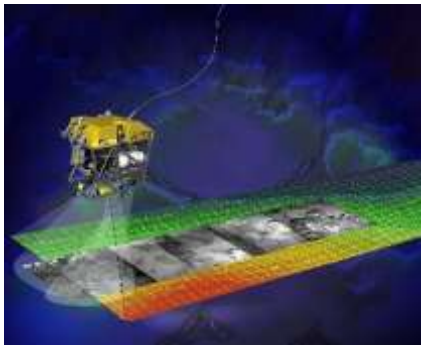
Flotte océanographique française

French Oceanographic Fleet
New organisation since January 2018

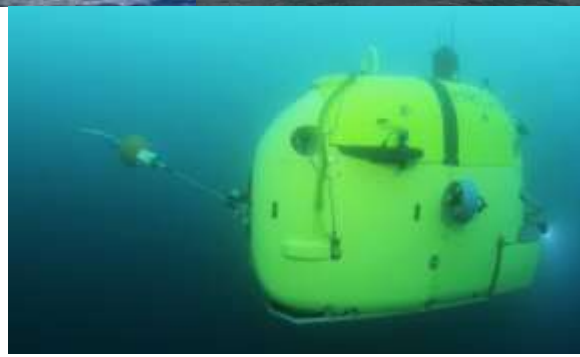


Olivier Lefort – IRSO 2018

4 Global and ocean vessels

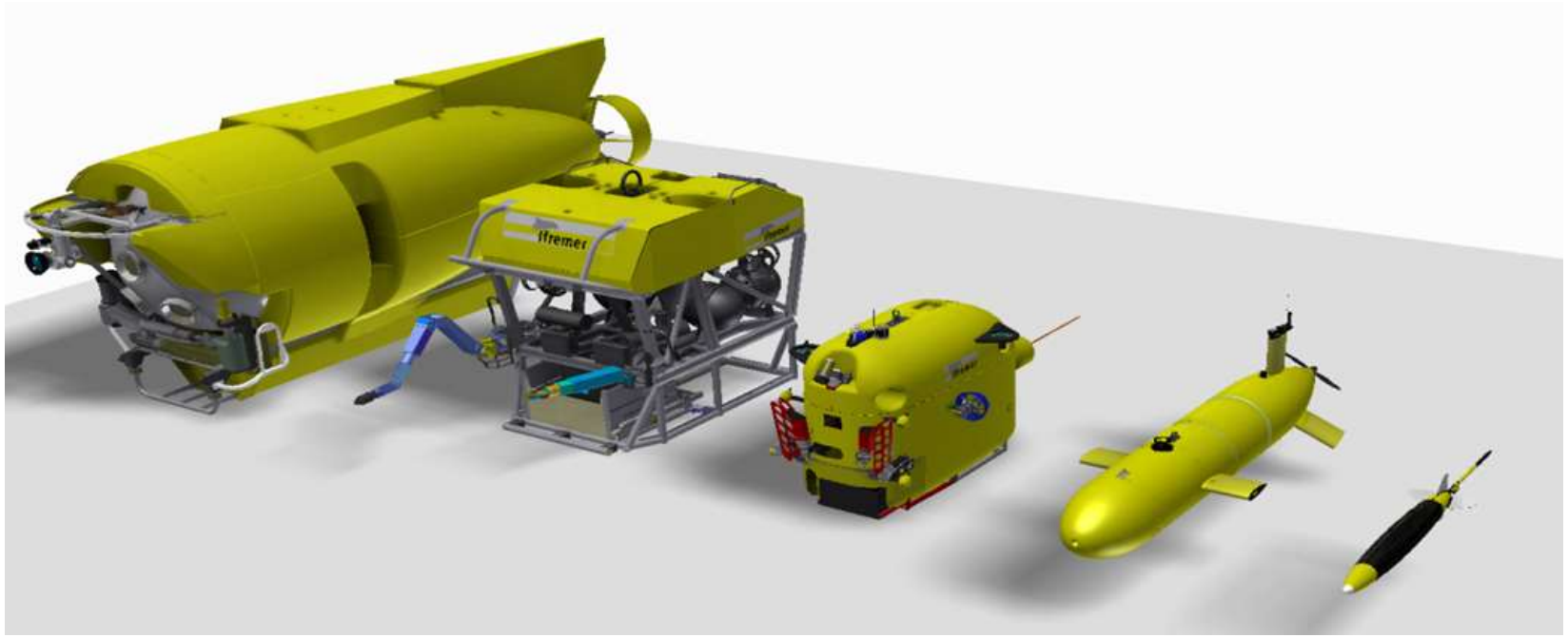
Flotte océanographique française

The metropolitan and overseas coastal fleet



Six local vessels

Underwater systems and submarines



- A Large Scale Infrastructure which serves a national community of about 3,600 scientists, researchers and engineers from research organizations or universities.

- 250 rank A publications and 1,000 publications, excluding rank articles A.

- An average annual consolidated budget (investment and operation) of approximately € 72 million.

