Ocean DATa Information and Services for Easier Access to Data and Analytical Services
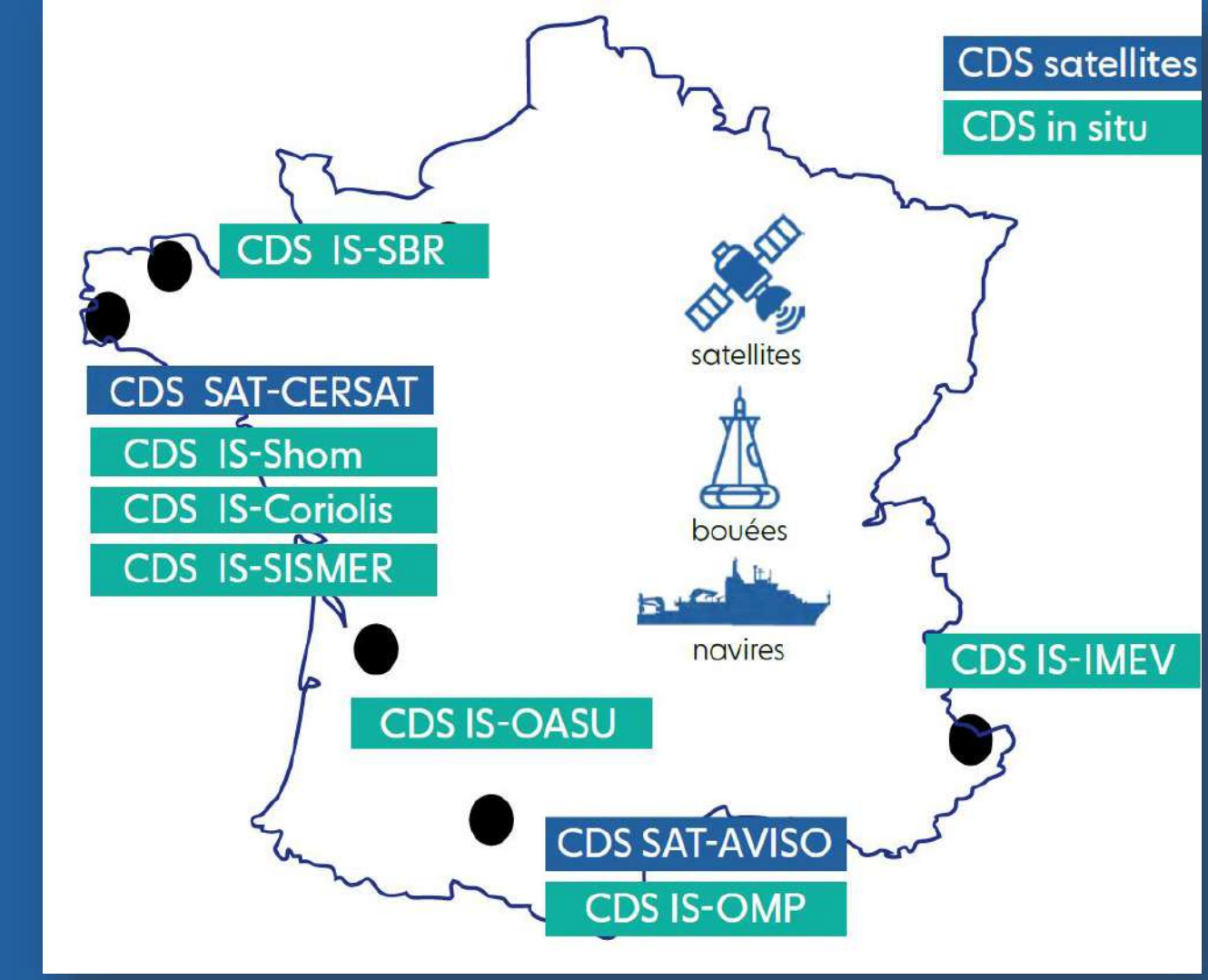
DATA TERRA

