



Deliverable 11.3

Information content material

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GENERAL INTRODUCTION

GeoERA is a European scientific cooperation program for improving the management and sustainable use of subsurface resources.

The 45 national and regional Geological Survey Organizations that participate in GeoERA's fifteen research projects provide large amounts of geoscientific information: maps, databases, documents, 3D models and other related services to geoenergy, groundwater, and raw materials.

So far, each European Geological Survey and each project had its method of disseminating and saving its generated information. However, this diversity of access points was making it difficult to exchange all that knowledge. Furthermore, when a project finished, the generated information was no longer available due to a lack of support. GeoERA was born in order to work this out.

GeoERA Information Platform Project (GIP-P) is one of those fifteen GeoERA projects. Its goal is the standardization, organization, dissemination, and conservation of all the information generated by the rest of the GeoERA projects and earlier ones.

GIP-P will reinforce and strengthen the European Geological Data Infrastructure (EGDI), a European platform that gathers geological data since 2016, intending to be long-lasting. EGDI contains applications for visualizing and search and query web services to handle all this geoscientific data. Its ultimate goal is that valuable information generated by Geological Surveys and other institutions can be easily saved and accessible.

The overall concept behind this is to build a platform that supports decision making, innovation and research across scientific disciplines (within and beyond the themes of GeoERA), societal challenges (energy, raw materials, environment, food, security, health, transport) and sectors (academia, industry, policy) in need of geological data and information.

On the basis of the above context, the GIP-P WP11 has a special role regarding dissemination of results of the project for the target audience.

EXECUTIVE REPORT SUMMARY

This deliverable contains the list of information material generated in the project in various formats. This material has been focused on different target audiences to be distributed through various communication channels.

This report explains about the leaflets, posters, videos, newsletters, press releases and blog posts produced in GIP-P, being an important part of all communication and dissemination activities carried out in WP11.



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- Contribute to the GIP-P GitHub

Target audience: experts connected with the project.

Dissemination: posted on the GIP-P media gallery (<https://geoera.eu/projects/gip-p/media-gallery/>) and sent by e-mail to experts connected with the project.

```

CASE
  WHEN a.endlifespanversion IS NULL THEN 'true'::text
  ELSE NULL::text
END AS endlifespanversionisvoid,
a.endlifespanversionvoidreason, a.name,
SELECT processingtransformationplantstatustype.url
FROM processingtransformationplantstatustype
WHERE processingtransformationplantstatustype.processingtransformationplan
char(a.startdate, 'YYYY-MM-DD"T"HH24:MI:SS'::text) AS startdate,
CASE
  WHEN a.startdate IS NOT NULL THEN 'M4EU.PTP.SD_'::text || a.processingtr
  ELSE NULL::text
END AS startdateid,
```

Contribute to the GIP-P GitHub

Support the repository for GeoERA project!

Semantic Harmonization

Data objects

Standards

Technical infrastructure

Expert Vocabularies

Data providers

Science projects

Prototyping

DevOps methodologies -----

%&////(\$\$...##!!-----

For details, please visit <https://github.com/GeoEra-GIP>. You
can also visit <https://geoera.eu/projects/gip-p/>



- Announcement of the GeoERA midterm event

Target audience: experts connected with the project, stakeholders and decision makers.

Dissemination: sent by e-mail to stakeholders.

The collage consists of four posters:

- Partners for a common project:** Features statistics: 3,8k (Over 1,800€ of total budget), 24 (partners from different Geological Surveys from Europe), and 11 (which Workshops will present their work).
- GeoERA Midterm Week:** Announces the event in Ljubljana, Slovenia, from 17-20 March 2020. It mentions that experts from different European countries will meet for the Midterm Review.
- GeoERA Midterm Event:** Announces the event and lists the preliminary agenda, including a workshop on 'EUROPE ON ITS WAY TO A COMMON GEOLOGICAL SERVICE' on Tuesday, March 17, 2020.
- GeoERA Midterm Meeting:** Announces the meeting on Wednesday, March 18, 2020, and lists the agenda, including a wrap-up feedback from stakeholders and directors.



2 POSTERS

- GIP-P poster (kick-off meeting)

Target audience: experts connected with the project, stakeholders and decision makers, and public.

Dissemination: at the GeoERA kick-off meeting and then posted on the GIP-P media gallery (<https://geoera.eu/projects/gip-p/media-gallery/>)





- GeoERA Information Platform poster

Target audience: experts connected with the project, stakeholders and decision makers, and public.

Dissemination: posted on the GIP-P media gallery (<https://geoera.eu/projects/gip-p/media-gallery/>). Due to the COVID pandemic it was not possible to exhibit it in events.



