Eurofleets+ Project

Eurofleets+
An alliance of European marine research infrastructure
to meet the evolving needs of the research and industrial communities

Overview of Project Activities

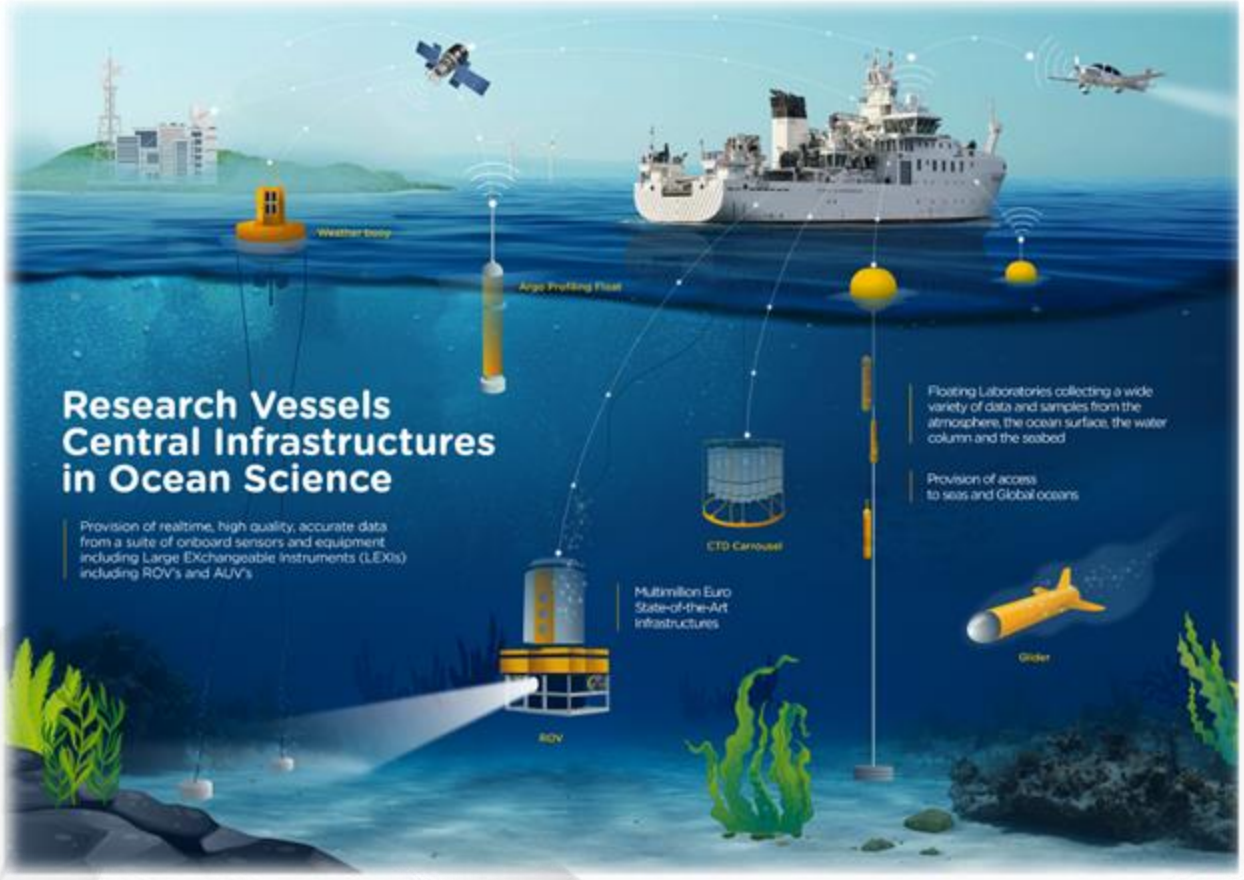
Final Conference, 13th September, 2023

Aodhán Fitzgerald, Project Coordinator

2021 2030 United Nations Decade of Ocean Science for Sustainable Development

Foras na Mara
Marine Institute

RESEARCH VESSELS CENTRAL INFRASTRUCTURES IN OCEAN SCIENCE



Multimillion Euro State-of-the-Art Infrastructures

Provision of access to seas and Global Oceans

Floating Laboratories collecting a wide variety of data and samples from the atmosphere, the ocean surface, the water column and the seabed

