Eurofleets⁺

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Communication Package Towards other Infrastructures

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1 Introduction

The Eurofleets+ project offers a number of different opportunities for infrastructures managers by sharing the experience gained through the several EUROFLEETS projects. This deliverable provides access to all the resources that might be of interest to infrastructures managers involved in Transnational Access, Training, R&D and Networking.

This deliverable includes:

a) Access Guide - How to organise and evaluate Transnational Access Programmes,
b) Exploring The Unknown - Dive into the ways EUROFLEETS+ is advancing on the development of new tools for European research vessels enhancing their capabilities to explore the oceans, manage the data obtained and facilitate access to these data,
c) Connect the Ocean - EUROFLEETS+ initiatives to foster a culture of co-operation between research infrastructures, scientific communities, industries and other stakeholders as appropriate, and to help develop a more efficient and attractive European Research Area.

The booklet format allows it to be printed and distributed in events and conferences, including stakeholder workshops foreseen on WP5. It will also be available online at https://www.eurofleets.eu/stakeholders/.

EUROFLEETS+

COMMUNICATION PACKAGE TOWARDS OTHER INFRASTRUCTURES

www.eurofleets.eu

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EUROFLEETS+ is a H2020 project funded under the Infrastructures initiative, coordinated by the Marine Institute that brings together a significant group of key marine research actors (in particular research vessel operators) in Europe, North America and Oceania – 42 marine institutes, universities, foundations and SMEs from 24 countries.

The EUROFLEETS+ project will facilitate open free of charge access to an integrated and advanced research vessel fleet. In addition to ship time, researchers will also have access to new AUVs and ROVs. and a unique portable telepresence system that will enable remote access by researchers and diverse end users including the public; a first for Europe.

In addition to comprehensive transnational access activities, the project will undertake joint research in challenging and highly relevant areas, including deep ocean research and exploration, data management, and enabling future virtual access. Multiple networking activities will ensure robust Call processes, wide stakeholder engagement, and development of a strategic roadmap and sustainability plan.

To maximise the impact of the project, EUROFLEETS+ will implement diverse training and education activities, strong management of innovation in collaboration with industry, and widespread dissemination and communication actions.

As a Infrastructure manager you may be interested on the following EUROFLEETS+ Iniciatives:

Transnational Access Activities (TA)
Transnational Access [TA] is the core activity of the project, focused on providing transnational access to twenty-seven research vessels, seven remotely Operated Vehicles (ROVs), and five Autonomous Underwater Vehicle (AUVs). Remote access will be facilitated through an advanced Portable Telepresence Unit.

Joint Research Activities (JRA)
EUROFLEETS+ Joint Research Activities [JRA] prioritises three main areas of research to develop new tools for European research vessels that advance their capabilities to explore the oceans, manage the data obtained and facilitate access to these data. JRA1 is focused on advancing shipboard data management systems and data access. JRA2 will investigate and develop equipment innovations for deep sea operations from research vessels. JRA3 focuses on intelligent robot exploration.

