



Outcomes

1st STC-EGIDA Workshop,
Rome, Italy – 30 September, 2010

Outline

- Workshop participants
- Outcomes of the discussion on the EGIDA WPs
next term actions
- Conclusions



Participants

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WP2 (Stuart Marsh)

- Deliverables were presented in the KO
 - Valuable input from project partners noted
- Deliverables were discussed with STC
 - Valuable comments by STC also captured
- Working Group will now be established
 - First information to be circulated by end 2010
 - Work will commence at start of January 2011
 - First target: report to April 2011 STC Meeting



What, how & when? T2.1 Assess requirements for continuity & long-term monitoring (Activity 1c)

- Develop (in co-ordination with ST-09-02) a methodology and process for the **evaluation of the relevance of specific observation infrastructure**
 - Develop **continuity indicator for registered GEOSS components** as well as relevant components not yet registered. Report findings to STC and ADC
 - **Dialogue with ST-09-02 during Task Meeting on 30th September**
 - Working group to develop specific proposal during Months 3-6
 - Propose process to STC for adoption at subsequent meeting in 2011
 - Consult on methodology and process within GEO in general and *ADC in particular for the continuity indicator work* during months 6-12
- D2.1 (PM12) “*Methodology and process for the evaluation of the relevance of specific observation infrastructure, including the data processing and product generation*”. Document.
- D2.2 (PM12) “*Continuity indicator for GEOSS components*”. Document. This deliverable describes a continuity indicator for all registered GEOSS components as well as relevant components not yet registered.



Discussion Points on D2.1 and D2.2

- Key issue: early interaction with ADC
- ADC have not yet acted on STC request...
- We should offer to help them **design** an implementation within the GCI
- This should focus on availability not quality
- ADC might well be the *implementing* body
- Should also consider CEOS continuity database



What, how & when? T2.1 Assess requirements for continuity & long-term monitoring (Activity 1c)

- Transfer the evaluation processes to a number of systems that are currently run in a **research mode** with no strategy for long-term sustained operation
 - Issue call for candidate systems at Month 12 (ahead of web tools being issued)
 - Working group to undertake evaluations during Months 12-15
 - Create and Populate database by Month 16
 - D2.3 (PM16) Continuity database. Database
 - Consult on trial evaluations within GEO during months 16-22; Report Month 23
 - D2.4 (PM23) “*Availability test report*”. Document. The contents of the database and the results of the availability tests will be fed into appropriate reporting to relevant GEO component (including STC and ADC)



What, how & when? T2.2 Respond to S&T needs & priorities (Activity 1e)

- Support the STC in the **preparation of a first report on the scientific priorities**, and in reporting to other relevant GEO components.
 - This is the culmination of all the work package 2 activities
 - There are no specific activities to be launched in Months 1-6
- D2.5 (PM23) “*Framework for sustained operation*”. Document



What, how & when? T2.1 Assess requirements for continuity & long-term monitoring (Activity 1c)

- Develop a website of the Science and Technology Committee, possibly at the Geo-portal/Earth observations.org site allowing people to fill in a form if they see their current observing systems as **candidate operational systems**
- Allow visitors of the Earthobservation/Geo-portal (registered components within the portal) to **comment on datasets which they believe should become operational**
- Consider adding in the registration process of a dataset the option to **apply for it to be an operational dataset**
- Have **experts review** the contributions
 - **Dialogue with STC during Joint Meeting on 30th September**
 - Consult science and technology community on their views during Months 3-12
 - Develop appropriate web tool during Months 12-18
 - Assemble appropriate pool of expert reviewers and familiarise with tool
 - Propose website tool to STC for adoption at their first meeting in 2012
 - Launch website tool in Month 18



➤ D2.6 (PM18) “STC Web applications”. Service Component

Discussion Points on D2.3, D2.4 & D2.6

- Does this need to be a complicated tool?
- Why not create a forum or a wiki instead?
- These 4 points could be threads in forum
- There is a UIC angle here and they are running a user engagement session in Beijing; dialogue with UIC is needed
- There will be a workshop on building a user driven system during ISRSE Sydney



What, how & when? T2.2 Respond to S&T needs & priorities (Activity 1e)