Provision of realtime, high quality, accurate data from a suite of onboard sensors and equipment including Large EXchangeable Instruments (LEXIs)

In addition to supporting:

- ✓ Transnational Access to scientists, research and industry
- ✓ Deployment and recovery of mobile ocean observation equipment
- ✓ Service of fixed point platforms and remote sensing tools

EUROPEAN RESEARCH VESSEL FLEET COOPERATION, DEVELOPMENT AND ACTIVITIES 1986 - 2023

1986 International Research Ship Operators

1996 ervo european research vessel operators

2003 European Science Foundation / Marine Board Position Paper 10 European Ocean Research Fleets March 2007 Towards a Common Strategy and Enhanced Use

2009 Eurofleets

2018 Next Generation European Research Vessels Current Status and Foreseeable Evolution

2019 EurofleetsRI

1986 OFEG

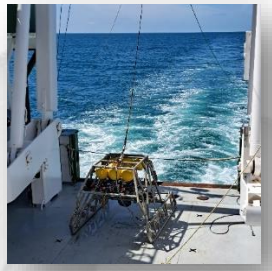
1999 Ocean Research Vessels Working Group

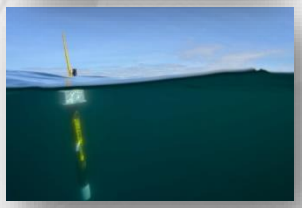
2007 Eurofleets

2013 Arctic Research Icebreaker Cons. ARICE

2019 Eurofleets+

2024





Eurofleets+

- 41 Partners
- Budget of 9.9m €
- Access to:
- 27 Research Vessels,
- 7 ROV's &
- 5 AUV's

Coordinator: Marine Institute
Start Date: 01 February 2019
End Date: 31 October 2023

Areas of Operation:
North Sea, Black Sea, North Atlantic, Mediterranean Sea, Baltic Sea, Pacific Southern Ocean and Ross Sea

Call: Integrating and opening existing national and regional research infrastructures of European **interest (INFRAIA Call H2020 2018)**
Topic: Integrating Activities for Advanced Communities

EUROFLEETS GOALS AND OBJECTIVES 2009 TO 2023

1

Research Vessel Access

- Provide single point access to new more advanced research infrastructures ✓
- Transnational Access inc. e-access ✓
- Open Access to data ✓

2

Education and Training

- Education of the next generation of researchers ✓
- Transfer of knowledge and technology through exchange of staff ✓
- Promote Ocean Literacy ✓