- A total of more than 500 people, which by its diversity of expertise: marine sailors and officers, operators of systems, technological development teams, is able not only to operate the vessels and equipment, but also have a significant lead over innovative segments such as deep sediment coring or submarine systems.

- At the national level, partnerships with the Navy and the Hydrographic department (Pourquoi pas ? Beautemps-Beaupré), as well as TAAF (Marion-Dufresne).

Since January 2018

- Till 2017, the fleet was managed by 4 Institutes : Ifremer, the National Center for Scientific Research (CNRS), IRD which operate in the southern countries and in the french overseas territories, and the French Polar Institute (IPEV).

- In January 2018, Ifremer became the only institutional operator of the French Oceanographic Fleet :
  - Ifremer owns most of the vessels or charter the other ones (Marion Dufresne, Alis and Antéa),
  - The budget for the operation of the fleet is totally transferred to Ifremer (72 M€/Year),
  - Ifremer assumes the scheduling of the Fleet in respect of specifications for the use of the fleet, and the per review evaluations
  - Ifremer is in charge of the development of the fleet and manages the projects of new vessels or equipments

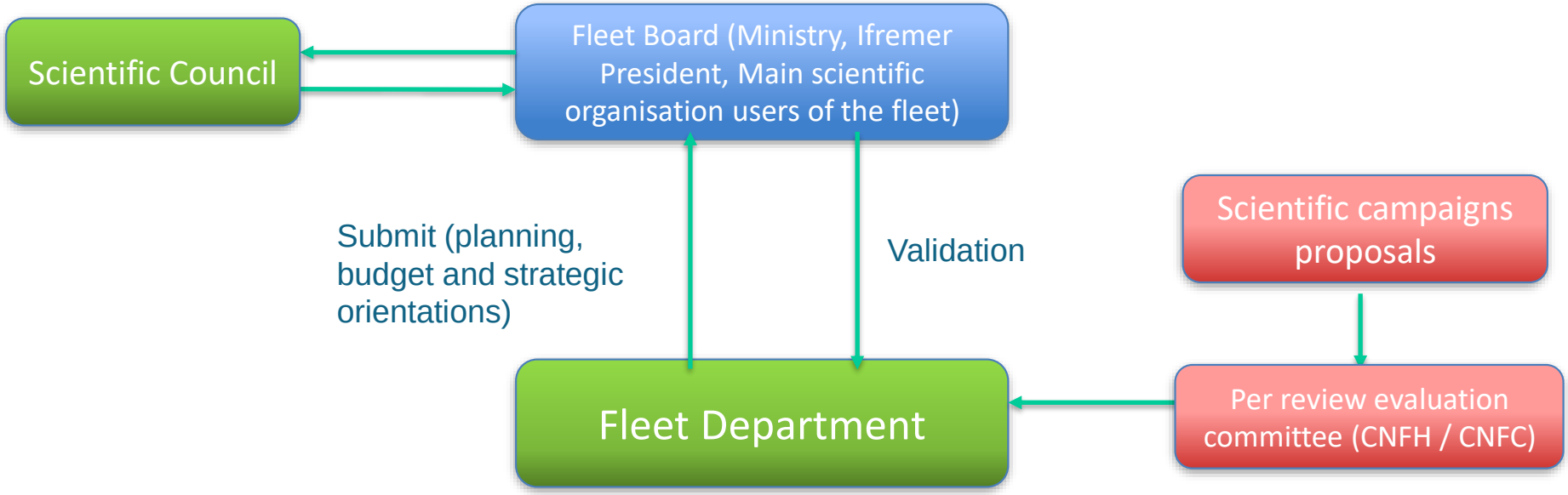
- For this purpose a direction of the fleet has been created which brings together all the forces of the institute

- Genavir, subsidiary of Ifremer, become the ship manager of quite the whole Fleet, except *Marion Dufresne* operated by LDAS, and CNRS coastal and local vessels, still operated by INSU.