- Support the STC in the development of a platform for the **identification of scientific priorities in Earth observations**
 - Establishment of this platform and co-ordination of a round of **prioritization of those deficits and gaps identified in Activity 1a**
 - Propose to STC a process for **communicating scientific priorities** in Earth observations to those GEO components that can stimulate appropriate response from GEO Members/Participating Organizations
 - **Support the STC in establishing this process** within GEO.
 - **Dialogue with STC during Joint Workshop**
 - Working group to develop specific proposal during Months 1-3
 - Propose process to STC for adoption at their first meeting in 2011
 - Working group to test the prioritization process during Months 6-9 as examples
 - Work with STC to finalise document and establish process within GEO by Month 9
- D2.7 (PM9) “*Process for communicating the scientific priorities in Earth observations*”. Document. This document will be submitted to the STC.
-



Discussion Points on D2.7

- ESA report “GEO and Science” is only one of the inputs required
- Work from the outcome backwards. What do funding agencies need in order to be in a position to act on our recommendations?
- Tailor specific activities to specific agencies
- Map activities to potential impacts from filling the gaps
- The User Requirements Registry might be one component of the eventual platform; there will be others
- Success with one or two agencies would be a real step forward; the list can be completist, but the outcome can be more selective...
- A dialogue with key stakeholders is vital; international, national...
- We need to identify the stakeholders; there are many types
- We need to fit into existing processes rather than invent a new one



WP3 (Ian McCallum and Steffen Fritz)

- GEO/GEOSS better acknowledge
- Establish a “GEO label”
- Interface with S&T communities
- Show GEOSS at work
- WP5 – relation to WP3



Task 3.1 Get GEO/GEOSS better acknowledge

- A document needs to go to the geoplenary (?when), therefore a draft needs to be earlier than 8 months i.e. before the deliverable?
- Care about wording – not only data, algorithms, models, vis tools etc., number of geotasks have identified the need for citation
- Clear distribution of responsibilities... ie not two projects, task team and egida. Egida should not have a specific action item on standard.
- Define clearly how egida and tasks cooperate – egida should consider entire task team for input ... who leads this?
- Begin already where data is coming from, i.e. meta-data
- Models are well cited in literature – should we consider this in citation
- Vision in geo is to enable more generic use of models – ie. Model transforms data streams, how do you cite that your data stream used others tools... subtle differences



Task 3.1 Get GEO/GEOSS better acknowledge

- We have a good starting point in geo-geoss, currently present citation approach needs review
- STC is developing the citation standard, how to refer to papers, models, any geoss output... referring to papers is easier, data etc. is more difficult
- Mark persons can help with this
- EGIDA and st0902, invitation to all to join task team, good idea to strengthen the lead, not entirely clear who can be a member of team, ie. Any ediga team members can join
- No conflict to develop in the task team, then declare this as an egida deliverable... dg will be happy with joint deliverable...
- Egida players should join task team, not by doing tasks job, but by joining
- 10 GEOSS art 3. modelling an integral part of the 10 yr plan
- Are these standards a geo only theme? The catalogues could be enough? We are trying to develop a geo citation approach valid in a more



Task 3.2 Establish a “GEO label”

- Take care to avoid parallel work, join task team and work together.
- STC should watch this to help avoid parallel efforts
- Work underway, comments, issues, sensitivities..
- Geo Wiki, primarily supports...
- Draft time schedule, possibility for geolabel up for discussion in 2011, ie. Ready for next meeting, resources in next 2-3 months
- Need to develop geolabel to be consistent , not in parallell, part of user feedback community
- GeoViQua, proof of concept of what will be designed in egida-stc, role of testing ideas, and returning results
- EGIDA must join task team



Task 3.3 Interface with S&T communities

- Approach to date, organizing special sessions, in various forums, conferences etc. Problem: the conferences often not attracting relevant people – need to explore other options ie. Get word out via keynote speakers, high-level, policy level, highlight value of geoss at large conferences, etc.
- Rethinking the strategy, target key players, explore other options
- Preaching to the converted not helpful
- These activities exist, promotion material exists? Need to revisit side events, usefulness, need better concept for implementation
- GEOSS in the title not always success – not always attractive for key speakers... implementation difficult
- Test case this december, geoss water, AGU, now very large session, embedded in tech session, need more than one approach, dependent upon meeting, legwork, preparation, shotgun approach perhaps best. Value is to capture lessons, avoid making similar mistakes, adjust on the fly
- AGU special session? Union session? Involve EC and GEO to attract attention, mention not just another program, but highlight its important, EC and GEO could provide the visibility needed.