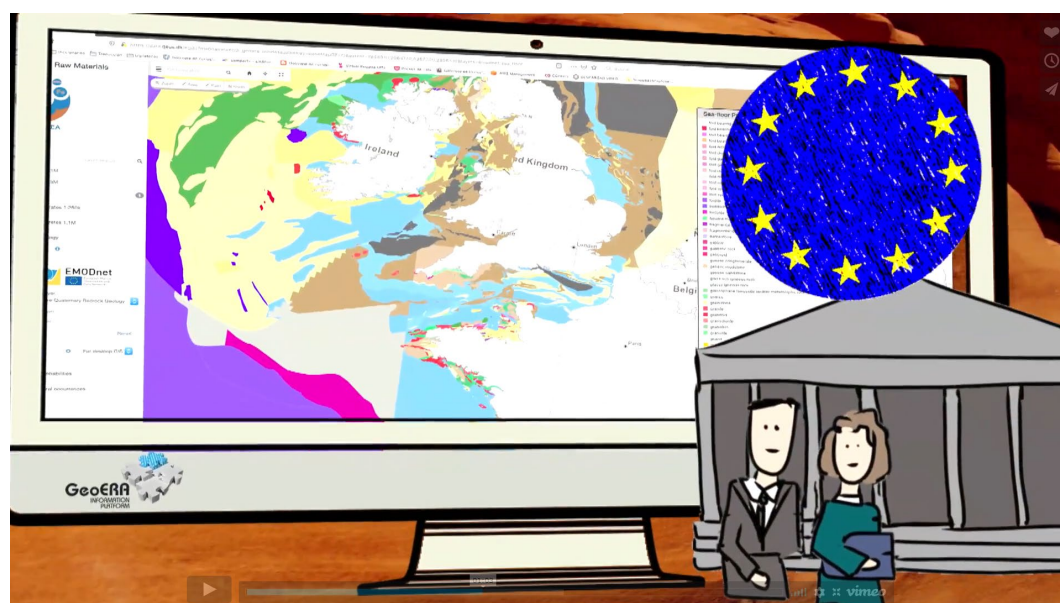


3 VIDEOS

- How can you use the GIP-P results? Video about the results and usefulness of GIP-P. This video shows 3 cases in which 1) decision makers, 2) the scientific/academic community, and 3) companies can use the platform to search for information on raw materials, groundwater and geo-energy, and meet their needs.

Target audience: experts connected with the project, stakeholders and decision makers, and public.

Dissemination: posted on YouTube, Twitter, blog and website of GIP project.





- Have a look at GIP project and GeoERA. The video shows the objectives of the project and the work done to standardise, organise, disseminate and preserve all the information generated by the rest of the GeoERA and previous projects. It shows how GIP-P will reinforce and strengthen the European Geological Data Infrastructure (EGDI), making the results sustainable over time.

Target audience: experts connected with the project, stakeholders and decision makers, and public.

Dissemination: posted on YouTube, Twitter, blog and website of GIP project.

https://www.youtube.com/watch?v=2k23li_HNuE



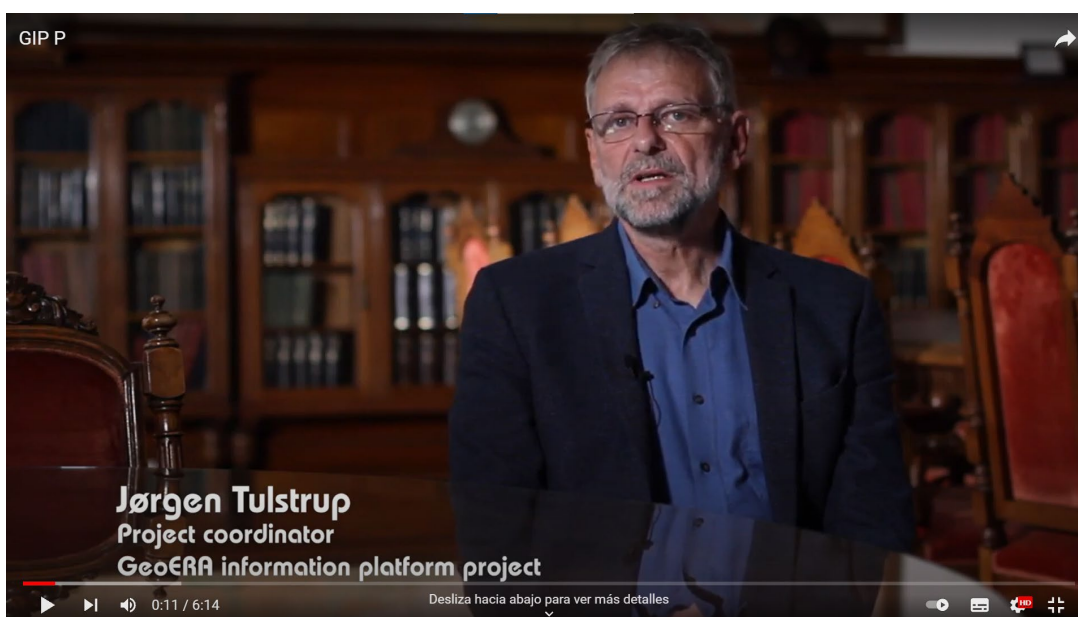


- GIP-P video. Interviews with members of the project explaining the objectives of GIP-P and importance of standardization, organization, dissemination, and conservation of all the information generated by projects. They also talk about the sustainability of the project results through the EGDI platform and about the project's target audience.

