO/ Geological Survey of the Netherlands</i>
10:10 – 10:50	Introduction EGDI-Scope project	Rob van der Krogt (TNO/GSN)
10.50 – 11.10	EGDI-Scope and strategic development of the Geological Surveys in Europe	Luca Demicheli <i>Secretary General EuroGeoSurveys</i>
11.10 – 11.20	Presentation of Logo	Claudia Delfini <i>Communication Officer EuroGeoSurveys/ Leader WP6</i>
11.20 – 11.35	<i>Coffee Break</i>	
11:35 – 12:30	Outline of Work Packages in EGDI-Scope: WP2 Stakeholder Consultation WP3 Prioritisation of Datasets WP4 Technical Design WP5 Legal and Organisational aspects	Mikael Pedersen (GEUS) <i>Leader WP2</i> Kathryn A. Lee (BGS) <i>Leader WP3</i> Jean-Jacques Serrano (BRGM) <i>Leader WP4</i> Katleen Janssen (Univ. Leuven) <i>Leader WP5</i>
12.30 – 12.50	Organization and governance EGDI-Scope (including role and contribution NGSO's)	Rob van der Krogt (TNO/GSN) Luca Demicheli (EGS)
12.50 – 13.00	Communication and Dissemination issues (WP6)	Claudia Delfini and Luca Demicheli (EGS)
13:00 – 14:15	<i>LUNCH</i>	
14:15 – 14:50	Related projects/ programs Promine EuroGeoSource EPOS InGeoClouds GeoSeas ...	François Robida (BRGM) <i>Chair EGS Spatial Information Expert Group (SIEG) Member EGDI-Scope consortium</i> Tirza van Daalen (TNO/GSN) <i>Member EGDI-Scope consortium</i>
14:50 – 15:15	Extension OneGeology-Europe Work Plan Connection EGDI Organisational	Richard Hughes (BGS) <i>Member EGDI-Scope consortium</i>
15:15 – 16:00	Discussion and debate	All speakers and audience Rob van der Krogt (TNO/GSN) <i>Chair</i>

16:00 – 16:10	Wrap-up, planning of meetings, closure	Rob van der Krogt (TNO/GSN)
16:10 – 18:00	<i>Networking drink</i>	

Abbreviations:

EGDI: European Geological Data Infrastructure
EGS: EuroGeoSurveys
NGSO: National Geological Survey Organisation
ExCom: EGS Executive Committee
EC: European Commission
EG: EGS Expert Group
1G-E: OneGeology-Europe

Minutes

Meeting begins at 10.00

Item 1: Opening and introduction to kick-off session

Mr Rob van der Krogt welcomes all the participants and gives special mention to the Directors of the Croatian, Czech and Slovakian Geological Surveys. He apologises on behalf of Wim Jansen, the European Commission Project Officer assigned to EGDI-Scope, who could not attend the meeting due to conflicting obligations and therefore explains the slight amendment to the agenda previously distributed.

All participants are invited to introduce themselves.

Item 2: Introduction EGDI-Scope project

Mr van der Krogt presents an overview of the EGDI-Scope project (ppt attached).

Item 3: EGDI-Scope and strategic development of the Geological Surveys in Europe

Mr Luca Demicheli presents the strategic development of the EGDI-Scope project, including a brief overview of EGS, the recent strategic developments and background to an Article 185 bid (ppt attached).

It is noted that the EC will still be coordinating calls in 2013. However there is a good opportunity that they will launch a call for an Article 185 on geosciences that we can then apply for with a financial plan and support of the Member States. Following a successful bid for an Article 185, the calls will be a joint effort of the EC and EGS.

Item 4: Presentation of Logo

Ms Claudia Delfini presents the development of the logo and the final EGDI-Scope logo (ppt attached).

Item 5: Outline of Work Packages in EGDI-Scope

Mr Mikael Pederson presents WP2 on stakeholder consultation (ppt attached).

Comments:

In OneGeology-Europe (1G-E) their Stakeholder analysis did not have so many participants and was difficult to involve them, resulting in a weak analysis. This should be a lesson to take on board. We should put a lot of thought into this in order to get good feedback from users.

ACTION WP2 Leaders (GEUS): give high importance to stakeholder involvement.

Ms Kathryn Lee presents WP3 on prioritisation of datasets (ppt attached).

Comments:

In terms of harmonisation, INSPIRE is already leading the way. As a lot of effort is already being put into this, it would be difficult to put more resources into further harmonisation for another initiative. It has to be taken into account that all past and present harmonisation efforts will be reviewed and considered in the scoping study.

The importance not to overlap with existing projects and datasets is noted. There is a clear aim not to duplicate anything. Feedback from the NGSOs, other projects and stakeholders is necessary throughout the scoping study in order not to have overlaps.

Ideas from each geological survey's own perspectives on topics:

Mr Venera reminds that the Czech Geological Survey hosts the 1G-E Metadata Catalogue and Multilingual Thesaurus.

Ms van Daalen suggests groundwater as TNO has much experience in this topic.

Mr Jan Høst suggests providing geochemical data through the EGS Geochemistry EG.

In order to get as many users as possible on board, we need to offer the users something that will interest them. For example: not many users are interested in 1G-E at a resolution of 1:1 million, but they may be interested much more in all types of information that can be derived from 1G-E or other geological datasets.

Mr Serrano presents WP4 on technical design (ppt attached).

Comments:

The issue as to whether INSPIRE-readied data can be used for an EGDI is raised as it would involve duplication of efforts to create and harmonise new data. The model of the geological data will be almost the same as 1G-E. It depends on the Member States whether we should have to deliver one set of data for INSPIRE and one for EGDI. From a technical point of view we could perhaps develop standards, or a recommendation resulting from EGDI-Scope could be how to deal with the data coming from different countries.

Considering INSPIRE, the data specifications are the core part of it. It is up to the communities to agree on the extensions of the models. We as the surveys have to agree on the specifications, we have to work together and this is a strategic issue. We will try to explore the way to proceed within the scoping study. The technical guidelines are not mandatory but it is important to work together on this to find how we can share the data.

Ms Janssen presents WP5 on legal and organisational aspects (ppt attached).

Comments:

Ms van Daalen points out that in the Netherlands they have a law on subsurface now and on how data can be used. It is quite a specific situation but can perhaps be looked at and taken into account, especially when going into 3D.

ACTION WP5 Leader (K.U.L.): legal aspects of 3D data to be given particular importance.

Item 6: Organization and governance EGDI-Scope

Mr van der Krogt introduces the governance and structure suggested for the EGDI-Scope (ppt attached).

Comments:

Mr Demicheli stresses the fact that this project is involving everyone and we want as much input as possible to make a successful bid for a full EGDI project afterwards. He encourages those who would like more information or an update on the latest activities of EuroGeoSurveys to ask the EGS Secretariat or their National Delegate.

The issue of transparency is discussed and is recognised as a basic requirement in this project. The ExCom is supposed to be free from national interest and so they should represent all of us, which is why they have been appointed as the EGDI-Scope Steering Committee. In terms of the EGDI-Scope study, the consortium members have signed the contracts and so are contractually bound to deliver to the EC. However it is clear that everyone should be involved, demonstrated by the budget allocated for travel to ensure everyone can attend the main meetings – in most projects there is not such a significant contribution towards travel costs. More than one person from each survey is welcome to attend meetings and we will try to make it as easy as possible for everyone to attend not just the main meetings but also other ones. The project consortium will make clear before the next meetings what costs could be refunded for representatives from the geological surveys for the EGDI-Scope meetings, giving due reasoning.

Mr Demicheli makes a note on travel reimbursements: guidelines will be prepared and sent out soon to be applied for all future meetings.

ACTION EGS Secretariat: prepare guidelines on travel reimbursements for future meetings, to be sent to all geological surveys.

Mr Kohonen suggests that the consortium draws up a statement stating how the transparency issue will be dealt with, in particular which documents will be made available for the representatives from the geological surveys and how the feedback from them will be encouraged.

All participants are reassured that the EGS Members will have access to all project documents (in their final version) and meeting minutes. EGS, which is in charge of the project's communication, will ensure full transparency in the procedures.

ACTION EGS Secretariat: ensure that all the necessary procedures to give access to the project documents to appointed EGS Member representatives are in place.

Mr Robida suggests using the Spatial Information Expert Group (SIEG) meetings to update members and discuss the EGDI by having a point on the agenda throughout the scoping study.

ACTION F. Robida: include a point on EGDI-Scope in the agenda of every SIEG meeting taking place throughout the project duration.

Mr Per Ryghaug: some of the thematic teams are also made up by national organisations that are not geological surveys. What are the deliveries from the national spatial data infrastructures, and what should be delivered to the EU portal from INSPIRE? It would be expensive and a lot of work to deliver spatial data to national contact points for INSPIRE as well as to the EGDI.

Mr van der Krogt replies that this is not something we can answer immediately but we take note and will certainly address it during the study to get a clearer view. In any case unnecessary duplication of work should be avoided of course.

It is important to note that an Article 185 is being considered at the same time and would also need a management structure, therefore the two should be developed in tandem. The data and

information, ignoring what themes might be present, are the basics also for the research agenda for geosciences in Europe.

We should take into account the ESFRI (European Strategy Forum on Research Infrastructures) proposal's failure due to a lack of (new) scientific content. The Directors should put together research leaders to focus on this. The EG's could also have a lot of input into this.

BREAK FOR LUNCH

Mr Demicheli brings up a question posed during the break concerning how much time each non-consortium member is expected to invest into the scoping project. This is relevant for many who have internal rules that require formally assessing the time we use. Whilst we may not have an answer now we should think about this already. There may in any case be time allocated to EGS activities within each survey. Time spent on EGDI-Scope should be proportional to the preparations for an Art.185.

Item 7: Communication and Dissemination issues (WP6)

Mr Demicheli presents WP6 (ppt attached). He notes that Ms Claudia Delfini will be main person in charge of EGS activities in this WP.

Comments:

Concerning external communication, whilst we have a responsibility to be transparent and open about our work in the public domain we must be careful with dissemination of sensitive information.

Item 8: Related projects / programs

Ms van Daalen and Mr Robida give brief descriptions of related EU projects (ppt attached).

Mr van der Krogt thanks Ms van Daalen and Mr Robida for the presentation and asks if everyone agrees with the guidelines outlined in connecting these projects to our scoping study? All participants unanimously agree.

Item 9: Extension OneGeology-Europe

Mr Richard Hughes presents 1G-E+ ideas (ppt attached).

Comments:

On harmonisation of data in different resolutions, this requires a lot of time and effort so there is no objective to do more harmonisation at this point. The continuation would purely be to increase resolution wherever possible, along with geographic coverage. There are users who have expressed interest in higher resolution data that is not necessarily harmonised.

Ms Asch: after the scoping study we should have a plan on how to provide datasets at different scales and on different themes according to common data specifications (which still needs to be determined) at one portal, is this correct?

Mr Hughes: doesn't feel this project needs to follow EGDI-Scope as it is only dealing with geology, not minerals or hazards etc. Therefore we might proceed very quickly. We are waiting on Directors to decide whether to go ahead or not.

BGR could provide federal data without problems as long as it is without any harmonisation. However if they have to do extra work it will take time, as with INSPIRE which requires much harmonisation.

Slovakia can provide data quickly. They would like to be involved but feel more transparency is needed.

It could be hard to move this forward without competing with EGDI-Scope as it will require man hours from people who might also want to work on other projects.

Mr Venera feels 1G-E+ is going a different direction to what was discussed in Warsaw. From the Directors' point of view, they need to cover finances and resources. He sees the EGDI as something slightly different from 1G-E, and questions why he should use Czech public resources for a European scale project; this should be funded by European resources. However, 1G-E at 1:1 million resolution required much effort and resources so it is unlikely the EU will provide anything towards its continuation.

As EGDI would theoretically start in 2 years following a successful scoping study, this is something that can start right away. We have to work within our limits to continue 1G-E; the continuation of 1G-E is not covered by any budget of the EGDI-Scope-project.

The scoping study should help in determining which customers are interested in this kind of data and whether it matters to them that it is harmonised or not. However in the end this is a voluntary exercise in which nobody is required to provide high resolution data in a similar fashion to their neighbouring country.

It is an effort but it is worthwhile, as we have seen with INSPIRE. The added value would be at least interoperability. If at a later stage we go for a big harmonisation project, funding could be possible through the Art.185 on geosciences if and when it becomes operational.

The SIEG can prepare an overview of the work that has to be done for each country that is missing and evaluate what it will take. However this is a decision that has to be taken by EGS. Many geological surveys are ready to provide data so this could be done by the end of the year if it moved forwards quickly.

Four surveys (BGS, BRGM, GEUS and TNO) had initially offered to provide resources to continue 1G-E and several others became willing to contribute in kind straight afterwards. If 1G-E is brought to a higher resolution it could serve as the backbone of the EGDI.

As there is a General Meeting of the Directors in September, it is suggested that the SIEG write a proposal on how to move forward to be evaluated by the Directors. It should include some technical content with the main implications. A concept note has already been prepared but needs updating. It could also include some cost estimates.

Mr Venera: if the countries missing are willing to cooperate and others are able to help then a vote of other Directors that are not involved may not be necessary. The Czech Geological Survey can provide consultations on metadata.

Mr Halamic: Croatia can contribute with data up to 1:300,000 and have been offered help to do this.

In summary, the SIEG will prepare a proposal for the Directors. Then we have to determine what resolutions could be achieved and the possibilities for harmonisation. Funding is then to be found. All EGS members will be asked for interest in being involved in the 1G-E+ management.

ACTION SIEG: Draft a proposal on how to take forward the continuation of 1G-E (1G-E+) for the next EGS General Assembly to be held in September 2012. It should contain some technical content with the main implications and costs involved. To be distributed to the Directors via the EGS Secretariat at least three weeks in advance of the General Meeting.

Item 10: Discussion and debate

A general discussion on EGDI-Scope ensues. A general approach to the project has been formulated. Any additional comments on the presentations in the near future are welcome. The ways in which all EGS members can contribute will become clearer as the study moves forward.

Mr Venera recommends a very delicate approach. We all want to work towards a common goal, however budget constraints may limit those not involved directly in the consortium. Also the different positions of different NGSO's with regard to capacity and resources should be taken into account. The consortium is expected to work in the interests of all surveys and for the ultimate benefit of us all with a full EGDI.

Mr van der Krogt completely agrees and adds that the consortium members are also investing a lot into this, because EGDI-Scope is a relatively small (scoping) project and only part of its activities are covered by EC-funding. Also a significant amount of the budget was reallocated from each consortium member towards the reimbursement of travel costs for the surveys to ensure every member of EGS would have the opportunity to take part.

Thanks are expressed to the consortium for their hard work in putting together this project. Everyone hopes that the discussions will continue and that communications remain open.

Item 11: Wrap-up, planning of meetings, closure

Mr van der Krogt believes the European geological community is in a unique time with great opportunities. This project is a pillar of the Art.185 bid which could be a great help to our financial troubles, because very significant budgets are involved. In the next few years, all surveys will have to put extra effort into obtaining the goals we strive for. There will be that extra burden but we are working towards a future of unprecedented international cooperation with unique opportunities for the geological surveys to increase their role in European policy and society. Hopefully in two or three years we will look back with satisfaction on what we have achieved.

All participants are invited to have a drink and many thanks are expressed to EGS for organising the venue and logistics.

Schedule of forthcoming meetings related to EGDI-Scope in 2012:

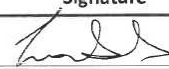








- o 17 September 2012, Steering Group (EGS ExCom), Vienna
- o 27 + 28 September 2012, Executive Board (consortium project members), Paris
- o 12 November 2012, EGDI-Scope Progress Meeting (consortium only), Brussels
- o 13 November 2012, EGDI-Scope Progress Meeting (consortium + NGSOs / Expert Group-representatives), Brussels
- o 14 November 2012, EGDI-Scope Stakeholder Forum, Brussels

Meeting ends at 17.45

3) Executive Board/ project team Meeting 27/28-09-2012

27-28 September, BRGM, Paris

List of participants

Name	Partner	27 September	28 September	Signature
Luca Demicheli	EuroGeoSurveys	X	x	
Claudia Delfini	EuroGeoSurveys	X	X	
Patrick Wall	EuroGeoSurveys	X	X	
Katleen Janssen	K.U. Leuven	X	X	Attended 27 Sept. only
Jørgen Tulstrup	GEUS	X	X	
Mikael Pedersen	GEUS	X	X	
François Robida	BRGM	X	X	
Jean-Jacques Serrano	BRGM	X	X	
Rob van der Krogt	TNO/GSN	X	X	
Richard Hughes	BGS	X	X	
Kathryn Lee	BGS	x	X	KALee

Agenda

Thursday 27 th September, 2012		
10:30 – 11:00	Opening**) general announcements and communications communication with PO agenda, minutes	Rob van der Krogt, all
11:00 – 11:25	Financial and administrative issues Contract Consortium Agreement/ role NGSO's Payments Travel costs NGSO's Other...	Rob van der Krogt, all
11.25 – 12.00	Feedback from EGS Board and Director's meetings Update EGS Strategy Feedback of other relevant items Needed actions (+specification of this meeting's agenda)	Luca Demicheli, all
12.00 – 12.20	Feedback from EGS-SIEG	François Robida
12.20 – 13.00	Stakeholder Consultation (Proceedings WP2) Stakeholder Panel (objectives, selection, members, roles/tasks) Stakeholder Forum (objectives, selection, members, roles/tasks) Draft report	Mikael Pedersen, all

	Other...	
13:00 – 14:00	LUNCH	
14.00 – 14.30	Stakeholder Event 14 November (program, invitations, communication)	Mikael Pedersen, all
14.30 - 15.15	Prioritization of Datasets (Proceedings WP3) Inventory previous and ongoing (European) projects Inventory relevant datasets: (specific) PANGEO	Katy Lee, Rob van der Krogt, Luca Demicheli, all
15.15 – 15.50	Proceedings 1GE+ Organisational, funding Workplan and contents Connection EGDI	Richard Hughes, François Robida, Luca Demicheli, all
15.50 – 16.15	3D-workshop 24/25 October, Germany	Rob van der Krogt, Katy Lee, all
16.15 – 16.35	Break	
16.35 – 17.10	Evaluation of existing interoperable infrastructures (Proceedings WP4)	Jean-Jacques Serrano, all
17:10 – 17:30	Legal and Organisational aspects (Proceedings WP5)	Katleen Janssen, all
17.30 – 18.00	Communication & Dissemination (Proceedings WP6) Website Report: Comm. and diss. strategy	Claudia Delfini, Luca DeMicheli, all
18.00 – 18.20	Relationship/ cooperation EPOS – EGDI-Scope	All
18.20 – 18.45	Preparation of meeting on “Forward Look to a Roadmap for Earth Sciences in Europe” (part I, mindset/ preparing for session tomorrow) Items: Position, participation and objectives of EGS and EGDI-consortium members in this meeting; Subjects & our interpretation: Top science priorities Expected (societal) impact of Earth Sciences (connected to identified key stakeholders) What infrastructures are needed? Added research value in Europe (EU- and (inter-)national programs)?	All
18.45	Closure day 1	
20.00	DINNER	

***) all items: Issues? Objectives? Decisions? What do we need? Actions?

Friday 28 th September, 2012		
9:30 – 11:15	Preparation of meeting on “Forward Look to a Roadmap for Earth Sciences in Europe” (part II)	All
11:15 – 11:30	<i>Break</i>	
11:30 – 12:20	Preparation Progress Meeting 13 November, Brussels (including all NGSO-representatives) Issues & objectives Involvement and communication with NGSO’s Program Venue and organisation Other...	All
12:20 – 13:00	Wrap-up, further planning Planning meetings with members Stakeholder Panel Upcoming events Relevant EU-calls/ consultations Any other business	All
13.00	Closure day 2	

Minutes

Day 1: 27 September 2012

Item 1 – Opening remarks

Mr van der Krogt reviews his meeting with the EC Project Officer Wim Jansen.

Mr Jansen had some reservations about the inclusivity of DGs in the Stakeholder Panel, he also seemed to be sceptical about the individuals suggested for the Stakeholder Panel but was very vague about this. We are trying to involve all the stakeholders and relevant policy-makers. Connection with DG CONNECT is not so strong but through discussions they realised the objectives are similar – DG CONNECT want to build e-infrastructures to aid European policy making; while our project is just a scoping study they are positive that if we produce a solid implementation plan then there is good possibility of further funding from DG CONNECT for developing the full EGDI. They showed little interest in other initiatives and projects but are not against us consulting and involving outside parties to help produce the implementation plan.

The EC Consultation on Research Infrastructures is discussed. The consortium members should all contribute to their national responses. The EGS General Meeting agreed that the EGDI-Scope consortium would be the best suited group within EGS to draft a response on behalf of all EGS members. This should be reviewed by the EGS National Delegates before submission. National surveys can then copy the text if they wish for their own submission.

Action 1.1: Mr Hughes to disseminate the consultation to the consortium members.

Action 1.2: Mr van der Krogt to draft a response to the consultation, for review first by the consortium members followed by the EGS National Delegates.

Item 2 – Financial and administrative issues

The contract is now finalised.

The consortium agreement is almost finalised. There were discussions on how to involve other partners outside the core group. The contract will allow us to provide all NGSOs with all the information we have/produce and provides flexibility in how we can involve the surveys.

The first payment has been received by TNO (55% of the total funding) and will be distributed promptly to members of the consortium.

Travel cost guidelines for NGSOs have been drafted by Mr Demicheli and Mr van der Krogt. These need to be very clear so that people cannot take advantage of the refunds.

In terms of stakeholders, there is no need to fund their travel costs. They should realise that we are working towards a service that should be of benefit to them. Funding for members of the stakeholder panel was originally foreseen in the budget but this could be redistributed within WP2 to help finance other GEUS/EGS activities.

Action 2.1: EGS to circulate the travel refund guidelines to all NGSOs.

Item 3 – Feedback from EGS Board and Director’s meetings

Mr Demicheli reviews the outcomes of the recent EGS ExCom and General Meeting in Vienna.

Membership fees was a divisive issue, it became a discussion more on the role of EGS in Europe and whether the overall budget and activity should increase. In the end there was a unanimous decision on the new rates determined according to the member’s salary and wages expenditure, which should not affect the finances of EGS too significantly for the time being.

There was also a unanimous decision to work towards an Article 185 on geosciences, but first to launch an ERA-NET. We have to prepare a roadmap by the end of the year showing our plans very clearly to present to the EC. A strategy meeting is being organised in Bratislava on 15-16 November 2012. EGDI-Scope should be involved at least as an observer as we could make a valuable contribution. The only effect on the EGDI-Scope work would be that we should integrate a link to the possible ERA-NET with a view to it becoming an Article 185.

The EGS Mineral Resources Expert Group (MREG) is preparing a bid for a European Minerals Intelligence Network (provisionally entitled EMINENT) through the last FP7 Calls, to be submitted in December 2012. EGDI-Scope could review the content of the proposal and possibly make some suggestions or provide input. Many members of the EGDI-Scope group are involved in this.

The Marine Geology Expert Group (MGEG) is preparing a proposal concerning Mediterranean seabed mapping. This is being led by BGS.

BGS are also preparing a bid for a tender on European mineral statistics.

Action 3.1: A coordinated review of the EMINENT proposal will be done before November meeting if possible.

Item 4 – Feedback from EGS-SIEG

There has not been an EGS-SIEG meeting since the launch of the EGDI-Scope project. There will be a meeting in Brussels mid-November. They will also discuss EGDI-Scope and 1G-E+ amongst other topics. It is suggested to arrange a separate meeting of the EGS-SIEG to deal specifically with EGDI-

Scope developments as the agenda is quite full, either joined on to the arranged meeting or else at another date (perhaps in December).

Item 5 – WP2

Mr Pedersen reviews developments in WP2.

Letters have been sent to potential members of the Stakeholder Panel inviting them to take part. Some have already replied positively whilst we are still awaiting answers from others. Manuela Soares of DG RTD has declined. We should try to find someone else from DG RTD.

Invitations have also been sent out for the Stakeholders Forum.