Task 3.3 Interface with S&T communities

- Re. Developing world, be aware of conferences etc. in these regions. A lot of focus of S&T in developing world, need to identify the opportunities, not that these countries can do this alone...
- What is exact reason for focussing on particular regions, asia absent? Many of disciplines are global communities, and people are present from all over. Large outreach activities are underway. Question is if these communities should single out dev. Countries, or concentrate on science, regardless of location.
- Agree that need to go where science is, problem is lack of acceptance of science in some parts of the world, perhaps we can increase awareness.
- This activity should reach to science communities, need to go where these communities meet, ie. Specific geoss sessions in south africa, etc. should coordinate our activities, broaden to all SBAs. Poor in health, agri, etc. egida can bring in others to point out the other communities
- We could do more in helping sci. Communities in developing regions to approach geo, via geo presentations, side events etc. at regional meetings, in africa, asia etc. regional meetings could be effective
- Not talking about outreach, but talking about science existing
- Africa, atlas, many lessons that geoss can learn from this, not only context of cap. building is important



Task 3.3 Interface with S&T communities

- EGIDA, could show how to apply methodology
- What could egida contribute to the two tasks?
- Use cases, showing geoss at work, should address in others sessions
- EGIDA contributes to stc and tasks, perhaps mistakenly assumes egida solves all problems
- EGIDA could be seen as an example, it currently has to stick to use cases in dow
- Value added in egida, not only tasks, also workplan, apply those in prototype, give us best practices, and recommend how these can apply, outputs of surveys, analysis capability in egida is valuable, help to document etc.
- View that egida brings, intersection, but egida perhaps fresh view, value to add to processes, which can go back to committees, back to other plans



T3.4 Show GEOSS at work

- Ispra to lead, potential to organize a workshop to bring together compelling examples in Europe? Needs to be in march, rome, as ispra will leave the building...
- Contact: Nico Bonora



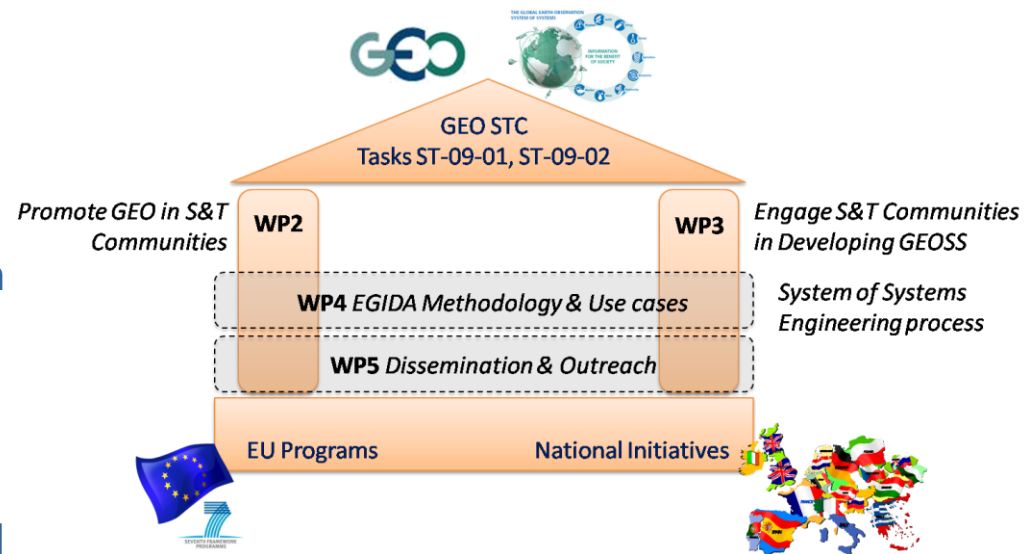
WP5 – relation to WP3

- GEO STC session at IIASA AGRIC SBA workshop pm6, late feb 2011 (Lefevre, Fritz)
- www.geo-tasks.org/egida



WP4 (Paolo Mazzetti)

- EGIDA methodology and Use cases main objectives
- To **consolidate** the EGIDA project experience for future use by defining a **general methodological approach** (i.e. the EGIDA Methodology) which can be adopted by **national/regional S&T communities** for a **sustainable contribution to GEOSS** through the participation in national, European and international initiatives and projects;
- To test and assess the proposed EGIDA Methodology in selected on-going or planned initiatives as use-cases.