ODATIS

The ODATIS ocean data and services cluster is a component of the **Data Terra Research Infrastructure**, alongside 3 other clusters : **AERIS** for the Atmosphere, **FORM@TER** for the Solid Earth and **THEIA** for Land Surfaces.
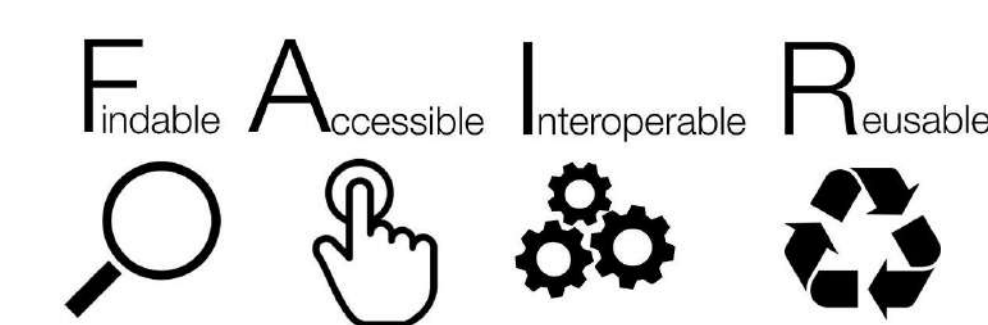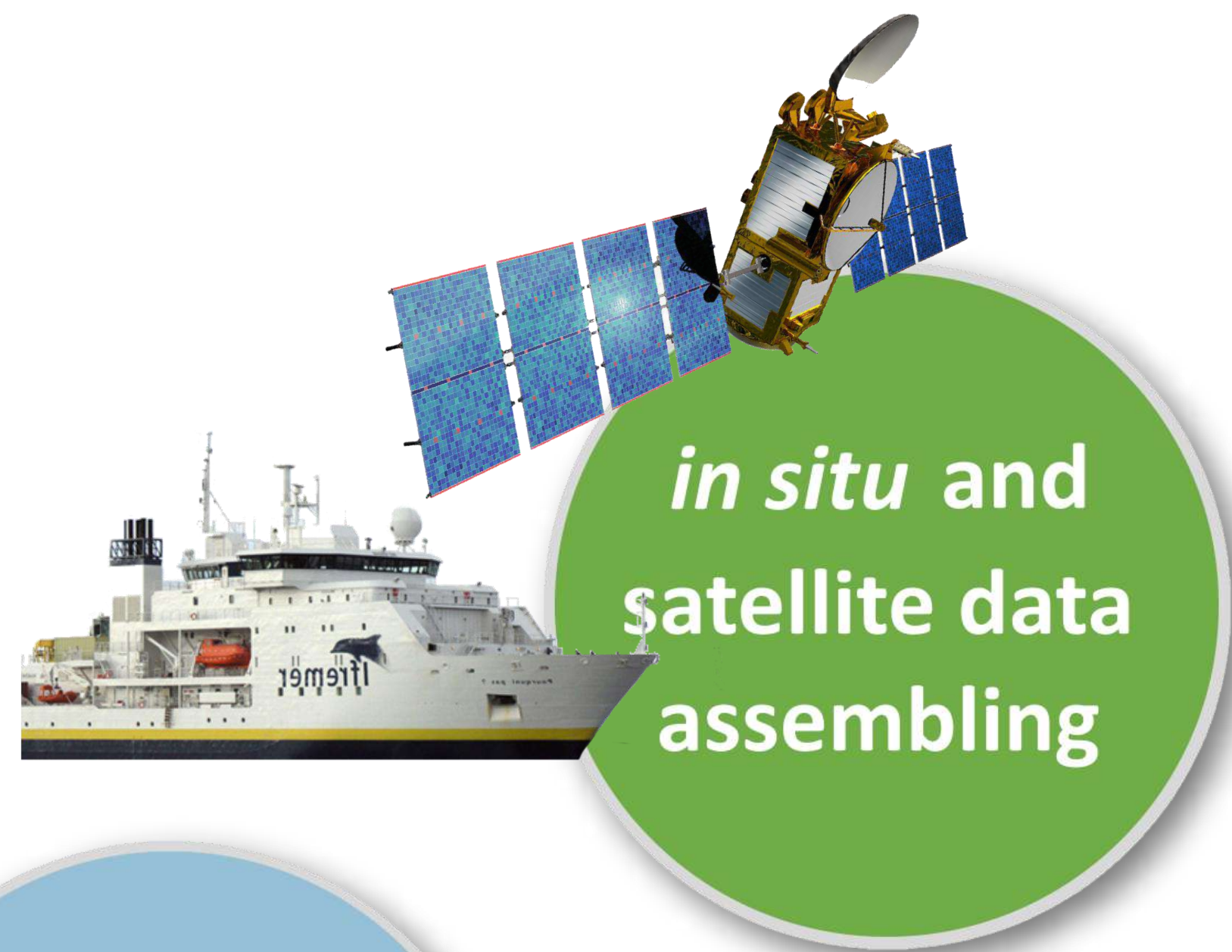
The main task of the ODATIS Ocean Cluster is to facilitate/promote the discovery and use of data, to develop derived products, to make available software, tools and services.