Networking Activities
The networking activities will foster a culture of co-operation between research infrastructures, scientific communities, industries and other stakeholders, and ultimately help develop a more efficient and attractive European Research Area. Capture the learning and insights gained from the project and contribute to the foresight activities, including the legacy and roadmap, in order to help increase the likelihood of sustaining the EUROFLEETS+ platform beyond the lifetime of the project.
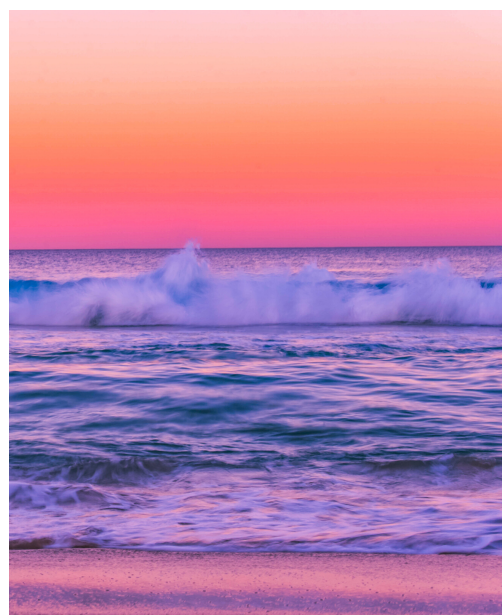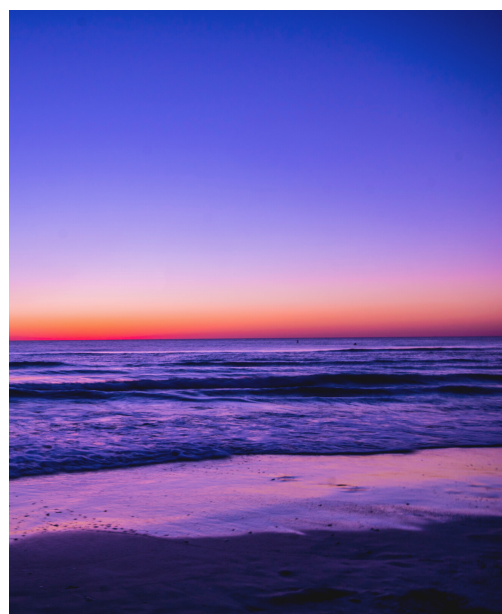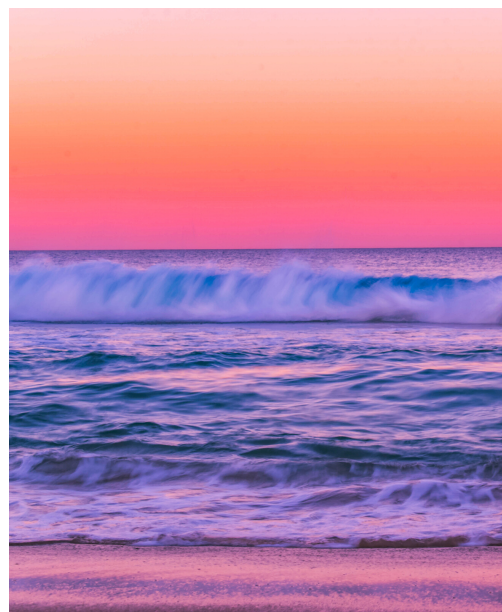
Communication Package Towards other Infrastructures!

Here you can find all the resources that might be of interest to the management of your infrastructure an support you through the experience gained through the several EUROFLEETS projects.

Access Guide - How to organise and evaluate Transnational Access Programmes,

Exploring The Unknown - Dive into the ways EUROFLEETS+ is advancing the development of new tools for European research vessels enhancing their capabilities to explore the oceans, manage the data obtained and facilitate access to these data,

Connect the Ocean - EUROFLEETS+ initiatives to foster a culture of co-operation between research infrastructures, scientific communities, industries and other stakeholders as appropriate, and to help develop a more efficient and attractive European Research Area.

So what are you waiting for? Let's cast off...

ACCESS GUIDE

Access Programmes

The Eurofleets+ project will facilitate open access to an integrated and advanced research vessel fleet, designed to meet the evolving and challenging needs of the user community. European and international researchers from academia and industry will be able to apply for several access programmes, through a single-entry system. Eurofleets+ will prioritise support for research on sustainable, clean and healthy oceans, linking with existing ocean observation infrastructures, and it will support innovation through working closely with industry.

Eurofleets+ Transnational Access at Glance

- **27** Vessels, **7** ROV's & **5** AUV's & Telepresence Unit
- **397** Days Free Access Available
- **250** Days Research Vessel Access
- **133** Days Marine Equipment Access
- **14** Days Telepresence Access
- North Atlantic, Baltic, Black, Mediterranean, Pacific Southern Ocean, North Sea & Ross Sea

ACCESS PROGRAMMES

Three access programmes will be launched in Eurofleets+:

1) Ship-time and Marine Equipment Application (SEA programme) for access to the vessels and marine equipment through a full ship-time application, for which there will be a minimum of two calls, with „ocean" and „regional" vessels.

2) Co-PI programme specifically aimed at early career researchers to implement their own research together with experienced scientists in Eurofleets+ scheduled cruises. The Co-PI programme will be open to applications in a continuous running call.

