

GEO THERMAL ERA-NET: WP3: Towards a European Geothermal Database

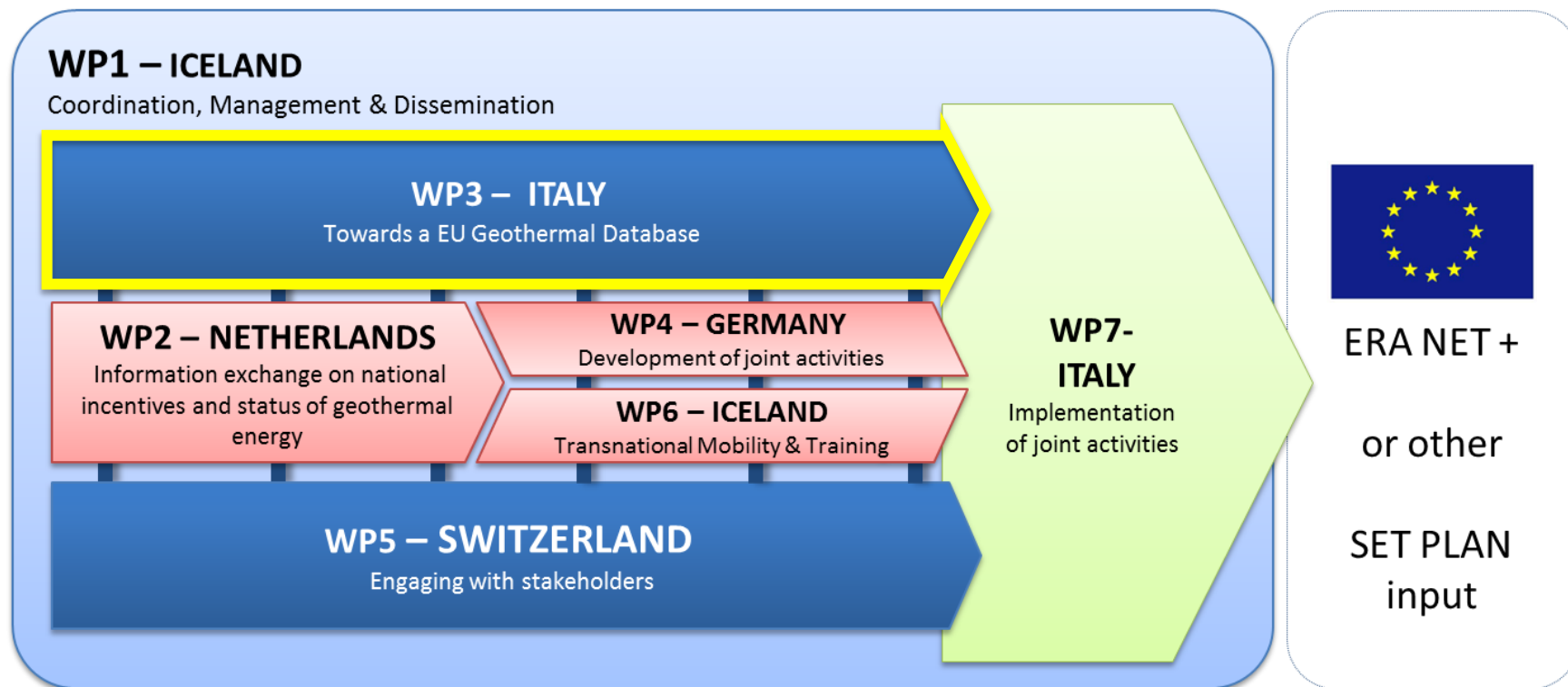


WP3 status

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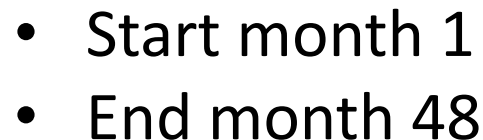
Organisational structure / work packages



was: WP3 Towards a European Geothermal Database



NOW



- first deliverable scheduled for M10 > delayed M12
- second deliverable scheduled M18 > delayed M22
- ★ third deliverable scheduled M45

WP3: Towards a European Geothermal Information Platform (EGIP)

was WP3: Towards a European Geothermal Database

Objectives

- Geothermal ERA-NET aims to work on setting the standard on what geothermal information to collect for Europe, proposing and describing the **structure** of a **European Geothermal Information Platform**, to have a reference that may be followed at national level and to put the base for a common **Data Model** to share information among European countries.
- Within Geothermal ERA-NET we also aim to **define general rules for managing** the catalogued data and implement services to provide the information of the European Geothermal Information Platform following **INSPIRE** specification.