ODATIS is based on a network of distributed **9 Data and Services Centres** operated by french research organizations: CNRS, CNES, Ifremer, IRD, Shom, Marine Universities.
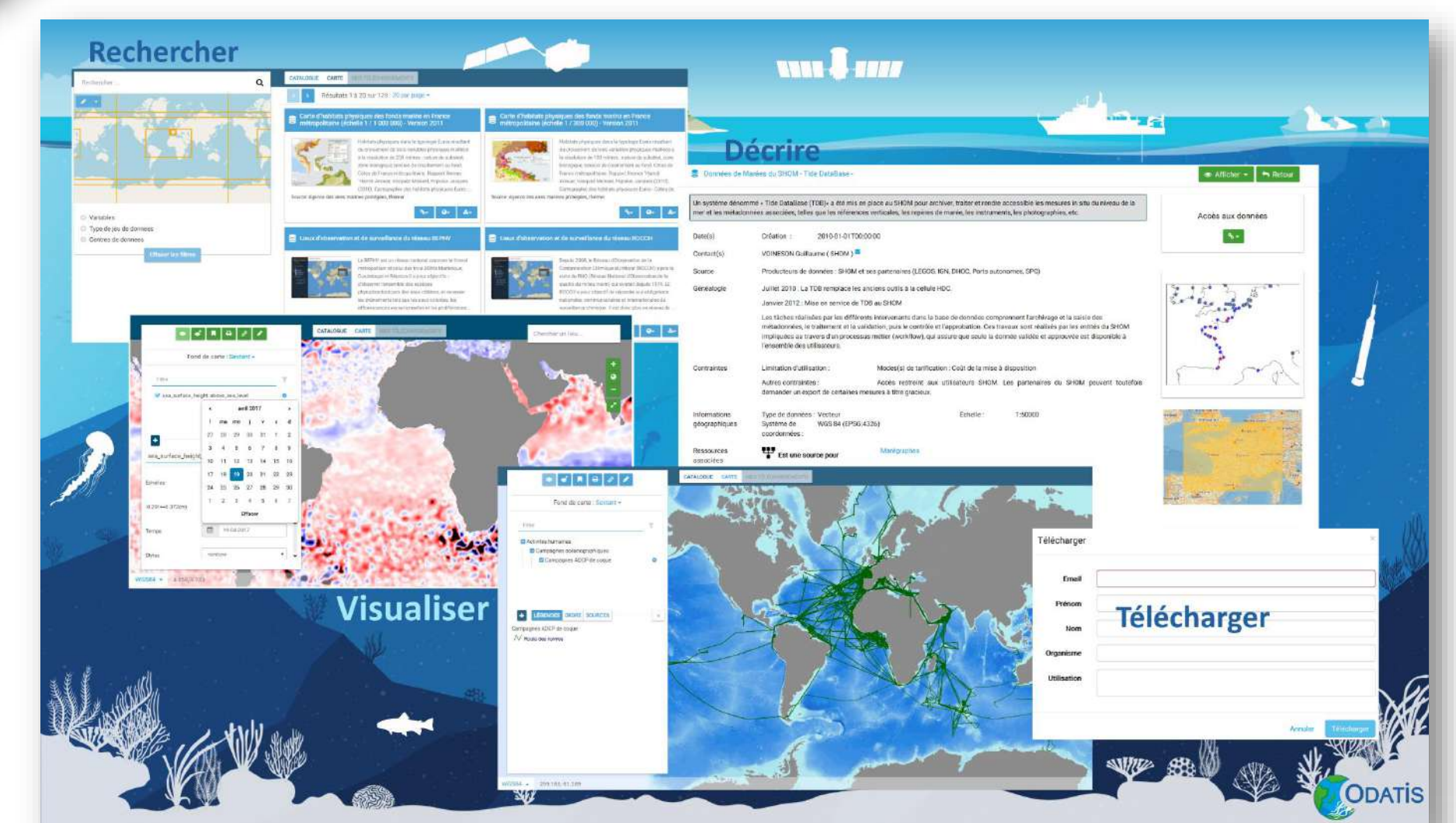
The Data and Service Centres offer the guarantee of services on data management : record data, process data, control data quality, and provide routine access to marine data.

CDS satellites
CDS in situ
CDS IS-SBR
CDS SAT-CERSAT
CDS IS-Shom
CDS IS-Coriolis
CDS IS-SISMER
satellites
bouées
navires
CDS IS-IMEV
CDS IS-OASU
CDS SAT-AVISO
CDS IS-OMP

Analyze and process large volumes of data remotely (**HPC**), access to **Virtual Research Environments** (VRE).
Technical workshops offer hands-on experience with several data manipulation, processing and visualization software.

in situ and satellite data assembling

Services

Data management

DATA TERRA

ODATIS

CORE TRUST SEAL
Findable **A**ccessible **I**nteroperable **R**eusable
Open Science

The **Data and Services Centers** of the ODATIS Ocean cluster manage and provide multi-sensor datasets, over **long homogeneous** time series, by applying **FAIR principles** offering guaranteed data management services in terms of referencing, hosting, dissemination and interoperability.

Scientific expertise

Promotion and support for data usage

Rechercher
Décrire
Visualiser
Télécharger

The ODATIS Ocean cluster relies on **Scientific Expertise Consortia** to promote and develop processing methods and innovative products for satellite, airborne and *in situ* observations of the ocean and its interfaces. These Consortia network and federate scientific and technical experts around a topic : pH/CO2, O2, Ocean color, flow cytometry…

The ODATIS **data and products catalog** provides access to 200 metadata sheets to access data sets provided by the national community and their links with international programs.
- search with selection filters,
- description of the data,
- visualization capable of overlaying several datasets,
- direct download or via the local partner portal

Examples

Mean Sea Level rise

Salinity

EUREC4A Glider Kraken dives

Temperature Marine Heatwaves

Phytoplankton blooming Turbidity Suspended matters

Sea ice extent and thickness

Phytoplankton

Coastline dynamic

Deoxygenation

Acidification

Zooplankton

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CNRS cnes Ifremer IRD SHOM UNIVERSITÉS MARINES