Assessment of Earth System Dataset Discovery

Data Terra is a research infrastructure that encompasses a collection of data hubs, each data hub collecting observations about an Earth System Compartment (Ocean for ODATIS data hub, Atmosphere for AERIS, Solid Earth for FormaTerre and Continental Surfaces for THEIA). Data Terra is part of the French Ministry for Higher Education, Research and Innovation.

The Earth System Dataset Discovery engine federates dataset metadata from the four Data-Terra data-hubs, to improve data Findability, Accessibility, Interoperability and Reuse (FAIR). In particular, (i) centralising the dataset search, (ii) displaying an explanatory graph, and (iii) extending the search terms with open vocabularies on the web (e.g., AGROVOC, GCMD).

The main objective of this survey is to assess the clarity, relevance, and ease of use of the ongoing development of the dataset search engine. For this purpose, we ask you to follow two search scenarios and answer the survey (this takes approximately 15 minutes). The first scenario allows users to manipulate the tool by performing a predefined keyword search. The keyword search is then expanded with linked concepts. In the second scenario, you perform a search with the keyword of your choice.

* Indica que la pregunta es obligatoria

1. Correo *

Scenario 1: Predefined Keyword search.

Please go to the app: https://purl.org/earthsystemdatasetdiscovery

Step 1. **Enter** the keyword “Temperature” as the search term and click “retrieve datasets”.

→ the retrieved datasets appear in the list at the bottom.

Questions about the retrieved datasets:

2. **Q1.** How clear do you find the provenance information (data hub) of retrieved datasets? *

Marca solo un óvalo.

- ◯ Not clear at all
- ◯ Slightly clear
- ◯ Moderately clear
- ◯ Clear
- ◯ Very clear

3. **Q2.** How informative do you find the retrieved dataset list? *

Marca solo un óvalo.

- ◯ Not informative at all
- ◯ Slightly informative
- ◯ Moderately Informative
- ◯ Informative
- ◯ Very informative

Step2. **Click on** a specific dataset to have more details.

→ Relationships linking the search term to the retrieved dataset are shown as a **explanatory graph**.

→ Details of the selected dataset are displayed on the right.

Questions about the explanatory graph:

4. **Q3.** How understandable do you find the relationship between the search term and the retrieved datasets using the graph? *

Marca solo un óvalo.

- ◯ Not understandable at all
- ◯ Slightly understandable
- ◯ Moderately understandable
- ◯ Easily understandable
- ◯ Very easily understandable

5. **Q4.** How easy is it to **assess the relevance** of the retrieved datasets according to the search term? *

Marca solo un óvalo.

- ◯ Not easy at all
- ◯ Slightly easy
- ◯ Moderately easy
- ◯ Easy
- ◯ Very easy

6. **Q5.** Would you include an additional explanation for the graph? (multiple choice) *

Selecciona todos los que correspondan.

- ☐ Another graph
- ☐ Textual representation (e.g. using NLP)
- ☐ Statistical plots
- ☐ Otro: _____

Questions about the dataset details:

7. **Q6.** How accessible are the details of a particular dataset? *

Marca solo un óvalo.

- Not accessible at all
- Slightly accessible
- Moderately accessible
- Easily accessible
- Very easily accessible

8. **Q7.** How informative are the details provided about the selected dataset? *

Marca solo un óvalo.

- Not informative at all
- Slightly informative
- Moderately Informative
- Informative
- Very informative

Step 3. **3.a) Extend AGROVOC external vocabulary,**

3.b) Enable narrower and

3.c) Click on retrieve datasets.

→ The list of datasets matching linked concepts is displayed below

9. **Q8.** How relevant are the retrieved datasets compared to the initial search? *

Marca solo un óvalo.

- ◯ Not relevant at all
- ◯ Slightly relevant
- ◯ Moderately relevant
- ◯ Relevant
- ◯ Very relevant

Scenario 2: User-defined Keyword search.

Please go to or refresh (Ctrl+r) the page: https://purl.org/earthsystemdatasetdiscovery

In the context of Earth System Dataset Search, follow this user experience:
Enter a keyword that may be of interest in your domain or work.
Explore the retrieved datasets
Enable (narrower/broader) linked concepts to the vocabularies of your choice

10. **Q9.** What keyword do you enter? *

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11. **Q10.** Did the retrieved datasets come from different data hubs? *

Marca solo un óvalo.

- ◯ Yes
- ◯ No

12. **Q11.** Are the retrieved datasets relevant to the search term? *

Marca solo un óvalo.

- Not relevant at all
- Slightly relevant
- Moderately relevant
- Relevant
- Very relevant

13. **Q12.** Did the exploration, enabling external vocabularies, help you to find additional relevant datasets? *

Marca solo un óvalo.

- Not relevant at all
- Slightly relevant
- Moderately relevant
- Relevant
- Very relevant

User Profile Information

14. **Q13.** What is your current status? *

Marca solo un óvalo.

- Researcher
- Student
- Data manager or developer
- Otro: _____

15. **Q14.** Do you have a scientific domain of expertise? *

Marca solo un óvalo.

- Yes
- No

16. **Q15.** Could you please enter your domains of expertise separated by a comma? *

_____

17. **Q16.** How confident do you feel about adopting new numerical tools? *

Marca solo un óvalo.

- Not confident at all
- Slightly confident
- Moderately confident
- Confident
- Very confident

18. **Q17.** How familiar are you about the terms of open linked data and FAIR principles? *

Marca solo un óvalo.

- Not familiar at all
- Slightly familiar
- Moderately familiar
- Familiar
- Very familiar

19. **Q18.** Which of the Data-Terra data-hubs have you used?: (multiple choice) *

Selecciona todos los que correspondan.

- [ ] ODATIS
- [ ] AERIS
- [ ] FormaTerre
- [ ] THEIA
- [ ] None of them
- [ ] Otro: _____

20. Please feel free to add any comments about your user experience or this survey:

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