

Deliverable 8.1

**A series of cookbooks
(documents in PDF format or
similar) assisting data providers
delivering data to the GIP
[released iteratively with final
version month 32]**

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Deliverable Data

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INTRODUCTION

Data provider support (WP8) was designed to empower the GeoERA science projects to disseminate and integrate data, information, interpretations and models resulting from their activities through the GeoERA Information Platform (EGDI).

To achieve this goal, the work package set out to provide a suite of support tools, channels and activities to facilitate data sharing through the EGDI including the generation of cookbooks, provision of buddy systems and mentoring networks, creation of eLearning resources and delivery of training webinars.

The work package set out to build on data provider support channels created in previous data sharing and interoperability projects by extending them with new, novel support functions.

The first of these data provider support channels was to produce a series of cookbooks to assist data providers in presenting their data outputs through the EGDI. A cookbook can be considered a best practice manual 'containing a straightforward set of already tried and tested recipes or instructions for a specific activity'.

The work package provided a series of 'cookbooks' giving best practice regarding how to deliver data through the EGDI. Topics included information on data formats that can be delivered through the EGDI, advice on working with spatial datasets and instructions on how to upload data to the platform. Importantly, the cookbooks also provide help regarding the provision of metadata that describe all datasets that are to be made available through the EGDI. The cookbooks provide guidance notes to enable full participation regardless of an organisation's expertise.

Development of the cookbooks commenced within the Prototyping phase of GeoERA and continued into the Full Development phase with finalisation being carried out in the Wrap-up phase. It was anticipated that most GeoERA science projects would add their data to the EGDI towards the end of the Full Development phase and in the Wrap-up phase. The data support resources therefore needed to be available at that point though initial versions were provided to encourage data providers to make early attempts at delivering via the EGDI.

This brief report describes the cookbooks that were produced within deliverable D8.1.



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1 GEOERA DATA PROVIDER SUPPORT HUB

The centralised GeoERA data provider support hub is available at

<https://geoera-gip.github.io/support/>

All data provider support resources including the cookbooks produced in D8.1 are available from this location. This support hub has been implemented in GitHub to promote open, collaborative, iterative development of the support resources provided.

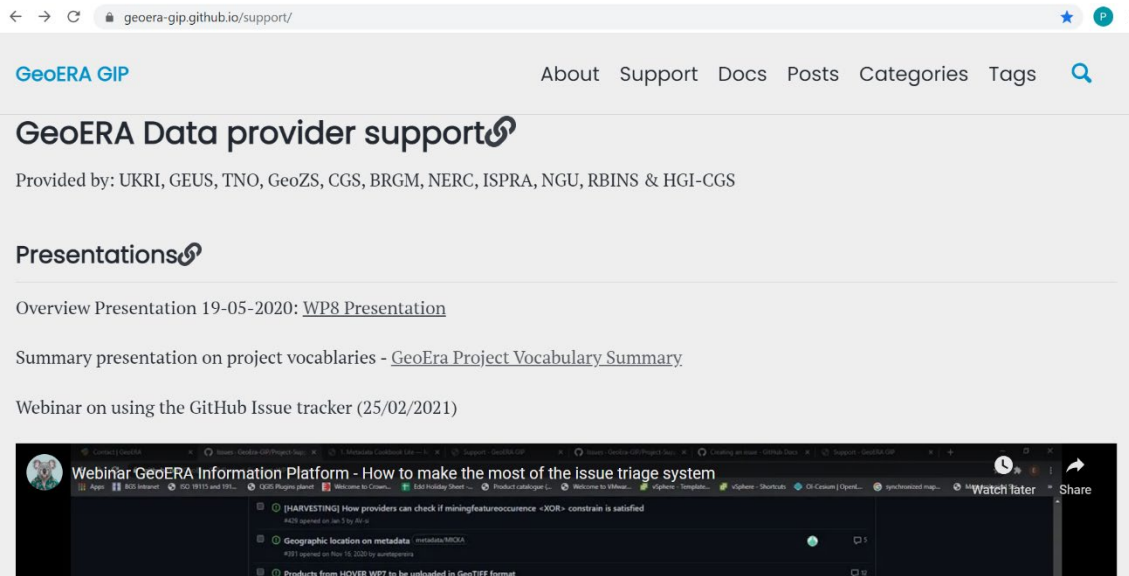


Figure 1: GeoERA data provider support hub.