The EGIDA Methodology

- Definition
 - A process for a sustainable contribution to the GEOSS at national/regional level
- Objectives:
 - Provide guidelines, good practices, etc. for national/regional mobilization of resources;
 - outreach and educate national CoPs in keeping with GEOSS approach;
 - Provide contributions to the end-to-end services;
- Approach:
 - Build upon the existing: GEOSS (e.g. GCI), INSPIRE, GMES
 - Collect successful experiences;
 - Derive principles and processes for a general methodology;
 - Propose the draft methodology to the STC for discussion and approval;



Rationale

Input

- GEO STC activities and Roadmap
- EGIDA WP2, WP3 experience
- On-going national, regional, European, global initiatives
- On-going/planned FP7 Projects

Design

- EGIDA Methodology process for a sustainable contribution to the GEOSS at national/regional level
- Submission to the STC for comments/approval

Output

- Use-cases
- EGIDA Methodology documentation: best-practices, guidelines



Work plan

Analysis

T4.1 Analysis of National Initiatives

T4.2 Analysis of European Initiatives and
Projects/outreach to FP7 programs

T4.3 Requirements Analysis

Design

T4.4 Design of the EGIDA Methodology

Evaluation

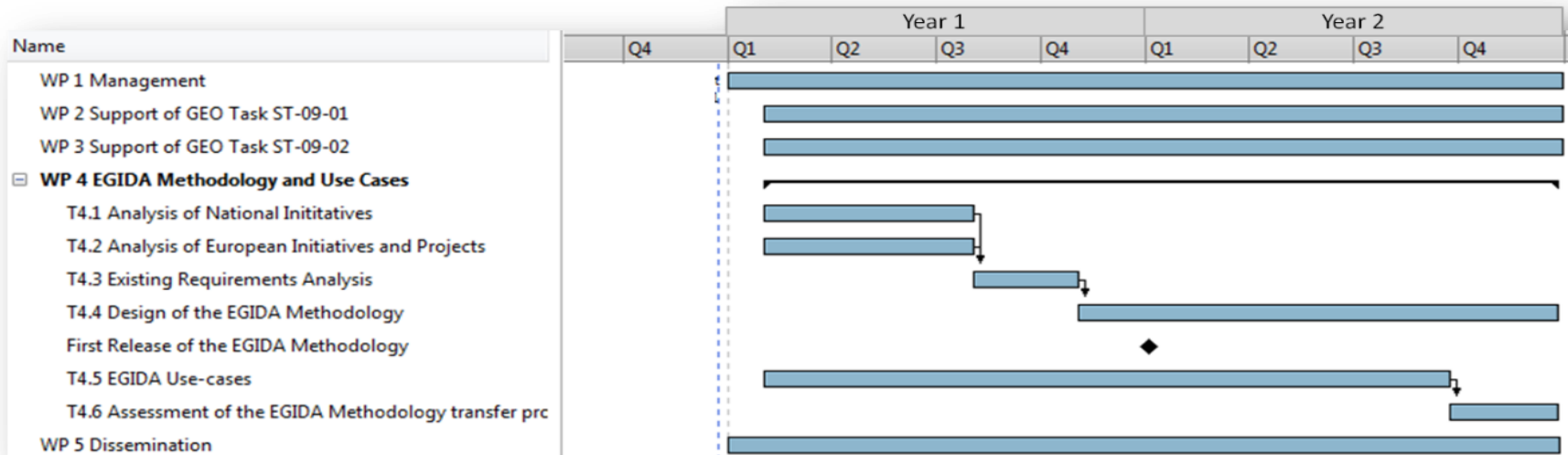
T4.5 EGIDA Methodology Transfer: Use-cases

