JERICO

Joint European Research Infrastructure network for Coastal Observatories

A proposed EC-project in response to the call CAPACITY – Research Infrastructures INFRA-2010-1.1.20

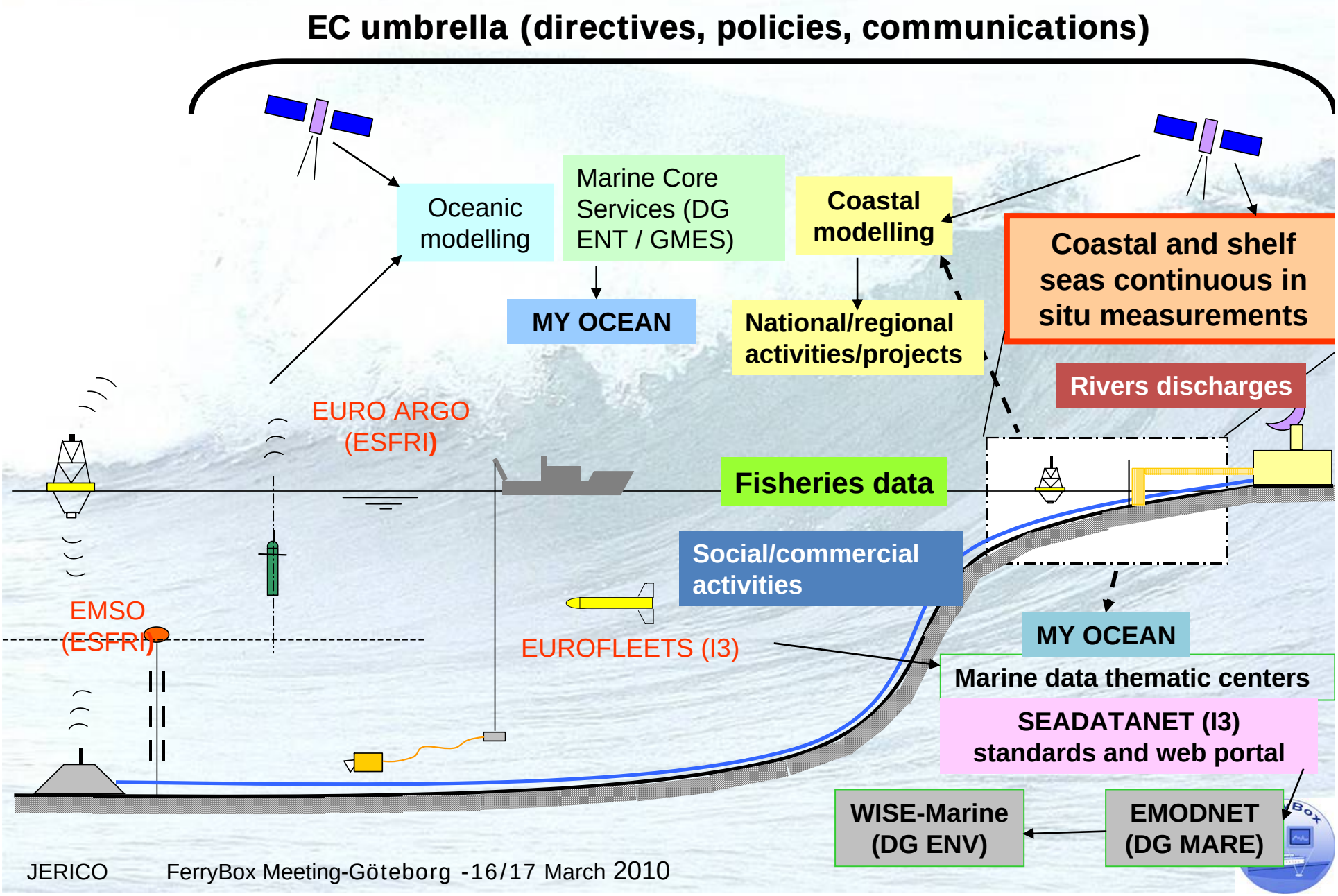
Research infrastructure for coastal research including for Integrated Coastal Zone Management and Planning

Patrick Farcy (IFREMER), Wilhelm Petersen (GKSS)

The project is evaluated and has an overall mark of 13,5/15

The list of selected projects will be known at the end of this week

Towards a long-term and sustained European network of coastal observatories



JERICO Aims:

Networking Activities	**Enhanced structure and integration**	• Define a **common strategic vision** for coastal observatories • Facilitating coordinated infrastructure access to European researchers and broaden services and facilities • Establish a **European Virtual Infrastructure**
	Enhanced sustainability	• Facilitate optimal use, and inter-operability, for existing equipment
	Sharing of knowledge	• Advance **training in modern equipment** • Intensify dialogue and interactions with industry and policy makers as well as citizen awareness • Promote interactions with other infrastructures and European projects (EuroArgo, Emso, SeaDataNet, MyOcean, …)
	Cooperation	• Develop International cooperation also outside Europe
Trans National Access	**Wider access**	• To observatory infrastructure • To mobile coastal observing systems (gliders, …) • To added value data and services
Joint Research Activities	**Joint development**	• Study on optimization of the coastal observing system of systems • Innovative sensors or systems to enhance interoperability • Innovative software for a better exploitation of mobile systems

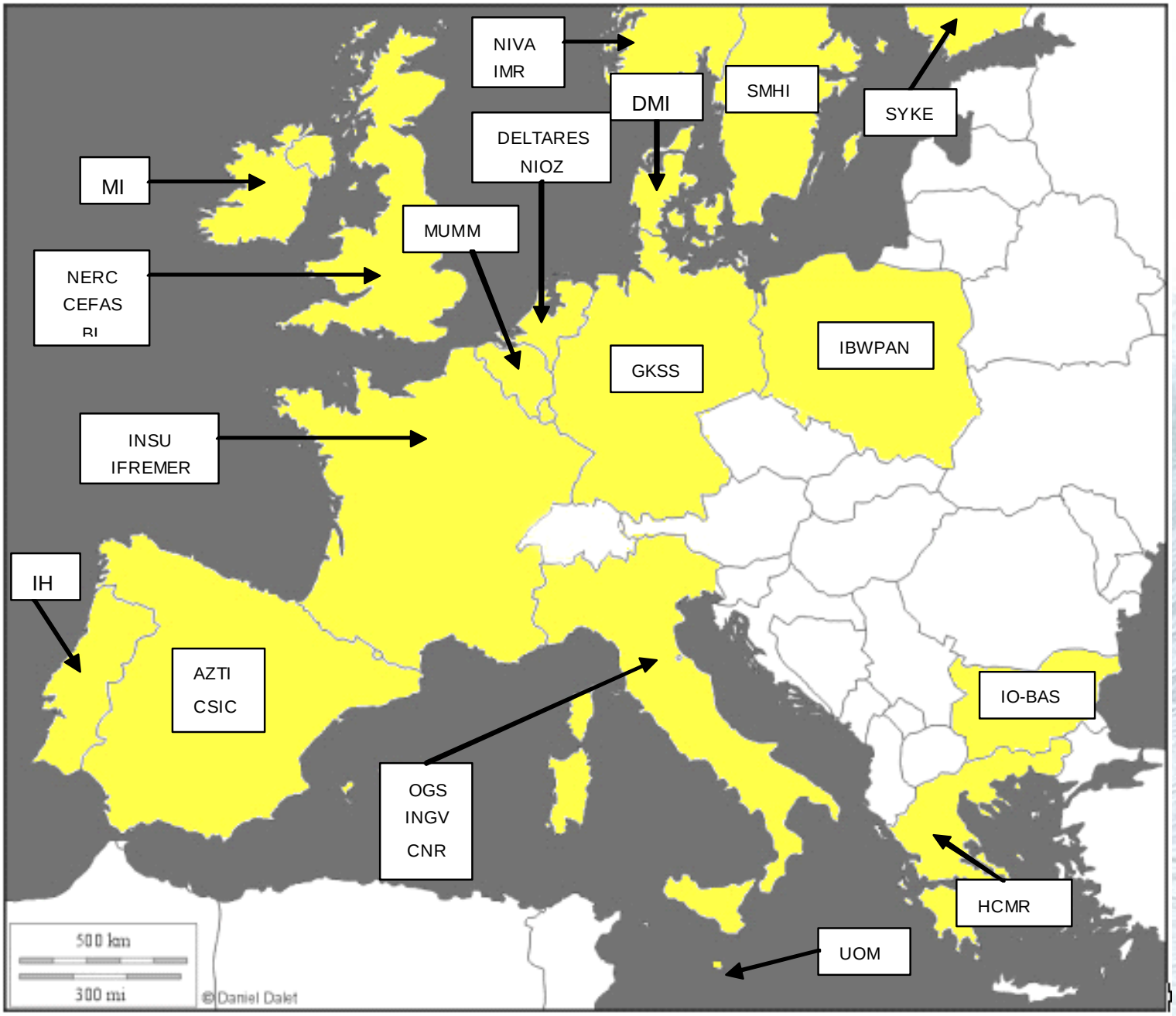
JERICO: content and organisation

- Networking activities (NA)
- Trans-National Access (TNA) – Service Activities (SA)
- Joint Research Activities (JRA)
- Management (M)