Target audience: experts connected with the project, stakeholders and decision makers, and public.

Dissemination: posted on YouTube and website of GIP project.

https://www.youtube.com/watch?v=CAbvy_7unkU



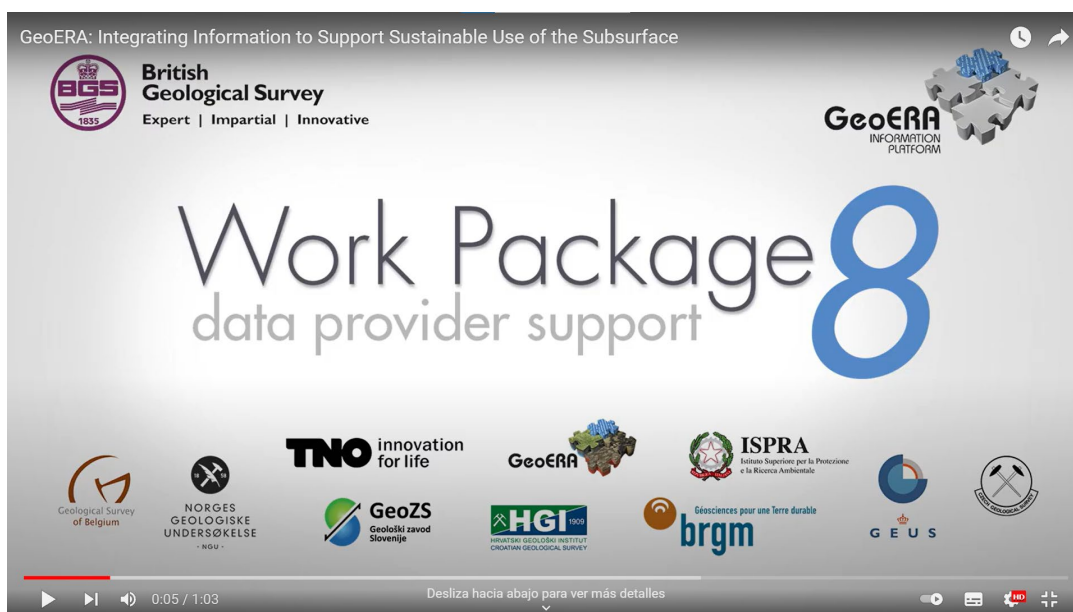


- GeoERA: Integrating information to support sustainable use of the subsurface. The WP leader and other members of WP8 (Data provider support) from BGS explain work done in this work package. Made by BGS.

Target audience: experts connected with the project, stakeholders and decision makers, and public.

Dissemination: posted on the BGS's YouTube channel and media gallery of GIP-P.

<https://geoera.eu/projects/gip-p/media-gallery/>





- Homemade video about WP2, WP4 and WP7 of the GIP project. One of the members of the project explain work done in WP2 (User requirements), WP4 (Semantic harmonisations issues) and WP7 (Developments-central). Made by IGME.

Target audience: experts connected with the project.

Dissemination: posted on the IGME's YouTube channel.

<https://www.youtube.com/watch?v=OASPGhUzvDE&t=23s>



- Homemade video about WP11 of the GIP project. The WP leader explain the objectives and work done in WP11 (Communication and dissemination). Made by IGME.

Target audience: experts connected with the project, stakeholders and decision makers, and public.

Dissemination: posted on the IGME's YouTube channel.

<https://www.youtube.com/watch?v=bJrfMIsfNco&t=3s>





- GeoERA presentation. One of the members of GIP-P explain the contribution of GSI to the GIP project. In particular, the activities carried out in WP2 are detailed. Made by GSI.

Target audience: experts connected with the project.

Dissemination: posted on the YouTube channel and media gallery of GIP-P.

<https://www.youtube.com/watch?v=T-FH6FK7LEI>





4 NEWSLETTERS

- GeoERA Newsletter #13. GIP-P contribution to the Newsletter.

Target audience: experts connected with the project, stakeholders (scientific and academic networks and infrastructures).

Dissemination: posted on GeoERA website.

<https://mailchi.mp/30ae6fa5d746/geoera-newsletter-4872309?e=d80f8ef84a>

Information Platform theme

GIP-project:

GeoERA Information Platform project.

In the framework of the GeoERA GIP-P project, a new search system is being developed in order to facilitate the discovery and access to geoscientific information available in Europe. This system can discover available information even if the search text entered by the user and the data or metadata do not match or they are in different languages. It can find information that semantically matches the search text and, to achieve this, it uses a multilingual thesaurus and full-text search capabilities.

The system offers a ranked list of results that meet the query specified by the user, providing basic metadata and different online accesses to datasets. It also searches inside datasets to get and display records from databases, documents in a document repository, etc.