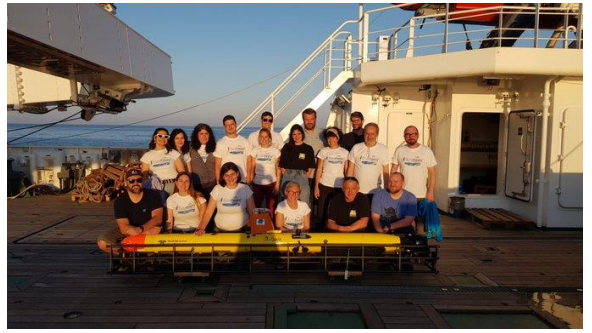
3

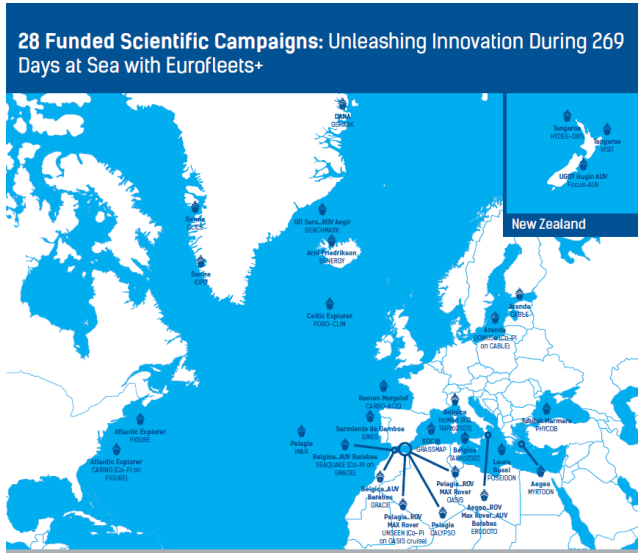
Better coordination of European Research Vessel Fleets

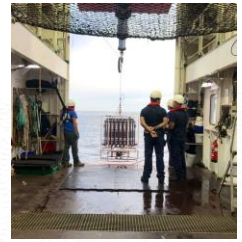
- Development of synergies and complimentary capabilities ✓
- Promoting greener and sustainable research vessel ✓
- Fostered innovation through reinforced partnerships with industry and stakeholders ✓

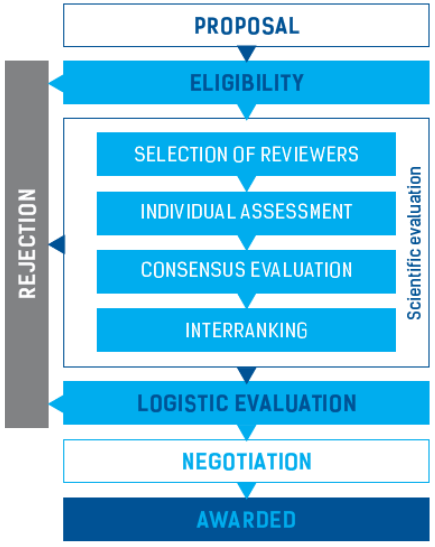
EUROFLEETS TRANSNATIONAL ACCESS

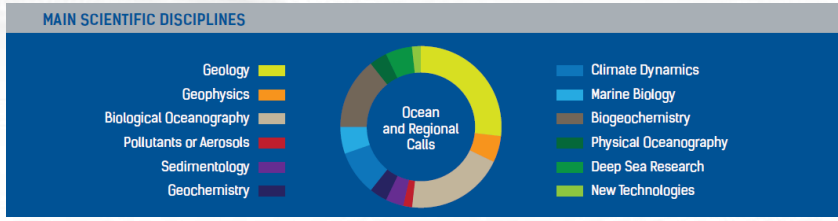
	EurofleetsPlus
Number of calls	4
Proposals submitted	69
No. of granted cruises	28
No. of days at sea (Vessel/Equipment)	268
No. of researchers and students	315











ALFRED-WEGENER-INSTITUT
HELMHOLTZ-ZENTRUM FÜR POLAR- UND MEERESFORSCHUNG

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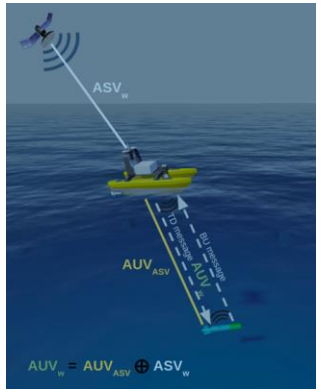
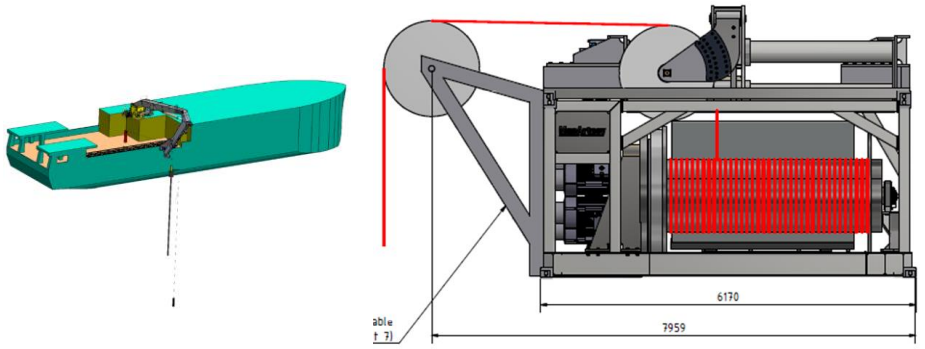
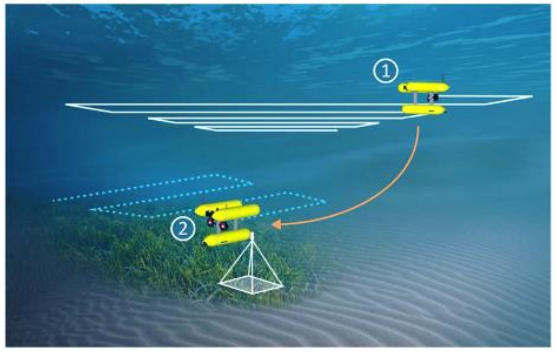
EUROFLEETS JOINT RESEARCH ACTIVITIES