WP3: Towards a European Geothermal Information Platform (EGIP)

was WP3: Towards a European Geothermal Database

Geothermal Databases

- Scientists, operators and consultants
- underground data, provide maps
- Public/reserved
- National (most cases)/international (operators)

Geothermal info collection

- Regional, national and European administrations
- regulations, documents, descriptions and maps of geothermal leases and permits, and energy

Geothermal info collection

- Information providers
- general information (e.g. definitions, terms) in the form of general information (e.g. definitions, terms) in the form of texts and

Geothermal info collection

- Manufacturers
- components for geothermal plants
- Public
- National/international

Geothermal info collection

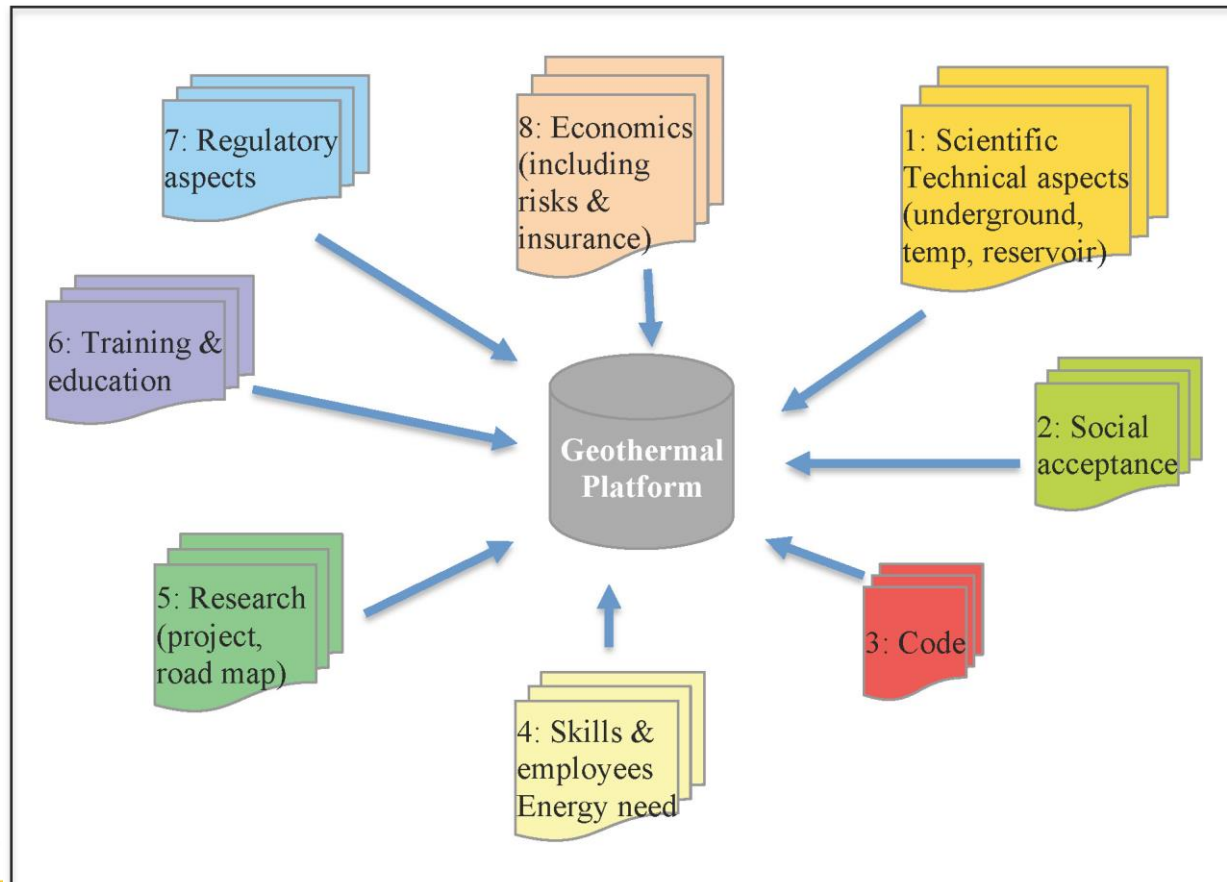
- Funding and insurance agencies
- information aimed at creating risk management and economic analyses of all proposed projects
- reserved DB from Public data
- National/international