^ IGME5000 - 1:5 Million International Geological Map of Europe and Adjacent Areas

16

MICKA HTML WMS HTML

The 1:5 Million International Geological Map of Europe and Adjacent Areas shows the pre-Quaternary geology of Europe onshore and offshore. In addition to the geology attributed by age, petrography and genesis, also magnetic anomalies, tectonic structures, metamorphism and – in the offshore areas – information about the continental/oceanic crust and the continental margin, are shown. The map was developed by BGR under the umbrella of the Commission of the Geological Map of the World (CGMW) and in cooperation with geological surveys organisations of 48 countries and more than 20 research institutes. For detailed information about the 'IGME 5000: More than just a map – A multinational GIS Project' please visit the IGME website.

Publisher
BGR - Institute for Geosciences and Natural Resources

Distributions

MICKA 9FD6624C-0AA7-46D4-9DA3-955E558CD5F1
HTML IGME5000 at EGD map viewer
WMS WMS
HTML Project information

Keywords
EGDI Europe Geologie Geology IGME5000 WMS

Read more about the search system at our blog at <https://geoera.eu/blog/search-systems-first-demo/>.



- GeoERA Newsletter #9. GIP-P contribution to the Newsletter.

Target audience: experts connected with the project, stakeholders (scientific and academic networks and infrastructures).

Dissemination: posted on GeoERA website.

<https://mailchi.mp/1f4dce0c3634/geoera-newsletter-4688277?e=d25833d8a9>

Information Platform theme project

GIP-project:

GeoERA Information Platform project.

In cooperation with the GIP-P Work Package 4 Task "Semantic Harmonization Issues - Project Vocabularies", several GeoERA projects are ready to elaborate their knowledge representation in the form of so-called SKOS vocabularies. In a first phase, vocabularies for fault classification and fault instance terminology (HIKE, HOTLINE) have been created and is prepared for SKOS modelling and implementation through an SKOS/RDF management software. Further vocabularies, such as for ornamental stones concerning the EUROLITHOS project, are to follow and thus support the projects knowledge base and content-related harmonization within the Europe-wide geodata processing.

The screenshot displays the project page for the 'Engadin-Inntal-Innsbruck-Salzburg-Amstetten Large-scale Fault System'. It includes a title, a description, a bibliography, and a network diagram. A red arrow points from the 'Geologic Structures (subject)' section to a 'Structure viewer' application. Another red arrow points from the 'Structure viewer' to a 'Geological Structures' section. A third red arrow points from the 'Geological Structures' section to a 'SPARQL Endpoint' section. The network diagram at the bottom shows the 'Engadin-Inntal-Innsbruck-Salzburg-Amstetten Large-scale Fault System' as a central node, with arrows pointing to 'Engadin Subfault System', 'Inntal Subfault System', 'Schiring Subfault System', and 'Innsbruck-Salzburg-Amstetten Fault System'. The 'Engadin Subfault System' is further divided into 'Engadin Inntal Fault System' and 'Engadin Inntal Subfault System'.

Example on a **project vocabulary concept** (from HIKE) with its mandatory properties such like definition, URI, bibliographic citation and its possibilities to **query** (2, database queries with SPARQL) and to **visualize the linked data information** (1, structure viewer and 3 semantic relations network diagram).



- GeoERA Newsletter #8. GIP-P contribution to the Newsletter.

Target audience: experts connected with the project, stakeholders (scientific and academic networks and infrastructures).

Dissemination: posted on GeoERA website.

<https://mailchi.mp/dbfbc06a902c/geoera-newsletter-1599413?e=d25833d8a9>

Information Platform theme project

GIP-project:

GeoERA Information Platform project.

The Information Platform project now has a good overview of where the [EGDI](#) platform will be extended in order to support all the 14 other GeoERA projects in organising, disseminating and safeguarding their results. Work has also started on defining a document repository and a general free text searching system for all information and results from the GeoERA projects. Regarding 3D geological models test are being carried out focusing on transferring data from the database to different viewing applications.

- GeoERA Newsletter #7. GIP-P contribution to the Newsletter.

Target audience: experts connected with the project, stakeholders (scientific and academic networks and infrastructures).

Dissemination: posted on GeoERA website.

<https://mailchi.mp/4cfba09d8784/geoera-newsletter-1550481?e=d25833d8a9>

Information Platform project

GIP-project:

GeoERA Information Platform.

The GIP-project has been focussing on collecting and describing the requirements from the fourteen other projects. These have been described in a report and this is now the basis for the next steps in which it will be defined how the EGDI platform will be extended to support the projects' results. On important data type, which has not been part of EGDI before, is 3D models. A prototype of how these will be stored and disseminated has been developed.



5 PRESS RELEASES

- New Metadata Cookbook

Target audience: experts connected with the project, stakeholders (scientific and academic networks and infrastructures).

Dissemination: sent to stakeholders by email.