JERICO

Networking activities (NA):

- **WP1 : A common strategy, including definition and implementation aspects**
- **WP2 : Strengthening regional aspects**
- **WP3 : Harmonizing technological aspects**
- **WP4 : Harmonization operation and maintenance methods**
- **WP5 : Data distribution**
- **WP6 : Public outreach and education**


NIVA
IMR
DMI
SMHI
SYKE
DELTARES
NIOZ
MI
MUMM
NERC
CEFAS
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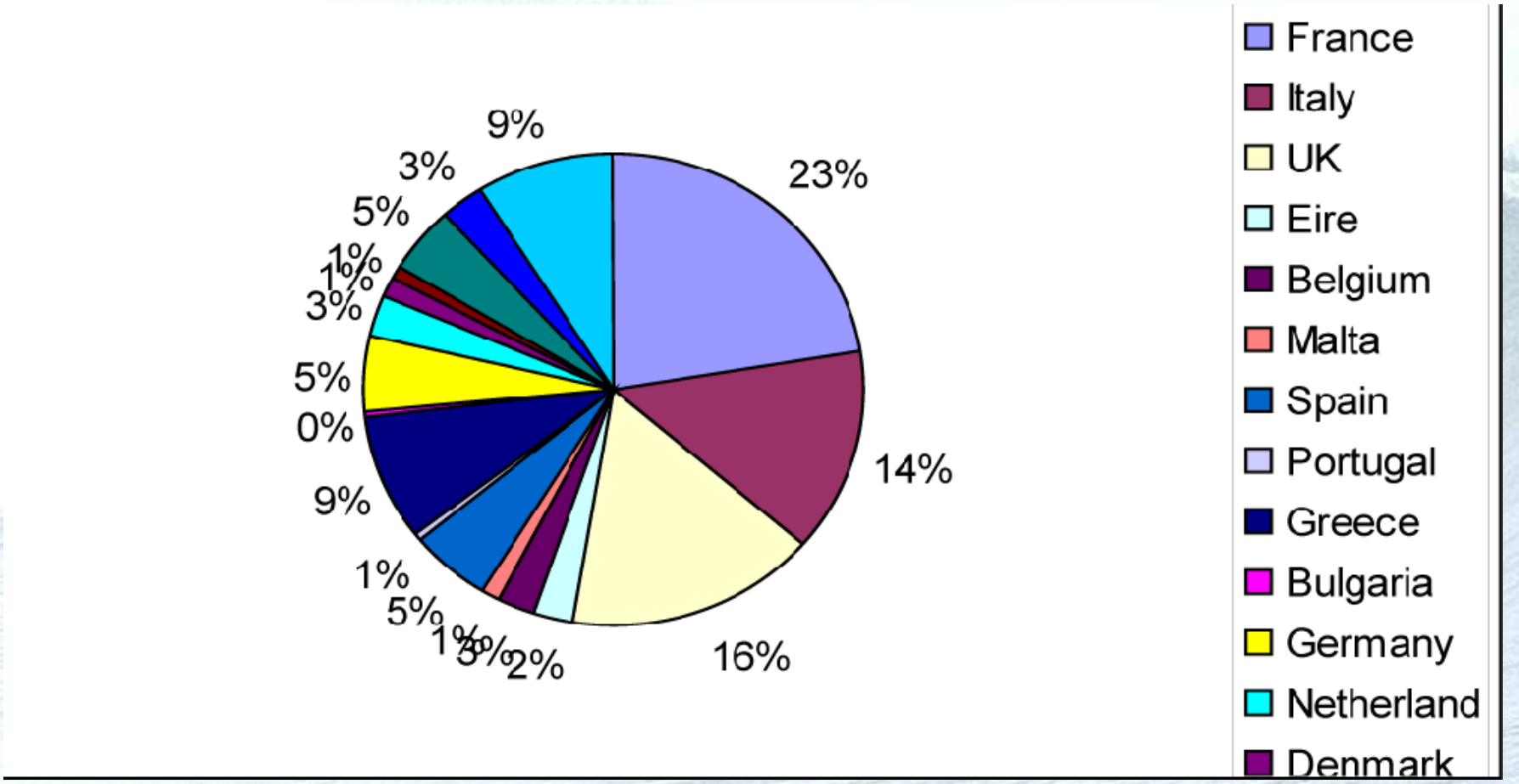
GKSS
IBWPAN
INSU
IFREMER
IH
AZTI
CSIC
IO-BAS
OGS
INGV
CNR
HCMR
UOM
500 km
300 mi
© Daniel Dalet

