

# G-reqs: Towards an In-Situ Data Requirements Model for GEO

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### Learn more here:











https://g-reqs.grumets.cat/











## **Future GEO**

### GEO so far

- Objective: Sorting the EO resources available
- Focus on Remote Sensing
- GEO yellow pages: A catalogue of providers
- GEO portal: A catalogue of existing offerings

## Proposed evolution GEO

- Objective: Responding user needs
- Focus on In-situ data
- Knowing the needs and requirements
   of the Work Plan Activities
- G-Reqs: A Database to record needs and requirements in a formal way













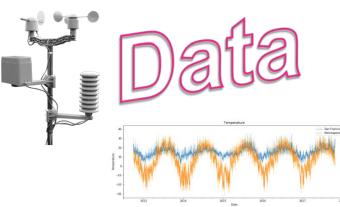
GEO users' needs for in-situ data are diverse

























## Parameterize requirements

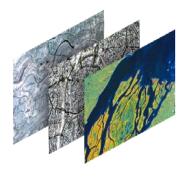


- Topic



Quality





- Area



- Timeliness













## and we call it affectionally...

















# It looks like it, but it is not a survey!

It is an interface to capture in-situ data requirements





Takes only 5 minutes to populate



## Capturing requirer G-Reqs. Model

In order to know about the in-situ data the G-Reqs. database model. The model staresponder into specifying precisely deta of users (e.g. scientists, modellers, compurpose in-situ datasets.

This form is designed to test and consol model, gather the first set of reference reactivities, including inter alia:

- evolve the Copernicus In Situ Compon requirements arising from GEO related a
- support the creation of a database of a cases:
- develop recommendations and best prin-situ data.

Documenting this form would require an

The InCASE project is supported by EEA contribution to GEO and EuroGEO.

This work is at an early stage and the G-

#### Need

A Need refers to a problem or issue that

### A Need could be

- calibration, validation or comparison of
- scientific research question, a decision
- monitoring the evolution of an indicato

This section helps to specify ONE concr situ requirements (in the following sectiuse this form several times

Are you representing a GEO Initiativ Need? (Named EntrustedEntity in th

- GEO Initiative
- Project
- In-situ Data Infrastructure Provide
- Organisation
- Other:

Provide the name of the organization

Your answer

### Requirement 1

A Requirement is a concrete technical description of the properties of a potential in-situ dataset that will fulfil the Need.

Please, focus on the requirements of a single potential in-situ dataset.

\* Due to limitations on Google Forms, this section is designed for describing a single requirement. If the Need has generated more than one requirement, more Requirement sections will follow for you to populate.

Considering the Need expressed, can you provide a short name for the in-situ data requirement? (e.g. Water Flow in Greece)

Your answer

Provide a short description that will help in better understand the in-situ data requirements?

Your answer

What are the essential variables, if any, related to the in-situ data requirement?













## Help us by capturing requirements!



Are you a in-situ data user?

- G-reqs corner next to the registration desk.
- We can help you to formulate your requirements
- We have an small gift for you













## **Questions and reports**

- Once we have gathered enough reqs. we will be able to formulate questions such as:
  - What in-situ dataset is required from more GEO work plan activities
  - What GEO work plan activity has more unfulfilled requirements
  - How many GEO work plan activities has unfulfilled requirements
  - What SBA could benefit more for a new in-situ dataset
  - What is the distribution/proportion of in-situ reqs. by need type (Remote sensing Cal/Val|Scientific question|Commercial product|Decision making|Policy monitoring)
  - · What is the distribution/proportion of in-situ reqs. by Essential Variable

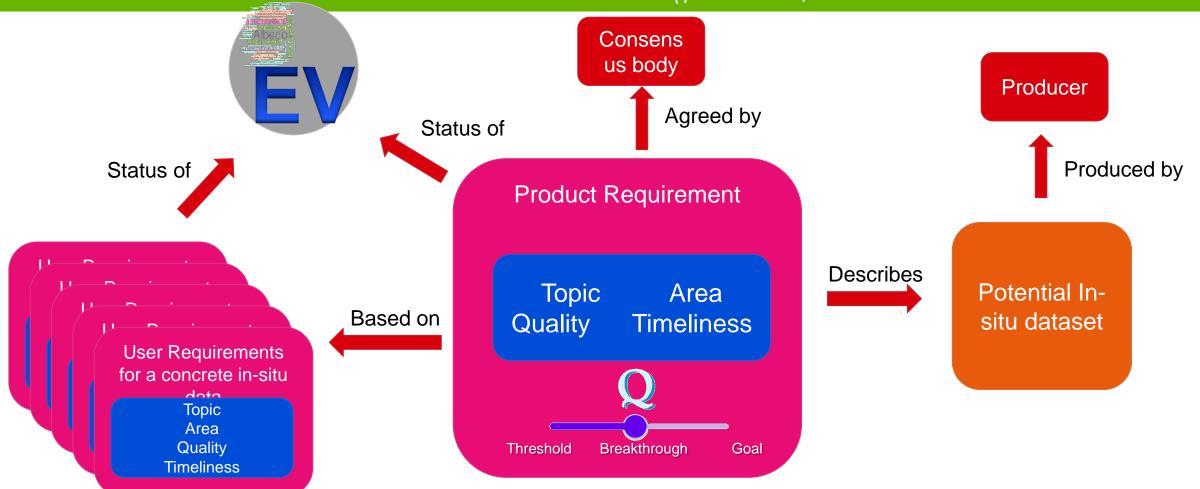












## To product requirements













G-reqs evolution, usefulness and conclusions

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Collect	Share	Analyse	Detect	Recommend
G-reqs allows capturing requirements in a systematic and standardized way. Through a user-driven approach, it facilitates the definition of users' needs and its translation into parameterized requirements.	G-reqs is designed to be an open and accessible database for all by following FAIR and GEO data management principles.	G-reqs includes a predefined set of reports to <b>analyse</b> and statistically <b>summarize</b> the content of the database.	G-reqs reports can be used to detect potential in-situ usages and gaps that could constitute new opportunities for further Earth Observation monitoring.	G-reqs consensus process can result in agreement on recommendations to data that cover emerging needs of the Earth Observation users community.













## Thanks.



BTW: Help us by capturing requirements!

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