While Mr Jansen had expressed reservations about the need for individual meetings with the Stakeholder Panel, rather than just having a Stakeholder Forum to keep them informed, it was explained to him that these individuals are particularly important and we wish them to understand our project and objectives very clearly. In turn they will be able to inform us of how useful our project is and where to focus our efforts for a successful outcome. We should also be prepared to make a distinction as to why those in the panel were chosen to those who were only considered for the forum. This may be raised in November during the forum. Both of their roles need to be very clear.

The point is raised that sometimes it is difficult for EC officials to give opinions which could hamper their participation in the Stakeholder Panel, however they have signed an agreement to take part so this will hopefully not be an issue.

The relevance of the EGS EG Chairs being in the Stakeholder Forum is questioned. As they are heading groups that are involved in many large projects it is important that they remain in the loop. Important to note that they are not representing their own survey, they are representing experts from many surveys.

In the questionnaire we should add what kind of data is needed and at what level, i.e. first pan-European level, also international scale? Important to note that we will not be adding data to what exists, we will be organising it under one umbrella.

It could be useful to contact the coordinator of the Stakeholder Consultation WP of 1G-E from BGS. Their experience could be of great use in our efforts.

The questionnaire may not interest many people but hopefully it will give us an indication of who should be contacted for follow up interviews. The most useful feedback will probably come from direct talks and interviews with stakeholders as well as the forum.

Mr Pederson, van der Krogt and Demicheli to meet stakeholder panel members; Mr Robida to join for meeting with Alessandro Annoni.

Ms Janssen feels we should be careful about data protection when distributing the questionnaire – we should have a form attached to clarify this. Suggests that the WP leaders check what procedures are in place in GEUS.

EGS will take care of general registrations for the progress meeting and stakeholders forum.

The Stakeholder Panel should be an advisory group of external (non-geological survey) stakeholders, engaged for the whole project duration. The Stakeholder Forum should be a consultative body, open to anyone that can come and go as they please attending only the stakeholder forum meetings. If a member of the Forum wishes to join the Panel this should be agreed on by the consortium, however it should not involve geological surveys. We should make it clear to the NGOs that they will not be involved in the Panel as it would be a conflict of interests. It should remain an external advisory body.

If there is NGSO involvement in the Forum, they should not be representing their surveys but instead relevant projects to the EGDI.

Action 5.1: Mr Demicheli to call Peter Crawley about his participation in the Stakeholder Panel.

Action 5.2: Mr Demicheli to check for another possible Stakeholder Panel member from DG RTD.

Action 5.3: Mr Pederson to distribute email from Isabel Fernandez to the consortium as it contains some very positive remarks on the project.

Action 5.4: Mr Pedersen to distribute draft questionnaire when ready for detailed comments from the consortium members.

Item 6 – Stakeholder Workshop, 14 November 2012

We must be sure this is different to the previous day's meeting so that there is no duplication. All NGSO representatives should be welcome and interested to stay on for this after their meeting the previous day – however they should be aware that the workshop is mainly to hear feedback from external user requirements, NGSOs should perhaps be observers at this.

Wim Jansen should be invited and given a platform to address everyone.

Some repetition will probably be unavoidable as we will have to brief the stakeholders on the project and developments so far.

It is suggested that nobody should be financed for attending the Stakeholder Workshop.

Workshop structure:

General introduction of EGDI-Scope (including political landscape, background to project)

Objectives of EGDI, the workshop, SF, SP etc.

Why they need information (use cases)

How they use the information

Breakout sessions with focussed questions to address

Two suggestions for presentations so far – EFG and PanGeo. They are invited to give input, comments and advice for our project, however they are not there to promote their own initiatives and activities. EFG should not be given time for an address, however if PanGeo want to present their project in relation to ours this could be possible. We are involved in many projects ourselves so we can prepare presentations to give a brief overview of the relevant work ongoing (1G-E, PanGeo, GeoSeas...) – these can be included in the political landscape during the introduction session.

How to give the SP a role in the meeting: we see who will attend and maybe one of them could speak, but this would not be representative of them all. If Slavko Solar attends on behalf of Mattia Pellegrini perhaps he will be able to make a presentation from the Panel's perspective. While other suggestions are still welcome, this is agreed as the most probable solution. This will be raised with the SP members when Mr Pederson talks with them.

The SP need to be organised in some manner, for example with a chair or secretary from the consortium perhaps. This should be discussed with them once the group is finalised to determine how they will operate.

Action 6.1: Mr Wall to send invitations to NGSOs with the dates and purpose of the Progress Meeting and Stakeholders Workshop by the 2nd October 2012.

Item 7 – WP3

Ms Lee reviews progress in WP3.

NGSOs have many datasets, remains to be seen how many will participate in the questionnaire. Most surveys should have some kind of data analysis like the one BGS have done (shown in ppt). This is however a very good example of what we would like to know. The issue remains that this might take quite a few surveys a few days to compile the data.

There is also a European flood alert system operated by the JRC that does not use geological data, but we may look at signing an agreement with them concerning this.

The questionnaire should be distributed but we should be prepared that we do not receive all the information we want. This is quite a big ask of surveys so we have to see how to get as much as possible out of this without painstakingly having to follow up constantly.

It is suggested to send the BGS example along with the questionnaire to demonstrate what information we are looking for.

INSPIRE is doing similar work so instead of duplication we can consult the INSPIRE representative from each survey to see what is available.

Any further suggestions should be sent to Ms Lee.

Action 7.1: EGS Secretariat to send Ms Lee the communication details for her to circulate the full inventory to the wider community once the consortium comments are received.

Aside: the email Mr van der Krogt and Demicheli sent to Ren Capes more or less concluded the relation between EGDI and PanGeo. Any portals that want to be sustained should become integrated into 1G-E, which should be maintained by EGS.

Item 8 – 1G-E+

At the EGDI-Scope kickoff meeting, it was decided Mr Robida would draft a proposal on the continuation of 1G-E+. This was not done prior to the EGS General Meeting in Vienna at which Tirza van Daalen surprisingly made a presentation on 1G-E+ and Marko Komac suggested that the Czech Geological Survey coordinate its continuation, contradicting our previous discussions on its continuation.

It was previously uncertain as to who could or would contribute to the continuation apart from the four that proposed to put forward cash. The Czechs had said they did not have resources to put forward but were nonetheless interested.

Mr Komac has been contacted by CGS saying they do not have the resources and asking where the funding will come from. Following discussions with Ms van Daalen, we should contact Mr Komac and hope that he will solve the situation.

Previously in the Utrecht meeting BGS had said they could coordinate. Then in Brussels Ms van Daalen said TNO could do it. Now CGS has been put forward by the Directors. From BGS, they would not accept paying for another survey to do work that they could do themselves. Mr Hughes would be happy for GEUS to coordinate.

Mr Robida points out that it is normal custom that the Chair of the relevant EG leads the project. However for various reasons it is probably not suitable for him to lead for BRGM, therefore the decision could go to the SIEG to see who is willing and able to lead it.

What we decided previously is that everyone interested in contributing, whether in cash or in kind, would decide amongst themselves who should lead. The fact remains that there has been money put forward and nothing is being done.

Action 8.1: Mr Demicheli to call Tirza van Daalen immediately to settle this issues with 1G-E+.

Aside: the taking of minutes of the meetings should be spread across the consortium members. Mr Demicheli makes the point that Mr Wall took minutes at the previous meetings in Brussels as well. All agree that this task should be shared.

Item 9 – 3D workshop 24/25 October, Germany

We have been invited by Gerold Diepolder (Regional Survey of Bavaria) to a workshop on 3D Geology. It is debated whether we should we attend as EGDI-Scope partners to exchange information and make a presentation. Most of the workshop is in German however and focused on German issues. There will only be one or two other presentations in English. Ms Lee will be attending.

It is decided to present EGDI-Scope if possible during the workshop and particularly the relation to 3D modelling.

Item 10 – WP4

Mr Robida reviews WP4 developments.

Mr van der Krogt raises two questions on the four schemes presented:

- Should we use different schemes for different branches of the EGDI or should we have one or two only? It could be good to have different schemes tailored to the different branches of the EGDI. This is something we probably cannot answer now but should be kept in mind as things develop.
- We should start simple but we also need to describe different stages and not just the end picture.

It is suggested to look at other projects which are not portals as well. For example GEUS have worked on projects from which, while the data is confidential, we can get ideas how these projects operate in terms of how useful they are to the end users such as oil companies etc.

We should pose this question to all the surveys. Perhaps they can give us some good ideas for the architecture of the EGDI in terms of user interfaces.

Action 10.1: Mr Serrano to circulate the schemes and definitions for comments.

Item 11 – WP5

Ms Janssen presents an overview of WP5 developments.

The first task on trust and authentication should be done by May 2013 (due for month 12) but there should be a draft circulated earlier.

In the Stakeholder Workshop perhaps there should be a short but strong message on what legal challenges exist. Ms Janssen thinks we could include some questions to the SF on this topic, but these are more for the data providers rather than the end users. From the stakeholders it is more a question of what they can and cannot do with the data.

We should keep the questions very simple and focus on the questions we really want answered like prioritisation of datasets. The discussion in the SF should focus on whether we should just create something based on open datasets or whether we should include everything.

In the end we need an implementation plan but there should also be a roadmap.

Item 12 – WP6

Ms Delfini reviews WP6 progress and demonstrates the web-based management tool.

While the WP leaders will have full rights, other registered users should only be able to view and download documents (e.g. NGSOs).

The SF and SP will only be able to download final documents published on the website. If the SP needs to be consulted on draft documents they can be sent on a case to case basis.

The cost reporting is not necessary as it would be duplicating the work done on official EC financial reporting documents. We can just upload copies of these documents once they are finalised at the end of each financial reporting period.

Mr van der Krogt questions whether EGS will be able to fulfil all the initiatives outlined, but Mr Demicheli is confident we have the manpower to achieve our goals.

A question is posed to the consortium which address should be used for the letter head: EGS or TNO? It is decided to stick with the EGS address.

Mr Hughes points out that social media can be a big player in disseminating data without much effort, demonstrating the example of his blog which has found its way onto Facebook and Twitter through just one post.

Action 12.1: Ms Delfini to distribute the example of the website and communication strategy for comments.

Action 12.2: Ms Delfini to request all consortium members to give their opinion on rights of the intranet users.

Item 13 – Relationship/cooperation EPOS – EGDI-Scope

Mr van der Krogt presents an overview of where EGDI and EPOS interact. We are for the moment a very broad project in terms of our focus. EPOS is very much a solid earth science focussed initiative, with much more specific themes. Common interests involve integrating geological databases, themes of solid earth systems and connected hazards, and the relevant academic/research user communities.

Comments:

It is very useful to have this shown graphically to have a quick picture of these interactions. Maybe we should develop a picture focussing on which data EGDI takes into account and which data EPOS deals with. Some data of interest to EPOS is probably not of interest to EGDI. We should make a clear distinction that we deal with certain data that they do not and vice versa, with the possibility of some overlapping areas where necessary as long as we do not compete for the same data. We should not rule out that they can deliver data to policy makers.

EPOS would probably be a subset of the data we already own. The concern is that if there is an EPOS infrastructure as well as an EGDI one, the EC probably will not fund both. It is felt more likely they would fund EGDI over EPOS, but there remains a risk to this project if EPOS becomes a competitor to EGDI. Engagement is necessary to avoid this becoming competitive.

We can expand on the graphic developed by TNO and discuss this with EPOS. Anna Maria Johansson, who is in charge of funding EPOS, is very enthusiastic about EGDI which is encouraging. EPOS seems to be lacking direction and people are losing faith in its potential.

Day 1 closes.

Day 2 – 28 September 2012

Mr Demicheli contacted Tirza van Daalen. She has apologised for her actions concerning 1G-E+, explaining what occurred at the EGS GM was a last minute request from Mart van Bracht. She requested a teleconference with Mr Demicheli, Hughes, Robida and Tulstrup next week.

Item 14 – Roadmap for Earth Sciences in Europe

Mr Demicheli briefs all on the background to this meeting. It seemed to be an EPOS initiative led by John Ludden (BGS Director) but is in fact much broader than EPOS. EGS initially decided not to go in an official manner, but following private discussions between the EGS ExCom and John Ludden at the GM it was decided by the Directors that EGS would attend with an official delegation (which Mr Demicheli will not be part of). The Directors are wary of EPOS as some feel it is an exclusive initiative. Jerzy Nawrocki (PGI-NRI Director) along with EGDI consortium members will represent EGS at the meeting.

Comments:

In Denmark the University of Copenhagen are leading on EPOS but GEUS are still involved as well as two other organisations so is different from the case of Poland, where PGI-NRI have not been allowed to participate. It is mainly a problem in countries which have strong geophysical institutes. There are only four geological surveys involved in EPOS.

Mr Hughes presents the website set up for the Earth Science Europe initiative (www.bgs.ac.uk/earthscienceeurope).

Mr van der Krogt has received an invitation for EGDI-Scope and will attend.

As EGDI is part of the EGS strategy, we can represent EGS in general as well as the geological surveys. The GSI Director will also be there representing another project. We need a strong backup for Mr Nawrocki to be the voice of the NGSOs at the meeting, but should be careful not to bring up the tension between the NGSOs and EPOS.

Discussion on the stance both from the perspective of EGS and of the EGDI-Scope project:

- We could communicate the connection between our project and this roadmap
- Also how the EGS strategy comes into play (Mr van der Krogt to coordinate this aspect with Paul Bogaard)

The invitation-only policy has made the feeling of exclusivity towards many surveys stronger. BGR have been invited which could further anger many surveys. The Czechs, Ukrainians, possibly also the Danish have requested to attend – the EGS Secretariat (Woody Hunter) is collecting a list of those who want to attend.

So far those who will attend:

- Jerzy Nawrocki
- Rob van der Krogt
- François Robida
- Jørgen Tulstrup (tbc)
- Paul Bogaard
- Zdenek Venera
- BGR representative?

Once the list is finalised a teleconference should be organised so that all attending have a similar perspective and position.

Our message: It is clear that the EGDI should be a pillar of this roadmap and make it clear that there will be an ERA-NET on geosciences in the near future which all will be consulted on for contributions (i.e. make it clear that we will be very much inclusive in our activities).

At the moment there is very little information about what they have in terms of their technical capabilities and structures in place – we should open communication with them as we will be developing our implementation plan with all the relevant structures that are out there in mind.

Topics up for discussion at the meeting:

- i) Top science priorities
- ii) Societal impact issues
- iii) What infrastructures are needed
- iv) Added research value in EU/International programs

Comments on these topics:

- i) This is one for top scientists to address. This could be one for EGS to address on behalf of the top geoscientists in the NGSOs rather than EGDI-Scope.
- ii) Resource security and environmental change are areas where we can offer a lot, whilst natural hazards is another area but is a strong EPOS area too. Suggestion to add active faults in Europe to 1G-E with cooperation from EPOS. Stakeholder involvement in EGDI to address this also.
- iii) First we should see what infrastructures are already in place. 1G-E, EuroGeoSource at a European level; national infrastructures and datasets also exist; all Surveys are involved in INSPIRE obligations. We can also demonstrate (using Mr Serrano's ppt slides) a short outlook for (future) e-infrastructures.
- iv) Infrastructure is required for this.

EGDI ↔ EPOS

- EPOS to “take over” data infrastructure? NGSOs are the ones that are capable to maintain and update data consistently.
- Legal mandate on national scales with NGSOs.
- EGDI is supported by all NGSOs.

It is agreed we should not appear defensive at the meeting as it would appear we have something to hide. We should really go to show what are our capabilities and how we can add value to European geoscience. We should also try to promote the stakeholder forum meeting while there.

Action 14.1: Proceed as such in preparation for the Roadmap for Earth Sciences in Europe meeting:

- Monday or Tuesday (1/2 October) Mr Demicheli gives a list of those attending
- By end of next week Mr van der Krogt will have a draft presentation summarising the messages we want to get across. Everyone will have the opportunity to comment.
- Whether we have a presentation or are just involved in discussion we will be well prepared with a clear vision for all our participants.

Item 15 – Preparation for Progress Meeting, 13 November 2012 Brussels

Proposed agenda items:

- Project proceedings 10h-13h
 - o WPs
 - o General items
 - o Intranet demonstration
 - o Statement of openness

- Lunch 13h-14h
- Forward look scientific research topics
- Preparation of stakeholder meeting (WP2 presentation)
- EGS – general proceedings incl. 1G-E+
- Networking cocktail

Item 16 – Wrap-up, further planning

Next meeting

Rome suggested for next meeting following the Brussels one in November.

4&5 March 2013 decided for next consortium meeting in Rome.

Thanks to Ms Delfini for offering to host the meeting at ISPRA.

13&14 June 2013 suggested for following meeting of consortium in Copenhagen. To be confirmed by GEUS.

Item 17 – AOB

USGS to be excluded from SF:

Mr Demicheli explains a recent altercation between EGS and USGS at a EU-US meeting discussing transatlantic cooperation with a focus on geology and in particular mineral resources, in which EGS had been invited by the EC to advise them during the meeting. However the US delegation, headed by the USGS, demanded that EGS leave the room when it came to the stage of negotiations. The EC attempted to insist that we remain but the USGS representative would not accept this as EGS is not an official EU body. The EC as a result refused to discuss geological issues in the negotiations. The JRC however offered to try to cover any technical aspects.

It is of general belief that the USGS is interested in trying to keep our organisation weak while they negotiate agreements with the EU.

The EGS ExCom will send a letter of discontent. The USGS will no longer be invited to the SF.

Question of whether the EGS EG Chairs should be receive the same travel funding as the one representative nominated from each survey:

All agree that they should not receive travel funding if someone else from their survey is already attending.

Action 17.1: Mr Demicheli to contact Clemens Reimann and Jan Høst concerning travel refunds.

4) Executive Board/ project team Meeting 12-11-2012

Monday 12 November 2012, Brussels, Belgium

Participants

Name	Partner	Signature
Luca Demicheli	EGS	
Claudia Delfini	EGS	
Patrick Wall	EGS	
Katleen Janssen	K.U. Leuven	
Jørgen Tulstrup	GEUS	
Mikael Pedersen	GEUS	
François Robida	BRGM	
Jean-Jacques Serrano	BRGM	
Rob van der Krogt	TNO/GSN	
Marlies Schijf	TNO/GSN	
Richard Hughes	BGS	
Kathryn Lee	BGS	

Participants absent

None

Agenda

12:00 – 12:30	Registration/ sandwich lunch	
12:30 – 13:00	Welcome, opening**) general announcements and communications communication with PO agenda, minutes	Rob van der Krogt, all
13:00 – 13:15	Financial and administrative issues Consortium Agreement/ role NGSO's Payments Travel costs NGSO's Other...	Rob van der Krogt, all
13.15 – 13.40	Transparency/ communication with regard to surveys	All
13.40 – 14.15	Strategic issues, feedback from meetings:	All

	Roadmap Earth Science meeting, Paris Consultation research infrastructures 1GE+ EGS proceedings 3D workshop Germany Other	
14.15 – 15.45	Final preparations Progress Meeting Surveys Participation Logistics Presentations Finalization of the program: Welcome, General introduction Proceedings WP3,4,5,6 Transparency Intranet & use Strategic issues, relevant developments (Roadmap ES meeting Paris, consultation research infrastructures, 1GE+, EGS proceedings ...) <i>Lunch</i> Proceedings WP2 Preparation stakeholder meeting 14 Nov.	All
15:45 – 16:00	Break	
16.00 – 17.55	Final preparations Stakeholder Meeting 14 Nov. Participation Logistics Presentations Finalization of the program: (items: see preliminary program that was sent around earlier)	All
17.55	Closure	

**) all items: Issues? Objectives? Decisions? What do we need? Actions?

Meeting items

Item 1 – Welcome, opening

General announcements and communications. The meeting starts at 13:10. **Rob** starts the meeting by welcoming everyone and comments that a lot of work was done since the last meeting. He emphasizes that the project team should be as much service oriented as possible towards the stakeholders over the next days.

Patrick asks if anyone is interested in going to an event on mathematical geology. He can provide specific information.

Communication with PO.

Rob reports on his communications and meetings with Wim Jansen, the responsible Project Officer for the Commission for EGDI-Scope.

Agenda, minutes. The minutes of the EGDI-Scope Executive Board Meeting on 27-28 September at BRGM in Paris are screened. One item needs to be corrected by **Patrick**.

The agenda for the day is checked and adjusted where necessary.

Item 2 – Financial and administrative issues

Consortium Agreement/ role NGSO's.

The CA is finished and agreed upon.

Payments. Consortium partner payments can take place now that everyone sent their financial information.

Travel costs NGSO's. The travel costs per participant are discussed and the participants are to be informed in the next two days of the decisions. There are three issues:

1. The number of representatives per participant to be refunded;
2. The maximum reimbursement per participant;
3. The approach in the above issues for surveys versus stakeholders.

1. The following rule was decided on: per meeting 1 representative per survey only is paid for. Based on this rule there are two requests for exception.

2. **Luca** lowered the foreseen costs in the DOW (max. € 550 per day/per person) to € 350 per day/per person. It was complained that this is unfair and not realistic. Costs differ per participant depending on the travelling distance and location (easy/difficult to reach). It is decided that in case of higher costs than € 350 per person/ per day expenditures are covered, only in case of proof that these are not due to late booking. This rule only applies to surveys who are expected to participate.

3. **Luca** states that there is budget for reimbursement for all surveys, but in addition only for 13 members of stakeholders. It is unethical to refund one and not the other.

Rob takes the following decision: There is a difference between stakeholders and representatives of surveys. We expect surveys to participate and therefore they should be refunded. In addition, the chairs of the expert groups are must-have participants and should be refunded as well. Other stakeholders will in future not be refunded (as was the case for Insurance Europe for the upcoming stakeholder meeting). Moreover, a statement is needed that for stakeholders the strategic step to be present is worth the travel costs. If the stakeholder does not see it this way, it is questionable what the value of their presence will be in the first place.

Item 3 – Transparency/ communication with regard to surveys

The consortium agreement is adapted with regard to involvement of the surveys.

A decision on effective communication via different media (internet, intranet, brochure) is needed.

Claudia remarks that she will present the intranet tomorrow in the progress meeting. **Patrick** summarizes that this was discussed in Paris. Everyone from the survey community can view and download. The core team can edit documents as well. **Jørgen** remarks that only content should be viewable for surveys but that financials should only be visible to the core team. The stakeholder panel and forum can only access the internet website.

Claudia asks which documents should be uploaded on the website. All content is final and only the domain still needs to be bought as soon as we decide on the name. EGDI is not available as a domain name, but EGDI-scope is. www.egdiscope.eu or www.egdiscope.com. **Luca** states as an assignment for everyone tomorrow: think of a new name.

Mikael remarks that the official mailing list for all parties involved should be made available. **Patrick** has the list but it should be available on the intranet. The list is secured so that it can only be used by someone who's in the list.

Item 4 – Strategic issues, feedback from meetings

Roadmap Earth Science meeting, Paris. **François** asks **Rob** what his impression was of the EPOS meeting in Paris. The community was mostly scientific. The connection with the surveys was not obvious. **Rob** replies that academics and surveys have two different perspectives on future research topics. Surveys are focused on applied science and academics not necessarily. EPOS and EGDI have different objectives but there are collaboration possibilities that should be explored. These organizations should be able to exist independently and serve different communities (policy versus science), as long as they keep connected to avoid duplication. **Luca** adds to the discussion that EPOS's

focus has drifted. They do not do plate tectonics alone. It should be discussed by EGS and EPOS what their scope is. EGDI should not say what EPOS should and should not do.

Jean-Jacques responds that EPOS wants to do the same as EGDI: create an international infrastructure. **Rob** replies that there are different kinds of infrastructures: EGDI focusses on a data infrastructure, while EPOS focusses on other types of research infrastructure. This is a clear message that we need to communicate to the EC. **Jørgen** suggests writing up a memo together with EPOS explaining that we are complimentary. **Rob** suggests that we can deliver input connected to the Roadmap Earth Science paper that will be issued as a result of the Paris meeting.

Consultation research infrastructures. At 22 October a questionnaire was delivered by EGS and some individual surveys to the EC on the vision of future national research infrastructures.

1GE+. **Richard** explains that the Czech survey was asked to coordinate OneGeology+ and they accepted. **Rob** says this should be communicated in the meetings the next two days. He remarks that OneGeology (and PanGeo) is a flagship project for EGDI. It is therefore essential that it outgrows the project status. External funding will guarantee sustainability.