JER

JERICO partners

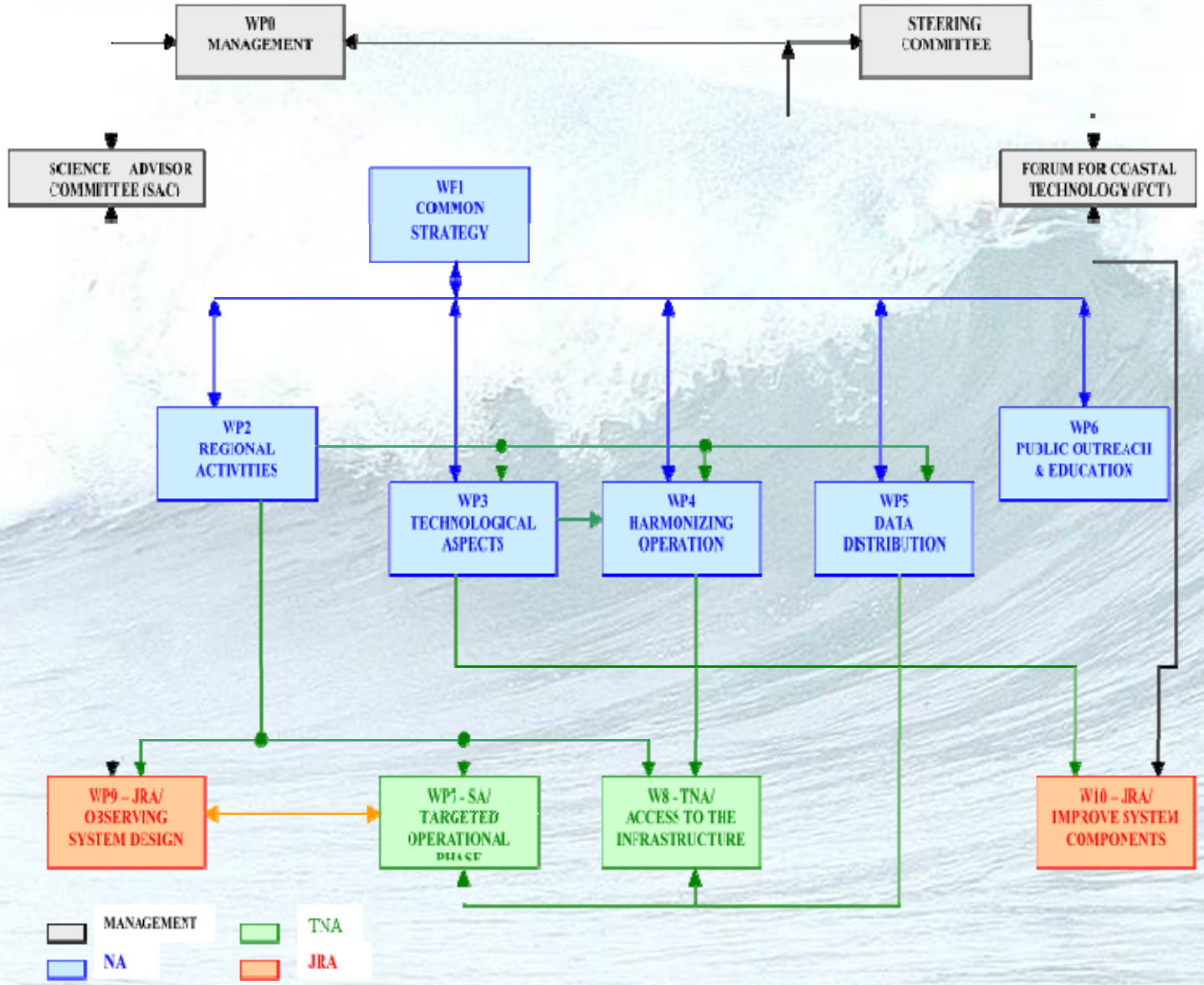
N°	Participant organisation name	Acronym	Country
1	Institut Français de Recherche pour l'Exploitation de la Mer	Ifremer	France
2	Finnish Environment Institute	SYKE	Finland
3	Institute of Hydro-Engineering of the Polish Academy of Sciences	IBWPAN	Poland
4	Danish Meteorological Institute	DMI	Denmark
5	Norwegian Institute for Water Research	NIVA	Norway
6	Institute of Marine Research	IMR	Norway
7	Dutch research institute for water, soil and subsurface issues	DELTARES	Netherlands
8	Istituto Nazionale di Oceanografia e di Geofisica Sperimentale	OGS	Italy
9	Consiglio Nazionale delle Ricerche	CNR	Italy
10	University of Malta	UOM	Malta
11	Hellenic Centre for Marine Research	HCMR	Greece
12	Natural Environment Research Council	NERC	UK
13	National Institute for Geophysics and Volcanolgy	INGV	Italy
14	Institute for Coastal Research	GKSS	Germany
15	Management Unit of the North Sea Mathematical Models	MUMM	Belgium
16	The Secretary of State for Environment, Food & Rural Affairs	CEFAS	UK
17	Swedish Meteorological and Hydrological Institute	SMHI	Sweden
18	Consejo Superior de Investigaciones Cientificas	CSIC	Spain (Balearic)
19	Royal Netherlands Institute for Sea Research	NIOZ	Netherlands
20	Marine Institute	MI	Ireland
21	Blue Lobster I.T.	BL	UK
22	AZTI Technalia	AZTI	Spain
23	Institut National des Sciences de l'Univers – Centre National de la Recherche Scientifique	INSU/CNRS	France
24	Instituto Hidrográfico	IH	Portugal
25	Institute of Oceanology - Bulgarian Academy of Sciences	IO-BAS	Bulgaria
26	Puertos del Estado	PUERTO	Spain