2 COOKBOOKS

Cookbooks were provided for two main topics as discussed below.

2.1 EGDl Data Delivery Guidance

EGDI Data Delivery Guidance provides information describing how to deliver data to the EGDI platform.

These cookbooks can be accessed from

<http://egdi-public.gitlabpages.geus.dk/egdi-documentation>

They provide information on delivering data to EGDI where you can read about the types of data that can be delivered to the EGDI platform and about the pros and cons of delivering data by upload or by data services. Information is provided on creating spatial data sets and you can find help on how to create your data sets in a way that make them most usable for the users at the EGDI platform. Instructions are provided on how to upload data sets or register data services in EGDI.

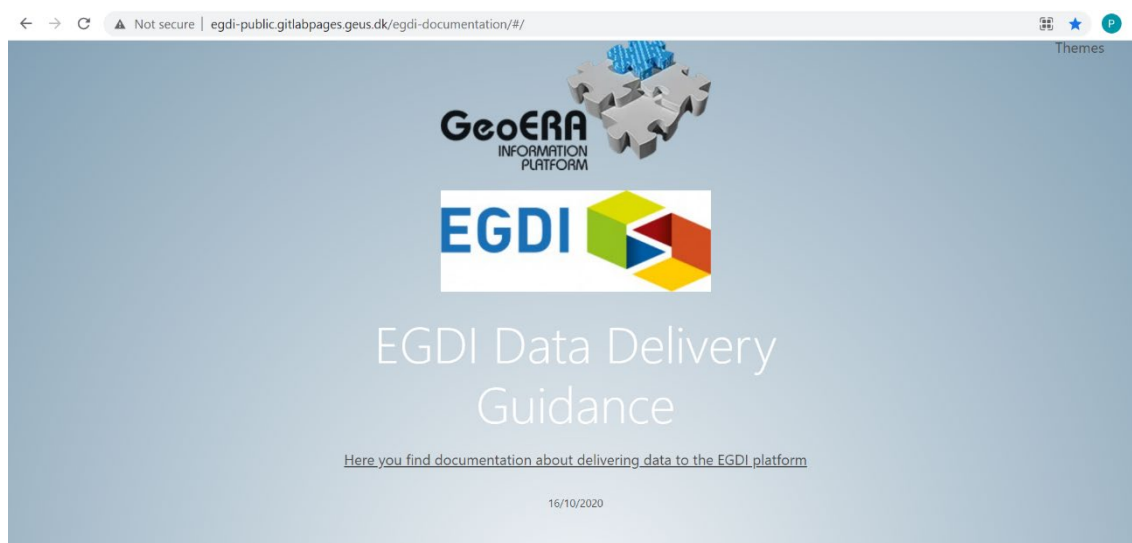


Figure 2: EGDI Data Delivery Guidance cookbook

2.2 Metadata

Data providers must have added metadata describing their data sets in the EGDI Metadata Catalogue (MICKA) before they can upload data sets or register data services



within the EGDI. Details of how to enter metadata in conformance with the EGDI metadata profile are provided at:

<https://czechgeologicalsurvey.github.io/MICKA-Docs/>

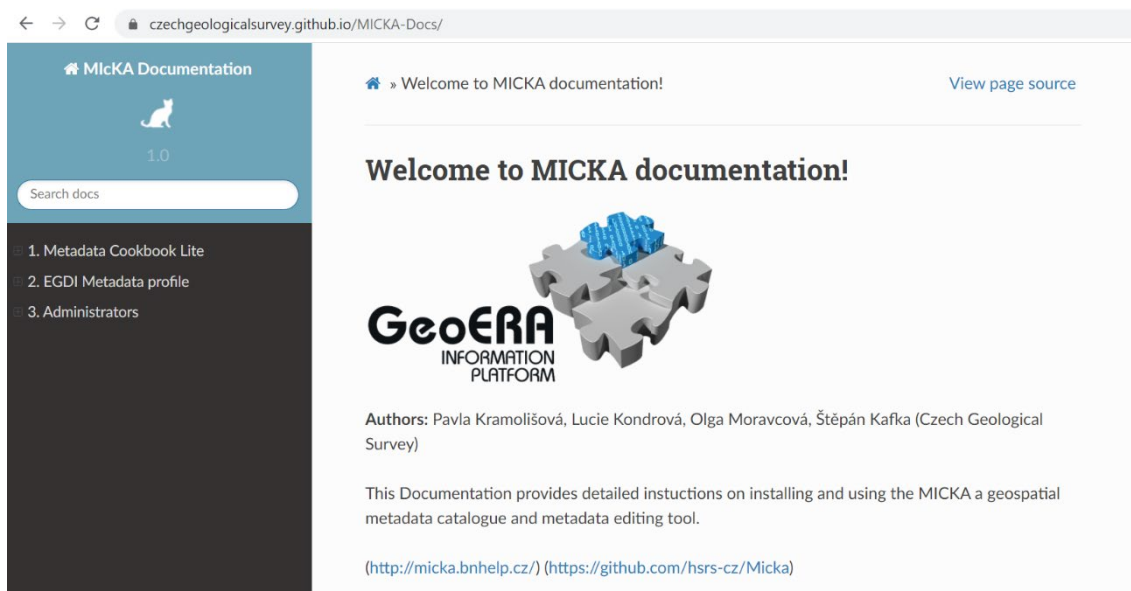


Figure 3: EGDI metadata cookbook



3 OTHER SUPPORT CHANNELS

A series of additional data provider support information was provided alongside the cookbooks as described below.

3.1 Webinar and presentations

Webinars were provided to reinforce the cookbook content and enable GeoERA science projects to ask further questions. These webinars were well attended by upwards of 30+ collaborators. Webinar topics included EGDI data delivery guidance, metadata provision and use of the information platform issue tracker. These webinars were recorded and made available as videos from the support hub. In addition, powerpoint presentations focusing on different aspects of the GeoERA information platform were made available from the support hub where considered useful and relevant.