Assessment

T4.6 Assessment of the EGIDA Methodology transfer process



Planning and Effort



Participant number	1	2	3	4	5	6	7	8	9	10	11	12	13
Participant short name	CNR	IEEE	IASA	ISPRA	NILU	MPI-C	GKSS	IVL	IJS	NERC	BLB	DMI	CREAF
Person-months per participant	6	1	0,5	5,5	3,5	2	2,5	2,5	4	1	1	0	1,5



Starting actions

- **To focus the scope, approach and structure of the EGIDA methodology** to guide the following activities:
 - Proposed scope:
 - A **process** for a **sustainable** contribution to the GEOSS at **national/regional level**
 - Proposed approach
 - Analysis, requirements, design, assessment, GEO STC “approval”
 - Proposed structure
 - General methodology, guidelines, best practices
 - Guidelines addressing specific cases (e.g. developing countries)



Starting actions

- **Analysis of national initiatives**

- To contact SN partners to propose relevant national/regional projects for analysis
- Start the analysis of national initiatives. At least:
 - **GIIDA** (Gestione Integrata e Interoperativa dei Dati Ambientali);
 - **UK-EOF** (The United Kingdom Environmental Observation Framework);
 - **DAEM** (Data and Applications for Environmental Modelling);
 - **SINAnet** (Rete del sistema Informativo Nazionale Ambientale);



Starting actions

- **Analysis of international initiatives**

- To contact SN partners to propose relevant European and international projects for analysis (e.g.FP7 projects)
- Start the analysis of relevant projects, initiatives and programmes;
- To contact management of projects funded under the FP7 call ENV.2010.4.1.4-1 “Identification and Networking of EO activities in the Balkan area” for possible collaboration:
 - BalkanGEONet
 - OBSERVE



Use-case: “Hot-spot pollution in the Mediterranean”

- Define a Road Map in order to implement the use-case: Hot-spot pollution in the Mediterranean.



Road Map

ID	Activity	Activity Description	Start Date	End Date
1	Data Source Individuation	Get contact with data providers (CODI – GISD - UNEP)	PM2	PM5
2	Data Acquisition	Get data on hot-spot pollution	PM3	PM21
3	Data Validation	Check data quality	PM3	PM21
4	SDI - Design	Design a SDI in order to manage Spatial Data	PM2	PM4
5	SDI - Implementation	Implementation phase	PM5	PM10
6	SDI – Insert data	Data entry	PM11	PM21
7	Metadata	Data description. Using metadata in order to describe SDI capability	PM11	PM21
8	SoS	Link to System of System (GEOSS)	PM10	PM21
9	Coordination	Coordination with the Use Case Mediterranean Region	PM2	PM21



Conclusions

- This Use-Case aims to adopt the EGIDA Methodology in order to build a SDI that will manage data on Mediterranean Hot-Spot pollution.
- The SDI will be the result of a re-engineering of present resources, according to the EGIDA Methodology. The adoption of International Standard on Metadata and Data retrieval stored in the SDI, will enable the subscription in the GEOSS CGI in order to enhance the GEOSS awareness, according with EGIDA efforts.



Use-case: “Mediterranean region”

This task aims at providing a **use-case for the EGIDA methodology transfer process**, focusing on partnership, **infrastructures, products and services involving southern Mediterranean Countries**, targeting four main goals:

1. data management and integration capabilities from data source to data delivery;
2. interoperability among systems;
3. improving support to decision makers by data integration;
4. accomplish the system interoperability tests.



Initialial operation to:

- promoting data sharing and data harmonization in the Mediterranean;
- to promote SW reuse & international standard;
- to disseminate existing initiatives (Task 4.1) contributing to GEO (e.g. SINAnet, GIIDA, UK-EOF, DAEM)
- to promote national experience in EIONET on the basis of SEIS principles in the Mediterranean;

Within:

InfoMAP: the Barcelona Convention information system being developed and operated by INFO-RAC (Regional Activity Centre on Information & Communication) in the frame of the **UNEP-MAP** Five-Year Programme of Work (2010-2014);

ENPI/South - SEIS: the EC-EEA/UNEP-MAP initiative to promote the SEIS principles in the European Neighbour Mediterranean Countries (2010-2014).



Where?