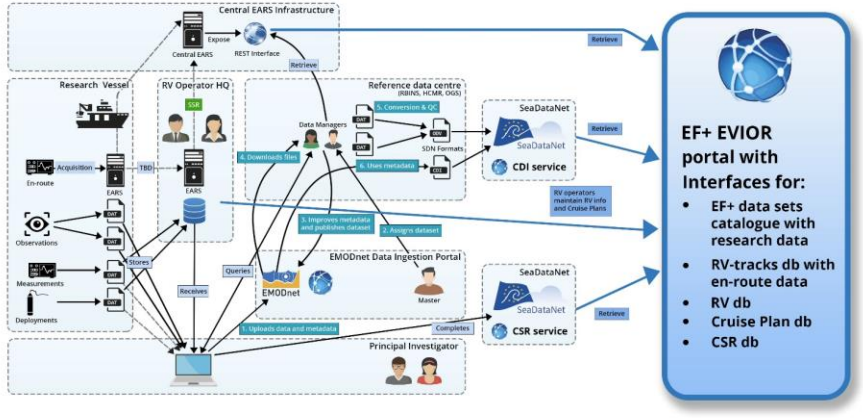


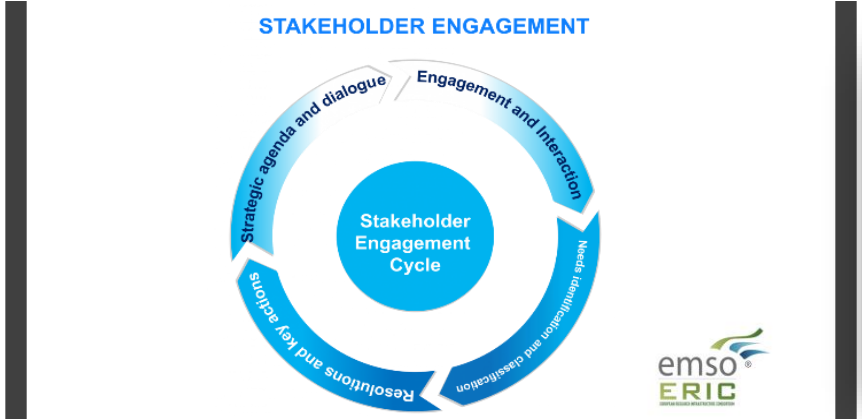


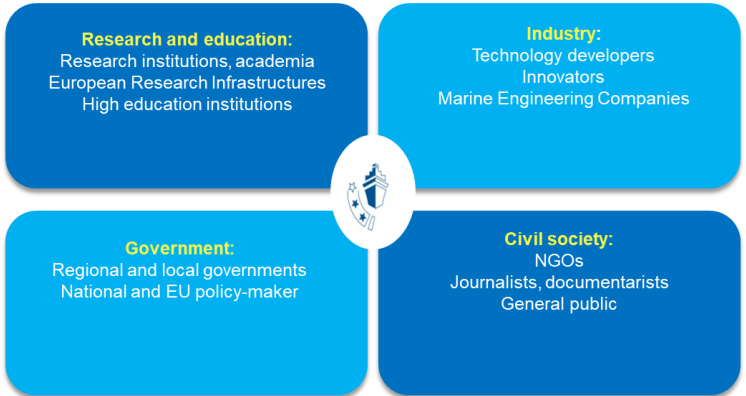


EUROFLEETS+:

- Advancing shipboard data management and data access (EARS) TRL 6-7
- Equipment innovations for deep sea operations from vessels
- Intelligent robot exploration







WP5.Eurofleets+ Stakeholder Engagement

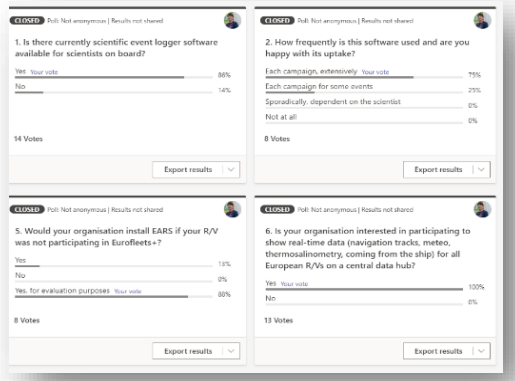
- 2 Stakeholder International workshops
  - 1st workshop (virtual on April 13, 2021) Combining fixed and mobile ocean observing systems and their link with satellite observations
  - 2nd workshop (virtual on September 26, 2022) Synergies with the Atlantic Mapping program linking with AORA, EMODNET bathymetry and Belém statement
- Stakeholder Engagement Questionnaire
- Stakeholder Engagement face to face interviews
- Strategic MOU and partnerships developed with other projects; GROOMII, RITrainPlus, ARICE, CATRIS…

Education Training

OGS

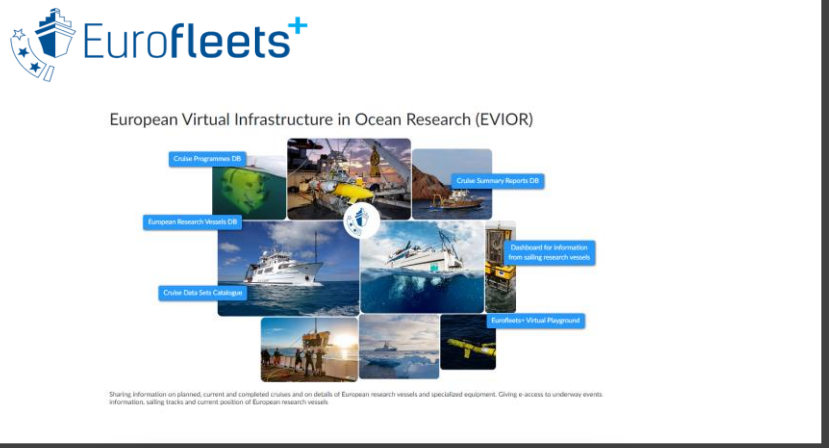
- 5 Floating Universities
- 8 Marine Internships
- 2 Autonomous Underwater Vehicle Labs
- 2 ROV Labs at University of Bremen
- 2 Seismic Labs at
- Ocean Classroom with over 83 resources
- Research Infrastructure Management Workshop
- Ship to Shore educational Broadcasts
- Partnerships with Partnership for Observation of the Global Ocean (POGO) and All-Atlantic Floating University Network

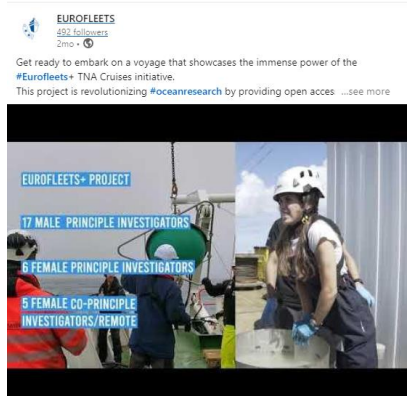
WP7. INNOVATION MANAGEMENT AND EXPLOITATION