3D workshop Germany. EGDI connected to this meeting because EGDI will take 3D modeling into account and therefore this is an interesting community. Michiel van der Meulen (Geological Survey Netherlands) came back with the message: the BGR (Bundesanstalt für Geowissenschaften und Rohstoffe) does not have the needed knowledge but the state departments do have this.

Other. Gerald of the Geological Survey Bavaria invited EGDI to go to the kick-off meeting on 21 November in Munich of a project on geomorphological modeling of the alpine area. They are building a new dataset. **Katy** and **Mikael** will talk to Gerald to decide whether he is a provider or a stakeholder. When he turns out to be the latter, they will invite him for a stakeholder group.

Item 5 & 6 – Final preparations Progress Meeting Surveys & Final preparations Stakeholder Meeting 14 Nov.

Participation. The programme for tomorrow is discussed. The participation list holds 31 participants for Tuesday (Progress Meeting Surveys) and 39 participants for Wednesday (Stakeholder Meeting).

Logistics. The logistics are finalized. After the meeting on 13 November there will be a small drink at 19:00 followed by a diner at 20:00.

Presentations. **Luca** will do the welcome address for EGS. **Rob** gives an impression of his general introduction for the meeting tomorrow. **Mikael** remarks that **Rob** should be prepared for questions based on not having all types of stakeholders involved. After **Rob's** presentation short presentations of WP 3,4,5 and 6 follow. Afterwards there will be time to discuss special issues such as stakeholder involvement.

After the break BGS gives an impression of their presentation of WP3 (Prioritisation of datasets). **Rob** remarks that BGS should make an example and discuss it within the group if this is the level of info we need from the data delivered. Mention tomorrow that you will have an example ready.

Next BRGM gives an impression of their presentation of WP4 (Technical design). They want to stress the collaboration with EPOS and other projects.

Next **Katleen** presents WP5 (Legal and organizational aspects). **Rob** asks whether it is decided that all data will be open. It has not been decided yet, but this is not considered manageable. By limiting to open source, a lot of data is out of scope. A matrix of all possible data types would clarify this.

Afterwards EGS presents WP6 (Communication & Dissemination). The presentation gives an overview of the restrictions based on the level of involvement of stakeholders/partners.

Finalisation of the programme. Everyone agrees on the programme. A short update from EGS is added to the programme. At 09:00 everyone will arrive to arrange the meeting space. For the break-out sessions **Rob** will lead the geohazard group, **Jørgen** the earth resources group and **Mikael** the environment,/water/climate group. It is decided that the stakeholders will wrap up the session. The questions for the sessions on Tuesday and Wednesday should be different. **Francois** will divide them for the two days. **Rob** will make the final adjustments to the agenda for Tuesday and Wednesday.

The meeting closes at 18:00.

Actions

The list below excludes the short-term actions that were decided for the meetings on 13 and 14 November.

<i>Nr.</i>	<i>Action</i>	<i>Responsible person</i>
1.1	Corrected and final minutes of previous meeting in Paris	Patrick
2.1	Consortium partner payments can take place now that everyone sent their financial information.	EGS
2.2	Communicate refunding strategy for travel costs to surveys and stakeholders	Luca
3.1	Deliver documents that should be uploaded on the website to Claudia	All
3.2	Decision: what will be the name of the website domain.	All
3.3	Official mailing list for all parties involved should be made available.	Patrick
4.1	Explore collaboration possibilities with EPOS and keep connected to avoid duplication.	All
4.2	EGS will discuss with EPOS what their scope is.	Luca
4.3	Clearly communicate to EC-representatives: EGDI focusses on a data infrastructure, while EPOS focusses on other types of infrastructure.	All
4.4	Deliver input to Roadmap European (Solid) Earth Science	Rob
4.5	Organize a (bilateral) meeting with EPOS (Massimo Cocco)	Rob
4.6	Talk to Gerald (Geological Survey Bavaria) to decide whether he is a provider or a stakeholder. When he turns out to be the latter, they will invite him for a stakeholder group.	Katy/Mikael
5.2	Provide matrix of all possible data types with pros and cons, based on basic requirements.	Katleen

5) Progress Meeting (full consortium) 13-11-2012

13 November 2012, Brussels, Belgium

Participants present & absent

Name	Country	Organisation	Signature
Annamária Nádor	Hungary	MFGI	
Carlo Cipolloni	Italy	ISPRA	
Claudia Delfini	Belgium	EGS	
Dana Capova	Czech Republic	CGS	
George Tudor	Romania	GIR	
Gerold Diepolder	Germany	BEA	
Fernando Pérez Cerdan	Spain	IGME	
François Robida	France	BRGM	
Hazel Napier	United Kingdom	BGS	
Jan Høst	Norway	NGU	
Jarmo Kohonen	Finland	GTK	
Jasna Sinigoj	Slovenia	GEoZS	

Name	Country	Organisation	Signature
Jean-Jacques Serrano	France	BRGM	
Jørgen Tulstrup	Denmark	GEUS	
Katleen Janssen	Belgium	KU Leuven	
Katy Lee	United Kingdom	BGS	
Kostas Laskaridis	Greece	IGME	
Lars Kristian Stölen	Sweden	SGU	
Luca Demicheli	Belgium	EGS	
Ludovit Kucharic	Slovak Republic	SGUDS	
Marcel Maruntiu	GIR	Romania	
Marlies Schijf	The Netherlands	TNO	
Martin Schiegel	Austria	GBA	
Mikael Pedersen	Denmark	GEUS	
Patrick Wall	Belgium	EGS	

Name	Country	Organisation	Signature
Peter Britze	Denmark	GEUS	
Pierre-Yves Declercq	Belgium	GSB	
Rainer Baritz	Germany	BGR	
Ray Scanlon	Ireland	GSI	
Richard Hughes	United Kingdom	BGS	
Rob van der Krogt	The Netherlands	TNO	
Tirza van Daalen	The Netherlands	TNO	
Waldemar Gogolek	Poland	PGI-NRI	

Agenda

09.30 – Registration

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

10.10 – Welcome Address on behalf of EuroGeoSurveys

10.15 – Introduction and general proceedings EGDI-Scope (Rob van der Krogt)

10.40 - Short update EuroGeoSurveys: meetings, decisions, strategy (Luca Demicheli)

10.50 – Proceedings per work package

- WP3 – Prioritization of datasets (Katy Lee)
- WP4 – Technical design and architecture of data infrastructure (Jean-Jacques Serrano)
- WP5 – legal issues, governance (Katleen Janssen)

11.30 – Coffee break

11.45 – Transparency, communication, internet/ intranet (Rob van der Krogt, Claudia Delfini)

12.05 – Strategic issues/ feedback meetings (Rob van der Krogt, Luca Demicheli)

- Roadmap Earth Science meeting Paris 17/18 October
- Consultation research infrastructures
- EGS meetings
- Follow-up OneGeologyEurope (1GE+)

12.30 – Lunch

13.30 – Stakeholder involvement and workshop program 14 Nov. (Mikael Pedersen)

13.50 - Break-out-sessions (3 Groups: 1. Earth Resources/ 2. GeoHazards/ 3. Environment, climate, water)

- inventory of possible 'use cases'
- requirements (functional, technical, legal) for a geological data infrastructure

15.15 – Reporting from break-out-groups and debate (all)

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

16.00 – Drinks

Meeting items

Item 1 – Opening and introduction (Rob van der Krogt, Coordinator EGDI-Scope)

At 10:00 Rob van der Krogt opened the meeting and welcomes everyone.

Item 2 – Welcome Address on behalf of EuroGeoSurveys

Luca Demicheli gives an update from EuroGeoSurveys. He gives an overview of the refunding options for travel costs related to participation in meetings by surveys. It was decided to be more flexible with regard to geographical constraints. Per meeting 1 representative per survey is paid for with a maximum of € 350 per day/per person. As there were some complaints that this flat rate is unfair and not realistic, there is the following exception: in case of higher costs than € 350 per person/ per day expenditures are covered, only in case of proof that these are not due to late booking. The same applies for the chairs of the expert groups.

Luca Demicheli continues with remarking that today some chairs of the expert groups have already joined but more will join in on the stakeholder meeting the day after. He himself will also be present again tomorrow and there will be time to share thoughts.

Luca Demicheli concludes by sharing that he sees a high interest in EGDI-Scope from EU institutions. The momentum is in favour of the project.

Item 3 – Introduction and general proceedings EGDI-Scope (Rob van der Krogt)

Rob gives an overview of the current state of the project. Afterwards there is time for a discussion:

- *Explain the difference in scope between EGDI-Scope and GAIA (project Generic Architecture for Information Availability, 1996-1998).*
François Robida (BRGM) answers that the difference is not obvious. Building on the experience of OneGeology Europe EGDI-Scope delivers a design and develops a funding strategy to build an infrastructure that will deliver global datasets on the European scale. In EGDI-Scope we deliver European datasets that cover a large part of Europe. It is still to be decided if national datasets will also be included.
- *The representative of the expert group geochemistry suggests to use their European dataset in the presentation as an example.*
- *Explain how you will plan to keep the project on-going.*
There is no solution yet. The solution lies with the successfulness of the results of EGDI-Scope. We are only preparing to build a standardized infrastructure, but funding for actually building the infrastructure has not yet been allocated. Long term involvement and sustaining and updating the infrastructure are a substantial task involving governance, technical issues and funding. Therefore part of EGDI-Scope is also to come up with an exploitation strategy and communicate this strategy to our stakeholders.
- *Do you have a structure for which you will ask funding?*
We have One Geology Europe as state of the art example, but we will still investigate whether we continue in that direction or need to make adjustments.
- *There needs to be a permanent body. Minerals expert group writes proposal, where commission asks for permanent body.*
Luca Demicheli answers that this issue of continuation is a key topic. Continuation is beyond the scope of EGDI-Scope. How to ensure we can sustain all the data collected for the eu projects. We can not rely on good will of project members. Longer term vision is being discussed strategically.

Tirza van Daalen (TNO); it's part of the EGDI strategy. Add: its much easier to sustain a project like this, because they are already aware of the loss of project data.

Francois Robida: we try to find a way to sustain not our own project but also all other future and past project data.

Jarmo Kohonen (GTK): who has the capacity to maintain and which parts. This needs to become clear. You are building something more sophisticated. Its one centralized thing.

Item 4 – Short update EuroGeoSurveys: meetings, decisions, strategy (Luca Demicheli)

News from EGS (Luca Demicheli). You have been informed after last kickoff meeting. Director general controls the money; negotiations for Horizon 2020 should include their interests. EU was not ready to take clear position during the discussions of Horizon 2020 yet. Within Horizon 2020 various initiatives have to be brought under ERANET programming: merging into one single funding program. This Thursday and Friday first meeting on ERANET. EGDI is one of the pillars for EGS strategy on creating ERANET.

In the meantime two other projects are being launched. 5m bid for doing marine geological project for dg-marine. Also a mineral intelligence network project. There is a call to create a permanent body. There is another consortium.

Commission is pushing for permanent self-sustainable projects.

Item 5 – Proceedings per work package

(presentations available via website EGDI-Scope)

- WP3 – Prioritization of datasets (Katy Lee)
- WP4 – Technical design and architecture of data infrastructure (Jean-Jacques Serrano)
- WP5 – legal issues, governance (Katleen Janssen)

Item 6 – Transparency, communication, internet/ intranet (Rob van der Krogt, Claudia Delfini)

(presentation on internal and external communication available via website EGDI-Scope)

Item 7 – Strategic issues/ feedback meetings (Rob van der Krogt, Luca Demicheli)

Items reported:

- Roadmap Earth Science meeting Paris 17/18 October
- Consultation research infrastructures questionnaire
- planning relevant EGS meetings
- Follow-up OneGeologyEurope (1GE+)

Item 8 – Stakeholder involvement and workshop program 14 Nov. (Mikael Pedersen)

(presentation available via website EGDI-Scope)

Item 9 – Break-out-sessions (3 Groups: 1. Earth Resources/ 2. GeoHazards/ 3. Environment, climate, water)

Item 10 – Reporting from break-out-groups and debate (all)

Item 11 – Wrap-up of the day and follow-up (Rob van der Krogt)

The meeting concludes after 16:00 with drinks followed up by a diner together with some of the stakeholders that will participate in the stakeholder meeting the day after.

6) Stakeholder Meeting 14-11-2012



14 November 2012, Brussels, Belgium

This meeting is reported in D2.2 (Appendix).

7) Executive Board/ project Meeting 26/27-02-2013

26-27 February 2013, Rome, Italy

Participants

Name	Partner	Signature
Luca Demicheli	EGS	
Claudia Delfini	EGS	
Patrick Wall	EGS	
Katleen Janssen	K.U. Leuven	
Jørgen Tulstrup	GEUS	
Mikael Pedersen	GEUS	
François Robida	BRGM	
Jean-Jacques Serrano	BRGM	
Rob van der Krogt	TNO/GSN	
Jacco Verstraeten-Jochensen	TNO/GSN	
Richard Hughes	BGS	
Kathryn Lee	BGS	

Agenda

Day 1

Tuesday 26 th February, 2013		
8:45 – 9:00	Walk-in	
9:00 – 9:30	Welcome, opening general announcements and communications communication with PO agenda, minutes Financial and administrative issues	Rob, all
9:30 – 11.30	Evaluation survey & stakeholder meetings 13/14 Nov Results/ translation into use cases/ user requirements evaluation stakeholder involvement (Panel vs. Forum)	Mikael, All

	planning stakeholder involvement next months	
11.30 – 11.45	<i>Break / Pausa</i>	
11.45 – 13.15	Strategic issues/ feedback from meetings: EGS proceedings and agenda Feedback Strategy Taskforce Follow-up roadmap Earth Science meeting, Paris 1GE+ Developments 3D modelling/ Raw materials Initiative etc. INSPIRE Inclusion O&G Industry? ...	Luca, Rob, Jørgen, All
13.15 – 14.00	<i>Lunch/ Pranzo</i>	
14.00 – 15.30	Prioritization Datasets Update recent activities/ Initial summary of available datasets approach follow-up and prioritization Connection stakeholder involvement, governance, legal, technical, etc. Feedback on IPR ...	Katy, All
15:30 – 15:45	<i>Break / Pausa</i>	
15.45 – 17.30	Infrastructure needs and design (part I) Discussion paper infrastructure needs (explanation/ elaboration) Approach for follow-up	Jean-Jacques, Francois, All
17.30	<i>Closure / Fine</i>	

Day 2

Wednesday 27 th February, 2013		
8:15 – 8:30	<i>Walk-in</i>	
8:30 –9:15	Communication Update on recent activities Ideas on closing event ...	Claudia, All
9:15– 10:15	Governance and legal issues Update on recent activities Governance : main models/ directions and framework EGS strategy Relevant exploitation models Consequences technical infrastructure ...	Kathleen, Rob, All
10:15 – 10:30	<i>Break / Pausa</i>	
10:30 – 11:45	Infrastructure needs and design (part II) Framework/ stepwise approach for development infrastructure ‘model’	All
11:45–12:00	<i>Break / Pausa</i>	
12:00–13 :10	Preparations for Directors Meeting EGS Prepare main lines of status document EGDI- Scope	Rob, All

13:10–13:30	Wrap-up, further planning Planning next meetings & Upcoming events Any other business	All
13.30	<i>Closure / Fine - Lunch/ Pranzo</i>	

Meeting items

Welcome

Rob welcomes everybody and opens the meeting at 9:45. Luca also welcomes everybody and apologizes for the president not welcoming everyone, as he is sick at home. The general director will probably be meeting us around lunchtime. Jacco Verstraeten-Jochemsen (from TNO) is introduced; he will replace Marlies Schijf as project management assistant.

Rob explains that his main focus for this meeting is streamlining the process of taking into account all different aspects of the infrastructure (tech options, user requirements, data sets, etc.) into a single approach. We need especially to think of a process, a way to make decisions to take all (internal and external) stakes into account and enable us to generate ideas while taking all external pressures into account.

There are a few announcements and a few changes of the agenda:

- Luca will be in Dublin next week at the “eyes on earth” meeting to introduce the EGDI-Scope project. He would like to discuss the content of that presentation during this meeting.
- Luca and Claudia will be absent from 10 to roughly 11:30. Luca will also be absent from 2.30 for roughly 20 minutes. Jean-Jacques will leave tomorrow at 12:30
- The meeting and agenda will be quite flexible to accommodate the appointments of Luca and Claudia.
- Also an important point on the agenda: a document to be prepared coming weeks for the EGS directors meeting.

Communications with Project Officer (DG Connect):

- The PO will not be able to join us in the spring meeting in Copenhagen
- He warned us for postponing results as this might influence the other upcoming deadlines. The work process should therefore be less linear and consist of more parallel work flows.
- Rob will inquire if there will be a mid-term review by the PO. It might already be in June, but Rob expects the PO to be flexible on this.

Financial and administrative issues:

- Reimbursements of travel costs of stakeholders participating in the workshops were limited so far to one person per country/GS. This resulted in one chair of an EGS Exp. Group who was excluded for travel funding. In the future, also EGS Expert Group Chairs will be allowed to have their travel costs reimbursed.
- EGS will provide an overview of total travel costs of EGS representatives thus far, before next meeting in Copenhagen.

Minutes

- There are no comments to the minutes.
- Claudia will check whether the presentations of 13th and 14th November (last versions) are available on the intranet.

Other issues

- There are no other options available for the website domain than www.egdi-scope.eu. Rob suggests that we come back to this later in the process when we know more about the actual name of the EGDI.
- There was not yet a possibility to meet with Massimo Cocco. Rob hopes to seize an opportunity to do so soon, probably at the EGU-Assembly in Vienna next April, and will a.o. discuss the relationship between EPOS and EGDI with him (previously an action point of EGS). It is suggested that a shared communication or document could clarify the (possible) relationships between EGDI-Scope/ the future EGDI and EPOS to external parties, as this is not always clear to others yet.

[Claudia and Luca leave the meeting]

Evaluation of survey and stakeholder meetings

Mikael gives a presentation on the results of the stakeholder meetings of November.

It is agreed that we need more focus on specific thematic issues and user communities (without specifically excluding others) as there are too many issues to cover them all initially.

There is a good policy example for us to learn from: the marine sector, e.g. as represented within the EModNet project which has formed an active steering group, has good communication lines with EU, has funding, etc. Mikael will provide us with a few insights and documents on this example that the marine sector is setting for us.

Use cases

Rob proposes to focus on a few very concrete use cases (e.g. to create updated maps and statistics on resource availability in Europe) to assess the things that an EGDI should and can do. This would force us to define the steps and issues which could be relevant for a successful implementation of an EGDI more comprehensively and with deeper understanding. These few use cases do of course not represent any full coverage of all relevant domains for the EGDI, but they will function as different examples for different (societal/ policy/ research) domains. Parallel to this more in-depth elaboration of a few use cases EGDI-Scope will also produce a comprehensive but more generic overview of relevant domains, possible use cases and possible consequence for the EGDI.

Other benefits of describing a few specific use cases is their use for (external) communications. Jean-Jacques suggests using the recently started project EURARE on rare earth metals, as this project starts with a very concrete policy issue as formulated by the Commission. Although we should not duplicate any work of this project, this would also provide a way to connect to other projects. Mikael and Rob are planning to meet Slavko Solar and Milan Grohol (DG Enterprise) in two weeks in Brussels, which could be a good time to discuss a selection of use cases.

It is decided that we need 3 use cases from different domains to avoid any bias and to illustrate the broader scope of use cases (e.g. both geological issues and more complex issues of which geology is only a part of the question). The current ideas for use cases are (also looking at our currently involved stakeholders):

(both marine and land perspectives involved:)

- Raw materials, more specifically rare earth elements
- geohazards (focus on specific geohazard to be decided)
- environmental issue, e.g. connected to shale gas exploration and the impacts thereof. (Mikael is meeting EEA in three weeks, he will discuss describing an environmental use case with them).

Mentioning of WISE-project (interactive water quality maps) as reference.

Questionnaires

For the further inventory of user requirements a questionnaire is drafted. Mikael will send this questionnaire to the team members who will 'test' it from the perspective of a possible stakeholder/end user and comment on it before 8th March. The adapted questionnaire will be sent to everybody who was present at the stakeholder meetings or accepted to be a stakeholder (but has not been present at meetings yet). Kathryn will include the questionnaire on 3D modelling.

[Claudia and Luca return to the meeting]

[break]

Stakeholder forum vs. panel

The participants of the stakeholder panel have been informed on their position in the panel and are very willing to share their network with us. However, Rob feels that we have to take into account that this panel cannot act as a fully representative advisory body (or even steering committee) for all relevant European or cross-border user and stakeholder communities from in different societal (or policy) domains. Also, panel members cannot always participate as envisioned (e.g. DG Enterprise is not able to commit in any formal way). Meanwhile, forum members would like to be in the panel (EFG) although there is doubt what their added value would be. Mikael suggests to involve the panel as an active advisory board, asking them to give advice when needed and to review our results. Their advises need not to be concerted, taking into account the very different backgrounds and domains the individual members represent. Their main purpose should be to provide us with sufficient input to steer our results towards the various (and sometimes conflicting) needs they represent. The involvement of stakeholder panel members will be organized via dedicated stakeholder panel meetings, bilateral meetings with the individual members, and specific requests for advice to the panel members.

The stakeholder forum can operate as foreseen, and is open to any stakeholder with an interest in pan-European/ cross-border geological data. The stakeholder forum contributes to the project via stakeholder workshops.

Looking forward

Mikael has a broad range of meetings planned to interact with the various stakeholders (bilaterals, conferences, etc.). He invites other consortium partners to join meetings if this is suitable. The next stakeholder workshop will be in September.

Mikael informs us that the main contribution of D2.2 will be a gross list of user needs, categorized. Rob suggests that this will add to the generic user needs that are already clarified, such as :

- serving pan-European/ cross-border issues with relevant thematic focus
- sustainability/ continuation of EU-project results
- delivery of relevant datasets form NGSOs
- INSPIRE compliance
- ...

Strategic issues and feedback from meetings

EGS proceedings

Luca informs us on relevant proceedings within EGS and EU, e.g. the shift of relevant budgets from DG Research to DG Enterprise. Although much still needs to be discussed and decided, Luca is optimistic about the position and funds that EGS and its members are gaining at the moment. Mart van Bragt and Luca are presenting on the directors meeting and Mart is also invited to the World

Forum (in Rotterdam) in May. There are several other events coming up at which we will have the opportunity to present the project. Rob suggests that we prepare a memo to the EGS Directors meeting to give them our point of view. Luca agrees and thinks that an update on our proceedings is expected by the directors (and not much more). He argues that 2-3 pages and 5 line summary should be sufficient.

EGS Strategy Task Force

Luca and Rob joined the last meeting of the Strategy Task Force, which is tasked with writing a general strategy for EGS towards an ERANet and Article 185-procedure. The meeting was relatively small (5-6 people) and discussion centred on brainstorming and decisions on the procedure to be followed. The agreed procedure is to firstly write a position paper to be agreed upon by the Directors Meeting. EGDI is specifically mentioned as one of three pillars for this strategy.

Roadmap Earth Science meeting, Paris

Following the meeting on Earth Science in Paris, a roadmap on the earth sciences is being produced by participants. In the current draft version, data is only a minor subject. As EGDI-scope we want to comment on this draft version in concertation with the NGSOs: this will be prepared by EGS, in connection with any contributions from the Directors Meeting.

Inclusion of oil & gas industry

There have been some discussion on including the oil and gas industry in the project. It of course is a major potential user community and the domain knows many relevant issues, but this industry also has a high degree of self-organization and knows several legal and other complexities. But because it was indicated that there is interest from the industry in the future EGDI, and there is an interest from other relevant domains in free geological data from exploration & production (e.g. connected to Geothermal, shale gas policies, etc.) it is decided that we include the perspective of the oil and gas industry in the project. In connection with this the Norwegian Petroleum Directorate and other companies will be invited to the Stakeholder Forum.

[lunch]

Prioritization of datasets

Katy presents the results of WP3 of so far and the way forward.