ECP meeting (3 mtng/yr), Directors of MAP Components: MEDU, MED POL Blue Plan, Rempec, SPA/RAC, INFO/RAC, CP/RAC, PAP/RAC; nxt **Oct 2010, Jan 2011 (EGIDA intervention not sure to be included)**

Focal Point Meeting of UNEP-MAP **INFO/RAC (May 2011)**

GEF Project- Global Environmental Facility - Strategic Programme for the Mediterranean Sea - Large Marine Ecosystem Network of I&CT Contact point of the Executing Agencies (**once per year**)

Barcelona Convention - Conference of Parties (biannual, **Nov 2011** in France)



Achieving interoperability and EGIDA replication

Between 2010 – 2014, ENPI/SEIS South - Seis Country foresee visits in 9 Countries:

- Algeria (DZ): ministère de l'aménagement du territoire de l'environnement et du tourisme
- Egypt (EG): Egyptian Environmental Affairs Agency (EEAA)
- Israël (IL): Ministry of the Environment
- Jordan (JO): Ministry of Environment (air pollution, air quality and water pollution)
- Lebanon (LB): Ministry of Environment
- Morocco (MA): Ministère de l'Energie, des mines, de l'Eau et de l'Environnement
- Occupied Palestinian Territories (oPt) : Environment quality authority
- Syria (SY): Ministry of environment
- Tunisia (TN): Ministère de l'Environnement et du Développement durable



Use-case: “Air Quality for Health ”

- Task 4.5.3 (NILU, CNR, GKSS, IJS, ISPRA, IVL, MPI)
 - Analysis:
 - **First** consider activities within Task partners:
 - EU (AQ and/or Health): HENVINET (NILU); HEIMSTA (NILU); TRANSPHORM (IVL); ESCAPE (IVL); AIRBASE/EIONET (IVL/ISPRA); Clean North Sea Shipping (GKSS); GMOS (GKSS/IVL/CNR/NILU); EARLINET (GKSS); CARIBIC (MPI/GKSS); COST 0602 (AQ forecasting) (IVL/NILU)
 - Norway (AQ and/or Health): EMEP (NILU/IVL)
 - Italy (AQ and/or Health): BRACE (ISPRA); AQ ground-based network (ISPRA)
 - Sweden (AQ and/or Health): AQ ground-based network (IVL); SCARP (IVL)
 - World (AQ and/or Health): AQMEII (GKSS)
 - **Second** assess legal framework: EU (EC directives), non-EU countries (US, Canada, China) – NILU plus others
 - **Third** assess AQ & Health aspects in GEO
 - **Fourth** consider activities external to Task partners (e.g., NRT data world-wide networks; GAW)



Air Quality for Health in EGIDA

- Task 4.5.3

- Workshops:
 - **Meeting** at ISPRA to discuss start of activities (Sep 2010)
 - Suggestion:
 - **Workshop 1** (AQ for Health): Task 4.5.3 + other use case studies (next EGIDA Meeting – date TBD, PM6?) – **assess knowledge gaps**
 - **Workshop 2** (AQ for Health): Workshop 1 attendance + dedicated stakeholders/groups (PM 9-12 - **use input from workshop 1 (start to fill in knowledge gaps)**)
 - **Workshop 3** (AQ for Health): Discuss applying EGIDA methodology (Task 4.5.3 + other use case studies + methodology experts) (PM15-18?) – **feedback on EGIDA methodology?**
 - EGIDA Methodology transfer should be discussed also, but where?



Use case: Slovenia

First : identify and select issue(s) relevant for EGIDA

Contamination hot spots:

Hg – Idrija, mining;

Pb – Mežica, mining;

Zn, Cd, Pb, pesticides – Celje, industrial & agriculture; PCBs
– Krupa, karstic aquifer