	Year	Length (m)	Per review scientific evaluation of the campaigns	Before 2018			After 2018		
				Institutional operator	Ship management	Scientific equipment operation	Institutional operator	Ship management	Scientific equipment operation
Ocean and regional vessels									
Pourquoi pas ?	2005	107	**Global, Ocean and Regional Vessels evaluation Commission**	Ifremer	Genavir	Genavir	Ifremer	Genavir	Genavir
L'Atalante	1989	85		Ifremer	Genavir	Genavir	Ifremer	Genavir	Genavir
Thalassa	1995	74		Ifremer	Genavir	Genavir	Ifremer	Genavir	Genavir
Marion-Dufresne	1995	120		IPEV	LDAS	IPEV	Ifremer	LDAS	Genavir
French overseas territories regional vessels									
Alis	1987	28,5	**Coastal Vessels evaluation Commission**	Ird	Genavir	Genavir	Ifremer	Genavir	Genavir
Antéa	1995	35		Ird	Genavir	Genavir	Ifremer	Genavir	Genavir
Metropolitan coastal vessels									
L'Europe	1993	29,6	**Coastal Vessels evaluation Commission**	Ifremer	Genavir	Genavir	Ifremer	Genavir	Genavir
Thalia	1975	24,5		Ifremer	Genavir	Genavir	Ifremer	Genavir	Genavir
Haliotis	2008	10,3		Ifremer	Genavir	Genavir	Ifremer	Genavir	Genavir
Thetys	1993	24,9		CNRS	CNRS	CNRS	Ifremer	Genavir	Genavir
Côte de la Manche	1997	24,9		CNRS	CNRS	CNRS	Ifremer	Genavir	Genavir
Heavy systems									
Nautile				Ifremer	Genavir	Genavir	Ifremer	Genavir	Genavir
Victor6000				Ifremer	Genavir	Genavir	Ifremer	Genavir	Genavir
AUVs 3000 m				Ifremer	Genavir	Genavir	Ifremer	Genavir	Genavir
HROV Ariane				Ifremer	Genavir	Genavir	Ifremer	Genavir	Genavir
Penfeld				Ifremer	Genavir	Genavir	Ifremer	Genavir	Genavir
Sysif				Ifremer	Genavir	Genavir	Ifremer	Genavir	Genavir
Sismique lourde				Ifremer	Genavir	Genavir	Ifremer	Genavir	Genavir
Sismique rapide ou HR				Ifremer	Genavir	Genavir	Ifremer	Genavir	Genavir
Local vessels									
Antedon II	2004	16,1	**Local evaluation committee**	OSU / CNRS	CNRS	CNRS	OSU / CNRS	CNRS	CNRS
Sepia II	1981	12,6		OSU / CNRS	CNRS	CNRS	OSU / CNRS	CNRS	CNRS
Nereis	2001	14		OSU / CNRS	CNRS	CNRS	OSU / CNRS	CNRS	CNRS
Neomysis	2008	11,9		OSU / CNRS	CNRS	CNRS	OSU / CNRS	CNRS	CNRS
Albert Lucas	2010	11,5		OSU / CNRS	CNRS	CNRS	OSU / CNRS	CNRS	CNRS
Sagitta III	2015	12		OSU / CNRS	CNRS	CNRS	OSU / CNRS	CNRS	CNRS
Planula IV	2005	11,9		OSU / CNRS	CNRS	CNRS	OSU / CNRS	CNRS	CNRS

A new dedicated governance

The fleet is a department of Ifremer and its budget is integrated into the budget of Ifremer, but as a national infrastructure, a specific governance has been put in place.



Oceanographic fleet management

Director : Olivier LEFORT

Deputy Director : Pascal MORIN

Naval Operations Unit

Goulwen PELTIER

Ship and Embedded Systems Unit

Marc NOKIN

Underwater Systems Unit

Jan OPEDERBECKE

The units of the fleet

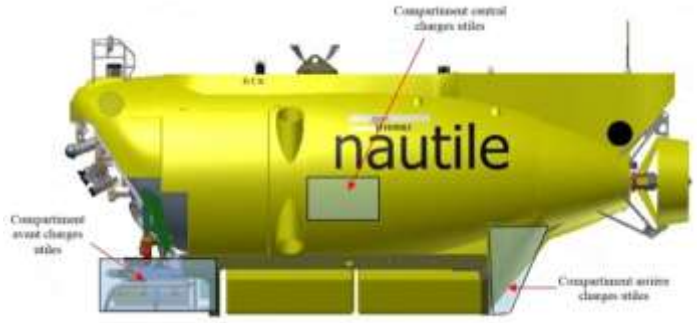
- The **Naval Operations Unit** (**PON**, 8 people, Brest):
  - builds fleet schedule and coordinates operations with both user teams and Genavir.
  - manages the national (Navy and hydrographic department) and European (OFEG) operational partnerships.
  - coordinates the technical construction of charter and commercial cooperation,
  - manages the contractual relationship with Genavir (framework contract) and investments related to maintenance.

- The **Ship and Embedded Systems Unit** (**NSE**, 25 people, Brest) is an engineering unit that:
  - Conducts the preliminary projects and the management of the construction or modernization of the ships;
  - Defines, designs (or acquires), integrates, qualifies, scientific equipment, IT, telecommunication equipment and mobile scientific equipment for ships.

- The **Submarine Systems Unit** (**SM**, 40 people, Toulon) is in charge of the development and monitoring of submarine systems :
  - It conducts projects relating to underwater vehicles and systems, develops engineering tools and interfaces necessary on the sub systems, and deep-sea positioning devices.
  - The unit also has expertise in the engineering of underwater interventions whether for the installation and maintenance of seabed observatories, such as carrying out complex operations.
  - It conducts applied research actions.

Strategical challenges

- The principle of stopping *Nautile* by 2025 has been decided.
  - It should be replaced by a new generation deep ROV, while *Victor6000* will be upgraded.
  - The scheme and financing of this operation must be definitively approved by the end of 2018.
  - Maintenance work was carried out in 2018 on *Nautile* to pass the 4/5 years pending the entry into service of the new ROV,



- A replacement plan for the coastal fleet should be finalizes and validated by beginning 2019