[Stefano Laporta, general director of ISPRA, shortly interrupts to welcome us]

After the presentation the discussion focuses on the if and how of prioritizing datasets and user needs/cases. It has been concluded that there are many societal issues and policy domains requiring relevant geological data and information. One domain cannot be prioritized above the other (e.g. the relevance of landslides cannot be compared to the relevance of mining resources). Therefore EGDI-Scope will not really prioritize, but rather provide a more or less comprehensive overview of relevant datasets. The selection of relevant datasets as part of this overview will be guided by:

- the relevant policy and research topics (with pan-European, international or cross-border character) mentioned in Horizon 2020 documents or any other obvious pressing topics
- the EU-project inventory
- from exchanges with stakeholder panel and forum members
- by the availability, coverage and applicability of available datasets and models at NGSOs and other organizations;
- *applicability for building SME business cases (item added after EuroGeoSource end conf. 12 March...)*

Another discussion arose about the harmonization and standardization issues of datasets. Much of the 400-700 Million investments in the 80 EU-projects has been allocated to this, and in most cases the job has not been finished to realize direct applicability for e.g. European policy making. An important question for EGDI-scope is to what extent the realization of the EGDI has to address further harmonization and standardization (requiring massive investments) or focuses on just the enabling of this, by creating an infrastructure.

Infrastructure needs and design (part I)

Jean-jacques presents the results he has so far and explains the infrastructure he has in mind (based on GEOSS). He suggests that we might not have to harmonize all data sets on the national level, sometimes different data can be used to deliver a harmonized *derived* dataset at international level (e.g. radon-maps based on different geophysical methods, different lithography and types of measurement, but aggregated to one type of parameter, including uncertainties). This could be helpful for the selection of relevant datasets.

A discussion follows on whether or not this infrastructure, or concept, will be the solution to solve the current issues, or that we should review the user needs first before deciding on a certain infrastructure concept... Are there other possible approaches than the GEOSS model? In the end it is decided that the proposed concept is a good starting point and sufficiently generic to structure our current thinking and accomodate a wide range of possible alternatives, because there is a lot of possible variety represented by the shown elements and their structuring (catalogue. broker services, portrayal services, data servers, etc.).

In the DoW, the definition of user requirements and the architecture design are two tasks to be run in parallel, but must be consistent at the end. This parallel process also gives the opportunity to exchange about technical requirements and architecture design in a less abstract way with potential users or stakeholders (who very often have no clear opinions about this without some example)

The role of the analysis of existing infrastructures (D4.1) was to identify some architecture models and components, and the GEOSS framework is generic enough and based on many works that it was suggested as a starting scheme to structure our study. Probably not all GEOSS components will be necessary for EGDI, but some have been already used by geological projects and are mandatory for INSPIRE (as metadata, catalogue, view service, common vocabularies, ...).

The GEOSS model must not however govern our decisions regarding the system. If the analysis of the requirements for the system reveals that we need components which is not part of the GEOSS model we will include them anyhow. The same holds if we find it practical to operate with combinations of categories or otherwise change the model.

It is decided that BRGM will clarify the GEOSS framework for several projects with different infrastructure approaches, e.g. EuroGeoSource, Emodnet, InGeoClouds,...

Finally it was decided that at this stage of the scoping study it is much too early to decide anything about including specific software components in the future EGDI.

[dinner and sleep]

Communication

Claudia presents the results of WP6 of so far. Among others, she mentions that only 6 people registered on the intranet. Participants of the Stakeholder meeting will be asked to register afterwards, and Mikael will sent the participants an e-mail after the meeting reminding them of it (and the questionnaire).. Claudia will sent the draft brochure to the team members, who will have to respond within a week so that the brochure will be finished for the Directors Meeting.

For the final event, we discuss a few options:

1. A dedicated event in Brussels (~80 people)
2. As a side-event to the EGU 2014 conference
3. As a side-event to another conference (e.g. Geospatial World Forum)
4. A smaller dedicated event in Brussels (~30 people, mainly representatives from EU organizations), to be announced at several conferences as the ones mentioned above
5. Combination 2 + 4

These options will be decided at our next consortium meeting.

Legal and governance

Katleen gets us updated on the results of the WP of so far. She suggests that a generic licensing framework is a feasible and relevant deliverable for the EGDI-Scope project but a specific licensing scheme for certain datasets is out of scope (that are projects by itself). An inventory of licensing frameworks was presented.

Part of the presentation is a first overview of possible governance models for an EGDI. Katleen requests that everybody gives the overview some thought and ask around how different scenario's will be received. The ERANET/Article 185-strategy of the EGS is a certainty and has the support of the Director's Meeting, so should be assessed as a framework for any governance model for EGDI. It is also suggested that the Article 185-structure combined with an ERIC (European Research Infrastructure Consortium) could be a very good possibility, but it must also be underlined that this is not (yet) a broadly supported view.

Rob presents his ideas on exploitation models for a future EGDI. Although it is not in the project plan, he is convinced that funding/ exploitation models need to be discussed in relationship to EGDI-Scope and a clear idea of possible exploitation models for the future is essential for the success of the project. During the discussion, it is also recognized that this could be a delicate discussion, as alternative funding models (other than EU funding) might conflict with business models of different surveys. It is decided that the subject will be further discussed at future meetings, that input is needed from other team members, and that exploitation models will play a role in other WPs and especially the use cases. TNO will allocate some extra in kind contribution for these issues. Rob and Katleen will get in contact to discuss further steps on governance (and funding/ exploitation) models/ scenarios, with the goal of having made progress on this issue before the next consortium meeting.

Infrastructure needs and design (part II)

Rob gives a short summary on the discussion as it was held yesterday.

The further proceedings on the infrastructure design for EGDI will be as follows: the use cases will be used to find out which functionalities are required from the information system. Once these are more clear the consequences for the architecture can be assessed with regard to several options, GEOSS-like or not. In the second half of this year, these results will be discussed during the next SIEG -workshop and the foreseen overview of user needs, as delivered by WP2, will be used to evaluate possible models for the system. Mikael and Jean-Jacques have discussed the dates for the next Stakeholder workshop and SIEG workshop for the second half of this year.

Preperations for status document EGS General meeting

An overview of the contents for the status document for the Directors meeting is compiled. Rob will write a draft before 5th March, to be commented by team members, adapted version to be and sent to the Directors not later than 6th March.

In addition, Luca asks team members for any input to be delivered already 1st March for the Eye-on-Earth Conference in Dublin. This is very short term thus is expected to be very limited. Jacco will send the minutes and presentations of this meeting to Claudia & Luca for references and the re-use of slides. As far as possible, other WPs can contribute new slides to the presentation before Friday. Luca explains that the audience is foremost interested in the sharing of data (and the obstacles involved which EGDI tries to solve).

Planning

- Next meeting in Copenhagen (13 & 14 June, full days) , including a half a day side-meeting with EEA (Luca will be present earlier already, because of meeting with new Director).
- There are two abstracts on EGDI submitted at the EGU Conference, one on 3D-modelling and one more generic about EGDI. Both are selected for presentation, the general one in a session on geodata infrastructure led by Massimo Cocco from EPOS.
- The next Exec. Committee (consortium) + NGSOs-representatives meeting on 9 & 10 September in Malta following the EGS National Delegates meeting (on the 6th). The meeting will consist of 0,5 day (or little less) Consortium meeting, 0,5 day (remaining of the Monday) Survey meeting and 1 day with stakeholders. Jorgen will ask Francois to plan the Spatial Information Expert group meeting shortly after that, either connecting in Malta or somewhere else.
- It is decided that the 9 chairs of the expert groups will get their travel expenses refunded for the next stakeholder meeting, in case of their attendance.

Closing - Rob closes the meeting at 13:00.

Actions and decisions

<i>Actions</i>	<i>Holder</i>	<i>Check</i>
Rob will meet up with Massimo Cocco to discuss proceedings of EPOS and EGDI (a.o. discuss a shared communication or document).	Rob	
Rob will inquire if there will be a mid-term review by the PO	Rob	
Rob will compile all comments by team members on the Earth Science roadmap and summarize it for the Directors Meeting.	Rob	
Rob and Katleen will get in contact to discuss further steps on governance models (and especially funding), with the goal of having made progress on this issue before the next consortium meeting.	Rob, Katleen	
Mikael will send the questionnaire on user needs to the team members who will test it in their GS to see what kind of results we will get	Mikael	
Mikael will provide everyone with a few insights and documents on the example that the marine sector is setting for us	Mikael	
Mikael will ask participants of the Stakeholder meeting to register on the intranet afterwards, and will send an e-mail to remind them of the questionnaire and registration on the intranet.	Mikael	
Mikael is meeting EEA in three weeks, he will discuss describing an environmental use case with them	Mikael	
Mikael en Rob will meeting Slavko and Milan Grohol (DG Enterprise) next week in Brussels and will discuss the selection of use cases with them.	Mikael, Rob	
Mikael and Jorgen will send information on hotels etc for the next EGDI-Scope ExCom meeting in Copenhagen.	Mikael, Jorgen	
Mikael (and maybe Rob) will meet with EFG to discuss their involvement in the stakeholder panel/forum	Mikael, Rob	
Luca will mail Katy (and the rest of the team) the general (and confidential) Horizon 2020 policy communication	Luca	
Kathryn will include the questionnaire on 3D in the other questionnaire (WP2/ user needs)	Kathryn	

Jørgen will communicate to the Spatial Information Expert group if they could plan their meeting soon after the EGDI-Scope meeting in Malta in September, either connecting in Malta or somewhere else.	Jørgen	
Jørgen and Mikael will invite the Norwegian Petroleum Company and other oil and gas companies/associations to the Stakeholder Forum.	Jørgen, Mikael	
Jacco will send the (draft) minutes and presentations of this meeting to Claudia & Luca for references or the re-use of slides.	Jacco	
Everyone will suggest geohazard use cases to be described, to be communicated over mail	Everybody	
Everyone will send their suggestions for the draft brochure to Claudia (within the week).	Everybody	
Everybody will sent before coming Friday, if needed and possible, additional slides to Claudia and Luca to prepare the presentation for the Directors Meeting.	Everybody	
Everybody will reflect on Katleen's input on the different governance options outlined by WP5 thus far.	Everybody	
Everybody should comment on the Earth Science roadmap within the next week.	Everybody	
Everybody is invited to suggest use cases and sent these to Mikael.	Everybody	
Claudia will sent the draft brochure to the team members.	Claudia	
Claudia will provide an overview of the travel expenses thus far at the following consortium meeting.	Claudia	
Claudia will finish and print the brochure before the Directors Meeting.	Claudia	
Claudia will check whether all presentations of the meeting on the 13th of November (last versions) are on internet	Claudia	
Organize EGDI-workshop at INSPIRE workshop Florence (7-11 June) (with Carlo Cipolloni from ISPRA	Rob)	
Decisions		
In the future, also EGS Expert Group Chairs will be allowed to have their travel costs reimbursed.		
It is decided that we need 3 use cases from different domains to avoid any bias and to illustrate the broader scope of use cases (e.g. both geological issues and more complex issues of which geology is only a part of the question). The current ideas for use cases are (also looking at our currently involved stakeholders): Raw materials, more specifically rare earth elements geohazards (focus on specific geohazard to be decided) environmental issue, e.g. connected to shale gas exploration and the impacts thereof.		
To involve the panel as an active advisory board, asking them to give advice when needed and to review our results. The involvement of stakeholder panel members will be organized via dedicated stakeholder panel meetings, bilateral meetings with the individual members, and specific requests for advice to the panel members.		
The stakeholder forum can operate as foreseen, and is open to any stakeholder with an interest in pan-European/ cross-border geological data. The stakeholder forum contributes to the project via stakeholder workshops.		
It is decided that we include the perspective of the oil and gas industry in the project, for instance by including parties from this industry in the Stakeholder Forum, and also including relevant (open, public) datasets.		
It has been concluded that EGDI-Scope will not really prioritize datasets, but rather provide a more or less comprehensive overview of relevant datasets. The selection of relevant datasets as part of this overview will be guided by: the relevant policy and research topics (with pan-European, international or cross-border character) mentioned in Horizon 2020 documents or any other obvious pressing topics the EU-project inventory		

from exchanges with stakeholder panel and forum members
by the availability, coverage and applicability of available datasets and models at NGOs and other organizations;
applicability for building SME business cases (item added after EuroGeoSource end conf. 12 March...)

It is decided that the proposed ICT-infrastructure concept is a good starting point and sufficiently generic to structure our current thinking and accommodate a wide range of possible alternatives, because there is a lot of possible variety represented by the shown elements and their structuring (catalogue, broker services, portrayal services, data servers, etc.).

It is decided that the subject of exploitation and funding models of a future EGDI will be further discussed at future meetings, that input is needed from other team members, and that exploitation models will play a role in other WPs and especially the use cases. TNO will allocate some extra in kind contribution for these issues.

8) EGDI-Scope Progress Meeting 13/14-06-2013 Copenhagen (GEUS), 13-14 June 2013

Attendance

Name	Partner	13 June (EEA)	13 June (EGDI)	14 June (EGDI)
Luca Demicheli	EGS	<i>Luca</i>	<i>Luca</i>	<i>Luca</i>
Claudia Delfini	EGS	<i>Claudia Delfini</i>	<i>Claudia Delfini</i>	<i>Claudia Delfini</i>
Céline Andrien	EGS	<i>C. Andrien</i>	<i>C. Andrien</i>	<i>C. Andrien</i>
Katleen Janssen	K.U. Leuven	<i>Katleen</i>	<i>Katleen</i>	—
Jørgen Tulstrup	GEUS	<i>Jørgen</i>	<i>Jørgen</i>	<i>Jørgen</i>
Mikael Pedersen	GEUS	<i>Mikael</i>	<i>Mikael</i>	<i>Mikael</i>
François Robida	BRGM	<i>F. Robida</i>	<i>F. Robida</i>	<i>F. Robida</i>
Jean-Jacques Serrano	BRGM	<i>J.J. Serrano</i>	<i>J.J. Serrano</i>	<i>J.J. Serrano</i>
Rob van der Krogt	TNO/GSN	<i>Rob</i>	<i>Rob</i>	<i>Rob</i>
Jacco Verstraeten-Jochemsen	TNO/GSN	—	<i>J. Verstraeten</i>	<i>J. Verstraeten</i>
Richard Hughes	BGS	—	<i>R. Hughes</i>	*
Kathryn Lee	BGS	<i>K. Lee</i>	<i>K. Lee</i>	*

*) present, but ~~was~~ already on a plain when the attendance list was signed.

Agenda

Thursday 13 th June, 2013	
EGDI-SCOPE – EuroGeoSurveys meets EEA Date: 13/06/2013, 09:30 – 12:30	
Venue: European Environment Agency Kongens Nytorv 6, DK - 1050 Copenhagen K, Denmark Fontana room (4.03) - Phone: +45 3343 5981	
Participants EuroGeoSurveys/EGDI-SCOPE consortium Luca Demicheli, EuroGeoSurveys Claudia Delfini, EuroGeoSurveys Céline Andrien, EuroGeoSurveys	Participants EEA Andrus Meiner – Head of group Ecosystems assessment Annemarie Bastrup-Birk – forests (will not

Rob van der Krogt, TNO, The Netherlands Richard Hughes, BGS, Great Britain Kathryn Lee, BGS, Great Britain Katleen Jannssen, Katholieke Universiteit Leuven, Belgium Francois Robida, BGRM, France Jean-Jacques Serrano, BRGM, France France Clemens Reimann, NGU, Norway Rainer Baritz, BGR, Germany Jørgen Tulstrup, GEUS, Denmark Mikael Pedersen, GEUS, Denmark		attend) Branislav Olah - ecosystem mapping Geertrui Louwagie - soils Ivone Pereira Martins – Head of group Biodiversity Johnny Reker – marine (tbc) Marie Cuigny-Seguin – urban (will not attend) Markus Erhard - ecosystem assessments Mihai Tomescu – energy (will not attend) Óscar Gómez Prieto - spatial analysis (tbc)
<i>Welcome</i>		
09.30 - 09.45	Welcome and 'tour de table' General presentation of EEA	Andrus Meiner (EEA)
09.45 - 10.00	Short background for EGDI-Scope	Luca Demicheli (EuroGeoSurveys)
10.00 - 10.20	Presentation of the EGDI-Scope project	Rob van der Krogt (EGDI-SCOPE/ TNO - NL)
10.20 - 10.30	Presentation of EGDI-Scope use cases	Mikael Pedersen (EGDI-SCOPE/ GEUS - DK)
10.30 - 10.45	Coffee/Tea	
10.45 - 11.00	EuroGeoSurveys Geochemical mapping of agricultural and grazing land soil of Europe (GEMAS)	Clemens Reimann (GEMAS/NGU - NO)
11.00 - 11.30	Presentations of EEA projects and tasks using/requiring geological data and information	EEA
11.30 – 12.30	General discussion of possible future EGDI/EEA interfaces	All
12.30 – 13.30	Lunch/ Frokost	
	EGDI-SCOPE – Board Meeting <u>Venue :</u> "Geocenter" - Øster Voldgade 10 – Copenhagen, Denmark	
14:00 – 14:30	Welcome, opening general announcements and communications communication with PO agenda, minutes Financial and administrative issues/ reporting period 1	Rob, all
14:30 – 15.20	Information exchange/ feedback from meetings: EEA Workshop (morning) GIC Orleans – June 2013 Geo Projects Workshop Barcelona – april 2013 EGU Vienna/ meeting M. Cocco (EPOS) – april 2013 Final meeting EuroGeoSource – march 2013 Meeting e-infrastructures – march 2013 EGS proceedings and agenda Expert Groups: SIEG, EOEG, other Update 1GE+ Assessment concertation e-infrastructures DG RTD Showcase GEO Ministerial Other...	All

15.20 – 16.00	Use cases Meetings with stakeholders Update Approach and planning next period	Mikael, All
16.00 – 16.15	<i>Break / Pause</i>	
16.15 – 17.00	Prioritization Datasets Update Approach and planning next period	Katy, All
17.00 – 17.45	Infrastructure design (part I) Update Approach and planning next period	Jean-Jacques, Francois, All
17.45 – 18.30	Governance and legal issues Update Approach and planning next period	Katleen, All
18.30	<i>Closure / afslutning</i>	

Agenda Day 2

Friday 14 th June, 2013		
8:30 – 8:45	<i>Walk-in</i>	
8:45 – 9:10	Update on exploitation models/ funding issues	Jacco, Rob
9:10 – 11:15	Call DG Connekt – follow-up EGDI-Scope (expected ~15 dec. 2013): Approach (content) Approach (organizational) Input call-text Planning ...	All
11:15 – 11:30	<i>Break / Pause</i>	
11:30– 12:30	Workshop EGDI-Scope/ INSPIRE Conference 23 rd June (11-13h) , Florence (objectives, program, presentations) SIEG meeting, Florence, 23 rd June (14-17.20h)	Rob, François, All
12.30 – 13.15	Lunch/ Frokost	
13:15– 14:15	Preparations EGDI-scope meetings Malta: Board meeting (9 th Sept) Consortium + Surveys + EG meeting (9 th Sept) Stakeholder Forum (10 th Sept) Update Objectives Program Invitations and organization ...	All
14:15– 15:15	Communication Update Approach and planning next period Communication connected to events (Malta) Showcase GEO Ministerial Closing event(-s) 2014 (EGU/ Brussels) ...	Claudia, All

15:15–15:30	Wrap-up, further planning Planning next meetings & Upcoming events Any other business	All
15.30	<i>Closure / afslutning</i>	

Minutes

Welcome, opening

Rob opens the meeting at 14:20 by welcoming everybody. He sets the goal for the meeting: achieve common idea about logic and coherent picture of what the EGDI must look like, something we can communicate, and we can achieve efficient cooperation between EGS's, research community, and other important stakeholders to implement this starting next year.

General announcements and communications

Richard will be leaving the EGDI-scope project team (and BGS), and Jorgen will take up a new position as executive secretary at UK Coal Authority

Communication with PO

Rob has had a meeting with Wim Janssen. There will be review meeting in the second half of the year where all the WP-leaders should be represented. As soon as Rob receives more details on the meeting, he will communicate this to the rest of the team.

The PO is invited to the Malta meeting, but not to this meeting (as it was already clear that he could not attend).

During various events we have connected to the following projects and programs and offered to cooperate or coordinate activities, such as:

- OGC
- GEO-GEOSS
- FP7 PanGeo
- FP7 Earth Cube
- FP7 Coopeus
- FP7 iCORDI

DG-connect will publish a draft work plan on future calls (Horizon 2020 calls for 2014 and 2015) just after the summer, which will be very relevant for us to submit any proposals for follow-up. The first calls can be expected by December of this year (which is early in comparison to other DGs), so we should prepare ourselves for that (e.g. gain support from the EGS directors).

Rob felt that he had to manage Wim's expectations in relation to the number of thematic domains and quality of related harmonized datasets that will be covered by early stages of EGDI. Feasibility is an important issue and Rob explained that we will be starting with a few exemplary use cases.

Agenda & minutes

There were no additions or comments on the minutes, as suggestions of Jean-Jacques of Jorgen are already processed.

Financial and administrative issues/ reporting period 1

There are no issues with the last reporting documents. Everyone states that they estimate their documents for the coming reporting period will be in time. Rob underlines that if resources are not

used (e.g. travel costs for stakeholder meetings) we should look into ways to spend these resources elsewhere within the project.

Information exchange/ feedback from meetings:

EEA Workshop (morning)

Main results of the workshop of this morning:

- Good start for future cooperation
- New insights into the type of activities that EEA performs
- A feeling for the type of data that they would like to have
- The challenge: a lot of the requested data is not yet available (knowledge gap)

Luca states that cooperation with the EEA can be more beneficial than cooperation with for instance JRC, e.g. we could start with publishing certain reports together with the EEA, which would have the status of official EU-publications. Both the current EGDI-scope deliverables and the GEMAS-project provide sufficient opportunities for this and we could start right away to cooperate with them. If we could show them what is needed to deliver the requested data (e.g. information on bodies of ground water), they could put this on the agenda in Brussel.

In a follow-up meeting Mikael will make an inventory of the datasets that the EEA would like to use. These will be very relevant for development and integration within the EGDI.

GIC Orleans – June 2013

Some members from our project team were present at this meeting. One of the first questions was whether a European Geological Survey wouldn't be a good alternative – a clear sign that this remains an important issue to address in our communication with the outside world.

Another issue that came forward is the high expectations that the community has on the performance of GIS services, with Google as the prime example. For instance, it was suggested to simply use Google Maps as a basis for EGDI. Francois mentions that some domains, such as geohazards, are currently not easily available in Google Maps. A short discussion entails on how we could cooperate with Google to make geological data more searchable, and how Google is already trying to access the data (for example bore holes) from some NGSs. This could both solve current issues on the 'findability' of geological data and create new issues, especially on data ownership. Francois will initiate a draft vision from the project team on our relationship with Google, which he will share with the rest of the team for further additions and corrections.

Geo Projects Workshop Barcelona – april 2013

The EGDI-Scope team was well represented at this meeting, at which Luca gave a keynote speech on EGDI. We were also able to meet many of our stakeholders (OGC, Gilles Ollier, etc.) and added a few stakeholders to our panel. Francois underlines that the EU Commission will be placing GEOSS central to projects like ours. Mikael adds that projects will also be asked to be more interdisciplinary and international. Lastly, we were able to make a good start on our PanGeo use case.

EGU Vienna/ meeting M. Cocco (EPOS) – april 2013

The EGDI-Scope team was well represented at this meeting. Main result was a more clear agreement with EPOS on future cooperation between the two projects:

- 1) Involvement of EGDI-Scope in the COOPEUS and iCordi projects through EPOS WG3.
- 2) Regular annual or biannual meetings between coordinators (or other high-level representatives) of EPOS and EGDI-Scope, of which the first meeting is to take place around November this year.

- 3) Description of a use case that can demonstrate the possible interfaces between the EPOS and EGDI infrastructures. We talked about using TerraFirma, but as that project is close to an end, Rob and Mikael discussed to use PanGeo instead.
- 4) Production of a "letter of clarification" to clearly state how EPOS and EGDI(-Scope) will interact and complement each other rather than compete.

There will also be an EPOS meeting in the fall, but this is not an official meeting that would benefit from an (official) representations by EGDI. Mikael will send information about the PanGeo use case to Massimo after this meeting.

Another result from this meeting was the common agreement to connect our final meeting to the annual meeting of EGU. Luca is in contact with the president of EGU and will keep us informed about opportunities and how to proceed with respect to EGU. Rob suggests to put some ideas on paper how EGDI could be connected to EGU (without drowning in the massive amounts of presentations, posters, etc.)

