ENERMAPS GATEWAY

How to support energy data management

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EnerMaps.eu

ENERMAPS PROJECT

EnerMaps aims to improve **data management and accessibility** in the field of **energy research** for the **renewables industry.**

Duration : April 2020 to April 2022 - Budget of 1 million € - www.EnerMaps.eu

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CURRENT SITUATION –ENERGY DATA

Energy data in **separated databases**, no quality-check.

Scientific data is **stored but not easy to find**, so not re-used.

Lack of **visualization** and analysis tools.

Data-related **know-how** of target groups is low.

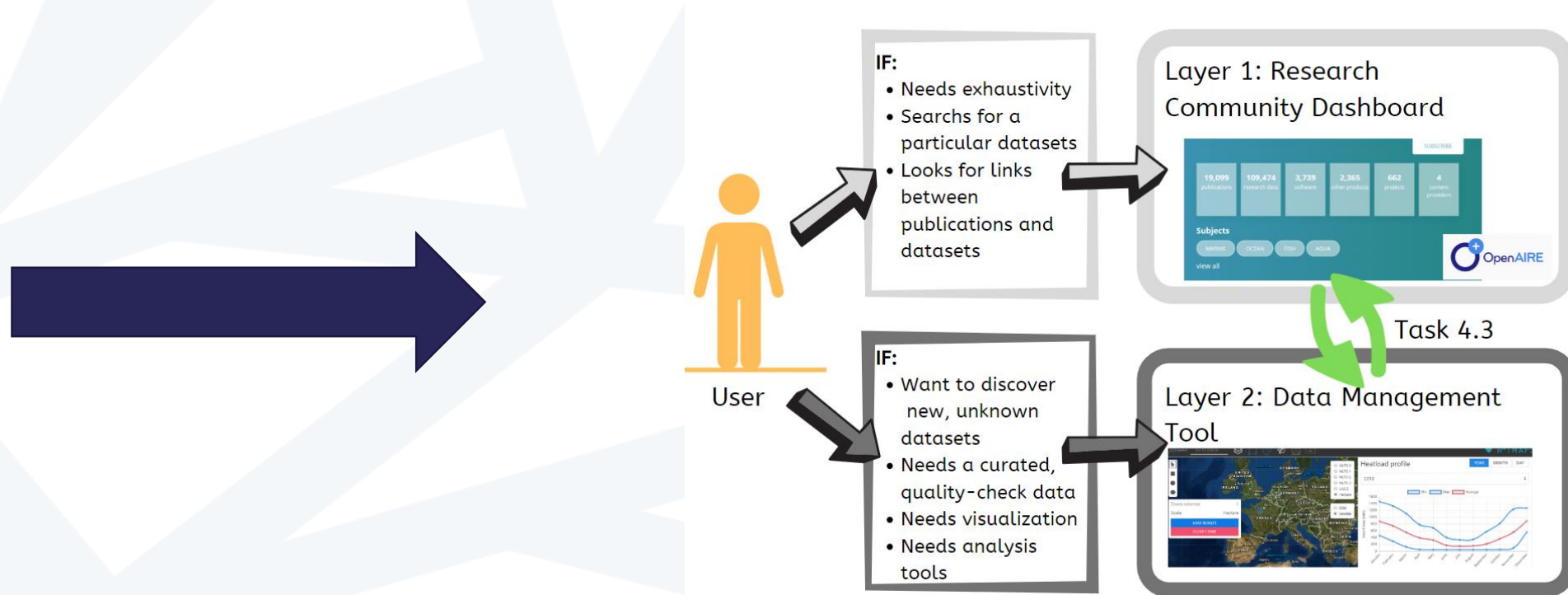EnerMaps.eu

CHALLENGES - OPEN SCIENCE

- Projects last 2-3 years it is difficult to keep data long term

- Unclear licenses

- Unclear methodology (not clear how data was created or measured)

- Access to software and model are not always open-source, «black-box» effect.

- Difference between countries, data providers, etc. in an inter-connected grid.