NEW METADATA COOKBOOK

The new GIP-P product include detailed guidelines on how to insert and maintain metadata with a user friendly EGDI-Lite editor. This document is available on the GeoERA GIP User Documentation webpage (<https://geoera-gip.github.io/documentation/portal.html>).

Thanks to this cookbook the users of the GIP will gain in autonomy for inserting and maintaining the metadata with the editor EGDI-Lite, easy to use and that in addition counts on all the detailed technical documentation of all the profile of metadata EGDI. A new product of the GIP-P with which the **users of the European Geological Surveys involved in the GeoERA project will be able to learn step by step how to move through the EGDI Metadata catalogue and incorporate metadata records** with examples for the use of spatial data, thus feeding a pan-European database from the national catalogues.

The MetaData Cookbook Lite is a provisional user-friendly version, since another one will be available soon that will incorporate the 3D visualization of geological models. This EGDI metadata catalogue uses the MicKA technology for management and publication of metadata on structured data that enables to enter, edit, harvest, discover, and view metadata on geological data across Europe. It also provides tools for compilation and export of the metadata in a standardized format (international standards, bilingual records...).

It is available at :<https://czechgeologicalsurvey.github.io/MICKA-Docs/>

More info: Jørgen Tøstrup, GIP-P Coordinator. (jt@geus.dk)





- First demo of the Search System

Target audience: experts connected with the project, stakeholders (scientific and academic networks and infrastructures).

Dissemination: After the first press release was sent out, priority was given to using the blog to communicate news and developments, so this document was not sent out as a press release.

GIP-P: MAKING GEOERA MORE FRIENDLY

FIRST DEMO OF THE SEARCH SYSTEM

You will soon be able to access to the geoscientific information from all over Europe with GIP-P Search System!

Among the tasks that IGME (Geological Survey of Spain) has been entrusted is the creation of a web application that allows you to find geoscientific information available in the European area and, especially, the products generated by other projects of the GeoERA. This application, known as Search System, includes a complex search that will allow users.

- Find relevant resources based on the metadata from Micka (the EGD and GeoERA metadata catalogue).
- Access the resources through the available links (distributions). For example, the URL of a WMS service associated to the resource or the URL of a viewer where to visualize the resource, etc.
- Access to thematic applications is included. These applications are specialized web application to facilitate concrete thematic capabilities to query, display and analyse a resource. They are, therefore, outstanding distributions. The GeoERA Document Repository, an application with specific functionality for document searching, is an example of thematic application.
- View basic metadata of those resources and access to the full metadata record in Micka.
- Select subsets of elements in a resource (e.g. documents in the document repository, mines or mineral occurrences in Minerals4EU, points in a water database, etc.) and view their main attributes and location on a map. Searches can be made inside all available resources, as long as a connector (feature distribution) is developed to allow the system to launch the search.

To do this, the new Search System allows you to perform full text searches, spatial selections, filtering by topic category, type of resource, etc. A draft version of the system which, including at this point access to only a few resources and demo feature distributions, is temporarily accessible at <https://info.igme.es/searchsystem> and has been already published and presented to some members of the GIP-P. It is foreseen in the medium term to develop new functionalities and incorporate more resources and feature distributions in the search.

More Info: Ángel Prieto, GIS Technician at GIP-P, aprieto@igme.es

Logos: BGR, THG, IGME, SGU, TNSA, argen, GTK, rep, LNEG, HGI, IGME



- GIP-P: making GeoERA more fair

Target audience: experts connected with the project, stakeholders and decision makers.

Dissemination: After the first press release was sent out, priority was given to using the blog to communicate news and developments, so this document was not sent out as a press release.

14 geoscientific projects of GeoERA are contributing to the development of sustainable subsurface management for groundwater, geo-energy and mineral resources in Europe. The GeoERA Information Platform project (GIP-P) is here to help them



GIP-P: MAKING GEOERA MORE FAIR

GIP-P

WHY A GIP-PROJECT?

We have been brought into this world to help the GeoERA projects in organizing, disseminating and sustaining their products. The results will be more FAIR: Findable, Accessible, Interoperable and Reusable.

WHO BENEFITS?

In the first place the other GeoERA projects but through them a large variety of users including public and private decision makers, researchers, industry, the general public and others. We also make sure the data can be used by other infrastructures

WHO WE ARE?

24 partners with a large experience in geoscientific data management and standardization. We have a budget of 3,8K€ and are working in 11 work packages

WHAT IS THE BACKGROUND?

We have experience from a long range of previous projects and are building the platform on the European Geological Data Infrastructure, EODI

HOW WILL THE DATA BE ORGANIZED?

The data providers can choose if they want to upload their data to the central EODI or they want to keep on maintaining them on their own servers. The last option should be used if data is expected to be updated regularly after GeoERA

WHAT DO WE COVER?