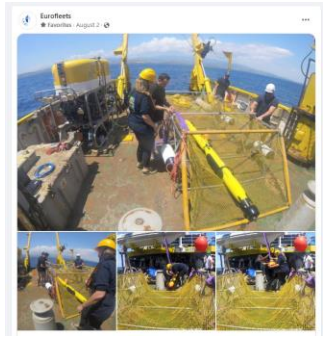


- Exploitation strategy developed
- Developed guidelines and support to user groups and researchers on innovation management and exploitation, for funded transnational Access
- Industry platform within the Eurofleets+ Innovation Committee
- Exploitation roadmap to ensure that commercial and non-commercial results of the project.

museum

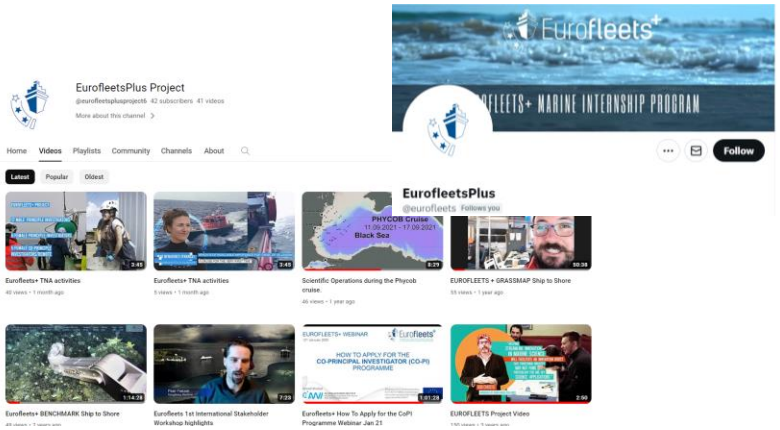






Dissemination Activities

- Website and social media accounts
- Promotion of project activity
- Promotion of scientific data
- Dissemination of funded cruise activity
- Engagement of extended stakeholder groups
- Supporting capacity-building and ocean literacy



TOWARD A LEGAL FRAMEWORKEUROFLEETS RI

EUROFLEETS RI aims at uniting world-class RVs and associated equipment among European partners **to facilitate access to unique marine infrastructure for a wide user community**, **enabling excellent research**, **increased cooperation** in technical development and **sharing of knowledge in RV operations & management**.

EUROFLEETS RI will play a **central role in delivering the European Union Missions by the provision of access to our Seas and Oceans through facilitation of multidisciplinary science teams** tackling changing climate, supporting bio medical research, ocean monitoring, sustainable fisheries and advancing the European Green Deal.

Collaboration in **EUROFLEETS RI** will help **to optimise integration, develop a European approach to address common challenges** through the provision of **single point transnational access to our Seas and Oceans**.

Research Vessel Fleet Development 2019-2022

- Greenland - Tarajoq (61m)
- Faroes - Jákup Sverri (54m)
- Ireland - Tom Crean (52.8m)
- Belgium - Belgica (71m)
- Sweden - Svea (69.5m) & Skagerak (49m)
- Italy - Laura Bassi (80m) (ex Ernest Shackleton) & Gaia Blu (82.9m) (Ex Falkor)
- Norway - Prinsesse Ingrid Alexandra (35m),Geologen (23m) & Beret Paulsdatter (24.6m)
- UK Sir David Attenborough (125m)












Research Vessel Fleet Development 2023 -2030

- Iceland –Bjarni Sæmundsson replacement (70m) 2024.
- Germany –Meteor IV (125M) 2026.
- Netherlands – RV Wim Wolff (36m) 2023 & RV Anna Weber-van Bosse (80M) 2025
- Denmark – RV DANA V (68m)
- Spain –Odon de Buen (84m) 2024
- Germany –Polarstern II (145m) 2027
- France – Regional Vessel (40m) 2025

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THANK YOU

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