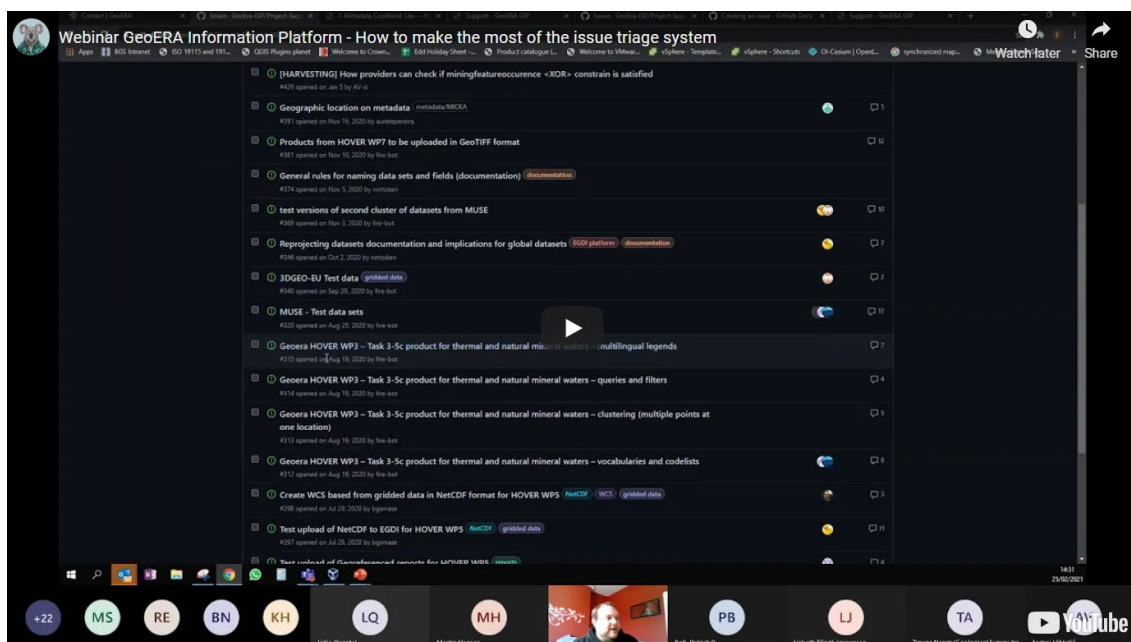


Figure 4: GeoERA information platform webinar on the issue triage system.

3.2 Issue tracker

A public issue tracker was provided for the GeoERA information platform to enable all users to easily raise queries that could be answered by anyone within the GeoERA community. WP8 monitored the issue tracker to direct queries to appropriate personnel and to try and ensure timely responses to questions raised. By raising and responding to queries in the open, the answers provided are readily available to others with similar questions in the future.



The screenshot shows the GitHub interface for the repository 'GeoEra-GIP / Project-Support-WP8'. At the top, there are navigation links for 'Why GitHub?', 'Team', 'Enterprise', 'Explore', 'Marketplace', and 'Pricing'. The repository name is displayed, along with 'Notifications', 'Star' (6), and 'Fork' (2) buttons. Below the repository name, there are tabs for 'Code', 'Issues' (19), 'Pull requests', 'Discussions', 'Actions', 'Projects' (1), 'Wiki', 'Security', and 'Insights'. A search bar contains the text 'is:issue is:open'. There are also filters for 'Labels' (22) and 'Milestones' (0), and a 'New issue' button. The main content area shows a list of issues with columns for status (19 Open, 27 Closed), author, label, projects, milestones, assignee, and sort. The visible issues are:

- #438: MICKA forces vertical reference system and extent when not appropriate (opened 18 days ago by nmtoken)
- #435: Import of GeoTIFF fails in EGDl test platform (opened on Jan 26 by nmtoken)
- #429: [HARVESTING] How providers can check if miningfeatureoccurrence <XOR> constrain is satisfied (opened on Jan 5 by AV-si)
- #391: Geographic location on metadata (opened on Nov 16, 2020 by auretepereira)
- #381: Products from HOVER WP7 to be uploaded in GeoTIFF format (opened on Nov 10, 2020 by fire-hot)

Figure 5: GeoERA Information Platform issue tracker

3.3 Code repositories

A range of code repositories relevant to the GeoERA information platform were made available from the support hub and further augmented the information provided in the cookbooks. This included information on project vocabularies and semantics as well as details on EGDl data and metadata delivery.

The screenshot shows a section titled 'Key Repositories/Links' with a list of URLs:

- <https://geusgitlab.geus.dk/egdi>
- <https://github.com/GeoEra-GIP/WP4-Semantics>
- <https://github.com/schmar00/project-vocabularies>
- <https://github.com/schmar00/semantic-search>
- <https://geusgitlab.geus.dk/egdi-public/egdi-documentation>
 - <http://egdi-public.gitlabpages.geus.dk/egdi-documentation/#/>
- <https://github.com/GeoEra-GIP/Project-Support-WP8>
 - <https://geoera-gip.github.io/Project-Support-WP8>
 - <https://geoera-gip.github.io/Project-Support-WP8/presentations/2020-05-12/#/title>
- <https://github.com/CzechGeologicalSurvey/Micka>
- <https://github.com/CzechGeologicalSurvey/MICKA-Docs>
 - <https://czechgeologicalsurvey.github.io/MICKA-Docs/>

Figure 6: Key GeoERA code repositories

3.4 eLearning resources

A series of eLearning resources have been developed to make it easier for data providers to understand the guidance provided by the cookbooks designed and prepared in WP8. This guidance aims to increase the understanding of the implementation actions required



to successfully provide data to the GIP. Further details of these eLearning resources are provided in a separate report related to deliverable D8.2.