Final meeting EuroGeoSource – march 2013

EuroGeoSource has now ended with a very positive EU review. EuroGeoSource (and any related projects (ProMine, Minerals4EU) will be important projects to be integrated in the EGDI-Scope Minerals use case.

Meeting e-infrastructures – march 2013

Wim Janssen made clear that we were 'obliged' to attend this meeting, which was something that wasn't clear to us for a while. This made clear that we need to pay attention to DG Connect and their priorities. In the end, this was an interesting meeting as Rob noticed that many of the E-infrastructures have very similar experiences with regard to stakeholders, funding, standardization and harmonization and organizing communities.

EGS proceedings and agenda

GMES (currently renamed to 'Copernicus') will be launched on the 5th of December in Rome, which will be promoted extensively to give us sufficient exposure. Luca is involved in discussions to establish a first call on geosciences. At the moment the commission is pushing for a concrete domain to focus the call upon and the topic of minerals was mentioned, but Luca is not in favour of this because this is a domain that is of interest for DG Enterprise which is already 'on our side'.

Richard informs us that at the last EGS directors meeting he has underlined the importance of the implementation of EGDI for the NGSOs as he feels this is not yet fully understood by everyone in Europe.

Update 1GE+

Francois informs us that there was a One Geology Europe meeting in Vienna at which 10 to 12 EU surveys attended. The main issue is that still not all countries are participating (around 10 are missing) which will leave a few gaps in the European map. Luca relates this to the amount of members of EGS, as there are a few dropping out (e.g. Iceland, Bulgaria in September) which is of course a loss, but does not mean that these countries could not be involved in our activities. Rob underlines that our users are often requesting full coverage of the data, which will be very hard to achieve in light of these developments. It might be preferable that countries who are not participating in EGS or OneGeology are invited to participate in EGDI.

Assessment consultation e-infrastructures DG RTD

There has been an assessment of the documents that came out of the consultation of the E-infrastructure projects. The assessment report mentioned EGDI as one of the key infrastructures for

Horizon 2020. We will fall into categories C or D, which means that we either need a few adjustments or can directly be put on the research agenda for Horizon 2020. For further details, see the document from DG RTD. It was mentioned that we now have two opportunities for follow-up of EGDI-Scope: DG RTD and DG Connect. We still need to find out what exactly will be the influence of this assessment document for future calls.

Use cases & stakeholder involvement

Mikael presents the proceedings of WP2. He stresses that we need to agree on preferably two use cases (PanGeo & EURare) to be able to move forward with these cases.

Key points:

- It is not easy to identify concrete customers.
- A new perception is that in most cases users of EGDI will not be policy makers but much more researchers and consultants/ advisors, working within or close to our 'own' community of geological surveys.
- Depending on the user group there is a need for easily accessible (primary) data, next to useful derived information products.

At a certain point a discussion ensues whether to continue with the use case on the environmental impact of shale gas now that the EEA has shown no particular interest in the matter. The issue of shale gas is rather complex and there is little data available on the issue, but the topic is very relevant on a political level and could provide relevant insights into future requirements for an EGDI. Luca mentions that the JRC is working on this topic. It is decided that we keep the use case on environmental impact of shale gas, but only to review what kind of infrastructure is needed to facilitate the gathering of data for research into this topic – but we must be careful not to raise expectations on any direct results and this use case might also be not very useful as a starting point for the implementation of EGDI. Luca will take this up with JRC to see if they are interested in working on this use case together with somebody from our project team.

In the discussion on the PanGeo use case, the issue of either distributed or central storage of data arises in combination with the issue on long-term sustainability.

Governance and legal issues

Rob proposes to first ask Katleen to present her results, as she will not be present the following day. Katleen presents the proceedings in WP5, focusing on her deliverable on legal issues.

Key points:

- The legal issues seem to be very dependent on the chosen governance framework.
- As soon as the use cases have matured sufficiently, we should investigate what the described legal issues entail in these domains.
- When looking into the use cases, we should try to prioritize the different legal issues as to learn which questions we need to bear in mind (first) when tackling new domains.

After the presentation a discussion ensues on the legal restrictions on the storage of data within EGDI. Is the use of Google Earth (e.g. in PanGeo) appropriate, do we need a European cloud, can we actually oblige with all European national legislations. There is a consensus that in any case these matters will vary across different domains and data sets and therefore the use cases will be leading in this analysis. Google is on top of the priority list for now, partly because PanGeo is already using this communication channel.

In connection to governance issues, Rob suggests to have a dedicated meeting within the project team on governance issues (which is a task which is delegated to TNO & EGS). It is discussed what the

best route to a (high-level) consensus on a governance framework would be. Rob underlines that in any case, we are currently in a situation of 30-something legal entities that all need to agree on a structure and that this situation will last for at least a few years. Any frameworks need to fit in that reality, and needs to have the agreement of every entity involved.

Prioritization datasets

Katy presents the results that WP3 has gained so far.

Key points:

- *A few themes for datasets are dominant (flooding, mineral resources, on-shore geology)*
- *Coverages of data, the availability of metadata and the integration of 3D-maps seems to be quite ok*
- *Next step is to focus on certain themes, e.g. mineral resources and geohazards, and to connect to WP 2 (use cases) and WP5 (legal issues)*

A discussion ensues if flooding could be a separate use case, as there seems that there are a lot of datasets available for this issue. Connecting flooding to subsidence and then geohazards, it could also be part of the PanGeo use case – but the question is how many flooding datasets are actually connected to this use case.

Mikael underlines that the dataset inventory established in this WP will be a valuable deliverable and a useful tool for prioritizing future efforts within EGDI.

Infrastructure design

Jean-Jacques opens the meeting by presenting his proceedings on WP4. He explains that the proceedings were somewhat limited, as it was decided during our last meeting in Rome that the further design of an ICT infrastructure should be done by exploring the technical requirements of ICT for the specific use cases of WP2.

Key points:

- *The requirements that follow from INSPIRE will probably need to be expanded to facilitate the use cases (e.g. extra metadata, Data Specifications, etc.)*
- *There are several alternatives of processing raw data from NGSOs into a European derived dataset, mostly differing in where the processing of national data into (a) harmonized dataset(s) is positioned: at the (national/ regional) data providers or in a central (European) service.*
- *EGDI will most likely have to support several of these alternatives, as the ideal configuration will depend on the specific data and derived service(s) involved. A central data processing configuration could be a relatively easy first option to explore within EGDI-Scope.*
- *Next step: make an inventory of technical user requirements (e.g. on basis of the use cases).*

During the presentation a discussion is started to what degree the data providers for EGDI should be INSPIRE compliant (or an expanded INSPIRE-format tailored to EGDI), specifically if the provider has no obligation to be INSPIRE compliant (e.g. industry). Two options are discussed, based on prior experiences: the use of brokers to convert the delivered data to the required format, or the remapping of data by the provider itself. It was decided to see how this will work out in the use cases.

A second point of discussion focused on the provision of data on boreholes through EGDI. As this data is highly unharmonized, which is an issue that EGDI should not try to solve (rather a European project focusing on this issue is needed). However, EGDI could provide a platform which shows the information that is available in national datasets, no matter how different these datasets are. A use case on boreholes could serve to underline this message. This touches a key question for EGDI which

should be addressed by the directors: does EGDI focus on Pan-European datasets or should it also provide the option of unlocking national datasets on an European level. It is decided that this issue should be incorporated, if possible, to the shale gas use case or otherwise to any other use case in which the issue fits.

Rob underlines that we should not only use input from our stakeholders to explore the requirements for an ICT infrastructure for EGDI (e.g. the technical user requirements or necessary expanded INSPIRE formats) but also look to past and current projects, that have solved or are trying to solve these issues within their own scope. Also the experts from the EGS Expert Groups, who are highly involved within relevant EU-projects are fairly well aware of relevant requirements.

Exploitation models

Jacco presents his work on funding models, which is meant to start a discussion on possible futures for EGDI from a financial perspective.

Key points:

- The ratio of funding from EU plus national public funds versus external funding that is preferred for the future EGDI is a highly relevant issue;
- There is a wide variety of different funding models available, adding up to different future scenario's for EGDI and the services that EGDI could support;
- We need to think in value chains to derive the various options that exist for the funding of different geodata services

It is decided that we will prepare a short statement for the directors meeting this fall in St. Petersburg elaborating on the choices for future funding of EGDI and EU research. For this, it is important to have in mind the previous discussions held on EGDI and related topics by the board of directors (acknowledging the positions that have been taken by various directors) and to have in mind what preferences the Commission will have for future funding. A discussion is held on what conditions need to be met for a funding proposal towards the directors:

- It needs to underline "what's in it" for the NGSOs
- It needs to specify the exact role of EGDI (data infrastructure) in relation to EU projects and national assignments
- It needs to touch upon the fundamental choices involved in EGDI:
 - o Do we support the sustainability of EU project results or also open up access to various national datasets?
 - o Does EGDI only support NGSO-data sets and services or also other governmental and commercial parties?

Rob asks Francois and Jean-Jacques to make first estimates of costs involved in the various ICT components, to get a first feeling for the order of magnitude of the funding challenge for EGDI. Rob and Luca will coordinate, the writing of the abovementioned statement. Meanwhile, Jacco will prepare several exemplary story lines for funding options based on the ground instability use case.

Call DG Connect – follow-up EGDI-Scope:

Rob explains that one of the first calls within Horizon2020 will be coming from DG Connect, which is expected around 15 December 2013. DG Connect specifically requested us the prepare for the call as they are expecting a follow-up of EGDI-Scope to be part of this call. A discussion ensues about what the best route is to prepare for this call and specifically whether and how to prepare a discussion within the EGS directors meeting. A few key points to be addressed, are identified:

- Considering the current positions and past experiences, and the strategic importance of EGDI and its follow-up(s), bringing this issue to the attention of the directors (e.g. via the national delegates or board meeting in Malta in September) will be both a necessary and delicate process
- We need to communicate that participation in the call is open for all NGSOs, partly due to the current understanding among NGSOs that EU projects concerning all surveys will have the participation of all EGS members. The expectations are that not everybody will be willing to participate, but by putting the question of participation forward those that are willing should have that opportunity.
- It will be difficult to set the right goals for a follow-up project, as we are currently far from an implementation plan
- As a consortium, we are the designated party to prepare suggestions for a follow-up project in the call of DG Connect, both as the collective with the most expertise on the issue and to meet the expectations of DG Connect.
- We should consider consulting DG Connect to see whether the call can be postponed until a point in time at which the EGDI-Scope project will deliver clearer views on an implementation plan.

The decision is made to first consult Wim Janssen as EGDI-consortium (with Rob as *primes inter pares*) by the beginning of next week whether the call can be postponed for 6 months. If that turns out not to be possible, Luca will consult ... and then inform the ND-meeting in September on the establishment of a commission preparing for the call, which then can be communicated in Saint-Petersburg.

Intermezzo by Richard Hughes

Richards surprises the project team with a departing message with some amazing insights into the project and it's challenges based on a surprisingly fitting metaphor (ocean sailing).

Preparations EGDI-scope meetings (Malta):

Rob explains that we have two meetings to prepare: a workshop in the INSPIRE meeting in Florence, and our own stakeholder-meeting (followed by an EGDI-Scope consortium-meeting).

On the first meeting, Rob proposes that Francois or Jean-Jacques give a short presentation on the EGDI-infrastructure prior to the presentation of Stephan Gruijters on the infrastructure of EuroGeoSource, which could then serve as an example for EGDI.

Francois goes into the afternoon session of the workshop, which includes a joint meeting with representatives from the JRC. It is decided that we will inform them on the proceedings of EGDI-Scope on a general level, stressing that we cannot give too much details yet as were in the middle of our project. In particular, we will not discuss any issues around the future governance of an EGDI. It is decided that Claudia and Mikael will send an invitation to our stakeholders for both our meetings in Florence and Malta, which will bear the signatures of EGS (Luca), Rob & Mikael.

Following this discussing, Rob and Mikael present the location and proceedings for the Stakeholder Meeting in Malta. Participants from the steering committee, stakeholder forum and stakeholder panel will be present, which are now partly overlapping. The following issues are defined as the main issues to be discussed with our stakeholders:

- Communicate and reflect on progress on EGDI-Scope
(*based on updated status document*)
 - o Use cases
 - o Inventory of data sets
 - o Legal issues

- Infrastructure
- EGDI future and funding scenario's
- Follow-up of EGDI-Scope
 - Preparation of the call of DG Connect
 - Preparation for other opportunities, e.g. DG Research

It was decided that the project meeting will meet up in Malta on Sunday to prepare our presentations and the agenda for the following meetings, which will be a Stakeholder forum (Tuesday) and a survey delegates meeting (Monday). The stakeholder forum will start with a presentation on the proceedings of EGDI-Scope while the afternoon will be based on break-out sessions, partly organized by us but also leaving room for presentations by Stakeholders. Mikael will be sending an open invitation for these presentations. The survey delegates meeting will follow roughly the same format (presentation of proceedings followed by break-out or dedicated sessions). Summarizing:

- Consortium meeting (Sunday, 1 day) – focusing on preparation for the other meetings
- Survey delegates meeting (Monday, 1 day) – presentation on progress followed by break-out sessions or dedicated sessions on infrastructure, follow-up & use cases (connected with datasets)
- Stakeholder forum (Tuesday, 1 day) – presentation on progress followed by break-out sessions (with room for presentations by stakeholders)

Luca and Rob will prepare a statement on the governance of a future EGDI to be edited by the rest of the project team

Communication

Claudia updates the team on the communication activities of the last year.

Key points:

- Very few stakeholders have registered on the intranet
- Project team members are specifically requested to send any presentations given on EGDI-Scope to Claudia
- Project team members are also specifically requested to put information and documents on EGDI-Scope on their websites
- Travel costs for stakeholders are less than anticipated so far

A discussion ensues whether we can shift part of the budget to reimburse travel costs of stakeholders to other parts of the project. Celine will provide an estimation of the travel costs that are still to be expected during the rest of the project. After this, Rob will discuss with the PO what the possibilities are to shift budget within the project.

It is decided that we would like to have a flyer on one of the use cases by the end of this year.

Claudia informs the team that there will be a ministerial meeting on GEO mid-january. EGS is invited as part of the supporting partners to present a show case to the participants, which will be high level. EGDI is one of the few interesting candidates within EGS for this public, as the show case should demonstrate a state-of-the-art development. Luca suggests to make a professional video to make good use of this opportunity. This will require sufficient input from the EGDI-Scope team for the story board, roughly €30.000 for the development of the video, and of course a good story to be told. A long discussion follows on whether we can find the sufficient time to organize this, whether we already have a message strong enough to be communicated, and whether the name EGDI is already set in stone if presented in this way. The general feeling is that this is a great opportunity that we are reluctant to let pass, but that the timing is not good. It is decided that:

- Luca and Claudia will investigate whether the left-over budget dedicated to traveling costs can be used for the production of the video
- Rob will discuss this possibility with Wim Jansen, who needs to give permission
- Claudia will investigate what costs are to be expected to have a better estimate of the needed budget

Closing

We plan the next meeting on 18-20 November in either Nottingham, Belgium (Brussels or Leuven) or Holland. In this case we will plan 3 days, and we will evaluate after the fall whether we need two or three days for the meeting.

Rob closes the meeting at 15:45

9) EGDI-Scope Executive Board/ project meeting 8-09-2013

8th September 2013, Valletta, Malta

Attendance list



EGDI-Scope Consortium Meeting
8 September 2013, Malta



Attendance list

Name	Partner	Signature
Jørgen Tulstrup	GEUS	
Mikael Pedersen	GEUS	
Luca Demicheli	EGS	
Claudia Delfini	EGS	
Céline Andrien	EGS	
Sara Hugelier	KU Leuven	
Francois Robida	BRGM	
Jean-Jacques Serrano	BRGM	
Matthew Harrison	BGS	
Kathryn Lee	BGS	
Rob van der Krogt	TNO	
Paul Bogaard	TNO	
Tirza van Daalen	TNO	

Minutes

- Administrative issues (20')
- Preparation of Review 18th September (1h15')
- Preparation Progress/full survey meeting (2h)
- Preparation Stakeholder meeting (1h30')
- Follow-up (20')

Administrative issues

- Feedback from Paul from Strategy Task Force: try to get an era-net program in Horizon2020 focused on activities geological institutions
- Up to directors to take decisions on governance structure
 - o Permanent body for minerals for EU
 - o EGDI requires long terms implementation steered in some way
 - o Preferable 1 permanent structure in which we can put all these things
 - Which tasks by who
 - Liability issues, technical issues, legal issues, etc.
- Luca feedback from National Delegates Forum: no special comments, except whether people were enough informed about the project: each geological survey has national delegate, are they all properly informed?
- Financing issues
- 15-17 January next geo-meeting
- Rome meeting – EUDET: no request to join, but the urgency is to ensure that our views as a domain community, that they think of us. This is more political from the point of view of the Commission – *end of October*
 - o Important to be involved, to make the connection with EGDI scope
 - o Jean-Jacques will send around information on this

Next meeting of EGDI scope

- 18-20 November blocked in the agenda
- Decide on places: Brussels or London

Preparation of review 18th September

- Reviewers are from digital information sector (not specifically geologists)
 - Discussions: we will analyze level of harmonization, use cases, ..
 - Lunch is arranged by Celine, but she needs final number of people
 - ATTENDANCE
 - o Claudio - OK
 - o Celine - OK
 - o Luca: on the 19th for final panel discussion – presentation at 10.45 and back in afternoon
 - o Jean-Jacques - OK
 - o François will not be there
 - o Katy – OK
 - o Matthew – No
 - o Mikael & co – OK
 - o Rob – OK
 - o Edith - OK
 - Program:
 - o **Rob:** general presentation – opens session – stating progress, deliverables, work-plan
 - o **Luca:** send presentation
 - o Other presentation about main results connected to deliverables
 - o Max 15 minutes à 20 minutes
 - No questions further
- *Everyone should send their presentation to everybody! At the latest the 16th of September*
 - Take time to go through presentations of other team members
 - 8.30AM meeting in Brussels in room at GeoSurveys Office
 - Evening before: dinner together on 17th of September

Preparation Progress/full survey meeting

- Monday 9th of September
- Statement
- Generic presentations are ready? Possibly. ☺
 - o Mikael: stakeholder consultation and Use cases
 - o Kate: inventory of datasets
 - o Jean-Jacques: technical design – stress what we need to know
 - o Sara: Legal
 - o Claudia: Communication/Dissemination
- Break-out sessions:
 - o EGDI can be separated in three big parts:
 - Design & implementation (DG Connect call)
 - Maintenance (Permanent structure)
 - Extensions (Individual projects) – discuss what the contents can be of a follow-up
 - o Idea is that everyone can change between sessions
 - o *1st break-out*: Work plan for DG Connect call ~design and implementation: come up with comprehensive vision as EGDI scope team: this is the follow-up as we envisage it + shop around the DGs, Horizon2020, etc.
 - Project design, not an implementation design
 - In some way we hope that DG connect call will cover as much as possible of 1st implementation, but still we can define it as project
 - Think of permanent structure
 - Tasks
 - Structure
 - o *2nd break-out*: Governance and funding
 - 1. Why do we need a permanent structure
 - 2. Tasks?
 - 3. Organization?
 - 4. Funding opportunities

 - How to set up such a structure
 - How to connect with all the other structures
 - How to implement an organization
 - How will this organization look like
 - Funding sources
 - o *3rd break-out*: prioritizing thematic areas/datasets for EGDI
- 1st break-out
 - o Leader: Rob
 - o Reporter: ?
- 2nd break-out
 - o Leader: Luca/Tirsa
 - o Reporter: ?
- 3rd break-out
 - o Leader: Katy
 - o Reporter: Mikael
 - o Give general framework of projects, surveys with available datasets, etc.
- Challenge for EGDI – Information Value Chain
 - o Which data are we focusing upon?
 - o From national to interoperable cross-border data
 - o There is a huge gap between end-users and what we produce

- With which datasets can we connect with end-users?
- Tasks MAINTENANCE
 - Could be tasks for example for governance structure

EGDI Stakeholder Forum

- Presentations
- Break-outs
 - Discussion on questionnaire of Mikael: will this facilitate the discussion or will it hinder the discussion?

Follow-up

- Gather information from sessions on Tuesday, collect asap
- Status document promised to directors available one week after our meeting, very concise, mainly concentrated on discussions of Monday.
- 7th October: meeting between EGS presidents and EGSU (?)
 - Special session
 - Send a proposal to EGU before the 13th of September
 - <http://meetingorganizer.copernicus.org/EGU2014/provisionalprogramme>
 - GMAS
 - EGDI scope
 - Water and ?

10) EGDI-Scope Progress Meeting (full consortium) 9-09-2013

9th September 2013, Valletta, Malta

Agenda

08.30 – Registration

09.00 – Opening statements and project status (Rob van der Krogt, Coordinator EGDI-Scope)

09.30 – EGS Developments and feedback from Delegates Forum (Luca Demicheli, EGS)

09.55 – OneGeologyEuropePlus – short status summary (Dana Capova, CGS)

10.00 – Status and progress per Work Package:

10.00 - WP2 Stakeholder Consultation and Use cases (Mikael Pedersen, GEUS)

10.20 – WP3 Inventory of datasets (Kathryn A. Lee, BGS)

10.40 – **Break**

11.00 – WP4 Technical design (Jean-Jacques Serrano, BRGM)

11.25 – WP5 Legal and organisational aspects (Sara Hugelier, KU Leuven)

11.40 – WP6 Communication/ Dissemination (Claudia Delfini, EGS)

12.00 – Introduction to break-out-sessions

12.30 – **Lunch**

13.45 – Break-out-sessions (14.45 change):

- Preparation **Workplan** for expected **DG Connect call(-s)** Design & Implementation phase
- Principles and opportunities for **Governance** and **Funding**
- **Prioritizing** thematic areas/ datasets for EGDI: INSPIRE/ use cases/ showcases etc.

15.45 – Reporting from break-out-groups and debate

16.30 – Wrap-up of the day and follow-up

16.45 – Drinks

Evening Dinner (shared costs)

Contact Persons

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 Luca Demicheli mobile: +32 473 760 058
 Rob van der Krogt mobile: +32 6 3164 2893
 Mikael Pedersen mobile : +45 5116 5536

Attendance list



EGDI-Scope Delegates Meeting
 9 September 2013, Malta

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Attendance list

Name	Organization	Signature
Boris Malyuk	Geological Survey of Ukraine	
Carlo Cipolloni	ISPRA	
Céline Andrien	EGS	
Claudia Delfini	EGS	
Dana Capova	Czech Geological Survey	
Fernando Perez	IGME, Spain	
Francois Robida	BRGM	
Gábor Turczi	Geological Survey of Hungary	
George Tudor	Geological Survey of Romania	
Gerold Diepolder	German State Geological Survey	
Jan Høst	Geological Survey of Norway	
Jarmo Kohonen	Geological Survey of Finland	
Jasna Sinigoj	GEO-ZS	
Jean-Jacques Serrano	BRGM	



EGDI-Scope Delegates Meeting

9 September 2013, Malta



Name	Organization	Signature
Jørgen Tulstrup	GEUS	
Kathryn Lee	BGS	
Kristine Asch	BGR	
Lars Kristian Stølen	Geological Survey of Sweden	
Luca Demicheli	EGS	
Marco Komac	GEO-ZS	
Mary Carter	Geological Survey of Ireland	
Matthew Harrison	BGS	
Mikael Pedersen	GEUS	
Paul Bogaard	TNO	
Rob van der Krogt	TNO	
Robert Cibula	State Geological Institute of Dionýz Stúr (slovakia)	
Roland Eichhorn	German State Geological Survey	
Sara Hugelier	KU Leuven	
Stephan Gruijters	TNO	

Name	Organization	Signature
Tamara Bardygola	Geological Survey of Ukraine	
Tirza van Daalen	TNO	
Waldemar Gogolek	Polish Geological Institute	
KLAUS HINSBT	EGS/WREG (GEUS)	
HENRY VALSOS	EGS/HGEG GIK	
ELEFThERIA POYIADJI	IGME-GR EOG	
DANIEL CAPOVILLA	MREG/EGS	

Minutes

The minutes of this meeting have been integrated in the report of the Stakeholder meeting of the next day (10th September). This meeting is described in the next section.