3) Remote Transnational Access (RTA programme) to provide researchers with remote access to samples or data from a Eurofleets + fleet vessel. RTA programme applications will be submitted in a continuous running call. Remote access will allow smaller projects, sample or data needs, to be addressed, when this can be accomplished with one day of ship time.
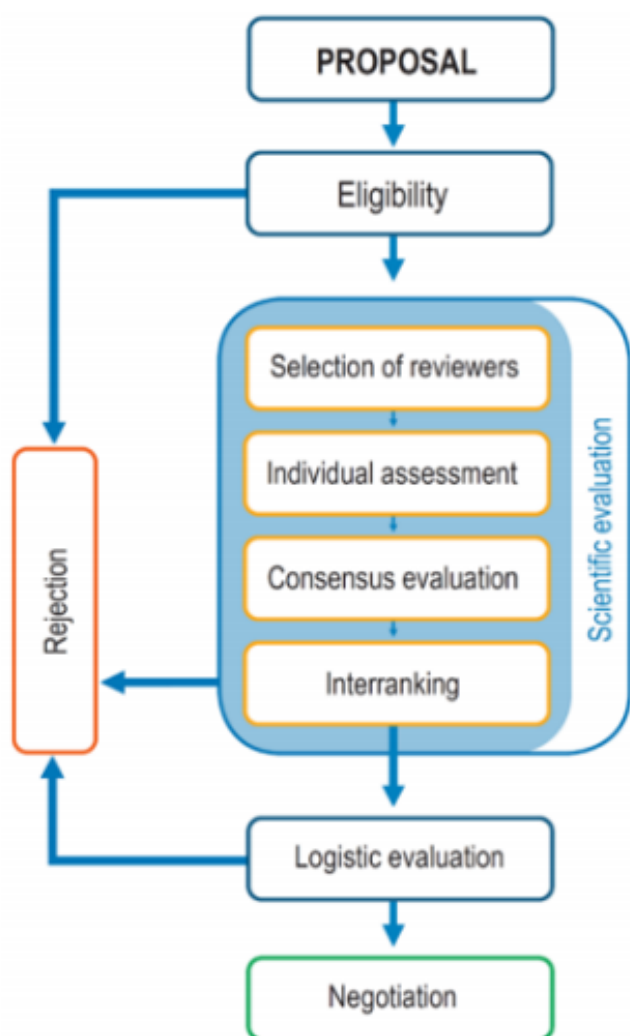
FOR EACH CALL:
- Accessible Infrastructures
- Eligibility Criteria
- Evaluation Criteria
- Call documents and templates
- EurofleetsPlus Data policyContact

Excellent science!

The evaluation system of EUROFLEETS+, in which only scientifically excellent ranked proposals are considered for the logistical evaluation, ensures that only excellent proposals are considered for funding.

Access to any infrastructure in EUROFLEETS+ will be regulated according to the Excellence-driven
Access mode. This mode of access is dependent on the scientific excellence, originality, quality and
technical and ethical feasibility of an application evaluated through peer review conducted by
external experts.

EXPLORING THE UNKNOWN

EUROFLEETS+ Joint Research Activities prioritises areas of research to develop new tools for European research vessels that advance their capabilities to explore the oceans, manage the data obtained and facilitate access to these data.
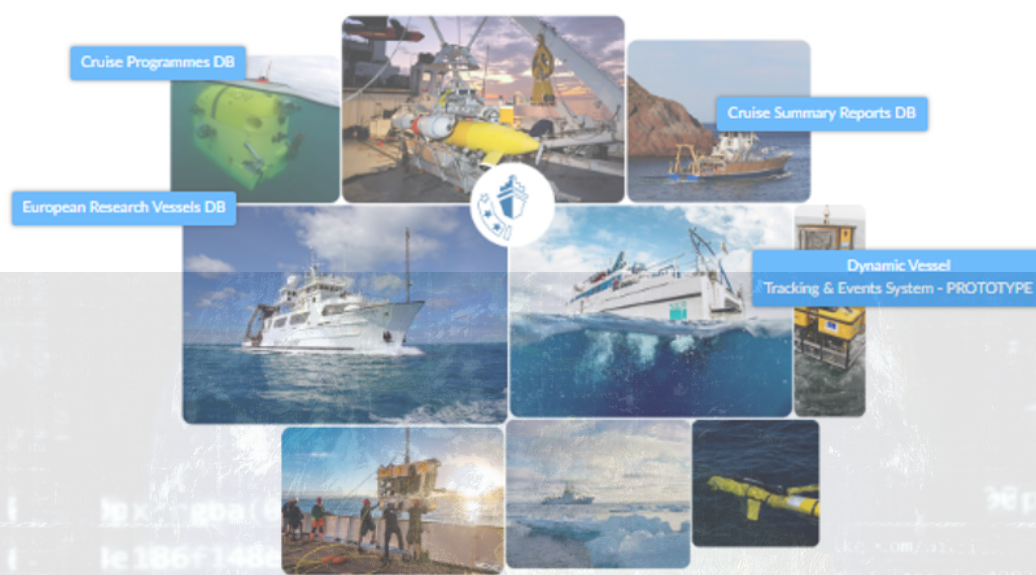
ADVANCING THE DATA MANAGEMENT PROCESSES

Implementation of an active open data management strategy and associated procedures including adoption of SeaDataNet standards ensures the capture, transmission and publishing of information about the cruises, their data collection, and involved researchers, and data collected underway and processed later in time. Publication will take place through the EVIOR portal (European Virtual Infrastructure in Ocean Research – an integral part of the Eurofleets+ website) and the larger community SeaDataNet and EMODnet portals. The shipboard data management system, the (near) real-time transfer to shore, and the EVIOR portal for receiving and publishing metadata and data, will be advanced from their current state.

