

GILBERT MAUDIRE

IFREMER, BRITTANY CENTRE

DEPUTY DIRECTOR OF THE INFRASTRUCTURE DEPARTMENT



Welcome in Western Britany!

- > The « Blue Economy »: a key point for this territory!
 - more than 40000 jobs linked to the sea
 - Navy, Shipping, Shipyards, Fishery, Aquaculture, Marine energies, Tourism, Yachting ...
 - o in a sustainable way!
- The Ocean : a day-to-day environment for many people
 - education, preservation, risks, health, recreational activities...



Marine Sciences and technologies

- 24 Research Units
 - oceanography, geophysics, ecosystems, biodiversity, data sciences, spatial planning, economy, laws...
- 750 researchers
- 200 doctoral students
- Institutions and Universities
 - CNRS, Ifremer, IRD, SHOM, Museum, AFB...
 - UBO/IUEM, Sorbonne University, IMTA, ENSTA...
- > 80 infrastructures and scientific platforms :
 - Observation systems, offshore experimentation, controlled environment experimentation (wind and waves...), computing facilities, ...
 (5 with a national label)
- more than 30 innovative SME's:
 - instrumentation, models, data processing...



Ifremer

Exploring, understanding and predicting the ocean







run and operated by the French Oceanographic Fleet

Research areas



Marine and Digital Infrastructures



Biological Resources and Environment



Oceanography and Ecosystem Dynamics



Physical Resources and Deep-Sea Ecosystems

also acting for several international observation infrastructures : ARGO, EMSO, JERICO...



SISMER

Data management at Ifremer

> Team

- 55 staff (38 permanent positions)
- o data managers, software developers, computer engineers
- with strong links with scientists and observatory PI's

Computing facilities

- A HPC cluster (12000 cores) for data processing and modelling
- 15 PetaBytes storage (inc. 5PB per year)

Managed data

- oceanography, geophysics, coastal and deep ecosystems, fishery
- satellite and in-situ datasets
- From the coast to the deep se

Quality

- Certified ISO 9001
- Accredited NODC by IODE-XXIV
- Ongoing RDA-ICSU certification
 « Core Trust Seal »





A strong ambition: develop cooperation

- Ocean too large and to expensive to be observed alone!
- Sharing marine data is a necessity
- Aggregating marine data sets of reference for Europe
 - Global and regional scales
 - Climate change and evolving ecosystems
- An evolving context for research data management
 - Application of the FAIR Principles
 - European Open Science Cloud (EOSC) & associated projects
 - Research Data Alliance

That's why SeaDataNet & SeaDataCloud are so important!

- To establish the guidelines and the services ourselves
- To better fit with the community needs : Pl's, data managers, data users
- o In close relationships with Copernicus Marine Services and EMODnet

We will find solutions to continue after SeaDataCloud!