Geothermal info collection

- Education centers
- Training courses
- Public
- National/local

WP3: Towards a European Geothermal Information Platform (EGIP)

was WP3: Towards a European Geothermal Database



WP3 Towards a European Geothermal Information Platform

Description of deliverables and milestones



Task 3.1 Preparation of the scientific and technical activity (CNR)

Task 3.2 State of the art and needs (CNR)

- D3.1 Report on the state of the art and needs in regarding geothermal data and existing tools to manage them: [month 9] (CNR)
- MS8 Database workshop 1: European Geothermal Information platform: State of the art and needs [month 10]

> D3.1 Report delivered

Task 3.3 Preparation of a feasibility study (CNR/BRGM)

- MS9 Database workshop 2: European Geothermal Information platform: Feasibility study [month 15]
- D3.2 Feasibility study for a European Geothermal Information Platform: [month 18]

> MS2: Database workshop 2 anticipated (1 month), taking advantage of the EGC2013 (June 2013)

➤ D3.2 Report delivered

Task 3.4 Following-up the implementation(CNR)

- D3.3 Report on the implementation of the European Geothermal Information Platform : [month 45]



WP3 Towards a European Geothermal Information Platform



D3.1 > Ready

April 2013

delay = 2 months



D3.2 > Ready

February 2014

delay = 4 months



WP3 Towards a European Geothermal Information Platform



EGIP: why?

1. Specifically mentioned in the EU Commission Call [Topic ENERGY.2011.10.2-2, FP7-ERANET-2011-RTD] which led to the current GEO ERA-NET Project
2. To foster geothermal energy development in Europe, the organization and sharing of geothermal data play an important role
3. To minimize data fragmentation, databases and data-sharing systems are mostly based at a national level, provided in the local language, and are suitable for local or specialized applications



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EGIP: aims?

- ✓ reduce information fragmentation
- ✓ simplify data provision
- ✓ reduce project risks (economic aspects)
- ✓ Raise awareness about geothermal energy by providing an overview of its application at the European scale
- ✓ increase the focus on and investments in geothermal energy.



Towards a European Geothermal Database

EGIP benefit

- Guaranteed data **interoperability**: retrieval, viewing and access of information from partners and other providers (via WMS, e.g. protected areas)
- Harmonized geothermal domain at a European level
- **Efficiency**, thanks to the non-multiplicity of data sources, the latter being directly related to national databases
- Guaranteed ownership: data belong to and stay in the country they are related to.
- Durability and maintainability
- Economically viable, requiring only coordination with respect to what each country would need to develop independently
- Productivity, by covering all published data in the long term.

WP3 Towards a European Geothermal Information Platform



EGIP: for who?

- ❑ potential international energy users (international operators and funding agencies interested in launching new geothermal projects)
- ❑ any geothermal stakeholder
- ❑ to respond to the increasing concerns of non-geothermal sector stakeholders that geothermal applications are too confusing and difficult to manage

EGIP: what is?

- distributed system: each (national) data provider delivers its data according to a common standard data model and common services.
- Information are catalogued and served following the INSPIRE directives
- A EU portal will request all national service providers to deliver their part of the European puzzle



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EGIP: how?