The advanced version of the shipboard data management system will be successively piloted on board selected research vessels, and after evaluation, configured at a major number of Eurofleets+ research vessels. The functionalities of the EVIOR portal will be reviewed, improved and expanded, including providing researchers with unique cloud computing and analytical technologies for interacting with the research vessel metadata and data.

European Virtual Infrastructure in Ocean Research (EVIOR)

Cruise Programmes DB

Cruise Summary Reports DB

European Research Vessels DB

Dynamic Vessel
Tracking & Events System - PROTOTYPE

Sharing information on planned, current and completed cruises and on details of European research vessels and specialized equipment. Giving e-access to underway events information, sailing tracks and current position of European research vessels

EARS V3

The Eurofleets Automatic Reporting System (EARS) is an "event log software" that enables scientists and operators to record what happens during a survey. In the first two years of the project, the research vessels will be equipped with the ship board system EARS V2 (Eurofleets Automatic Reporting System), developed in predecessor Eurofleets projects. It consists of four major components

- EARS
- Data Acquisition System
- En-route Ship Summary Report
- Web Services

INVESTIGATING AND DEVELOPING EQUIPMENT AND RIGS FOR DEEP SEA OPERATIONS FROM VESSELS

Exploration of the deep sea is a major challenge and opportunity in marine research. Rigs and related technologies are fundamental to the study of the sea as they
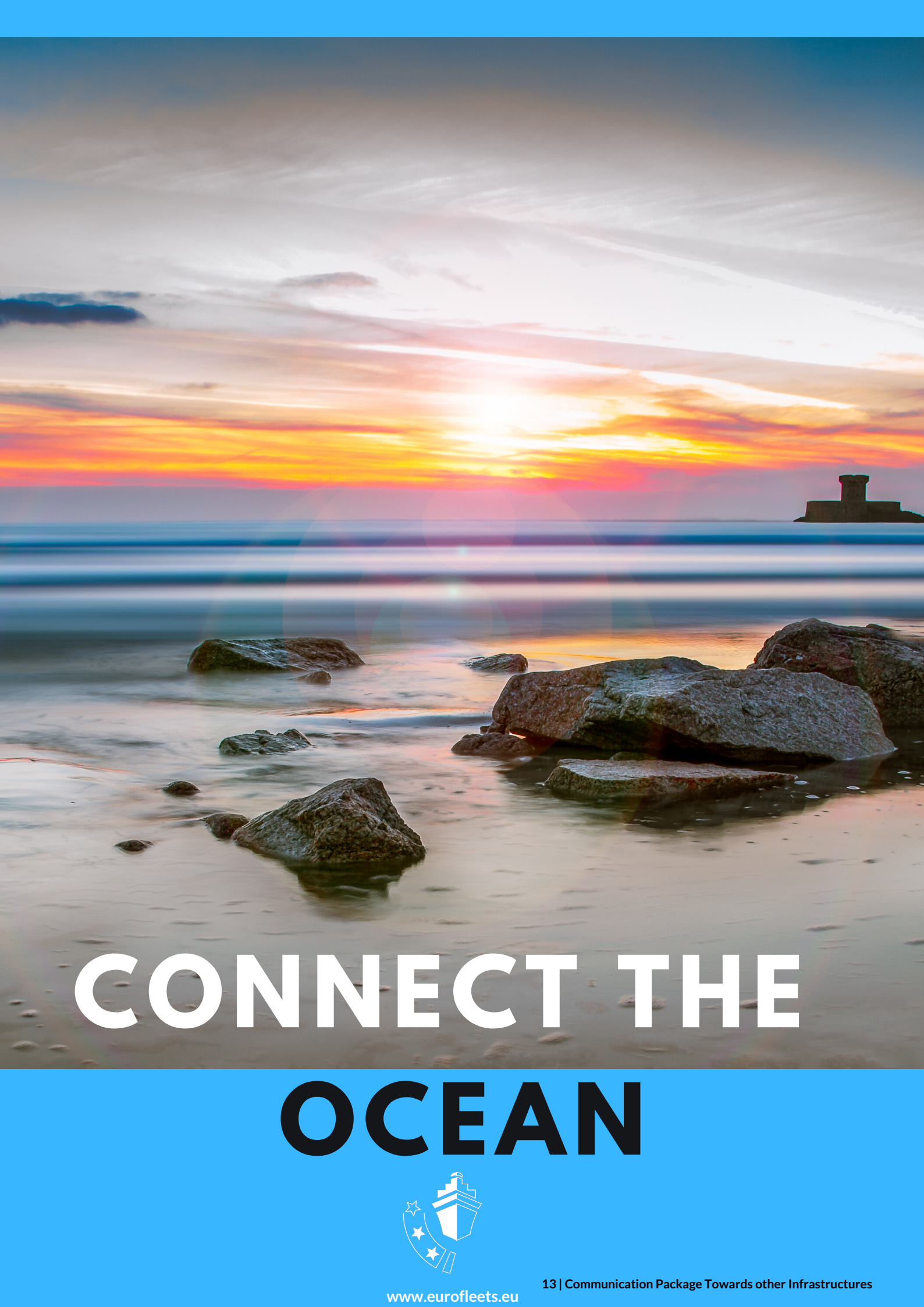
are needed to deploy equipment. Therefore Eurofleets+ will conduct investigations concerning deep sea research from vessels aiming at achieving interoperability of rigs to be able to deploy different equipment, enabling installation of mobile equipment when needed, and facilitating sharing and installation of equipment across different ships