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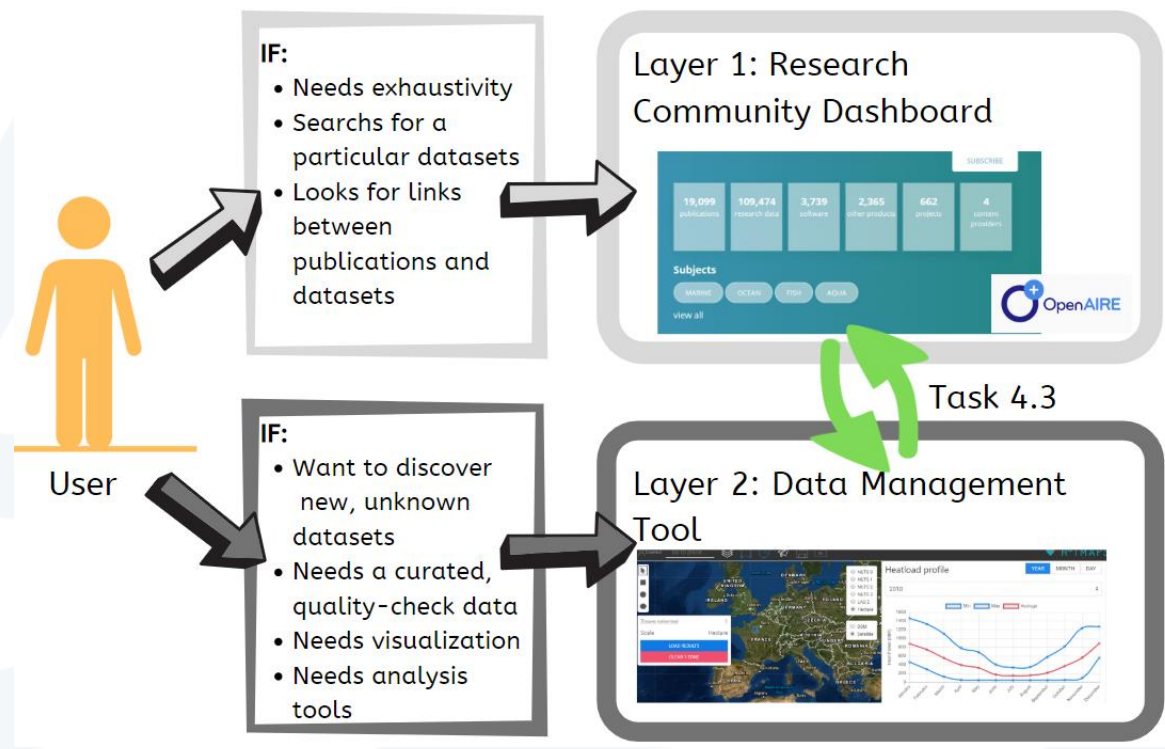
PARTICULARITY OF THE ENERGY FIELD

Stong differences between the user needs, high data needs from non-technical actors

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OUR CONCEPT

We propose two entry-points for data management for our users which function as a coherent tool.

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LAYER 1 : COMMUNITY GATEWAY

Additional Tab with the link to the visualisation tools

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LAYER 1: FEATURED DATASETS

SUMMARY	PUBLICATIONS	RESEARCH DATA	SOFTWARE	OTHER RESEARCH	FEATURED DATASETS
	310,843	1,081	26	2,366	6

Featured Datasets

Here are listed some of the most important energy datasets as selected by energy experts.
Check them if you want to easily explore and visualize the European energy landscape, using only well-known datasets which you can trust.

Publication . Report . 2019
Fossil CO2 and GHG emissions of all world countries
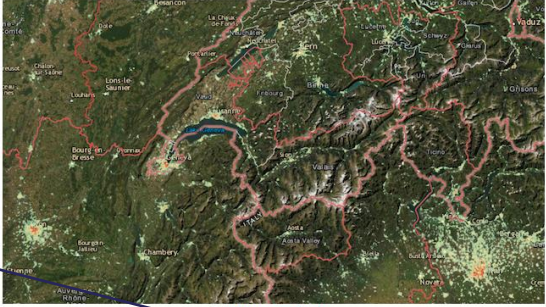
(OPEN ACCESS) (ENGLISH)

Authors: CRIPPA MONICA; VIGNATI ELISABETTA; OREGGIONI GABRIEL; GUIZZARDI DIEGO; MUNTEAN MARILENA; SCHAAF EDWIN; LO VULLO ELEONORA; SOLAZZO EFISIO; MONFORTI-FERRARIO FABIO; OLIVIER JOS;

Publisher: Publications Office of the European Union

JRC.C.5-Air and Climate

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FEATURED DATASETS

- 50 energy datasets selected by a group of experts as «critical».

- One landing page by dataset on the Gateway

- Link to the visualisation tool

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FAIRNESS ISSUES WITH FEATURED DATASETS

A dataset can be well-known and important but not as FAIR as it should be…

In this project, we :

- Reaches out to data provider

- Improves on existing metadata

- Check for consistency

- Provides a common entry point for different datasets

- Add to Zenodo so particular datasets can get a PID

VISUALISATION TOOL

Link to Gateway

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ADVANTAGES OF THE GATEWAY

- Adapting the research graph of OpenAIRE to the energy community
- Can be integrated in a larger system creating a coherent two-layers system

CHALLENGES

- Finding the right keyword to be large enough without loosing useful results

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