Step-by-step plan:

- *First step - **Stage 0***: map the links and documents where geothermal information is currently provided at a national level
- *Short term – **Stage 1***: implemented as Joint Activity in GEO ERA-NET
- *Medium term – **Stage 2***
- *Long term – **Stage 3***



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EGIP – Stage 0

Links

International Organizations

[IEA - International Energy Agency](#) 

[IEA-GIA](#) 

[IPGT Steering Group](#) 

[IGA - International Geothermal Association](#) 

[EGEC Geothermal](#) 

[WEC - World Energy Council](#) 

[EDIN - Energy Development in Island Nations](#) 

[NEF - National Energy Foundation](#) 

[IRENA](#) 

Multinational Energy Statistics Data Collection

[Eurostat - Statistics](#) 

[IEA - Statistics](#) 

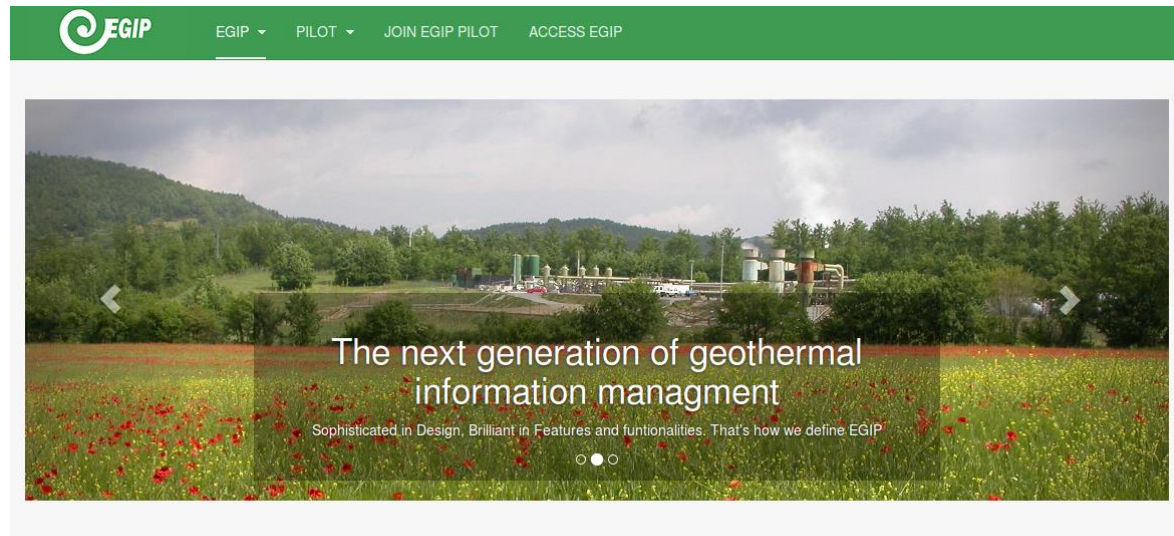
[United Nation Statistics Division](#) 

[OECD Statistics](#) 



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EGIP – Stage 1



Welcome

Welcome in the **EGIP** pilot project web site!

The **EGIP** pilot is the result of a Joint Activity carried out in the frame of the *Geothermal ERA-NET* coordination project supported by European Union's Seventh Programme.

The core function of the **EGIP** is to organize geothermal data and information at a European scale.

The **EGIP** pilot is aimed to demonstrate the platform capabilities and usefulness





WP3 Towards a European Geothermal Information Platform



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- *Medium term – **Stage 2***  **Joint call?**
- *Long term – **Stage 3***  **Future actions**

EGIP: when?



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From grant agreement – Annex I

Task 3.4 Following-up the implementation (from annex 1)

The preliminary design will be used to prepare a **call for proposal** to implement the European Geothermal platform through one or more **pilot area(s)**.

The choice of the field, of the data, and the demonstration scenario will be crucial to demonstrate the usefulness and the capabilities of the European geothermal database.

- D3.3 Report on the implementation of the European Geothermal Information Platform : [month 45]



Task 3.4 Proposed activities

In line with the scheduling for the GEO ERA-NET project and with the actions defined in this work plan, we proposed:

- “Pilot implementation” proposal as joint activities
- “Pilot” unveiling – September 2014 [M27]

Now we propose:

- to continue the pilot for those countries who could not join yet
- to deliver the report D3.3 by describing pilot implementation [M45]

at least! What else?

Task 3.4 / WP4 & WP7

- **EGIP chosen among other JA topics (WP4)**
- **Joint call: preparation & implementation (WP7)**

National activities for stage 2 with national funds



In parallel: European call H2020 project for EGIP further implementation and management



WP3 Towards a European Geothermal Information Platform



This afternoon within WP7 GEO ERA-NET presentation the EGIP pilot will be unveil



<http://egip.igg.cnr.it>



Thank you for your attention!!