Most of the results from the GeoERA projects will be in the form of maps, reports and models. But we will also have to handle background data like spreadsheets, dedicated databases, on-line data from loggers, photographs, etc. We will require that everything is documented with metadata

WHAT ABOUT STANDARDIZATION?

We will help the projects in using European and international standards where these exist. Standards from INSPIRE and CGI have high priority. But we will also suggest extensions to the standards where these are needed

SUPPORT NETWORK

We are supporting the data providers through:

- A buddy system and mentoring network helping users to follow interoperable standards.
- Help desk functions for standardization and delivery of data.
- Webinars

THE FUTURE (AFTER GEOERA)

EuroGeosurveys is working on a proposal for a European Partnership on a Geological Service. The results from GeoERA managed by the GIP-P will be fundamental to such a Partnership

3,8K


TOTAL BUDGET

24


PARTNERS FROM DIFFERENT GEOLOGICAL EUROPEAN SURVEYS

11

WORK PACKAGES



This activity has received funding from the European Institute of Innovation and Technology (EIT), a body of the European Union, under the Horizon 2020, the EU Framework Programme for Research and Innovation





6 BLOG POSTS

- News: GeoERA's and EGDl's platform anniversary

Target audience: experts connected with the project, stakeholders and decision makers, and public.

Dissemination: posted on the blog and Twitter of GeoERA.

<https://geoera.eu/blog/geoeras-and-egdi-platforms-anniversary/>

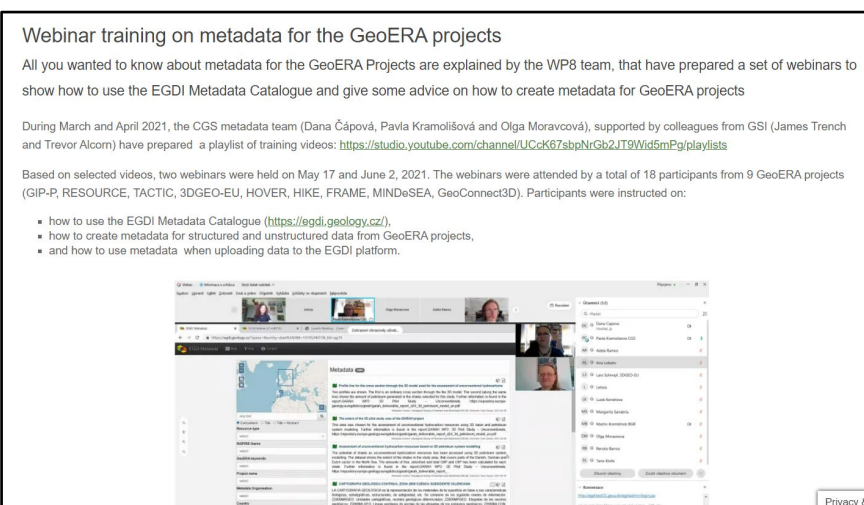


- News: Webinar training on metadata for the GeoERA projects

Target audience: experts connected with the project, stakeholders (scientific and academic networks and infrastructures).

Dissemination: posted on the blog and Twitter of GeoERA.

<https://geoera.eu/blog/webinar-training-on-metadata-for-the-geoera-projects/>





- News: Search System on test server

Target audience: experts connected with the project, stakeholders (scientific and academic networks and infrastructures).

Dissemination: posted on the blog and Twitter of GeoERA.

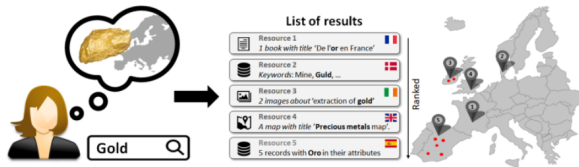
<https://geoera.eu/blog/search-system-on-test-server/>

SEARCH SYSTEM ON TEST SERVER

In a previous blog [post](#) we talked about the first demo of the Search System, an application developed within the GeoERA Information Platform Project (GIP-P) with the purpose of allowing users to locate and access the datasets that best meet their needs. Now that we have installed the **system on the test server**, we take the opportunity to write a new blog post about the system.

For those who are not familiar with the Search System yet, we could highlight two of the things it makes it possible to do:

- It allows you to **locate datasets by text search in a totally new way**. From the search text typed by the user, using a multilingual thesaurus, translations of the text, broader, narrower and related terms are added to the search. In addition, full-text searches are performed, which allows the search to work even if the search text is a variation of the text that appears in the metadata (if the system did not do this, user might miss datasets that contain "geological", although they probably would like to find them when searching for "geology"). With all of the above, the system permits users to find datasets that do not contain in their metadata exactly the terms they typed.



- It also **searches in the data** and allows users to display the results. Sometimes metadata is not enough to know if a dataset is useful or not, so we need to display the data itself (the values for its attributes and the location, trace or spatial delimitation for the selected features in the dataset).

Metadata Data Privacy & C

- News: GeoERA project semantics: Vocabularies, Keyword Thesaurus

Target audience: experts connected with the project, stakeholders (scientific and academic networks and infrastructures).