11) EGDI-Scope Stakeholders Meeting 10-09-2013

10th September 2013, Valletta, Malta

Agenda

08.30 – Registration

09.00 – Opening statements and project status (Rob van der Krogt, Coordinator EGDI-Scope)

09.35 – EGS International Cooperation and Developments (Luca Demicheli, EGS)

09.55 – OneGeologyEuropePlus (Dana Capova)

10.15 – Break/ Assembly of survey representatives

10.30 – The EEA/EGDI-Scope soil use case (Geertrui Louwagie, EEA)

10.50 – EMODnet geology (Alan Stevenson, BGS)

11.10 – Minerals4EU (Juha Kaija, GTK)

11.30 – The need for geological data and services from the view of professional geologists (Vitor Correia, EFG)

11.45 – The GEOSS link (Georgios Sarantakos, GEO Secretariat)

12.00 – The European Location Framework (Dave Lovell, EuroGeographics)

12.15 - GeoMol (Gerold Diepolder, Bavarian Environment Agency (LfU))

12.30 - InGeoClouds (Jørgen Tulstrup, GEUS)

12.45 – Lunch

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

14.15 – Break-out-sessions (15.15 change):

- Minerals
- Marine geology
- Environment
- Geohazards

16.10 – Reporting from break-out-groups

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

17.00 – Drinks

Attendance list



EGDI-Scope Stakeholder Meeting

10 September 2013, Malta








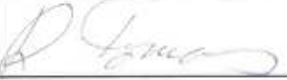

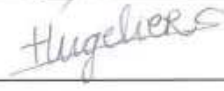

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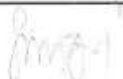


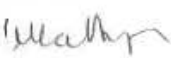
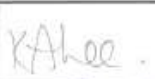





Attendance list

Name	Organization	Signature
Alan Stevenson	EMODnet-geology	
Anna Ladenberger	SGU, Geochemistry Expert Group	
Boris Malyuk	Geological Survey of Ukraine	
Carlo Cipolloni	ISPRA	
Céline Andrien	EGS	
Claudia Delfini	EGS	
Dana Capova	Czech Geological Survey	
Daniel Cassard	BRGM, Mineral Resources Expert Group	
Dave Lovell	Director EuroGeographics	
Eleftheria Poyiadji	IGME, Earth Observation Expert Group	
Fernando Perez	IGME	
Francois Robida	BRGM	
Gábor Turczi	Geological Survey of Hungary	
Geertrui Louwagie	EEA	



Name	Organization	Signature
Luca Demicheli	EGS	
Marco Komac	GEO-ZS	
Mary Carter	Geological Survey of Ireland	
Matthew Harrison	BGS	
Mikael Pedersen	GEUS	
Paul Bogaard	TNO	
Rob van der Krogt	TNO	
Robert Cibula	State Geological Institute of Dionýz Stúr (slovakia)	
Robert Tomas	JRC	
Roland Eichhorn	German State Geological Survey	
Sara Hugelier	KU Leuven	
Stephan Gruijters	TNO	
Tamara Bardygola	Geological Survey of Ukraine	
Tirza van Daalen	TNO	
Vitor Correia	EFG	

Name	Organization	Signature
George Tudor	Geological Survey of Romania	
Georgios Sarantakos	GEO Secretariat	
Gerold Diepolder	German State Geological Survey	
Henry Vallius	GTK, Marine Geology Expert Group	
James Baker	Minerals4EU	
Jan Høst	Geological Survey of Norway	
Jarmo Kohonen	Geological Survey of Finland	
Jasna Sinigoj	GEO-ZS	
Jean-Jacques Serrano	BRGM	
Jørgen Tulstrup	GEUS	
Juha Kajja	Minerals4EU	
Kathryn Lee	BGS	
Klaus Hinsby	GEUS, Mineral Resources Expert Group	
Kristine Asch	BGR	
Lars Kristian Stølen	Geological Survey of Sweden	

Minutes

This meeting is reported in D2.3 (Appendix).

12) Executive Board/ project meeting 18/20-11-2013

18-20 November 2013, EGS/ EARTO Office, Brussels

Preliminary Agenda

MONDAY, November 18th (1)

12.30 – Registration and lunch

13.30 – Opening, notifications

13.45 – Agenda, minutes/ reports Malta meetings

14.05 – Financial and administrative issues/ follow-up

14.20 – Evaluation review 18th November/ follow-up

14.35 – Feedback from EGS

- Important meetings, events and decisions
 - Minerals4EU
 - General meeting
 - EUDAT
 - OneGeology (Paris) (see OneGeology report)
 - GSA Denver/ Worldbank
 - ...
- Feedback from Expert Groups (mainly SIEG)
- Strategy Taskforce
- ...

15.00 – Preparations for implementation plan/ follow-up EGDI-Scope

- 'Overall implementation plan for the EGDI'
 - Which components?
- Relevant calls/ opportunities (see draft WP's ICT and e-Infrastructures)

16.00 – Break

16.15 –Governance

- Governance:
 - Main principles/ goals
 - EGS Strategy
 - Tasks
 - Involvement
 - Organization, power, responsibilities
 - Permanent structure: options
 - ...
- Funding options
- Conclusions and arrangements

18.00 – Closure

Joint dinner

TUESDAY, November 19th (1)

9.00 – Use cases, stakeholder consultation & prioritization datasets (WP2 + WP3)

- Prioritization thematic areas and datasets (see memo MP/ KL 23/9)
- Use cases (for implementation phase)
- INSPIRE
- Requirements
- Progress with Stakeholder Panel/ Forum
- Planning further stakeholder involvement
- Progress on deliverables
- External connections/ (international) networks EGDI
 - GEO(-SS)/ EUDAT/ InGeoClouds...
 - Involvement private partners (see review report, Recom. F):
 - 'Case Google ' (see report D5.1)
 - Involvement of commercial providers and end-users

11.15 – Break

11.30 – Technical design (see presentation JJS 18/9) (WP4)

- Technical requirements (incl. results from Malta)
- INSPIRE requirements
- Overall design options
- Components (implementation phase/ maintenance structure)
- Towards cost estimations
- Choices/ Towards a Roadmap
- ...

12.30 – Lunch

13.30 – Technical design (see presentation JJS 18/9) (WP4)

- *(Follow-up discussion, conclusions and actions)*

14.00 –Towards framework for implementation of 3D models (D3.4)

14.30 – Communication & Dissemination

- Website and intranet
- EGU-Assembly 2014 (April/May 2014)
- Brussels end meeting/ final symposium 2014
- GEO Geneva (January 2014)
- Geospatial World Forum (May 2014)
- Other events
- Comm. & Diss. Materials

TUESDAY, November 19th (2)

15.30 - Break

15.45 – Legal and organizational aspects/ Governance

- Update D5.2 (see draft)
- D5.3 'report on governance structures'
- Conclusions and arrangements

16.15 - EPOS/ EGDI: shared vision from EGDI perspective

- Clarification of particular roles of EGDI/EPOS, connections and positions (our decision to prepare a memo with shared vision) (see also presentation JJS 18/9 slide 25);
- Establish common agreement among EGS-members about this shared vision on EGDI/EPOS;
- Recommendation from review/ DG CNECT to EGDI-Scope consortium to contact ESFRI.
- One Geology Europe/ EGDI/EPOS

17.00 – Preparation session with Keith Jeffrey from EPOS

- Towards development of a joint demonstrator
 - Thematic
 - Requirements
 - Datasets
 - Technical
 - Organizational (& governance)
 - Planning

17.30 – Update meeting joint meeting EGDI/ Minerals 4EU (Proposed agenda: see WEDNESDAY November 20th)

18.15 – Closure

Joint dinner

WEDNESDAY, November 20th (1)

- 9.00 – Meeting with Jeffrey Keiths about EPOS/ joint demonstrator
- EPOS e-infrastructure and possible interaction with EGDI(-Scope)
 - (Technical) approach EPOS e-infrastructure
 - Possible setup of a 'joint demonstrator'
 - Planning and arrangements

10.30 - Break

- 10.45 – Implementation plan/ follow-up EGDI-Scope
- Further outline 'Overall implementation plan for the EGDI'
 - Contents (+ table of contents D1.3 'Overall implementation plan EGDI')
 - Consequences wrt relevant calls follow-up EGDI-Scope
 - Arrangements implementation plan and follow-up

11.50 – Planning & Arrangements

12.00 – Closure EGDI-Scope Board meeting

12.30 – Sandwich lunch EGDI/ Minerals4EU/ EGS Strat. Task Force (at EUROMETAUX)

13.30 – 17.00 Joint meeting EGDI-Scope/ Minerals4EU/ EGS Strat. Task Force

Proposed agenda:

1. Exchange with DG ENTR (Mattia Pellegrini and/or colleagues from Raw Materials Unit F/3)
2. General update and exchange about both projects
3. Relationship Min4EU knowledge data platform/ EGDI
4. Towards a joint demonstrator project
 - a. Relevant datasets
 - b. Infrastructure requirements
 - c. Technical design
 - d. Organizational setup (cf. 4.)
5. Governance/ funding/ sustainability
 - a. Goals/ Tasks (distributed/ centralized)
 - b. (Permanent) structure: principles/ involvement of organizations/ structure
 - c. Stakeholder involvement
 - d. Cost components/ Funding options
 - e. Legal topics
6. Other topics
 - a. Framework for cooperation EGDI-Scope/ Minerals4EU
 - b. World Bank/ contact Paulo de Sa
 - c. ...
7. Way forward/ planning

Joint Dinner with teams from EGDI-Scope, Minerals4EU and Strategy Task Force

Venues

EGDI-meeting/ EGDI-EPOS meeting (18-20 November)

EuroGeoSurveys/ EARTO Office, Brussels
Rue Joseph II, 36-38
1000 Brussels, Belgium

EGDI/Minerals4EU-meeting (20th November afternoon)

EUROMETAUX

Avenue de Broqueville, 12
B-1150 Brussels, Belgium
NICKEL room au lieu de NICKEL/ZINC room

Contact Persons

EGS Office +32 2 888 7553
Luca Demicheli mobile: +32 473 760 058
Rob van der Krogt mobile: +32 6 3164 2893

EUROMETAUX

Jeanine Hawryszkow

Receptionist / General Support
Tel: +32 2 775 63 22
Fax: +32 2 779 05 23

Preliminary attendance List

Joint EGDI-Scope/ Minerals4EU/ EGS Strat.TF

Minerals4EU participants:

1. *Nikolaos Arvanitidis (EGS-MREG) (probably cannot attend 20th joint meeting)*
2. *Juha Kaija (GTK)*
3. *Jussi Pokki (GTK)*
4. *Luca Demicheli (EGS)*
5. *James Baker (SELOR)*
6. *Daniel Cassard (BRGM)*
7. *Michael Szurlies (BGR)*
8. *Christian Burlet (RBINS)*

Nikolaos Arvanitidis (EGS-MREG) probably cannot attend
Teresa Brown and Gus Gunn (BGS-NERC) cannot attend

EGDI-Scope participants

9. Rob van der Krogt (TNO)
10. Jørgen Tulstrup (GEUS)
11. Mikael Pedersen (GEUS)
12. Luca Demicheli (EGS)
13. Claudia Delfini (EGS)
14. Céline Andrien (EGS)
15. Francois Robida (BRGM)
16. Jean-Jacques Serrano (BRGM)
17. Kathryn Lee (BGS)

EGS Strategy Task force participants:

- 18. Paul Bogaard (TNO)
- 19. Jarmo Kohonen (GTK)

External participants

- 20. Milan Grohol (DG ENTR)



**EGDI-Scope Ex.Board meeting
 (consortium)**



18-20 November 2013
 EGS/ EARTO Office, Brussels

Attendance List

Name	Partner	Signature			
		18th November	19th November	20th November	EGDI/Min4EU meeting 20th November
Jørgen Tulstrup	GEUS				
Mikael Pedersen	GEUS				
Luca Demicheli	EGS				
Claudia Delfini	EGS				
Céline Andrien	EGS				
Sara Hugelier	KU Leuven				
Francois Robida	BRGM				
Sylvain Grellet	BRGM				
Jean-Jacques Serrano	BRGM				
Matthew Harrison	BGS				
Kathryn Lee	BGS				
Rob van der Krogt	TNO				
Paul Bogaard	TNO				

Minutes

MONDAY, November 18th (1)

12.30 – Registration and lunch

13.30 – Opening, notifications

- Administrative notifications
 - Status of project partners

- GEUS: governance task force: in this I am representing EGDI scope
- EGS: Patrick will replace Isabel
- BHM: Jean-Jacques will retire end of March

13.45 – Agenda, minutes/ reports Malta meetings

- Minutes/Reports Malta meeting: minutes from our last Board meeting
- Report sent to the General Meeting reflects most important decisions and position where we stand now
- Malta presentations EGDIscope + external stakeholders presentations on Intranet: should be discussed

14.05 – Financial and administrative issues/ follow-up

- Everything sent with form C's to Brussels, then payment division to other partners
- Review: is on the agenda

14.20 – Evaluation review 18th November/ follow-up

- Report reflects what was said in the session
- Call with Wim Janssen after receipt of comments/advice
 - D2.2 and D2.3 need to be updated (on use cases)
 - Mistake to use 'use case'
 - Can we take INSPIRE use cases?
 - For implementation plan, we need to be aware of full chain of data policies until policy
 - INSPIRE is probably not enough developed
 - Structure decisions: what part of 'use case' are you describing
- Be clear in definitions that we use
- Therefore more time for deliverables: to work together on documents
- No direct relationship between work program (next call for EGDIscope follow-up) and our review meeting
 - E-infrastructures call
 - We only see very generic calls where we can probably put in some general parts of EGDI
 - There is at this moment not a call which is governing the subject which we would like
 - Find out how to work with this
 - Question was put to Wim Janssen
 - Speak to DG RTD
 - WJ has no power here

14.35 – Feedback from EGS (Luca)

Important meetings, events and decisions

There have been a huge number of meetings, which were important. Main meetings that are of concern to us, are the following:

- Minerals4EU:
Kick-off last September, key project for EGDIscope, only 2 years, very fast evolving. Necessity to establish a permanent structure, and the overall idea was that this could be integrated in the future EGDI.
National delegates established Task Force, to ensure that Minerals4EU and EGDI scope regularly talk together and cooperate to establish this body. Agreed that Task Force should be composed out of 1 representative of Strategy Task Force, 1 for EGDI, 1 for EGS.

Jürgen proposed as representative for EGS, because already one Dutch guy (Paul) in this Task Force. François was suggested. 2 French guys.

- General meeting of EGS in march in Brussels
 - Whole world represented
 - Make a show on EGDI scope
 - Raise interest for engagement
 - Discuss with excom in December if you have concrete ideas we can discuss this
- EUDAT
 - Matt can give feedback but only in February, he sent Helen there
- OneGeology (Paris) (see OneGeology report)
 - EGS was not invited
 - Represented by Marco
- GSA Denver/ Worldbank
 - Director of oil and gas at Worldbank
 - Keep each other updated on actions in Africa
 - I made usual overview of EGS
 - Particularly interested to hear and learn about EGDI scope and Minerals4EU
 - They will also come to EGS General Meeting in March
- ...
 - Feedback from Expert Groups (mainly SIEG)
 - Strategy Taskforce
 - ...
 - the ? Geology has kicked of. Changes in DG RTD, new organigram out in several weeks with changes, should not affect EGDI scope. Linked to new structure Horizon2020
 - GMAS, ProMine, 1GeologyEurope = put it all together, someone who plays with the maps
 - Snapshots showing has a lot of input, show that you can put all the data together
 - For EU stakeholders in EC very good examples to show
 - GMAS is finalized but it is not yet connected to 1Geology
 - PanGEO almost concluded, not integrated with 1Geology, should be transferred and maintain
 - Break-out group: if we show something, we should be able to integrate it in the future
 - Water Resources Expert Group
 - Klaus wanted to present EGDI scope and discuss possibility to develop use case
 - No feedback so far
 - Earth Observation Group
 - A new chair, not formally appointed
 - Two deputy chairs are now acting chairs
 - Vote for new person, 6 December voted by Excom
 - It is Gerardo Raia from Spain
 - GEO-X: Eurogeosurveys Delegation: 13 – 17 January
 - No further news yet for EGDI scope
 - Idea is to have a booth there, we can organize special session or presentation if we want
 - Claudia, François, Rob, Luca – all submissions went through
 - OneGeology Meeting: consortium funding

15.00 – Preparations for implementation plan/ follow-up EGDI-Scope

- ‘Overall implementation plan for the EGDI’
 - Which components?
- Governance \neq permanent body
- Requirements: a way to measure efficiency of implementation
- Do we plan to deliver one implementation plan or different scenarios?
 - Roadmap instead of final plan
 - Envision end-stage
 - At the implementation stage we need very concrete plan
 - Same for permanent body, for extensions you need to build framework
 - New projects: how do you connect them to permanent body
- 3 models for permanent body
 - e.g. EPOS starts implementation of EPOS: option to optimize and share developments with EPOS
 - If EPOS does not start, we need to do the job ourselves, probably not the same resources, therefore we need different track
 - Different options should be feasible
 - We should incorporate in the beginning of the analysis, a few scenarios and envisage what
- INTRO: vision on future EGDI
- Chapter 6:
 - Justification or elaboration on this
 - Plan how to do it
 - Basic structure
 - Other elements will be part of it
- Interface is missing
- Every partner should write 10 lines on what the EGDI means for them.
- Main audience: technical people, directors

- Relevant calls/ opportunities (see draft WP’s ICT and e-Infrastructures)
 - No calls that match what we would like to achieve
 - Opposite to former message of Wim Janssen
 - Infra dev 1 call for design studies
 - Too thin, would be again EGDI scope
 - Infra dev 2 call: could be relevant, nevertheless EGDI is not on ESFRI list
 - It takes at least 3 years
 - No way for 2015
 - Very political to get on that list
 - E infra managing preserving big research data

- Selling a data infrastructure, no, we sell solutions for research issues, in terms of energy, water, mineral resources, etc.
 - That is what excites society about what we can offer
 - Back to ‘visions’

16.00 – Break

16.15 –Governance (slides Task Force Governance)

- Governance:
 - Main principles/ goals
 - EGS Strategy
 - Tasks

- Technical
 - Software licensing
 - Maintain system
 - Enhance/update system,
 - Technical support
 - Service specification
 - Standards
 - Monitoring systems
 - User interface management
 - User management
- Organizational/management
- Quality control
- Communication
- Advisory
- Product specification
- Involvement
- Organization, power, responsibilities
- Permanent structure: options
- ...
 - Funding options
 - ERA-NET
 - Everyone 1% is this an option? Joint action for INSPIRE more effective.
 - Conclusions and arrangements
- We need to know how to organize this
- Find examples of what governance issues we can encounter, try to anticipate on this
- Questions:
 - We promise pan-EU, how do we manage if some MS do not deliver
 - How to make sure that ERIC will deliver
 - Intellectual Property: part of the infrastructure, who owns it, how to handle it
 - Extrapolate on some of those
- 1GeologyEurope: what about this.

18.00 – Closure

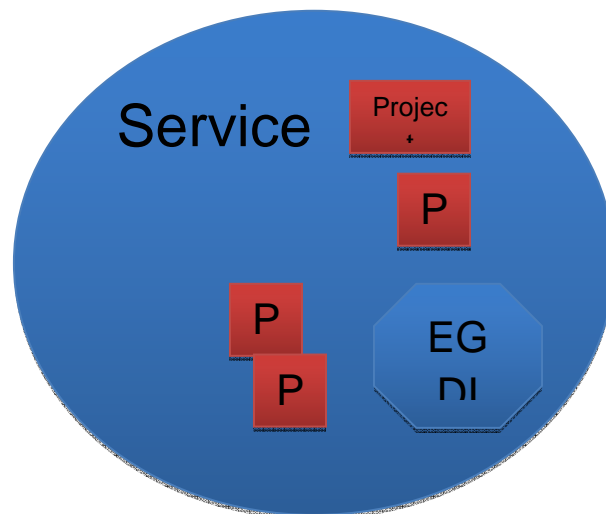
TUESDAY, November 19th (1)

9:30

Continuing with governance debate

- Let's wait until other projects have governance model or discuss it with them
- No, EGDI scope promised that we would deliver a governance model and a permanent infrastructure (operational infrastructure), so we should deliver it
- Other bodies can partake in this infrastructure
- Arrangement should be on two parts
 - Technical aspects
 - Thematic aspects
- Distributed level
 - In kind
 - Funding/contribution
- Central level
 - Statutes
 - Work plan

- We now have expert groups, stakeholders and directors
- EGDI part of service



- Do we need to be more proactive in that?
- Information driven service: what does it take to set up this information driven answer when you have example of shale gas
 - Not a good example
 - Radon is a better example: agreed methodologies that involve understanding of methodologies
- Strong connection service layers
- Projects/partners that start,

14.00 – Use cases, stakeholder consultation & prioritization datasets (WP2 + WP3)

- Prioritization thematic areas and datasets (see memo MP/ KL 23/9)
 - It ties everything in nicely, questionnaire as well as workshops as well as previous project
- Use cases (for implementation phase)
- INSPIRE
- Requirements
- Progress with Stakeholder Panel/ Forum
- Planning further stakeholder involvement
- Progress on deliverables
- External connections/ (international) networks EGDI
 - GEO(-SS)/ EUDAT/ InGeoClouds...
 - Involvement private partners (see review report, Recom. F):
 - 'Case Google ' (see report D5.1)
 - Involvement of commercial providers and end-users

11.15 – Break

11.30 – Technical design (see presentation JJS 18/9) (WP4)

- Technical requirements (incl. results from Malta)
- INSPIRE requirements
- Overall design options
- Components (implementation phase/ maintenance structure)
- Towards cost estimations
- Choices/ Towards a Roadmap
- ...

- some minimal staff for technical operation

12.30 – Lunch

13.30 – Technical design (see presentation JJS 18/9) (WP4)

- *(Follow-up discussion, conclusions and actions)*

14.00 –Towards framework for implementation of 3D models (D3.4)

14.30 – Communication & Dissemination

- Website and intranet
- EGU-Assembly 2014 (April/May 2014)
- Brussels end meeting/ final symposium 2014
- GEO Geneva (January 2014)
- Geospatial World Forum (May 2014)
- Other events
- Comm. & Diss. Materials

15.30 - Break

15.45 – Legal and organizational aspects/ Governance

- Update D5.2 (see draft)
- D5.3 'report on governance structures'
- Conclusions and arrangements

16.15 - EPOS/ EGDI: shared vision from EGDI perspective

- Clarification of particular roles of EGDI/EPOS, connections and positions (our decision to prepare a memo with shared vision) (see also presentation JJS 18/9 slide 25);
- Establish common agreement among EGS-members about this shared vision on EGDI/EPOS;
- Recommendation from review/ DG CNECT to EGDI-Scope consortium to contact ESFRI.
- One Geology Europe/ EGDI/EPOS

17.00 – Preparation session with Keith Jeffrey from EPOS

- Towards development of a joint demonstrator
 - Thematic
 - Requirements
 - Datasets
 - Technical
 - Organizational (& governance)
 - Planning

17.30 – Update meeting joint meeting EGDI/ Minerals 4EU

(Proposed agenda: see WEDNESDAY November 20th)

18.15 – Closure

WEDNESDAY, November 20th (1)

9.00 – Meeting with Jeffrey Keiths about EPOS/ joint demonstrator

- EPOS e-infrastructure and possible interaction with EGDI(-Scope)
- LEGAL
 - EPOS has national portals because there are national legal requirements to access to data, this way they can adapt it.
 - Liability: governance (contractual agreements), liability, EPOS is set up as an ERIC
 - Permissions: e.g. France has special legislation on transfer of data (also privacy)
 - Intellectual property, ownership of data
- (Technical) approach EPOS e-infrastructure
- Possible setup of a ‘joint demonstrator’
- Planning and arrangements

10.30 – Break

Report on D5.2_Regulation and policies

- Specify to use case
- How will this work in practice?