DEVELOPING INNOVATIVE METHODS AND STRATEGIES FOR INTELLIGENT EXPLORATION, MAPPING AND CONTROL USING COOPERATIVE NAVIGATION

Innovative methods and strategies will be analysed and developed for intelligent exploration, mapping and control using cooperative navigation. New technologies will be developed for Autonomous Surface Vehicles (AUVs) and Autonomous Underwater Vehicles (ASVs) and the innovations will be validated prior to field testing during operational cruises.

To check all project deliverables:

CONNECT THE
OCEAN

EDUCATION AND TRAINING

EUROFLEETS+ provides comprehensive training and exchange programmes for user communities and professional staff, increase ocean literacy, inspire emerging researchers, and attract women to science through targeted educational activities.

This guide is aimed to help course organizers to plan and conduct the course by providing information
on the main steps and stages in sequence from the designing a training course, to evaluation for
feedback into further development.

This toolkit provides a "Dissemination Toolbox" for young researches. It is a "how to guide" to effectively communicate their research to different people at different times and through different media.

NEVER STOP LEARNING

STAKEHOLDER ENGAGEMENT

Key stakeholders are largely known to the Eurofleets+ consortium due to their involvement in many other relevant initiatives and EU projects in the field of marine science and technology.

SUPPORT US

Make sure you contribute to our strategic agenda by registering on our website, participating on our online forum, and follow our social media.

TARGET STAKEHOLDERS

Government:
Regional and local governments
National and EU policy-maker

Research and education:
Research institutions, academia
European Research Infrastructures
High education institutions

Industry:
Technology developers
Innovators
Marine Engineering Companies

Civil society:
NGOs
Journalists, documentarists
General public

European and International networks and programs:
ERVO, OFEG, IRSO, UNOLS, JPI OCEANS, AtlantOS, ARICE, EUMarineRobots, SeaDataCloud, EUDAT, EOSC, ODIP and ODIPII, GEOSS, IODE ODP, POGO, EMODnet, R2R, WOC, WMO, WWF, GEBCO, UNCLOS, Habitat Mapping, EOOS, ONC, DONET, ECSSOS, MACHO, IMOS, OOI, OceanSITES, EuroGOOS, JERICO-Next, Copernicus, Mercator Ocean and marine meteorology JCOMMOPS, Go Ship, AORA, ASMIWG

Stakeholder forum:

Follow Eurofleets Social media channels:

Stakeholder dialogue will be fostered through three main approaches

1 semi-structured interviews: focused on the identification of the stakeholder's offer and need, on the overlaps between stakeholder and Eurofleets+ missions and strategy, on the mutual collaboration opportunities;

2 a web-based discussion forum: a discussion platform will be established on the Eurofleets+ website to enable interested parties to interact with project participants;

3 Two international workshops:
a) Combining fixed and mobile ocean observing systems and their link with satellite observations
b) Synergies with the Atlantic Mapping program linking with AORA, EMODnet bathymetry and Belém statement