Dissemination: posted on the blog and Twitter of GeoERA.

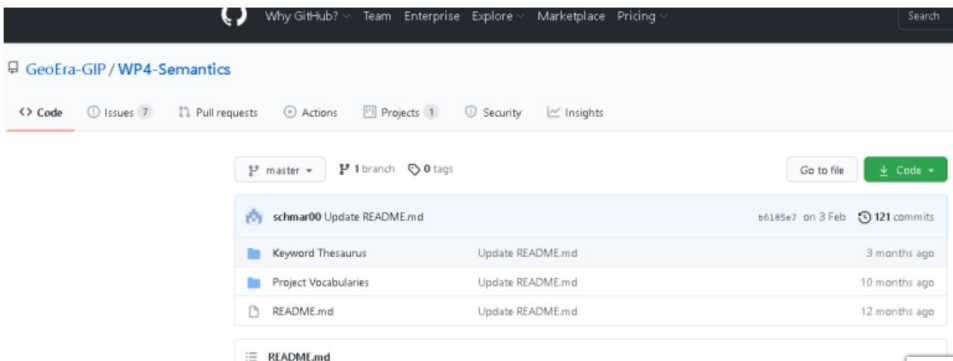
<https://geoera.eu/blog/geoera-project-semantics-vocabularies-keyword-thesaurus/>

GeoERA Project Semantics: Vocabularies, Keyword Thesaurus

In the last few months, large parts of the planned **GeoERA Project Vocabularies** have been completed. The majority of the vocabulary (a total of approx. 3000 concepts) describes:

- Fault systems and their systematics across borders in the countries of all HIKE, HotLime or GeoConnect3d participants.
- The fields of ornamental stones, geothermal energy or groundwater are dealt with in other vocabularies.

This vocabulary helps clarifying cross border terminology, for instance, scientific concepts and terms or names used in every GeoERA Project.



Why GitHub? · Team · Enterprise · Explore · Marketplace · Pricing · Search

GeoEra-GIP / WP4-Semantics

<> Code Issues Pull requests Actions Projects Security Insights

master 1 branch 0 tags Go to file Code

schmar00 Update README.md b6185e7 on 3 Feb 121 commits

Keyword Thesaurus	Update README.md	3 months ago
Project Vocabularies	Update README.md	10 months ago
README.md	Update README.md	12 months ago

README.md Privacy & C

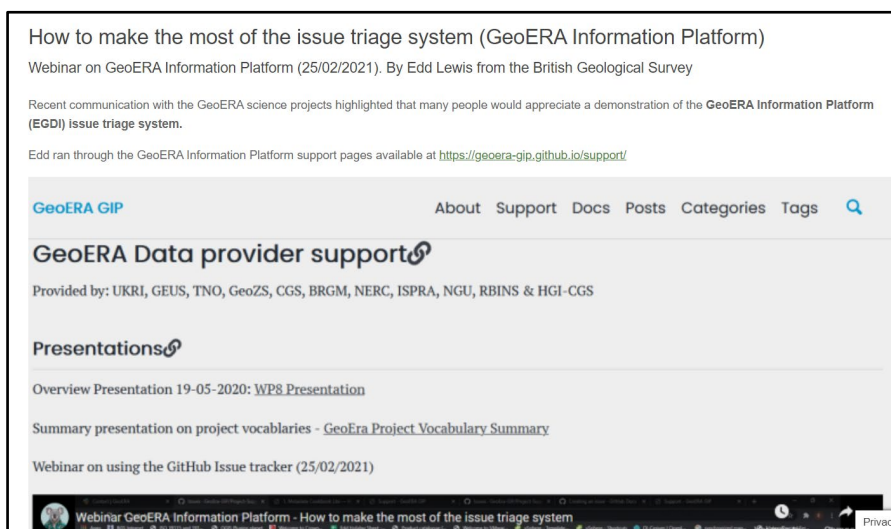


- News: How to make the most of the issue triage system (GeoERA Information Platform)

Target audience: experts connected with the project, stakeholders (scientific and academic networks and infrastructures).

Dissemination: posted on the blog and Twitter of GeoERA.

<https://geoera.eu/blog/how-to-make-the-most-of-the-issue-triage-system-geoera-information-platform/>



- News: A new version of the Administration Module at EGD Platform

Target audience: experts connected with the project, stakeholders (scientific and academic networks and infrastructures).

Dissemination: posted on the blog and Twitter of GeoERA.

<https://geoera.eu/blog/a-new-version-of-the-administration-module-at-egdi-platform/>





- **News: Uploading images in GeoTIFF format to the GIP-P platform**

Target audience: experts connected with the project, stakeholders (scientific and academic networks and infrastructures).

Dissemination: posted on the blog of GeoERA.

