

SIOS collated requirements

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Introduction to SIOS

Requirements gathered

General requirements

General requirements for SIOS

SIOS is building a distributed data management system, which will allow students and scientists access the observing services. Data is made available from each data management system located at different organizations. Data portal is provided, allowing users to access observation streams from different organization. Each organization manages own data. In future, users will be able to access integrated data sets and services.

There are different kinds of users. According to SIOS data management police, use of SIOS data need to be cited. Users need to report back about their publications and results of usages of SIOS data.

There is an overlap between SIOS, ICOS and EMSO. There has been a signed agreement between EMSO and ICOS to share data and coordinate investment in RIs. In the next 3 years, SIOS data management will be implemented which will address the data sharing problem.

SIOS data system is under development. For time being, data is owned by different organizations. A number of data will be available, e.g., datasets for marine research will be relevant for EMSO, there are also dataset will be relevant to INTERACT and ICOS.

SIOS software is not open source at the moment. SIOS may bring computing resource to ENVRplus in later stage. SIOS has an agreement with INTERACT and EMSO for data access program. There are also similar discussions with ICOS and GEM (Greenland Ecological Monetary).

SIOS RI doesn't contain a common publication repository, but each individual organization has.

SIOS communities is very divers, many organisation has their own training activities. Can be for students or scientists. An example: The University Centre in Svalbard (UNIS) has its own high quality training program for new students related to field security, i.e. how to operate safe and in accordance with environmental regulations, for all students and scientists.

Identification and citation

Identification and citation in SIOS

Curation

Curation in SIOS

Cataloguing

Cataloguing in SIOS

Processing

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Optimisation

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Provenance

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Community support

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Summary and conclusions