Goehazards:

earthquakes

flooding

landslides, mudflows

Health:

interpretation of human biomonitoring

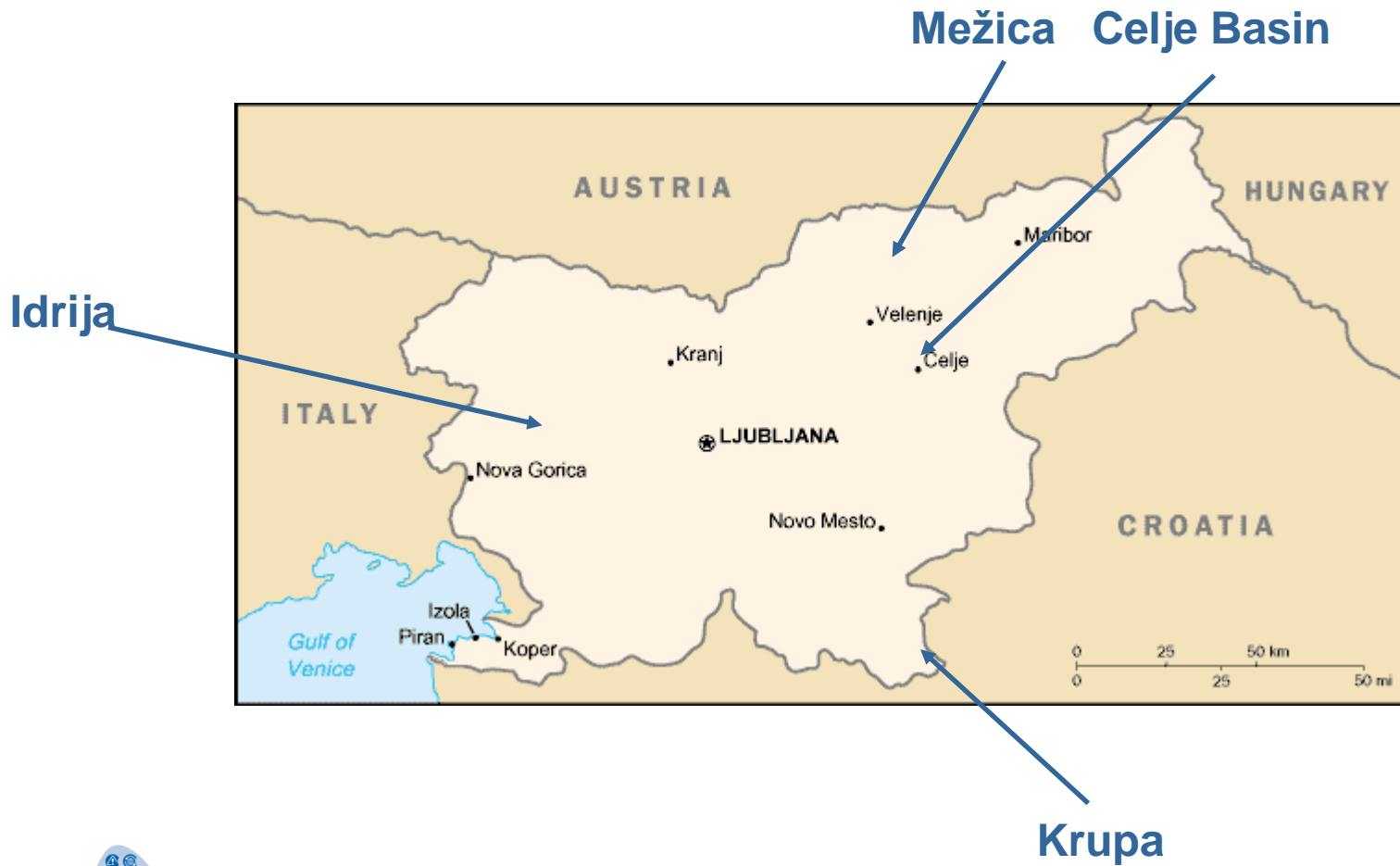
Agriculture:

contamination of shallow alluvial aquifers (dispersed)

crop failure.....



Use case: Slovenia



Use case: Slovenia

Second: legal framework (EU directives), identify targeted population (population strata), stakeholders

Third: existing & missing data, gaps in knowledge, existing networks and databases, relation to GEO

Fourth: discussion on transfer and application of EGIDA methodology – methodology experts, targeted audience, training for scientists and stakeholders (planners, emergency responders, decision makers...)



