Two talks:

- Overview of the EC EUROFLEETS project
- Overview of Ifremer scientific softwares
• EUROFLEETS is an EC project that was proposed in February 2008 in the context of the FP7 call. Start of the project at the beginning of 2009.

• EUROFLEETS general objective is an optimised utilisation of the European fleet (ships and equipment).

• European countries agree to propose together their research vessels, the associated equipment, their know how in the frame of the EUROFLEETS.
EUROFLEETS

TOWARDS AN ALLIANCE OF EUROPEAN FLEETS

24 marine institutes, universities, foundations from 16 European countries

IFREMER : EUROFLEETS Coordinator

FP7-2008-INFRA-2008-1.1.1 : Bottom-up approach : Integrating activities in all scientific and technological fields
EUROFLEETS

TOWARDS AN ALLIANCE OF EUROPEAN FLEETS

Concepts and objectives - 3 equilibrated axis

• NA (Networking activities) : strategic vision for research fleets and heavy equipment, interoperability, sharing of knowledge between academia and industry,..

• TNA (Transnational access) : access to cruises (ships and vehicles)

• JRA (Technological development) : softwares for data management, payloads for vehicles
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TOWARDS AN ALLIANCE OF EUROPEAN FLEETS

Budget:

Requested EU contribution: approx 7,00 M€

Distribution of budget per activity

Budget distribution per country

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Networking Activities (IMR) – 7 work packages

- **STRATEGIC COORDINATION VISION (IFREMER-22mm)**: Common strategy on fleet evolution (roadmap), large equipment and regional class ship investment

- **VIRTUAL RESEARCH FLEET PLATFORM (MARIS-25mm)**: Improvement of information sharing with integrated information portal development and generic cruise planning system

- **ECO-RESPONSABILITY AND ECO-DESIGN FOR EXISTING AND NEW RESEARCH VESSELS (NERC-66mm)**: Based on Life Cycle Assessment, analysis of eco-performances, guidelines towards future new buildings and innovative eco-design for regional research vessels
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Networking Activities

- CONTRIBUTION TO OPERATIONAL FLUIDITY WITHIN EUROPEAN RESEARCH FLEETS (CSIC-82mm): Interoperability (which vehicle on which ship) and standardisation (interfaces and procedures), R/V Operation rapid Response Capabilities

- ADVANCED TRAINING AND EDUCATION (OGS-33mm): Formation of European marine scientists, cross-training and exchange of technical personnel

- DISSEMINATION AND EXPLOITATION (EurOcean-37mm): Internet Hub for dissemination and communication
EUROFLEETS

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Trans National Access (Coordination of this Activity: HCMR Greece)

5 Ocean/Global Research Vessels for North and South Atlantic Ocean including polar seas, Indian Ocean

- Celtic Explorer
- L’Atalante
- Nautilis
- Explora
- Polarstern
- Marion Dufresne

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TOWARDS AN ALLIANCE OF EUROPEAN FLEETS

Trans National Access:

14 Regional Research Vessels covering all the European seas organised on a decentralised way.

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JRA1: SOFTWARES TOOLS TO FACILITATE TNA (IFREMER)

- Partners: IFREMER, CSIC, CNR, OGS, MUMM, MPI, GEOECOMAR, IOPAS, MARIS
- 1300 k€ total cost – funded up to 75% by EC
- 190 manmonths
- Development of softwares tools in 6 axis: sensors calibration, data processing, survey reporting, data standardisation, import/export to and from on shore data centres, genomic data base

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JRA1 TASKS (1)

- Calibration tools (CNR, IFREMER, CSIC): Aim is to offer and provide to the community basic tools to calibrate sensors.

- Processing tool (IFREMER, MPIMM, CSIC, OGS, MARIS, MUMM): Process data coming from sensors and scientific equipment. Data will be geo-referenced and the system will be based on a multi-resolution, multi-layers approach. Quality control and data interpretation functionalities will be important aspects.
JRA1 TASKS (2)

- Survey reporting tool (**OGS, CNR, IOPAS, MPI, MUMM, CSIC**): Recording of information on events occurred during a survey (scientific/technical observation, anomalies, ..)

- Standardisation (**CSIC, MARIS, MPI, OGS, MUMM, CNR**): Improve the management and the standardization of data for the cruises.
JRA1 TASKS (3)

- Acquisition/import/export to and from on shore data centres (CNR, MPI, OGS, MUMM, CSIC): To implement data collection on board ships, develop a methodology and software for operational data transmission, quality control and data access from ship to shore data centres linked with SeaDataNet.

- Acquisition, integration and visualisation of oceanographic and molecular data (MPI, OGS, CNR, MARIS): multi-resolution database for the acquisition, management and combined analysis of large scale genomic and contextual oceanographic data needs to be developed.

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JRA2: DEVELOPMENT OF SHARED AND FLEXIBLE MODULES FOR ROVs, AUVs AND OBSERVATORIES (MARUM)

- BGC (BioGeoChemical) module in two modes: ROV payload or autonomous with energy and real time communication
  - 3D HDTV module, for high resolution mapping,
  - In situ Chemical Analysis and Sampling Payload (ICASP) module (mass spectrometer, fluorimeter, CTD probe)
...good luck to every partner