JERICO Budget Distribution



planned total budget: ~9 M€

JERICO workpackage links



FERRYBOX IN JERICO

WP3 : HARMONIZING TECHNOLOGICAL ASPECTS

Task 3.1: Ferrybox (FB)

Objectives

- review current status and best technical practice of FB systems
  - state of the art, ➔ input to Joint Research Activities (JRA)
  - best practise, identification of gaps
- harmonizing issues between systems
- harmonizing data (e.g. for better comparability)
- technical solutions for integrating new sensors (partly developed in WP10)
- define consensual procedures for using FerryBox data in validation of earth observation data

FERRYBOX IN JERICO

WP4 : Harmonization operation and maintenance

Task 4.3: End to end quality assurance

Subtask 4.3.2: Ferry Box (NOCS, GKSS, SYKE)

– *FerryBoxes are characterised by the measurement of core variables (T, S, Chl a, Turbidity) which are currently measured with different sensors by different operators. This equipment diversity is true for additional measurements (eg nutrients, O2) which are not on all FerryBox operations. To enable regional comparisons, this diversity in sensors and variables requires transparency in best practices in all phases of the setup (e.g. sensor type, deployment, housing, calibration etc). Such transparency will enable adoption of common procedures and hence lead to quality assurance.*

Task 4.4: Running costs

Subtask 4.4.2: Ferry Box (NIVA, NOCS, GKSS)

– Similar Ferry Box systems are operated across Europe. Due to their relatively small variability (number of sensors etc) these systems provide an excellent example for running cost analysis and comparison. During JERICO different systems will be analysed in terms of costs and compared particularly across different areas.

NavOp Project

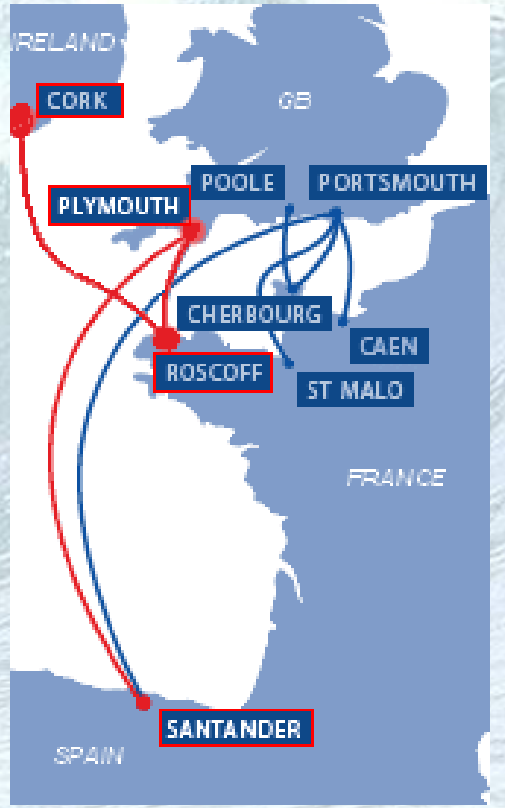
OBJECTIVES:

- Observation of physical and biogeochemical parameters along regular routes of ships of opportunity
- Validation of the hydrodynamic and ecosystem models
- Validation and colocalization of satellite observations
- Monitoring of the biogeochemical parameters of the coastal Sea-water (European Marine Strategy)
- Validation of the forecast models (PREVIMER)
- Information and consciousness-raising of passengers aboard the Brittany Ferries ships
- Supply of the database Coriolis

NavOp Project

AREAS:

- Western English Channel
- Celtic Sea
- Bay of Biscay



RESOURCES:

- 1 Ferrybox 4H-JENA+Sampler on the MV ARMORIQUE (Roscoff-Plymouth)
- 1 Ferrybox 4H-JENA on the MV PONT-AVEN (Roscoff-Plymouth-Cork-Santander)

NavOp Project

PARTNERS:

- Station Biologique de Roscoff (CNRS-INSU-Université Pierre et Marie CURIE)
- Ifremer (PREVIMER)
- Brittany Ferries

SCHEDULE:

- March-April 2010 - Acceptance Tests in laboratory and handling of devices
- June 2010 - Installation aboard the MV ARMORIQUE
- September 2010 - Installation aboard the MV PONT-AVEN

Home FerryBox Community - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.ferrybox.org/

Home FerryBox Community

COSYNA | Print

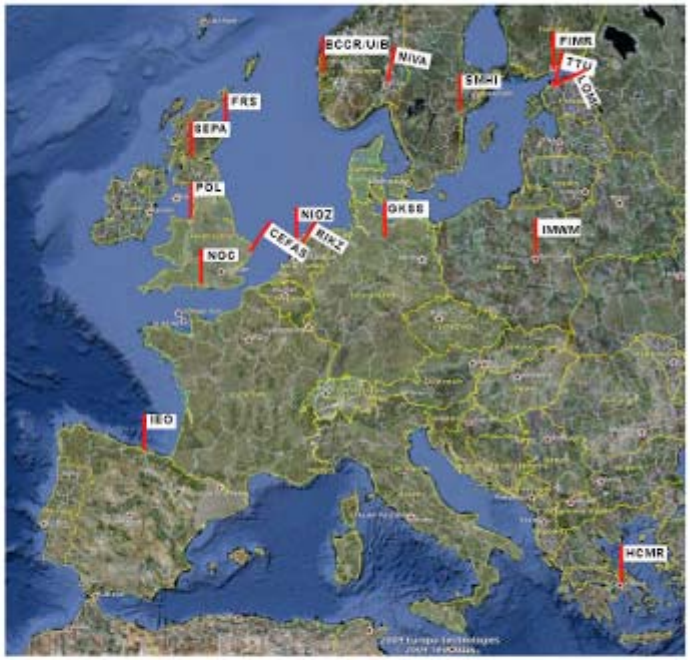
FerryBox Community

www.ferrybox.org

- Why a FerryBox (FB)?
- Objectives
- Ferry Box Principle
- Ship Routes
- FerryBox Institutions
- FB Online Data
- FB Applications
- EU-Project "FerryBox"
- FB Future Perspectives
- Other FB Links
- Observation Networks
- Publications
- Companies
- Internals

> Home

Welcome to the Website of the European Ferrybox Community



**This website will assemble all kind of information concerning Ferrybox systems.
It is intended as well for FerryBox operators and users as for the general scientific public to get information on existing systems in Europe, new developments and some exemplary results.**

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Website hosted by:

GKSS

[→] http://www.gkss.de

[→]

[→] Oceanology 2010

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Ship Routes - Mozilla Firefox

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http://www.ferrybox.org/routes/index.html.en