WP5 (Russ Lefevre and Bente Lilya Bye)

- **GEO STC SESSION AT IIASA AGRICULTURE SBA WORKSHOP (PM6), LATE FEBRUARY 2011, (LEFEVRE, FRITZ)**
- **OUTREACH (CONTINUING)-AGU, EGU, (LEFEVRE, BYE, EGIDA PARTNERS)**
- **PREPARE STC/EGIDA FLYER/POSTER FOR MINISTERIAL SUMMIT (PM3) (LEFEVRE)**
- **PREPARE A PPT PRESENTATION FOR THE MINISTERIAL SUMMIT (PM3) (LEFEVRE, NATIVI, EGIDA PARTNERS)**
- **BEGIN STC/EGIDA SOCIAL NETWORK; LINKED IN, FACEBOOK, (PM4) (LEFEVRE, EGIDA PARTNERS)**
- **PLAN TO PUBLISH FIRST NEWSLETTER FOLLOWING MINISTERIAL SUMMIT (PM3) (LEFEVRE, EGIDA PARTNERS, STC)**





OPEN DISCUSSION

GEO Label

- Mark parsons, need to be clear what we are doing with label, clear needs statement, need common view before details. Not keen on results so far.
- *Stuart minchin: idea that having a stamp of quality and relevance, a scientist can take this back to their funding agency for positive results*
- *We are overengineering this perhaps*
- *Total voluntary process, no evaluation.*
- *Quality component and user feedback can be done without judgement*
- *The community should decide on award, then data providers can assign their own label?*
- *These things can be separate... star label without quality label, or vice versa... up to publisher of dataset as to which labels they wish to apply.*
- *Value in feedback on hotel feedback... only get 3 stars, but they know that if you are not rated, people will not approach you, this is soft approach*

- *Publisher has to self assess, then user clicks on label*



GEO Label Quality

- There is a user feedback discussion
- Users only give feedback if they see how it is used
- We need to be careful that it is acceptable over all
- If any judgement, there will be no support (s. minchin)
- We can set criteria that we agree. If put data, filled all meta data, registered... you get bronze
- If peer reviewed, etc. silver
- If peer +++ gold



GEO Label (mark parsons)

- Large organizations will submit data, not many small data holders‘?
- Data sets vs systems
- Hotel review systems...nobody has tried to implement
- We may not have a crowd, but need to be separate... pilot project on user feedback, which is just additional meta data
- Maybe should grandfather all old data in
- Even voluntary, still smacks of judgement



GEO Label

- Bare minimum of quality...
- Scientific publications need to have a review
- Gilles ollier put money
- If scientist puts their trust on a label, they are lousy...
- No way an external body will work in geo
- Start with bronze...
- A user rating is achievable
- Some sort of quality is achievable, bronze, silver gold might work but more complex wont work (geo label)



Comments from Joan Maso (CREAF)

- Difficult to distinguish between a dataset not rated, and poorly rated
- Relevance based on number of times you were cited...
- Lack of criteria, not reflected in label, if data easy to obtain, min time delay, min cost
- Reflective of fees, things to sign, etc.
- Quality of service itself
- Quality assessment, quality values



Discussion on EGIDA Methodology

- Specification of the EGIDA Methodology especially:
 - Who it should address;
 - Why they should be interested in it
- Awareness of relevant national initiatives, defining the level to be addressed.
- Means of acquiring information: interviews, surveys, others?
- Leverage on outcomes from existing projects and initiatives (e.g. EnviroGRIDS, GEOBON,...)





CONCLUSIONS

Main Conclusions

- The Workshop was well attended by STC and EGIDA members
- The EGIDA WP leaders presented the next term actions, taken from the project DoW
- The STC members (especially the STC co-chairs) provided valuable comments and suggestions
- The importance of such meetings was fully recognized by all the participants



Other Outcomes

- Douglas Cripe accepted to join the EGIDA Advisory Board, representing the GEO Secretariat
- EC-EGIDA will co-lead the tasks ST-09-01 and ST-09-02
 - contact points will be proposed by the project.
- Gary Geller (NASA JPL) will report about EGIDA to GEO BON; to explore a possible support by EGIDA to the GEO BON actions for catalyzing resources
- WP5 will prepare the EGIDA presentation material for the Ministerial meeting in Beijing
 - Russ Lefevre (IEEE) will bring and set up the material to the Beijing meeting



EGIDA Project

