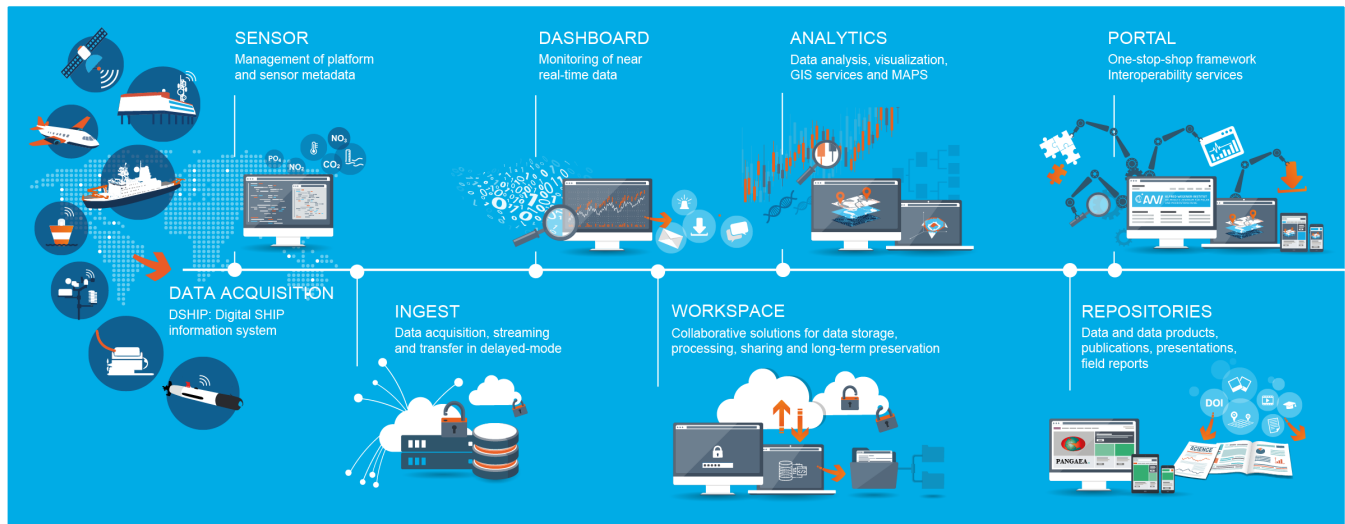# Data management

Scientific data acquired on board RV Polarstern has to be archived with AWI operated information systems. They also have to be made available to the scientific community - eventually after a moratorium - via "Open access". This includes on board acquired data, scientific photographs and documentations as well as later acquired data from samples. See section Scientific Devices for a list of shipboard sensors.

The metadata flow is based on the O2A framework:

Data flow

Metadata of every instrument is registered in SENSOR. Data acquisition is logged with DSHIP ActionLog. Data can be ingested into an onboard storage. Eventually all data shall be published in an appropriate data repository, e.g. PANGAEA.

ⓘ For further information use the following link: Data Storage and Transfer

SENSOR

All scientific devices used on an Polarstern expedition must be registered in the SENSORWeb!!!

Due to limited network connections during the expedition, this has mainly has to be done prior to the respective expedition.

Handles for the versions of the devices in SENSOR can be published with the data in PANGAEA. This requires versions to be saved within SENSOR.

ⓘ For further information use the following link: SENSOR metadata system

DShip

Every operation of a device must be registered in the DShip Action Log.

The devices in SENSOR are synchronized with DSHIP. By registering a usage of a device in the DShip ActionLog a device operation ID is created. Log entries contain information on Date, Time, Longitude, Latitude amongst others. Device Operations are synchronized back to SENSOR.

ⓘ For further information use the following link: DShip-System

---

info(at)pangaea.de may be contacted about archiving and eventual publication within the information system PANGAEA (*), which is also connected to the World Data Center for Marine Environmental Sciences (WDC-MARE).

o2a-support(at)awi.de may be contacted about the ingest procedure of data from the central mass storage to PANGAEA.

---

* only with internet connection