Ship Routes

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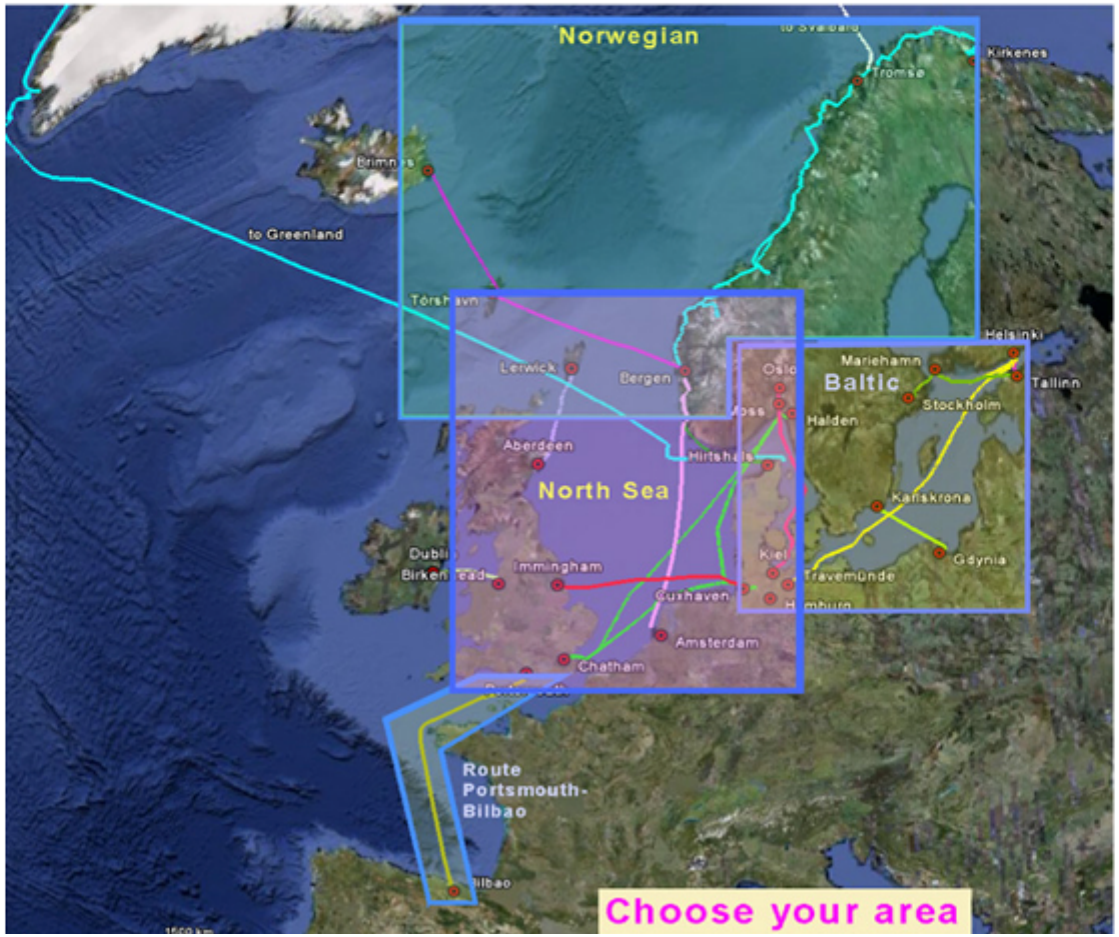
> Home > Ship Routes

Main Routes of 'Ships of Opportunity' in Europe



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FerryBox Route Baltic Sea - Mozilla Firefox

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http://www.ferrybox.org/routes/baltic_sea/index.html.en

FerryBox Route Baltic Sea

FerryBox Community

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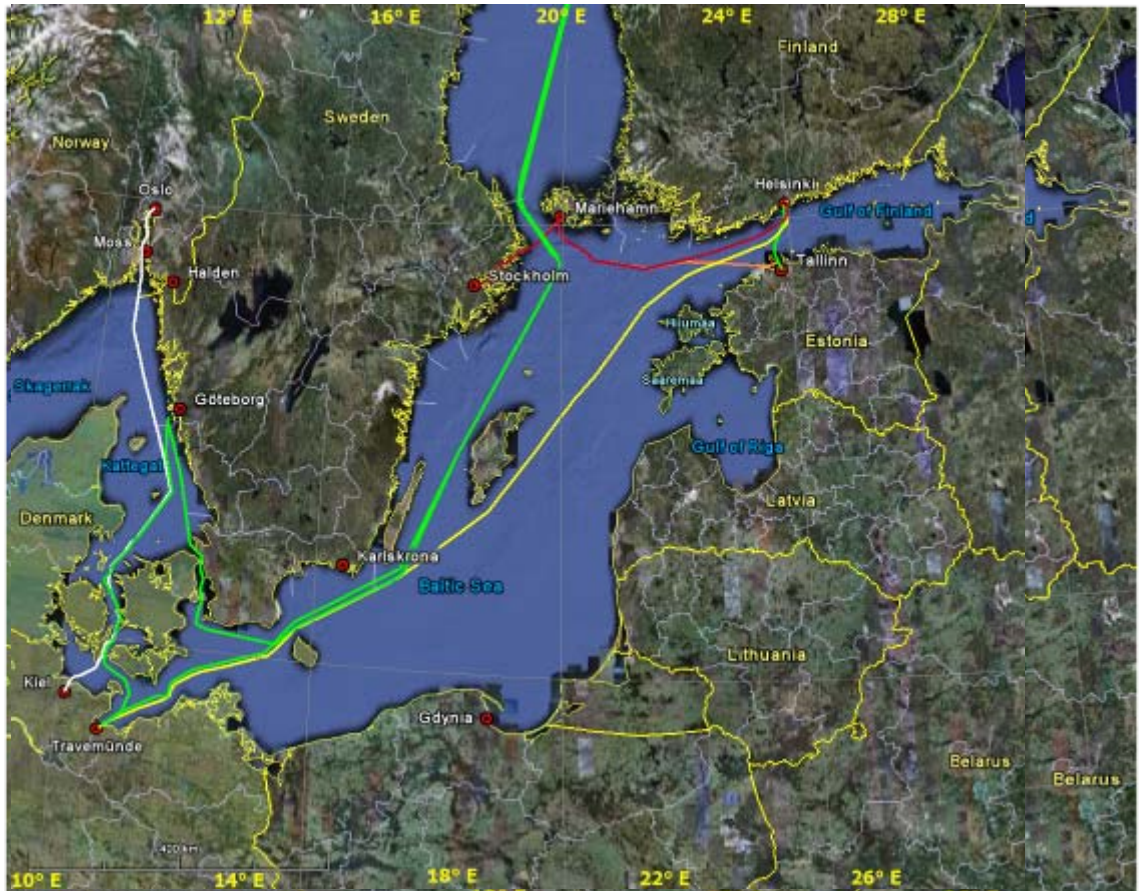
> Home > Ship Routes > Baltic Sea