<https://geoera.eu/blog/uploading-images-in-geotiff-format-to-the-gip-p-platform/>

Uploading images in GeoTIFF format to the GIP-P platform

GeoERA Information Platform Project (GIP-P) support the rest of the GeoERA projects, facilitating the uploading of results to the **EGDI platform** (<http://www.europe-geology.eu/>) and providing a standardised exchange of information. We are pleased to inform you that the **GeoTIFF** upload module is now available on the GIP-P data platform; thus uploading images in GeoTIFF format is now a piece of cake. More details can be found in the user guide: <http://egdi-public.gitlabpages.geus.dk/egdi-documentation/#/main-content/AdministrationModule?id=upload-geotiff>

Metadata url*

EGDI Metadata Catalogue url...

Example

GeoPackage / GeoTIFF file*

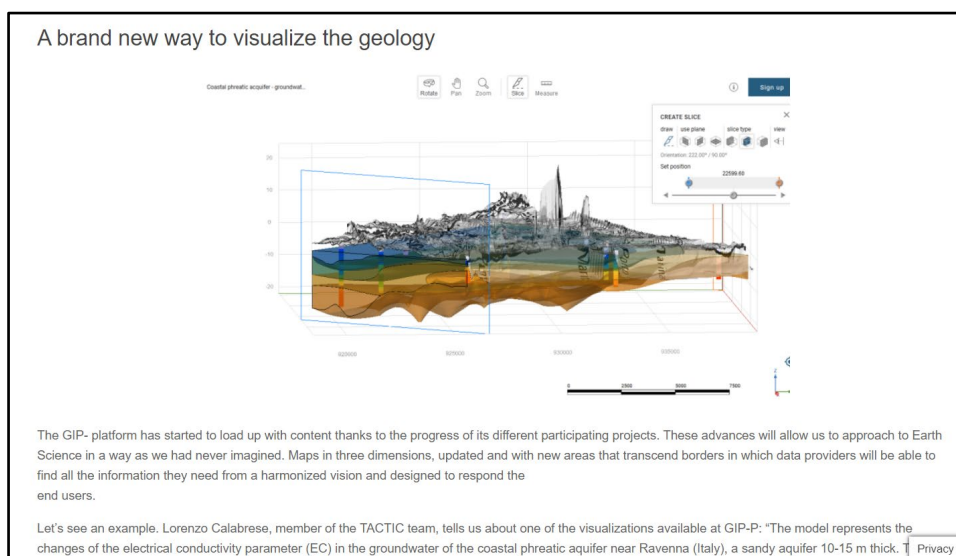
Drag your file here
or click to select manually

- **News: A brand new way to visualize the geology**

Target audience: experts connected with the project, stakeholders (scientific and academic networks and infrastructures).

Dissemination: posted on the blog of GeoERA.

<https://geoera.eu/blog/a-brand-new-way-to-visualize-the-geology/>



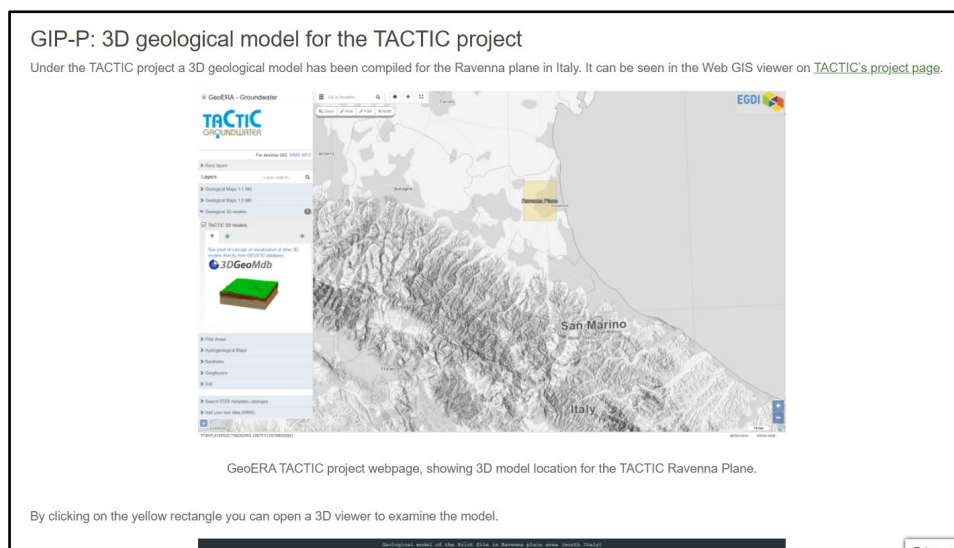


- News: GIP-P: 3D geological model for the TACTIC project

Target audience: experts connected with the project, stakeholders (scientific and academic networks and infrastructures).

Dissemination: posted on the blog of GeoERA.

<https://geoera.eu/blog/gip-p-post-3d-geological-model-for-the-tactic-project/>



- News: Search System's first demo

Target audience: experts connected with the project, stakeholders (scientific and academic networks and infrastructures).

Dissemination: posted on the blog of GeoERA.

<https://geoera.eu/blog/search-systems-first-demo/>

