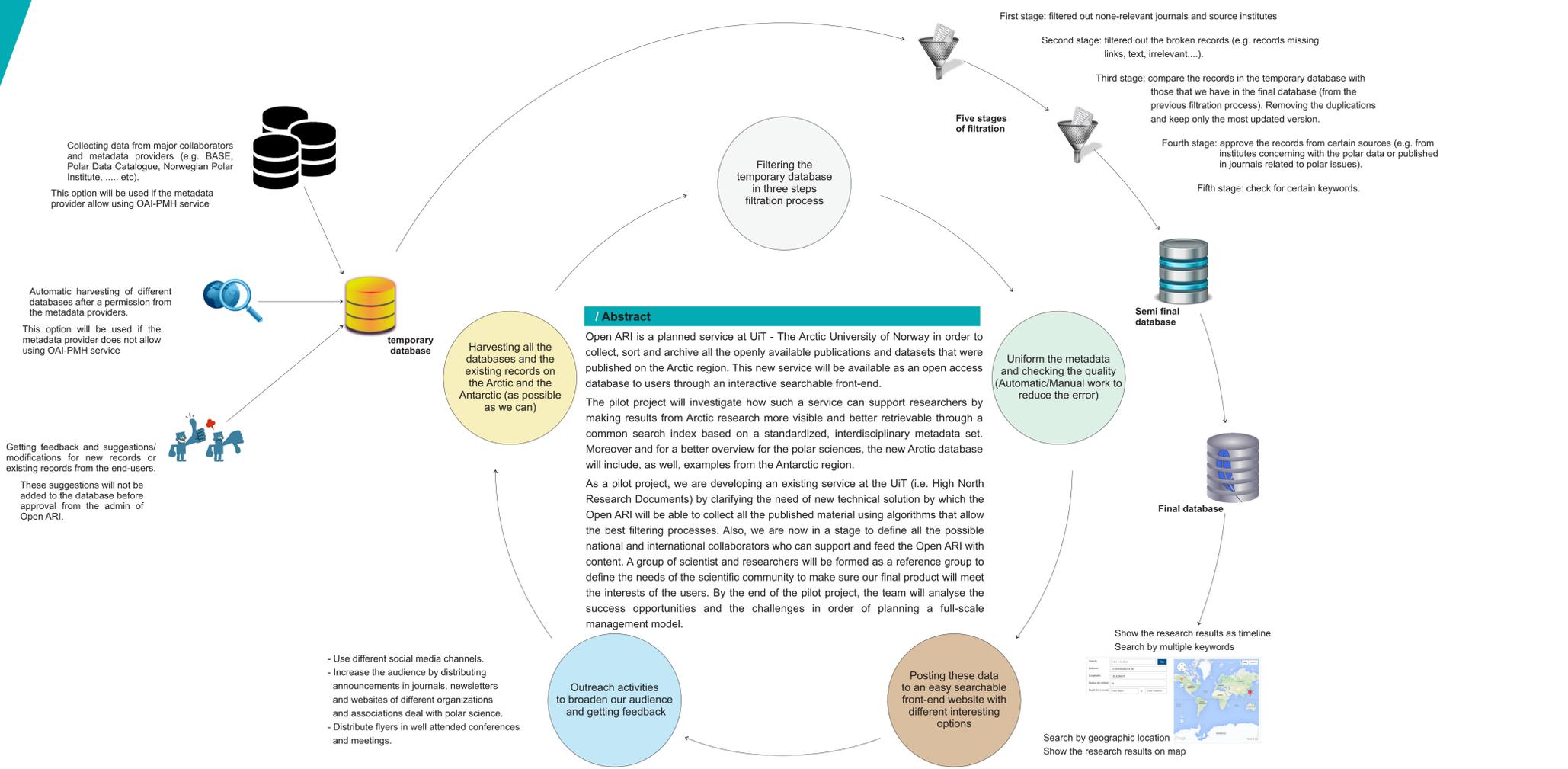


Open Arctic Research Index (Open ARI): A new horizon in Archiving and collecting Arctic datasets

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Classification of metadata providers

The Metadata providers can be classified into three categories based on their relation with Bielefeld Academic Search Engine (BASE) which is our main metadata provider.