10.45 – Implementation plan/ follow-up EGDI-Scope

- Further outline ‘Overall implementation plan for the EGDI’
 - Contents (+ table of contents D1.3 ‘Overall implementation plan EGDI’)
- Consequences wrt relevant calls follow-up EGDI-Scope
- Arrangements implementation plan and follow-up

11.50 – Planning & Arrangements

12.00 – Closure EGDI-Scope Board meeting

13) EGS meeting - Taskforce Governance 9-12-2013

9 December 2013, EuroGeoSurveys, Brussels

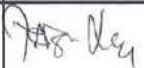
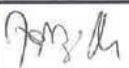


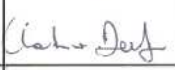
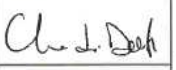






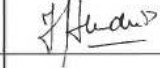







EuroGeoSurveys meeting Taskforce Governance - EGDI-Scope



9^o December 2013
 EuroGeoSurveys, Brussels

Attendance List

Name	Partner	9th Dec. 2013	9th Dec. 2013
Jørgen Tulstrup	GEUS		
Mikael Pedersen	GEUS		
Luca Demicheli	EGS		
Claudia Delfini	EGS		
Céline Andrien	EGS		
Sara Hugelier	KU Leuven		
Francois Robida	BRGM		
Jean-Jacques Serrano	BRGM		
Sylvain Grellet	BRGM		
Matthew Harrison	BGS		
Kathryn Lee	X BGS		
Rob van der Krogt	TNO		

Actions

- EGU Vienna *Tuesday 29th of April*
- Luca/Rob *Meeting with Wim Janssen*
- François *Spatial Expert Group planning/presenting D2.4*
- EGDI *Teleconference before spatial expert group*

Report EXcom on EGDIScope

- Fully supportive of EGDI
- Happy with participation at EGU Vienna, EGS will have booth there
 - o Tuesday 29th April, 10u30
 - o Special plenary session with invited politicians from Brussels
 - Focus on EP committee on ENV and IND&Research, intergroup on environment, health and climate change
 - Someone from EC (but EP will have more weight than EC)
 - o We will promote EGDI
 - o Science policy workshop on the role of geoscientists in public policy
 - EGDI will come naturally into the discussions
- Concern with Minerals4EU
 - o Project manager that M4EU is not an independent project from EGDI
 - o Conceived as one pillar of EGDI, as written also in DoW
 - o Up to TaskForce to try to work on it, not too disruptive
- Move forward diplomatically
- Not yet meeting with Wim Janssen
- EGDI needs financing source
 - o Luca tries to have meeting with person from Research Infrastructure
 - o But not enough

Discussion on EGDI-scope memo: update on governance

- Let's make a more graphical demonstration of our visions
- Is every geological survey able to join? What does different tiers of membership mean?
- Spatial expert group: normally meeting in February, most of the chairs then organize a meeting in January to prepare for the February meeting (up to François)
 - o February meeting would be a sensible place to deliver it, they want input from these experts on this deliverable
 - o Teleconference amongst ourselves to discuss
- Expert groups in Minerals4EU, must have role in EGDI
- Expert groups: time must be dedicated to possibilities with EGDI
- Meeting should be organized, something regular

Design and implementation

- Spatial expert group could formally or informally be part of it
- Minerals4EU at present most important case study for EGDI, they are at this moment the project implementing part of EGDI
- Core project:
 - o Minerals4EU/EUrare
 - o 1GE+
 - o EmodNet (implemented by EC)
- We need a 'central facility' – should be main focus of discussion on governance
- Common tasks
- Technical guidelines
- Legal tasks

Permanent Operational Infrastructure

	Central Tasks		Distributed tasks
	Central	Delegated	
Annual work plan	0,2		1 day (X31)
Outsourced: daily maintenance of technical infrastructure		0,3/50K€	5 days per year per survey (31 surveys in total)
Write tender, specify requirements	<0,1	X	
Data standard Management Maintenance standards INSPIRE/OGC	X	min 0,2 fte, max 2,0 fte	min 0 per survey, max 0,2 FTE per survey
Central database management	X	min 0,1 max 2 people	
Connection with new projects for EGDI	X	Less than 0,1	
Portal management 1GE Min4EUEmodnet EURare Software tools		1 FTE (4 projects)	
Quality and content control	< 0,1 FTE		0,1 on average X31
Legal tasks Communication		0,1 FTE	0,1 FTE x 31
Central contact point	0,1 FTE		
Helpdesk IT Content		1 FTE	
Survey contacts EGDI			5 days per year X31
Daily management Secretariat Communication	0,5 FTE 1 FTE		
Results: For 4 projects For 10 projects	Min: 5 FTE Max: 7 FTE 8 – 10 FTE		Min: 0,2 Max: 0,4 0,6 FTE (x31)

Numbers per year

Permanent Operational Infrastructure

Data standards management

- Maintaining
- Influencing, contributing (going to all meetings, part of designing, etc.)
 - o Coordination
 - o Up to individual surveys to get involved

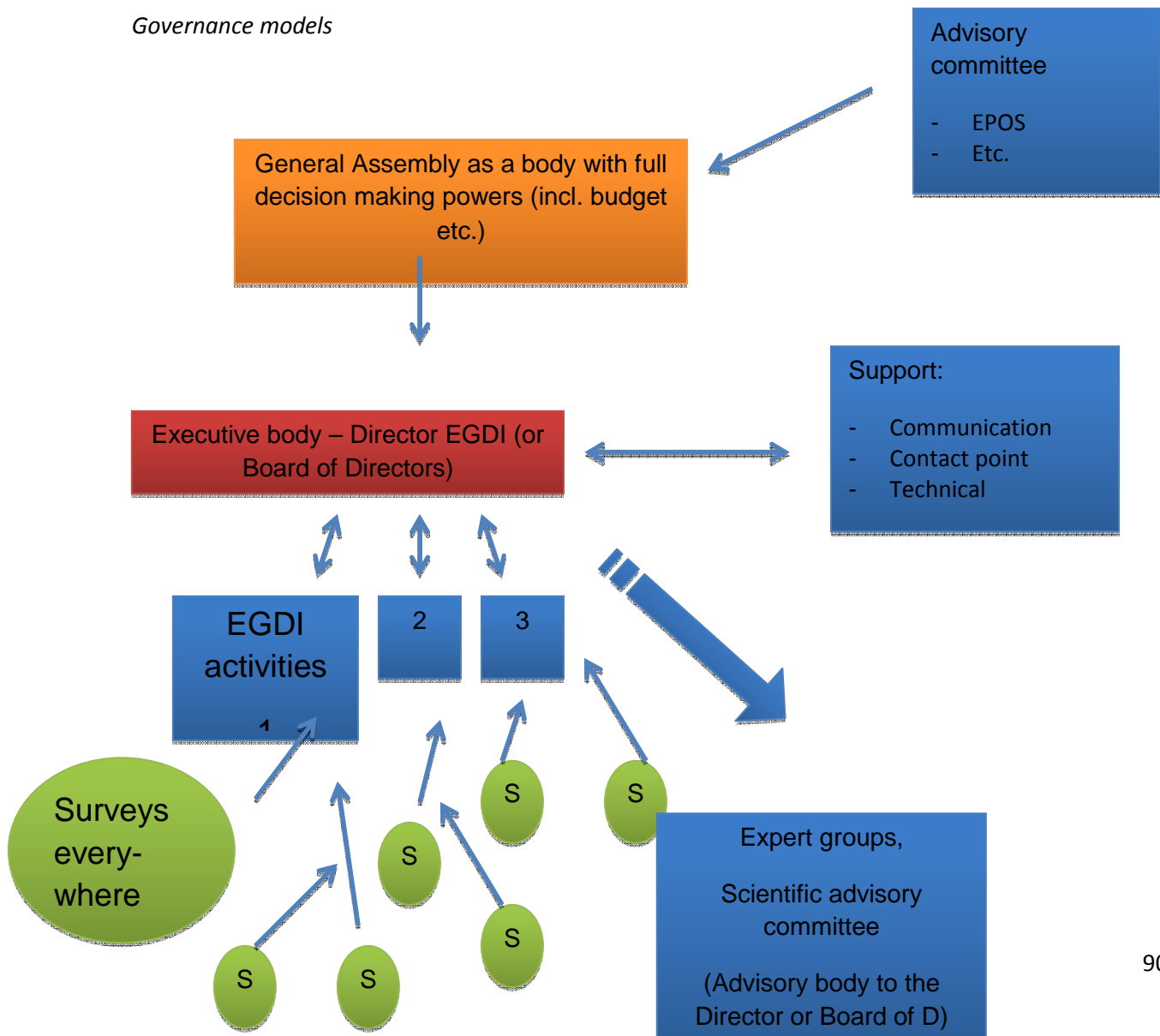
Data management

- Sizable task
- Central database of users, data, metadata
- Data created by EGDI on its own e.g. Imodnet will not be distributed, someone needs to maintain that
- E.g. PanGeo partially distributed, partially pdf file

Portal management

- Maintained at same place
- Different divisions (Dutch example Paul)
- Content must be maintained, portal will die, but content needs to live on within EGDI structure, we don't need to maintain all these different portals
- Paul: EGDI could take over knowledge system part on behalf of M4EU, egdi could run that data, might be wider than surveys, they are competent for text on portal etc.
 - o Luca: this works for M4EU but for most other projects might not work, because EGDI needs system that runs continuously and other projects would die
 - o We need self-sufficient system
 - o There are projects that needs to exist on their own
- E.g. Subcoast for example, portal will die, we can absorb it as EGDI but who will maintain it?

Governance models



Decisive Representation

- Operational scenarios
 - o Bigger/smaller central office: 2 FTEU / 6-8 FTE
 - o Or delegate activities to surveys
 - o Or surveys outsource capacity

Overview of possibilities for permanent bodies

Sara is working on this.

14) Executive Board/ project meeting 20/21-03-2014

20-21 March 2014, BGS, London

Agenda

THURSDAY, March 20th (1)

9.00 – Registration at Medical Research Council, One Kemble Street Coffee/tea

9.30 – Opening, notifications

9.40 – Agenda, minutes/ reports/ att. lists

10.00 – Financial and administrative issues

10.15 – Feedback meeting Wim Jansen 19th March

10.30 – Feedback from EGS

- Important meetings, events and decisions
 - Meetings with DG ENTR, DG RTD, JRC
- Feedback from Expert Groups
- Strategy Taskforce
- ...

11.00 – Break - Mid morning refreshments & biscuits

11.20 – National Delegates and General Meetings/ Follow-up

- Memo General Meeting

11.50 – Stakeholder involvement

- Status and follow-up

12.15 – Status and progress wrt deliverables: Technical Infrastructure

- D4.3 Report on infrastructure needs

12.30 - Lunch

13.45 – Status and progress wrt deliverables: Technical Infrastructure

- D4.4 Report on recommendations for implementation of the EGDI

14.30 – Status and progress wrt deliverables: Legal and organizational aspects

- Draft report strategy Taskforce
- Exchange about legal and decisive structures EGDI
- D5.3 Report on Governance structures
- D5.4 Guidelines for the legal and organizational framework

- 15.15 – Preparations for implementation plan/ follow-up EGDI-Scope
- Follow table of contents report D1.3 ...

16.00 – Break – Coffee/Tea & biscuits

- 16.15 – Preparations for implementation plan/ follow-up EGDI-Scope
- Follow table of contents report D1.3 ...

18.15 – Closure day 1

19.30 Joint dinner

FRIDAY, March 21st

**9.00 – Registration at Natural History Museum, Exhibition Road
Coffee/tea**

- 9.15 – Preparations for implementation plan/ follow-up EGDI-Scope
- Follow table of contents report D1.3 ...

11.00 – Break - Mid morning coffee/ tea & biscuits

11.15 – Finalization of Presentation for GM 25th March

13.00 – Lunch

- 14.00 – Program/ Preparation full consortium meeting 28th April
- ...

15.00 – Coffee/ tea & biscuits

- 15.15 – Communication & Dissemination
- EGU 2014, Vienna
 - Program and preparations
 - Final meeting, 20th May. Brussels
 - Program and preparations
 - Newsletter
 - Brochure
 - Website
 - Gadgets, etc.

16.45 – arrangements, planning - **Closure**

Venues

EGDI WP Leader Meeting - DAY ONE

20th March – Medical Research Council, Head Office. Meeting Room L13 – 12: 9 – 6pm

13th Floor, One Kemble Street, London, WC2B 4AN

EGDI WP Leader Meeting - DAY TWO

21 March – Natural History Museum, Exhibition Road. Meeting Room EG201: 9-5pm

Contact info:

Katy Lee kbo@bgs.ac.uk 0785 456 9865 or 0780 360 5510

Rob van der Krogt mobile: +32 6 3164 2893

Attendance List



**EGDI-Scope Ex.Board meeting
 (consortium)**



20-21 March 2014
 BGS, London

Attendance List

Name	Partner	20th March 2014	21st March 2014
Jørgen Tulstrup	GEUS		
Mikael Pedersen	GEUS		
Luca Demicheli	EGS		
Claudia Delfini	EGS		
Céline Andrien	EGS		
Sara Hugelier	KU Leuven		
Francois Robida	BRGM		
Jean-Jacques Serrano	BRGM		
Sylvain Grellet	BRGM		
Matthew Harrison	BGS		
Kathryn Lee	BGS		
Rob van der Krogt	TNO		

Minutes

Feedback

Meeting with representatives of DG ENTR, DG Connect, DG Energy, DG RTD, JRC ... 19th March: main subject: towards ERANET/ Article 185

Presence of EGS ExCom, P. Bogaard; presentation EGS Strategy.

Presentation MvBracht to be distributed to project team.

Short meeting with Wim Jansen, to discuss actual progress EGDI-Scope; now connection with EGS strategy is more clear. Most important: EGS community to act on EINFRA-9-2015, as follow-up for EGDI-Scope (elements of it)

EGS

Luca reported:

- Meeting DG ENTR (above)
- Geneva GEO X
- Etc.

(to be reported in draft newsletter)

Planning and programme full consortium Meeting

To be connected to EGU Assembly 2014, Vienna

Proposed program:

Date: 28th April, meeting of 4-6 hours (lunch + full afternoon)

Venue: EGU and/ or GBA (Austrian Geological Survey)

- Welcome and Introduction GBA – Geological Survey of Austria
- Opening statements
 - Status and key results of EGDI-Scope (Rob)
- EGS Strategy and governance developments/
 - feedback Delegates and General Meetings (Luca)
- Presentation EGS and EGDI at EGU program + final meeting EGDI (Claudia)
- Thematic parallel sessions:
 - **Towards a Geological/ Geoscience System for Europe**
 - Introductions:
 - **EGDI: Architecture/ information system** (François / Sylvain)
 - **Functional requirements, use cases, datasets** (Mikael, Katy)
 - Debate
 - **Governance, Funding and Roadmap EGDI**
 - Introduction:
 - Follow-up towards implementation of the EGDI (Rob)
 - Debate
- Wrap-up/ follow-up/ closure

Options implementation plan EGDI

Option 1 – Limited coordination of current initiatives

Starting point: use established bodies, decision structures and current levels of collaboration between surveys at European and cross-border level.

The EGS, the Expert Groups, with an emphasis on the Spatial Information Expert Group (SI-EG), and surveys collaborating in consortia on EU-funded projects, co-ordinate their efforts towards an integrated approach of the data infrastructures connected to the most relevant EU-projects and resulting datasets. In phase 1 these efforts will concentrate on OneGeologyEurope (-plus), EMODNET, Minerals4EU (including EuroGeoSource, ProMine,...), EURARE and GEMAS (as suggested, not yet elaborated). The collaboration will be organized under the ‘umbrella’ of current and upcoming funded projects, and available capacity within the Expert Groups.

The SI-EG will play an important role to maintain and further develop technical, functional, legal and other standards and requirements proposed by EGDI-Scope, EGS staff will play an important role with regard to communication and dissemination, co-ordination at organizational level, and lobby/network activities.

Main developments regarding EGDI will be decided under the current EGS-decision structure.

Possible funding sources: current projects EMODNET2, Minerals4EU, EURARE, OneGeology, (Danube case with JRC/ OneGeology Europe).

Additional capacity for EGDI will be negotiated on a more ad-hoc basis.

Start: mid-2014/ End phase 1: until availability of substantial funding for setup of EGDI work force.

Option 2 – Establishment of EGDI Working Group

Starting point: establishment of an EGDI Operational Working Group. At his stage it is foreseen that this Group will take up the following operational tasks:

<i>Functions/ tasks of EGDI Operational Working Group</i>	<i>Estimation required capacity (in Man Months (MM))</i>
○ Inventorize commitments of surveys and make arrangements	<i>pm</i>
○ Prepare for operational structure: <ul style="list-style-type: none"> ○ Legally: initially to establish legal basis for the Working Group; secondly towards a sustainable operational structure; ○ Personnel (for startup and towards sustainable operational structure) 	<i>pm</i>
○ Build central access portal	<i>pm</i>
○ Provide Technical infrastructure	<i>pm</i>
○ Build/adapt/ update infrastructure from EuroGeoSource	<i>pm</i>
○ Execution of quick-win activities: Integrate 1GE(+), EMODNETGeology, EuroGeoSource, EURARE, GEMAS	<i>pm</i>
○ Setup suitable licensing system	<i>pm</i>

o Design decisive structure / draw up statutes /bylaws		<i>pm</i>
o Communication, dissemination		<i>pm</i>
o Stakeholder involvement		<i>pm</i>
o Project management		<i>pm</i>
o Investigate and act on funding opportunities (e.g. DG-Connect call 'Virtual Research Environments')		<i>pm</i>
Travel + out-of pocket costs (incl. licenses, legal contracts, etc.)	€ -----	<i>(pm)</i>
Total		10 - 30 MM + pm out-of-pocket costs

Initially, part of the work concentrates on building a prototype EGDI, based on results from current projects.

Participation in this working group is possible for every geological survey in Europe. Each survey can contribute on a voluntary basis, providing manpower, budget, software or any other relevant contribution. After the General Meeting of 25th March 2014, EuroGeoSurveys will make a request to the surveys to specify their possible commitments. After it has been settled which contributions can be expected, the surveys will collaborate on a project basis. Further organizational and governance arrangements will be developed in exchange with representatives of all geological surveys, within the framework of guidelines and principles from the EGS Taskforce Governance and results of the EGDI-Scope study.

The EGDI Operational Working Group will report to the EGS ExCom.

The estimated total costs for the activities of the EGDI core executive work team are **10 - 30 MM + pm out-of-pocket costs, for 18 months**. (A minor) part of these costs could possibly be allocated from current funding sources: current projects EMODNETGeology2, Minerals4EU, EURARE, OneGeology, (Danube case with JRC/ OneGeology Europe).

The objectives and tasks of the proposed EGDI Operational Working Group will be guided by rules and recommendations according to the Implementation Plan for EGDI, which will be the final result of the EGDI-Scope study (finalized in May 2014). In addition, the (EGS-) Taskforce Governance report will also provide a framework for organizational aspects of the EGDI, e.g. concerning the realization of the required operational structure at European level.

Start: mid-2014/ End phase 1: until availability of substantial funding for full implementation of the EGDI (estimated duration 18 months).

Option 3 – Full implementation of EGDI

Starting point: The NGSO's work together towards the full implementation of the EGDI. For the greater part, funding and coordination is in the hands of the surveys, and will be provided for a number of years.

The start phase is similar to option 2, but on a larger scale. Additional current and recently finalized EU projects and accompanied results will be included in the EGDI Infrastructure, including the co-ordination work. There are several requests for such additional connections to the EGDI, especially

from the geohazard and groundwater domains (e.g. PanGeo, SAFELAND, LAMPRE, DORIS, SubCoast, WISE, eWater, GeoMol...). Also the 'GeoREP' initiative from the Earth Observation Expert Group could fit within this framework.

The associated activities will be taken up by the an EGDI Operational Working Group as proposed also in option 2.

Secondly, option 3 includes the setup of a common operational structure at European level, to be established after this has been properly prepared by the EGDI Operational Working Group. At certain point this common operational structure will take over the tasks and position of the EGDI Working Group.

The activities of the common operational structure include:

- Annual EGDI Workplan
- Maintenance technical infrastructure
- Specify requirements techn. Infrastructure (+tender)
- Data & standard management (maintain, coordinate, influence: INSPIRE, OGC, ...)
- "Central" database management
- Connection EGDI – new projects (#4): technical, process, content
- Portal management (including software tools)
- Quality control (content/ delivery)
- Legal tasks (monitoring, communication, licenses)
- Central contact point
- Helpdesk (technical support, advisory on IT and content)
- Survey contacts EGDI
- Dayly management
- Secretariat/ communication

Start: mid-2014/ End: until operational phase of ERANET/ Article 185 and associated substantial (project) funding, not to be expected before 2-3 years from now.

Very broad cost estimations for option 3:

- EGDI operational working Group: 60 MM + out-of-pocket costs (option 2 + additional projects)
- Annual costs common operational structure (estimations for sustainable data maintenance and development for 8-10 EU projects/ programs) : 100 MM + 7 MM each survey (x31 EGS members)
➔ Total costs $60 + 100 * 2$ (years) + $7 * 2 * 31 =$ **approx. 700 MM (2-3 years)**
(of which approx. 450 MM at the level of individual surveys)

Preparation presentation General Meeting 25th March 2014



EGDI: Status



- ▶ **End of EGDI-Scope study (31st May 2014)**
 - Implementation Plan EGDI available (May 2014)

- ▶ **Availability reports on:**
 - Use cases and stakeholder requirements
 - Availability and need for cross-border and EU-level datasets
 - Technical infrastructure
 - Legal and organizational topics

- ▶ **Strong networks and outreach:**
 - NGSO community, Expert Groups
 - External stakeholders: DG's, JRC, EEA, EPOS, etc.

- ▶ **Key datasets and services already available:**
 - TGE(+plus), EuroGeoSource, Promine, EMODnet, PanGeo, etc.

- ▶ **Challenges**
 - Unlikely **EU-funding** for implementation or maintenance of data infrastructures until mid 2015
 - Call 'E-infrastructures for virtual research environments'



EGDI: Need



- ▶ **EGDI supports challenges and policy development at EU level**
 - Request from DG's to provide pan-European geological data and derived information

- ▶ **EGDI supports sustainability of investments at EU and national levels**
 - Continued accessibility to EU-project results (safeguard > 250 mln previous investments)

- ▶ **Increase visibility EGS partners**
 - EGDI supports "principal supplier"-role for geological information at EU-level

- ▶ **Maximize added value at national level**
 - Higher **efficiency** new EU-projects/ **INSPIRE**
 - accessibility Geological Data/ Information for different stakeholders (policy, industry, research)

- ▶ **Strengthening collaboration EGS partners and EU-institutions**
 - EGDI pre-conditional for **EGS Strategy** towards a European Geological Service





Towards decisions: Objectives



EGDI Roadmap:

Scoping → implementation → sustainable common infrastructure and operational structure → extensions/ further development

Strong need for continuity at short term:

Focus on Implementation PHASE 1, objectives:

- ▶ **Bridging the 'gap'** (wrt EU-funding/ end EGDI-Scope study)
- ▶ **Keep key datasets/ services alive!**
- ▶ **Maintain network:** connections with projects, stakeholders, etc.
- ▶ **Prepare for call** ('E-infrastructures for virtual research environments')
- ▶ **Follow-up work towards 'governance'**

→ 3 Options to meet these objectives



Towards decisions: Option 1



→ **OPTION 1: Limited coordination of current initiatives**

'Business as usual': Make use of current bodies, decision structures and levels of collaboration:

- ▶ Realization EGDI depends on:
 - current EU project consortia
 - EGS
 - Expert Groups, mainly SI-EG
- ▶ Ad-hoc negotiations for additional capacity for EGDI
- ▶ Start mid-2014, until availability substantial funding





Towards decisions: Option 2



→ **OPTION 2: Establishment of EGDI Working Group**

- > *Main tasks:*
 - Co-ordinate between most relevant current and future projects, e.g. Min4EU
 - Prepare operational and decisive structure EGDI wrt surveys, EGS, Expert Groups, stakeholders, etc.
 - Further investigation of technical, legal topics
 - Keeping engaged with external stakeholders
 - Investigate and act on funding opportunities: incl. prepare for call
- > *Needed resources: ~ 10-30 Manmonths*
- > *Time span: approx. 18 months (mid 2014 - end 2015)*
- > *Reports to EGS ExCom*
- > *Every interested survey can participate*
 - On voluntary basis
 - Manpower, budget, software, other relevant contributions
 - Focus on hands-on work

→ *Guidance from EGDI-Scope Implementation Plan + report Strategy Taskforce*



Towards decisions: Option 3



→ **OPTION 3: 'Complete' implementation of EGDI**

- Build EGDI (phased approach)
 - Include results from multiple (EU-)projects
 - Build common infrastructure
- Create common operational structure at EU level
- Estimated resources
 - ~250 MM (European level), plus
 - ~450 MM (surveys, at national levels)
- Time span: 2-3 years

15) Progress meeting (full consortium) 28-04-2014

28 April 2014, GBA, Vienna

Agenda

MONDAY, April 28th (1)

12.00 – Registration and buffet lunch at GBA

(Geologische Bundesanstalt, Neulinggasse 38, 1030 Wien)

13.00 – Welcome and Introduction GBA – Geological Survey of Austria

13.10 – Opening statements

Status and key results of EGDI-Scope (Rob van der Krogt, Coordinator EGDI-Scope)

13.40 – EGS Strategy and governance developments/ feedback Delegates and General Meetings (Luca Demicheli, General secretary EGS)

14.00 – Presentation of EGU program and final meeting EGDI (Claudia Delfini, Leader WP6 (Communication))

14.15 – Thematic presentations and debate (1)

• Towards a Geological/ Geoscience System for Europe

○ Introductions:

▪ EGDI: From data architecture towards information system?