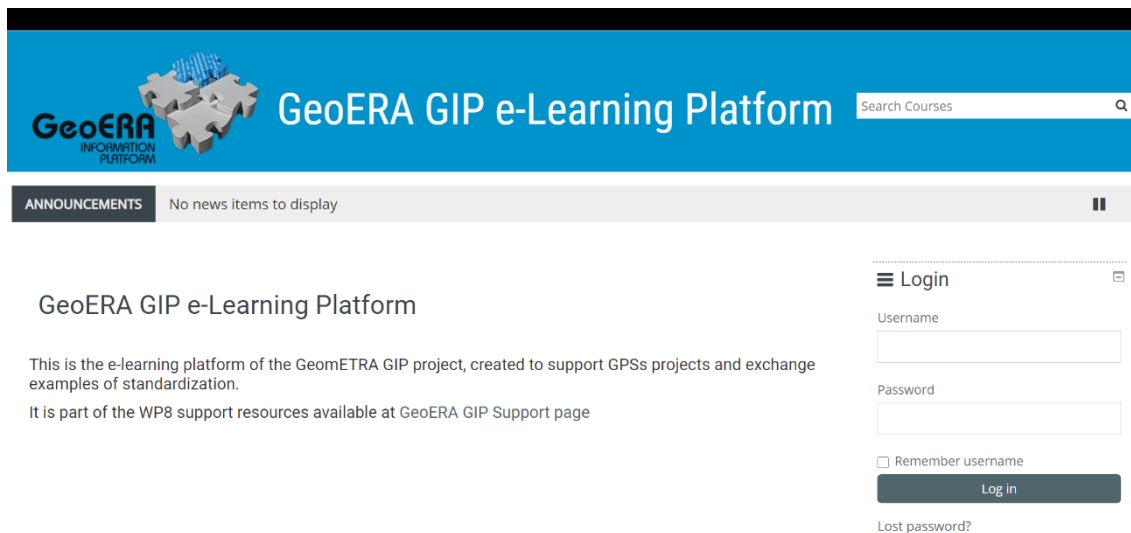


Figure 7: GeoERA eLearning platform

3.5 Helpdesk

Should users not be able to find the information they need through the various support channels offered above, an email helpdesk was operated by WP8. Support questions could be raised by emailing

support@geoera.eu

Any such questions emailed to the helpdesk would be replicated on the issue tracker in case the responses would be useful in the future to other users.

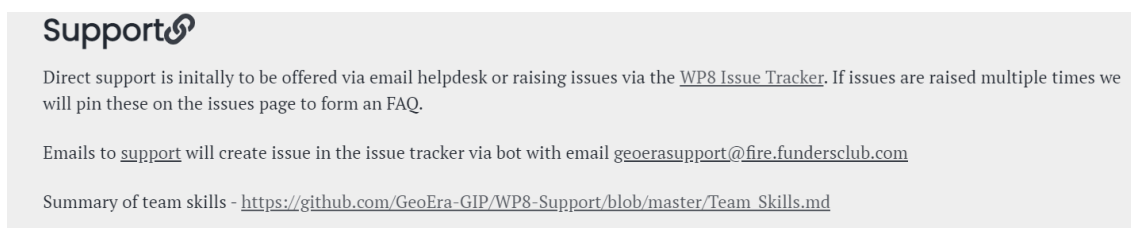


Figure 8: GeoERA information platform operate an email support help desk.