- 1- Metadata providers not included in BASE
- 2- Metadata providers included in BASE
- 3- Metadata providers included (partially - as publisher) in BASE. These providers do not give access to all their catalogs.

To take the OpenARI to the next level - this is not only hosting metadata, but to be a platform to define research gaps and create new forefront knowledge. To do that, we may prepare a web application where scientists can discuss, collaborate and use different databases.

Mapping the needs, solutions toward a better service

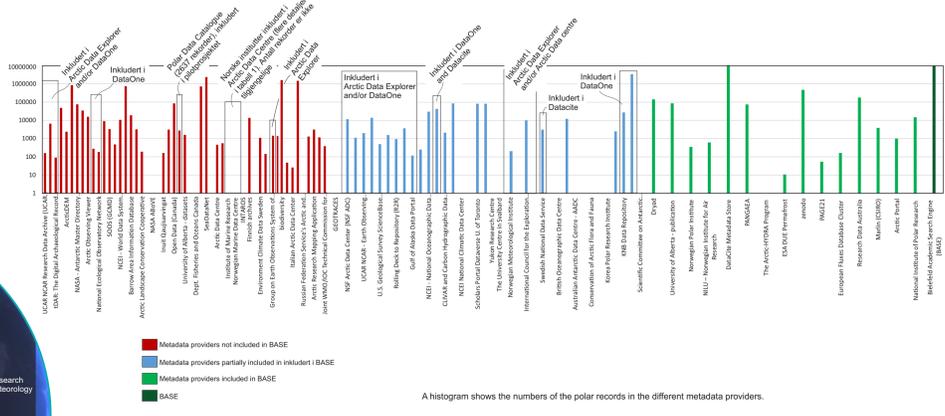
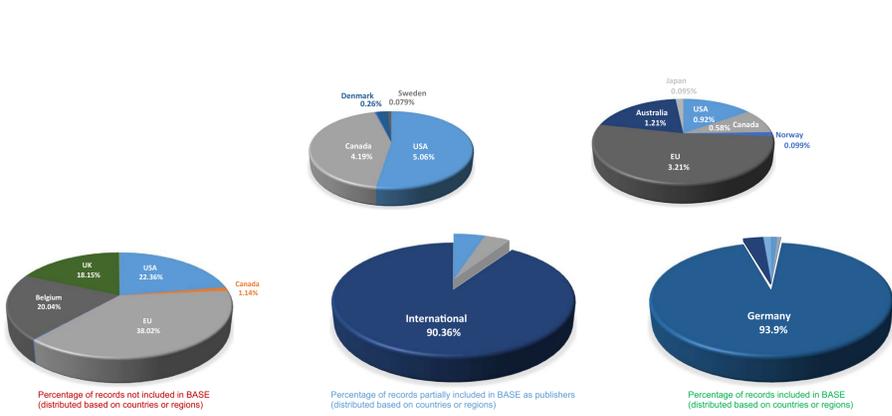
In order to provide the end-users with the best service that will help them in their research and study, we have prioritized twenty requirements that will be included in the OpenARI. These needs can be classified into two categories; a) needs to make the communication between the front-end interface and the back-end database more faster and better performance, and b) needs to make the end-users getting the maximum benefit out of the OpenARI.

Some of these requirements are:

- Add locations value for each record (e.g. Latitudes and longitudes).
- Search using a map.
- Enable showing the results on a map.
- Enable showing the results as a timeline.
- Using an open source user-interface to be sure of keeping the user interface up-to-date.
- Multi-languages user-interface .
- Give the end-users the ability to comment and share different records through different social media channels.
- Give the end-users the ability to upload their original data (i.e. data + metadata). This service can be offered to researchers who do not have the facilities to keep their data online and available to the scientific community. Also, this service can be offered to researchers from UiT and other partners.
- Increase the number of the records in the database by adding more metadata from other metadata providers.
- Better and faster filtration processes of the records.
- Use autocomplete search words algorithm.

Mapping the potential metadata providers

112 metadata providers were mapped according to the previous classification. The following figure shows some of these providers. The statistics show numbers and percentages of the polar records in these metadata providers.



Acknowledgments

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The OpenARI will be the development version of the High North Research Documents, which is an existing service at the UiT.



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