Research Data Management

GEOMAR

WHY OPEN DATA ?

ADVANTAGES FOR THE <u>RESEARCHERS</u>:
- ➤ Making data treasures visible and accessible
  - ➔ generating new science with the same data
- ➤ Compliance to good scientific practice
- ➤ Adhere to requirements of funders or publishers
- ➤ Enhanced publications are cited more often

ADVANTAGES FOR <u>GEOMAR</u>:
- ➤ Knowledge management
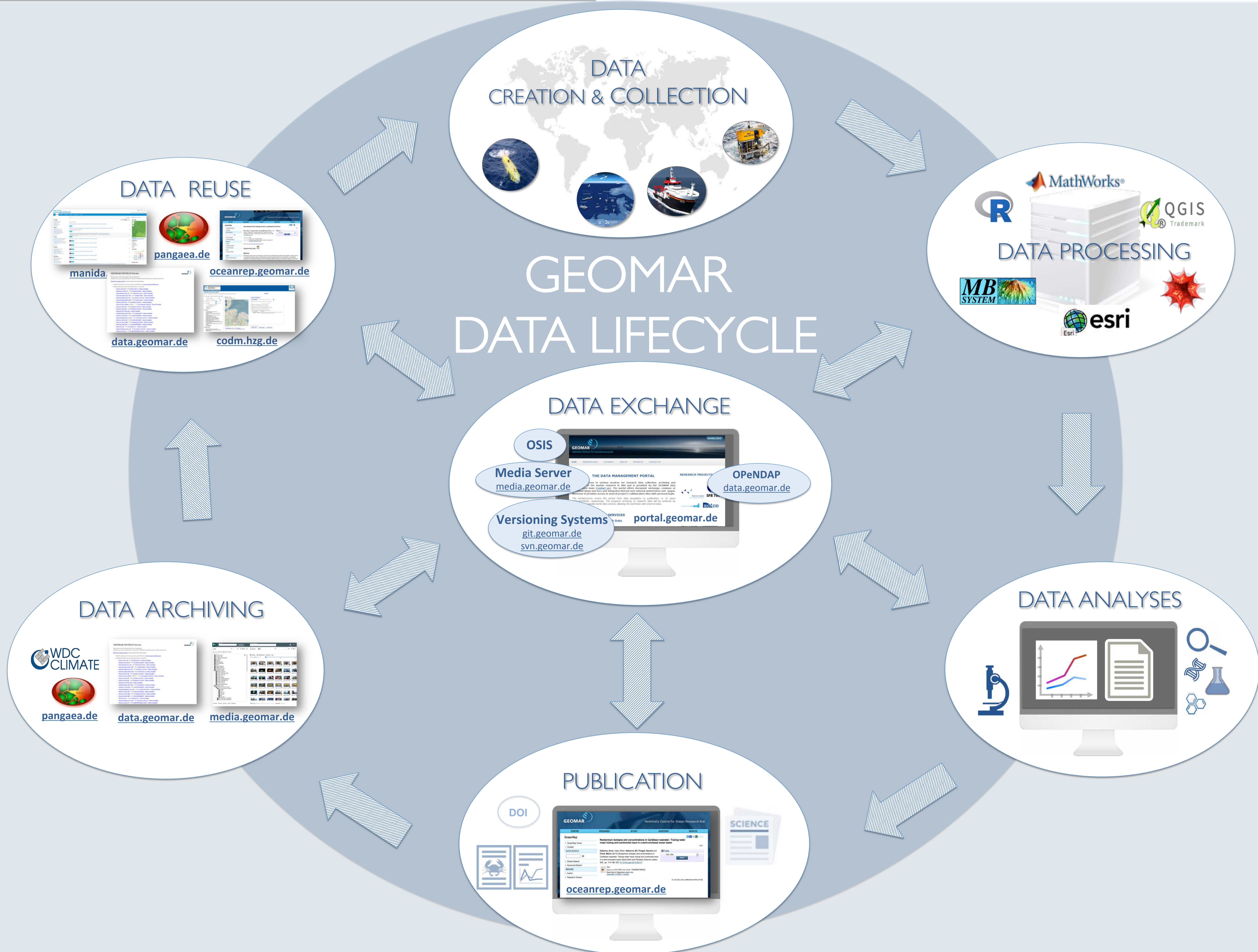- ➤ Showcase of scientific activities and projects

RESEARCH DATA

Data management as a service facility helps scientists to meet defined policies/guidelines for publication of research data and to gain added value from a centrally maintained infrastructure. Research data is never just „handed over" to the data management and thus isolated from research operations. Rather, data management shall be a continuing, integral part of research data processing. The availability of research data must be independent of the duration of the project in which they were acquired and of the physical presence of the author responsible for the data acquisition. Data and metadata must be self-explanatory and permanently usable via central data services.

In general terms, research data should be made FAIR:

Findable   Accessible   Interoperable   Reusable

As an outstanding research institute of ocean research, GEOMAR aims to fulfil the recommendations of the Helmholtz Association and third-party funding agencies to make the obtained data sustainably available for the scientific community.

GEOMAR DATA LIFECYCLE

DATA CREATION & COLLECTION

DATA REUSE
pangaea.de   oceanrep.geomar.de
manida.
data.geomar.de   codm.hzg.de

DATA PROCESSING
MathWorks   QGIS   R   MB SYSTEM   esri

DATA EXCHANGE
OSIS
Media Server media.geomar.de   OPeNDAP data.geomar.de
Versioning Systems git.geomar.de svn.geomar.de   portal.geomar.de

DATA ARCHIVING
WDC CLIMATE
pangaea.de   data.geomar.de   media.geomar.de

DATA ANALYSES

PUBLICATION
DOI   SCIENCE
oceanrep.geomar.de

DATA MANAGEMENT TEAM

The GEOMAR Data Management Team supports researchers and their projects from **data description** through **data exchange to data storage, publication** and **data archiving.** One of the essential data management experiences is the **on-site personal contact** and **training of researchers** during the entire data lifecycle. Visit portal.geomar.de to read and learn more…

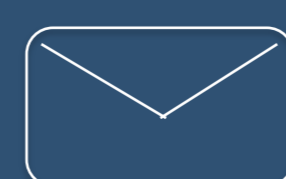## CONTACT THE DATA MANAGEMENT TEAM AND ASK FOR:

- ➤ DATA SERVICES (Portal, OSIS, Version Control, Media, PostgreSQL...)
- ➤ DATA MANAGEMENT TRAININGS & WORKSHOPS
- ➤ DATA REPOSITORIES & CURATION (PANGAEA...)
- ➤ TEMPLATES, PROPOSALS FOR SHIP TIME & TUTORIALS
- ➤ DATA MANAGEMENT PLANS, TOOLS & SCRIPTS

CONTACT

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