FerryBox Routes in the Baltic Sea

Choose a ship line by clicking on the route in order to get the website of the operating institution



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[→] Oceanology 2010

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MS Color Fantasy: Oslo - Kiel // MS Color Fantasy: Oslo - Kiel // Norsk institutt for vannforskning (NIVA) - Mozilla Firefox

Datei Bearbeiten Ansicht Chronik Lesezeichen Extras Hilfe

http://www.niva.no/symfoni/infoportal/publikasjon.nsf/URLinter/A0112163594FFF45C125717F0039C3A3?OpenDocument

FerryBox Route Baltic Sea | Itämeriportaali : Tervetuloa Itämeriport... | Baltic Sea Portal : Frontpage | MS Color Fantasy: Oslo - Kiel //

NIVA
Norsk institutt for vannforskning

Tjenester Kompetanse Forskning Prosjekter

SØK

> Forside

- Nyheter
- Om NIVA
- Prosjekteksempler
- Temasider
- Publikasjoner
- Overvåkingsdata
- Kontakt
- Jobb i NIVA
- Nettstedskart

MS Color Fantasy: Oslo - Kiel

Utskrift

The ferry Color Fantasy is presently operating the Ferrybox system in the eastern Skagerrak. The ferry operates daily between Oslo in Norway and Kiel in Germany by the ferry company Color Line. Onboard the ship the Ferrybox-system measures continuously water quality along the route.

MS Color Fantasy. Photo: Color Line

Realtime monitoring from MS Color Fantasy (satellite connection)

Color Fantasy started the measurements on the route Oslo-Kiel in May 2008 after that MS Prinsesse Ragnhild and Color Festival had operated the routes Oslo-Hirthals and Oslo-Fredrikshavn since
August 2001. The Ferrybox system measures continuous temperature, salinity, oxygen, algal content and particles, and the data is transfered via satellite link to NIVA.

This line was operated through several EU-project in 2003-2005. The data are used in the algal monitoring program and in the ESA and Norwegian Space Agency project VAMP for validation of satellite data products. The data from the ferry also supports other long term monitoring projects in the Skagerrak and Oslo Fjord area, and the monitoring programs for the Outer and Inner Oslofjord.

Relaterte lenker

- NIVAs havovervåking utvides
- Ukentlig måling av vannkvaliteten
- Miljøovervåking med Hurtigruten
- Ships of Opportunity contribute to MERIS validation
- Temaside: Giftige alger
- Temaside: Kystovervåking
- Miljøstatus
- REVAMP
- DISMAR
- NorSEN
- FerryBox
- Fiskeridirektoratets beredskapsportal
- Matportalen
- Algeinfo
- NERSC HAB

Summary:

- JERICO infrastructure project, duration 4 years, start 2011?
- Harmonizing FerryBox acitivities (systems, instruments and data)
- Harmonizing FerryBox data exchange
  common regional databases??
- Extend FB systems to new parameters (e.g. pCO2…)
- new French FB systems in the Atlantic in 2010