

Geothermal Research Search engine

WP3 – Research strategy



ETIP-DG

European Technology & Innovation
Platform on **Deep Geothermal**

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Task 3.1 - Data collection, organization and sharing

To build an information platform to support the identification of the most relevant **research priorities**:

- Implementation of a Geothermal Research Search Engine for documents and/or references
 - Geothermal project deliverables library (i.e., H2020, FP7, FP6, ...)
 - Geothermal documents library (e.g., SET-Plan, National roadmaps, market reports, energy sector status, social acceptance documents, regulatory aspects, policies, ...)
- Description of each resource (i.e. metadata)
- Definition of controlled keywords and category
- Interoperable by using international standards
- Organization in a database of the information gathered from documents/projects for strategic analysis (e.g., programme, received funds, topic, coordinator, partners, status, ...)

Geothermal Research Search Engine

ZENODO will act as **back-end** and it guarantees:

- **Safety:** the resources are stored safely for the future in the same cloud infrastructure as CERN's own (Large Hadron Collider) LHC research
- **Funding assignment:** it allows to identify grants, integrated in reporting lines for research funded by the EC via OpenAir
- **Communities:** it is possible to create own complete digital repository accepting or rejecting uploads by creating 'Communities'
- **Citable-Discoverable:** uploading allows to get a Digital Object Identifier (DOI) to make them easily and uniquely citable



A screenshot of the Zenodo search results page. The search term "geothermal" is entered in the search bar. The page shows 89 results. The first result is "Potential of geothermal systems in Picardy" by Dourlat, Estelle, uploaded on May 18, 2017. The second result is "European Geothermal Information Platform EGIP - An overview to prepare the implementation" by Calcagno, Philippe; Bragasson, Thorvaldur; Minig, Christian; Sörös, László; Trumpy, Eugenio, uploaded on September 30, 2016. The third result is "The Development and Deployment of Deep Geothermal Single Well (DGSW) Technology in the United Kingdom" by Collins, Michael A.; Law, Ryan, uploaded on May 18, 2017. The page includes filters for Access Right (Open, Closed, Restricted), File Type (Pdf, Zip, Docx, Jpg, Png, Csv, R, Xlsx), and Keywords (Geothermal, Energy, Biodiversity).

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An easy to use **front-end** will be specially designed and developed.

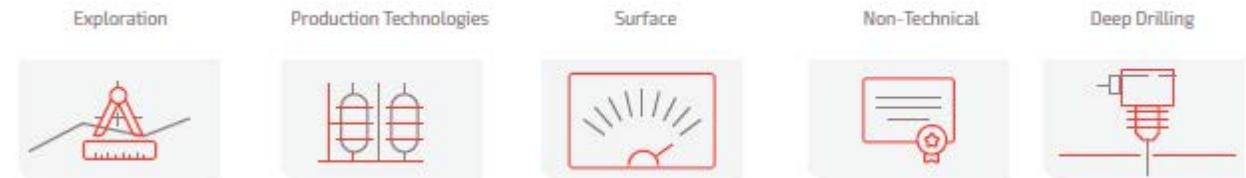
The front-end will be fully integrated in the ETIP-DG website but it will exploit the features and power of ZENODO repository.

Key feature will be the search engine which will rely on a strategic and controlled assignment of the categories and keywords.

- Suggested categories are the 5 ETIP-DG Working Groups
- Fields available for search: type of resource, publication type, title, authors, language, keywords, communities, grants, others...
- Keywords suggestions:
 - WG category
 - Country/ies of reference
 - ...



Working Groups Icons





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