(François Robida (Chair Spatial Information Expert Group), Sylvain Grellet (leader WP4 'technical infrastructure'))

▪ Functional requirements, use cases, datasets... (Mikael Pedersen (leader WP2 'Stakeholder Involvement'), Katy Lee (leader WP3 'Prioritization of Datasets'))

○ Debate

15.40 – Break - Coffee/Tea & refreshments

16.00 – Thematic presentations and debate (2)

• Governance, Funding and Roadmap EGDI

○ Introduction:

▪ Follow-up towards implementation of the EGDI (Rob van der Krogt)

○ Debate

17.15 – Wrap-up of the day and follow-up

17.30 – Closure

Venue

GBA - Geologische Bundesanstalt, Neulinggasse 38, Wien

+43 1 7125674

Attendance List

Attendance List

Name	Partner	28th April 2014
Jørgen Tulstrup	GEUS	
Mikael Pedersen	GEUS	<i>Mikael Pedersen</i>
Luca Demicheli	EGS	<i>Luca Demicheli</i>
Claudia Delfini	EGS	<i>Claudia Delfini</i>
Céline Andrien	EGS	
Sara Hugelier	KU Leuven	<i>Hugelier</i>
Francois Robida	BRGM	
Jean-Jacques Serrano	BRGM	
Sylvain Grellet	BRGM	
Matthew Harrison	BGS	<i>M. Harrison</i>
Kathryn Lee	BGS	<i>KLee</i>
Rob van der Krogt	TNO	<i>Rob van der Krogt</i>
DANA CAPOVA	CGS	<i>Dana Capova</i>
JAN HOSTI	NGU	<i>Jan Hosti</i>

28 April 2014
 GBA, Vienna

Name	Partner	28th April 2014
MARY CARTER	CSI	Mary Carter
TOMAN NATECZ	PGI	<i>[Signature]</i>
GEORGE TUDOR	IGR	<i>[Signature]</i>
LARS KRISTIAN STJØLEN	SGU	<i>[Signature]</i>
MARTIN SCHEGL	GBA	<i>[Signature]</i>
CHRISTINE HÖRFARTER	GBA	<i>[Signature]</i>
TURCUI KRATSOH	IFFI	<i>[Signature]</i>
Michael Vd Mente	TNO	<i>[Signature]</i>
MARCO KOMAC	GeozS	<i>[Signature]</i>
Svetlana Dierpolder	Sermon-9303	<i>[Signature]</i>
STEFAN KÄGER	SEAD	<i>[Signature]</i>
ΕΛΕΥΘΕΡΙΑ ΠΟΥΛΑΔΗ	IGME-GK	<i>[Signature]</i>
CARLO CIPOLOTTI	ISPRA	<i>[Signature]</i>
KRISTINE ASCH	BGR	<i>[Signature]</i>

Name	Partner	28th April 2014
GREGGORY SYLVAIN	BRCN	<i>[Signature]</i>
MATEUSZ HORDEJUK	PGI-NRI	<i>[Signature]</i>
François ROBIDA	BRLM	<i>[Signature]</i>

Minutes

Welcome and Introduction GBA – Dr. Peter Seifert, Director of Geological Survey of Austria

Introduction and status report EGDI-Scope by Rob van der Krogt

EGS Strategy and governance developments/ feedback Delegates and General Meetings by Luca

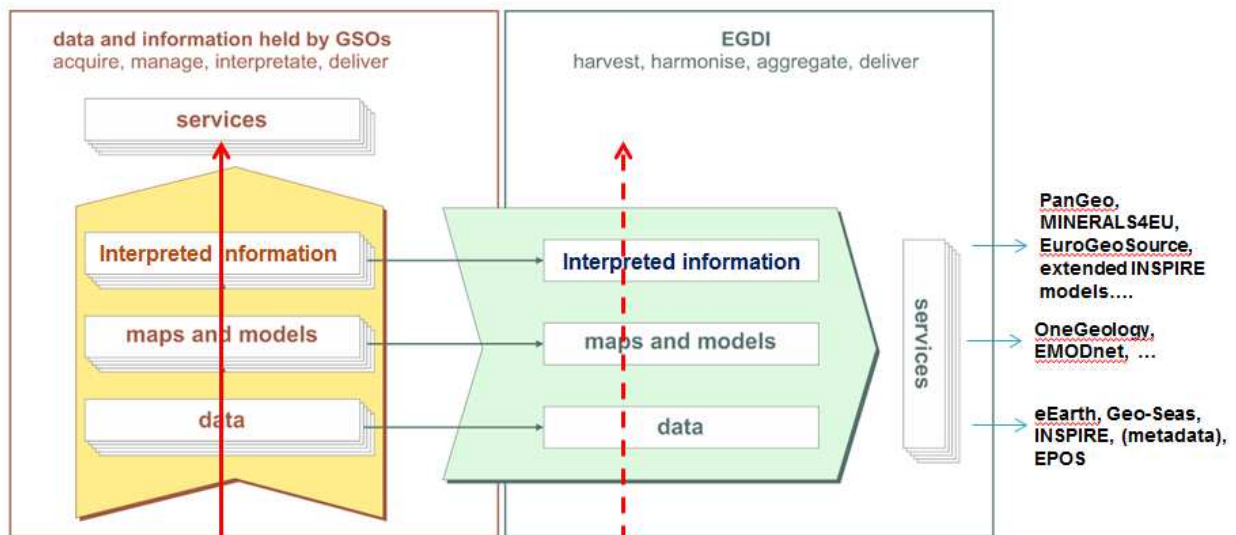
Presentation and discussion final implementation plan EGDI

The main part of the meeting has been spent to present (by Rob) and discuss the contents of the draft report D1.3 (final implementation plan EGDI). The report will be finalized mid May 2014, before the final meeting in Brussels with stakeholders (planned 20th May). At this meeting the representatives from NGSO's had the opportunity to discuss and review the statements, principles and decisions following from the current content of the draft report D1.3.

Why EGDI?

- ▶ EGDI supports challenges and policy development at EU level
 - Request from DG's to provide pan-European geological data and derived information
- ▶ EGDI supports sustainability of investments at EU and national levels
 - Continued accessibility to EU-project results (safeguard > 250 mln previous investments)
 - Increase visibility EGS partners
 - EGDI supports "principal supplier"-role for geological information at EU-level
 - Maximize added value at *national* level
 - Higher efficiency new EU-projects/ INSPIRE
 - accessibility Geological Data/ Information for different stakeholders (policy, industry, research)
 - Strengthening collaboration EGS partners and EU-institutions
 - EGDI pre-conditional for EGS Strategy towards a European Geological Service

Scope



Character of EGDI discussed:

- Data Infrastructure or:
- Information System?

To be discussed later/ presentation by BRGM

Proposed research topics	Health, demographic change and wellbeing	Food, Agriculture, Marine research, Bio-economy	Secure, clean and efficient energy	Smart, green and integrated transport	Climate, Environment, Resource efficiency, Raw materials	Inclusive, innovative and reflective societies	Secure Societies
Mineral Resources		X	X	X	X	X	X
Geo-Energy			X		X	X	X
Marine Geology		X	X	X	X		
Geohazards	X		X		X		X
Geochemistry	X	X			X		
Water resources	X	X			X		
Superficial Deposits	X	X		X	X		X
Spatial Information	Harmonised and interoperable datasets and information services						
International Cooperation and Development	Engage and collaborate with the international geological community						
Subsurface modelling	Systematic characterization to support sustainable management and use of subsurface space						

EGDI Roadmap to be connected to strategic research Agenda European Commission/ H2020

Prioritization Datasets and use cases

Subject of Roadmap/ growth model:

- INSPIRE + Use cases for thematic areas:

- Geology

(OneGeologyEurope / EMODNet – forward)

- Mineral resources

(Minerals4EU/ EuroGeoSource, Promine, EURare,...)

- Geohazards/ ground instability

(TerraFirma, PanGeo, Doris, SubCoast,)

- Soil/ Superficial deposits

(GEMAS, ...)

- Water resources

More detailed contents of datasets presented by Mikael and Katy (WP2/ WP3 leaders), plus from illustrative use cases (see presentation):

Geology

- OneGeologyEurope 1: 1 million surface geology
- OneGeologyEurope 1:1 million bedrock
- EMODnet-Geology I - 1:1 million substrate map

Mineral Resources

- Promine dataset on mineral deposits, anthropogenic concentration layers, mineral potential maps, predictive maps
- EuroGeoSource dataset on mineral occurrences and mines
- -> Minerals4EU & EURare

Water Resources

- Hydrogeological map of Europe (IHME) 1: 1.5 million.
- Aquifer Typologies for hydrochemical characterization (BRIDGE project)

Geohazards

- PanGeo ground stability polygons, geohazard descriptions and associated PSI data

Soil

- Geochemical distribution maps based on GEMAS
- Soil/parent material map?

Technical design/ architecture

Main principles:

INSPIRE principles:

The data are delivered at national level with web services (data providers responsibility);
The data are processed “on-the-fly” by services;
The results are published in web portals or applications.

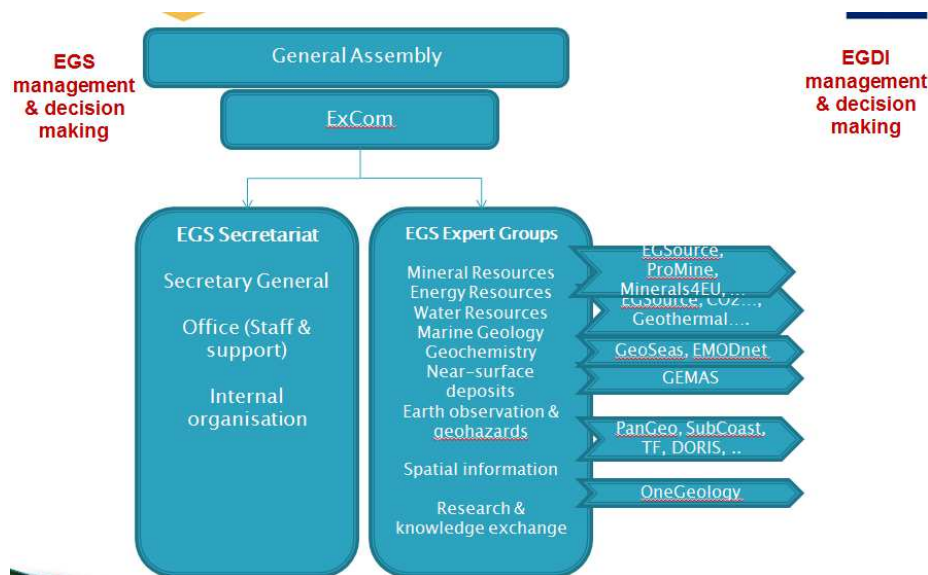
Need for a European repository:

For performance and availability reasons;
For an easier implementation of processing services;
Need to have a mechanism to harvest national data and populate the European Database(s) => “Brokers”;
Need to extract data to process them into GIS or 3D Modeling tools; results are stored in a European repository to be published;
In the future, to move step by step, include GIS functionalities into EGDI as web services.

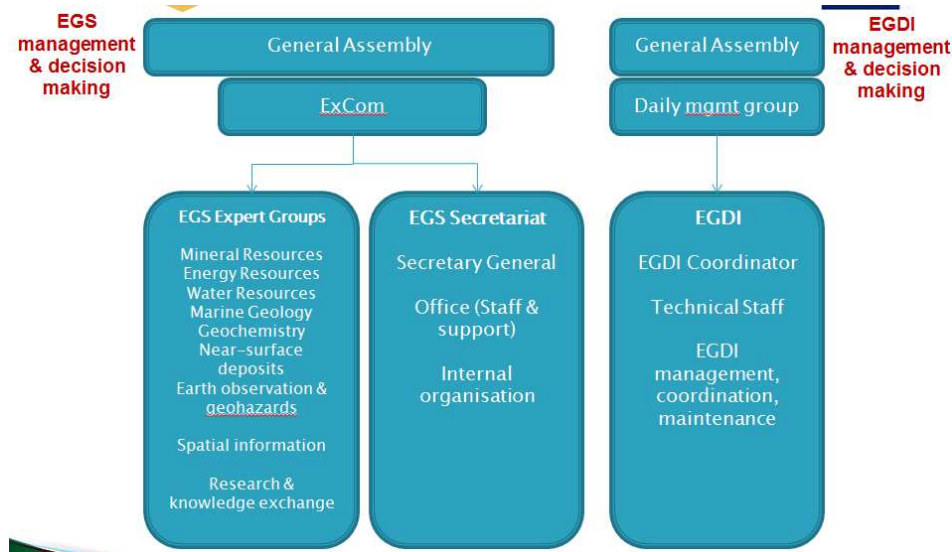
EGDI Governance

Three draft governance models have been developed by the project team and discussed in the meeting:

Model 1



Model 2



Model 3

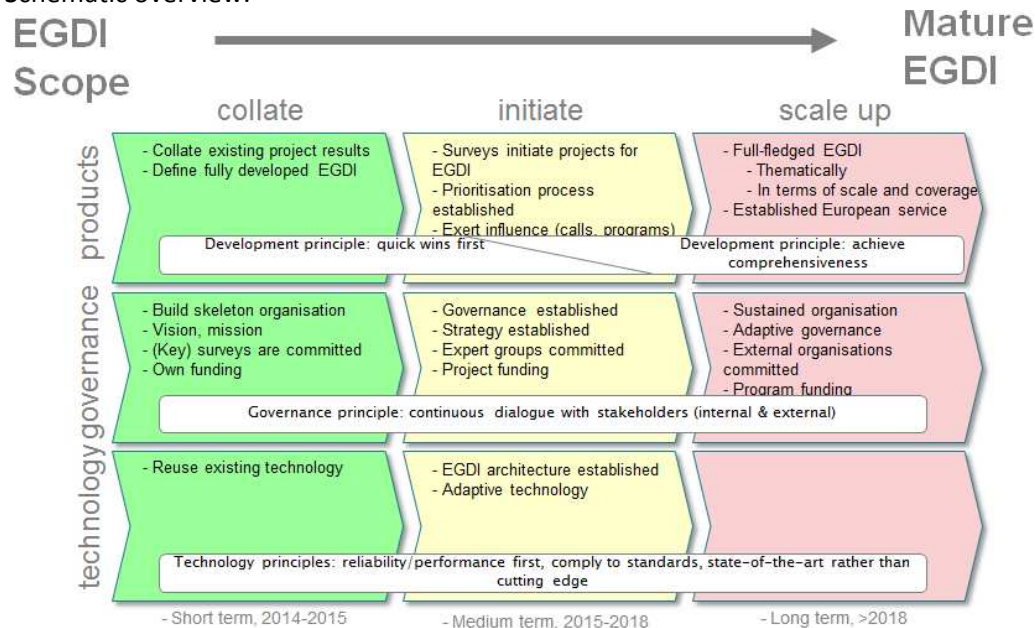


Main points of discussion:

- Tasks and power of 'EGDI body'
- Sustainability/ funding/ follow-up in H2020 (EINFRA-2014/5 call +)
- Position of EGS
- Position of Expert Groups, especially Spatial Information Expert Group
- Decision structure regarding EGDI development & maintenance
- Central vs. distributed activities
- Position of external bodies (e.g. EC-services), 'clients'

Roadmap

Schematic overview:



Presentation and discussion 'From data architecture towards information system'
 (François Robida/ Sylvain Grellet)

Organising an **Information System** instead of a Data Infrastructure:

- An information system uses data infrastructures, but is not limited to ...
- Infrastructures depict mainly hardware issues in most minds whereas we try to create synergies between initiatives and projects
- Provides more flexibility in the way it is deployed
- Broadens the scope, by targeting also groups involving domain experts to define data models (e.g. Mineral waste extension to INSPIRE), quality (QA, QC), add value to data...

Easier to convince the European level that there is no short-term need for a "data center like" infrastructure that costs: the initial small-scale structure will grow while becoming the reference point

The Geological Information System could support EU, **collecting information** relating to European directives / policies:

- Mining Waste directive
- Raw Material Initiative
- Groundwater directive (link with WISE), ...

It will become de-facto the **reference** geoscience information pipeline towards EU Commission

Links with other initiatives:

- INSPIRE: strongly implementing INSPIRE rules (extending when necessary)
- SEIS -> SEIS Geoscience information pillar
- GEOSS -> GEOSS European counter for Geological data
- EPOS -> strengthening link with research communities

A Geological Information System for Europe linked with other initiatives (e.g. GEOSS):



Characteristics of a Geological Information System for Europe:

The Geological Information System **content** => More than an infrastructure

- Domain groups: define domain needs, enhance data structures, define needs for value added data, quality (QA, QC), ...
- IT groups: coordinate best practices, help domain groups to structure their information needs, support deployment of new data collection solutions at Member States level, ...
- IT backbone, around its central node: architecture, collection/diffusion DBs, viewer, portals, web services, ...

Central node:

- Metadata catalogue, Vocabularies repository
- Services to check INSPIRE conformity (links with INSPIRE Maintenance)
- Brokers,
- ...

Motivations:

A clearer way to position GSOs and EGS

Less competition with Research Infrastructures (EPOS...)

Use the political tools to solve the national obligations / subsidiarity issues

If initiated and animated by EGS, could become the reference information channel for geoscience for Europe

The real backbone of the **“European Geological Service”** (not limited to data infrastructure)

Conclusion of the meeting has been that most issues in the draft final report (D1.3) have been addressed in the right way. The concept report will be drafted within two week, and sent around to NGSO representatives for final comments.

16) EGDI-Scope Final meeting 20-05-2014

20th May 2014, Royal Belgian Institute of Natural Sciences, Brussels

Agenda

TUESDAY, May 20th (1st part)

10.00 – Preparatory meeting EGDI-Scope (*core team*)

***Directors of the Geological Surveys of Europe
EGS Expert Groups Chairs and Deputy Chairs
EGS-SI-EG Members***

12.30 – *Registration and buffet lunch at Royal Belgian Institute of Natural Sciences*
(Rue Vautier 29, Brussels)

13.30 – Welcome and Introduction – Geological Survey of Belgium

13.40 – EGS developments and strategy framework for EGS (Luca Demicheli, General secretary EGS)

13.55 – Status and key results of EGDI-Scope (Rob van der Krogt, Coordinator EGDI-Scope)

14.10 – Thematic presentations EGDI-Scope (core team/ WP leaders):

- Stakeholder Consultation and use cases (Mikael Pedersen, Jørgen Tulstrup)
- Prioritisation of Datasets (Katy Lee, Matthew Harrison)
- Technical Design (Sylvain Grellet, François Robida)
- Legal aspects (Sara Hugelier)
- Governance (Rob van der Krogt)
- Communication (Claudia Delfini)

15.30 – Implementation Plan and Roadmap for follow-up (Rob van der Krogt)

15.45 – Statements from participating EGS-members and members of EGS Expert Groups

16.05 – Discussion and conclusions

**16.30 – *Break, coffee and refreshments/
Welcome to stakeholder representatives***

TUESDAY, May 20th (2nd part)

**16.30 – Break, coffee and refreshments/
Welcome to EU-stakeholder representatives**

17.00 – Welcome to EU-stakeholder representatives

17.10 - EGS developments and strategy framework for EGS (Luca Demicheli,
General secretary EGS)

17.20 – Key results, benefits and follow-up EGDI-Scope (Rob van der Krogt,
Coordinator EGDI-Scope)

17.40 – Statements by EU-stakeholders

18.00 – Panel session & plenary discussion
(*Dumitru Fornea, Michelle Wyart-Remy, Iain Shepherd, Jerome Béquignon, Wim
Jansen, Rob van der Krogt. Moderator: Luca Demicheli*)

Statements for panel session:

- European policy development can't do without geological information
- The Geological surveys of Europe are in the best position to manage the EGDI
- The EGDI is necessary to maintain and develop INSPIRE datamodels
- The Geological surveys can provide the liaison for integrated approach of on- and offshore issues
- Enhanced collaboration of geological survey organisations of Europe can strengthen the global position of European industry
-
-

18.30 – Cocktail

20.00 - Closure

Attendance List






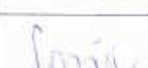
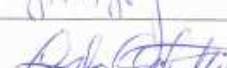




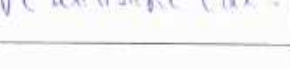

EGDI-Scope Final Meeting


20th May 2014
 Royal Belgian Institute of Natural Sciences, 29 Rue Vautier, 1000 Brussels

Signature List

Name	Country	Organisation	Signature
Wim Jansen	Belgium	DG CONNECT	
Rob van der Krogt	The Netherlands	TNO	
Sara Hugelier	Belgium	KU Leuven	
Jorgen Tulstrup	Denmark	GEUS	
Mikael Pedersen	Denmark	GEUS	
François Robida	France	BRGM	
Matthew Harrison	UK	BGS	
Luca Demicheli	Belgium	EGS	
Claudia Delfini	Belgium	EGS	
Jan Høst	Norway	NGU	
Lars Kristian	Sweden	SGU	
Mary Carter	Ireland	GSI	




Name	Country	Organisation	Signature
Ray Scanlon	Ireland	SPU GST	
George Tudor	Romania	GIR	
Tomasz Nalecz	Poland	PGI	
Michiel Duser	Belgium	GSB	
Pierre-Yves Declercq	Belgium	GSB	
Jasna Sinigoj	Slovenia	GEO-ZS	
Carlo Cipolloni	Italy	ISPRA	
Dana Capova	Czech Republic	CGS	
Nikos Nikolaou	Greece	IGME	
Tirza van Daalen	The Netherlands	TNO	
Francesca Siciliano	Belgium	EGS	
Christeline Mottet	Belgium	EGS	
Adela Sanmartin	Belgium	EGS	

Name	Country	Organisation	Signature
Jérôme Béquignon	Belgium	ESA	<i>[Signature]</i>
Bernard Francois	Belgium	DG DEVCO	<i>[Signature]</i>
Dr. Silvo Žlebir	Belgium	DG ENTR	<i>[Signature]</i>
Catharina Bamps	Belgium	DG ENTR	
Dumitru Fornea	Belgium	CSN Meridian	<i>[Signature]</i>
Efthimios Zagorianakos	Belgium	DG Research	
Dr. Michelle Wyart-Remy	Belgium	IMA	<i>[Signature]</i>
Sônia Clarena Barón	Belgium	IMA	<i>[Signature]</i>
Jossiane Masson	Belgium	DG Environment	<i>[Signature]</i>
Iain Shepherd	Belgium	DG Mare	<i>[Signature]</i>
Isabel Fernandez	Belgium	EFG	<i>[Signature]</i>
Slavko Solar	Belgium	DG ENTR	<i>[Signature]</i>
Robert Tomas	Belgium	JRC	<i>[Signature]</i>

Name	Country	Organisation	Signature
KATY LEE	UK	BCIS	<i>[Signature]</i>
MATEUSZ HORDEJUK	POLAND	PGI-NRI	<i>[Signature]</i>

Minutes

This meeting is reported in D6.5.