

# **EUROFLEETS2 activities and results of its first year**



16<sup>th</sup> ERVO meeting, June 11-12, 2014

## EUROFLEETS2 : continuation and enhancement of EUROFLEETS with more operational initiatives

- **An expanded Consortium** in EUROFLEET2: 31 beneficiaries, of which 12 new comers (from Denmark, Sweden, Turkey, Greenland, Faroe Islands, Croatia, Spain, Germany and France) working together in 3 complementary activities, including two industrialists (SHIP-ST and PROLLION) involved in JRA:
  - **Trans National Access**, based on the process successfully proven in EUROFLEETS, strengthened with more modern RVs (22) and pieces of equipment (5)
  - **Joint Research Activity**
  - **Networking Activity** with **operational initiatives** to demonstrate the cost-effectiveness increase brought by a better coordination, with actions for the **training** of young scientists, and with the **continuation of coordination efforts** (including the Research Polar fleets)



## The innovative ship-time and equipment-time call organized within EUROFLEETS2

**Regional Calls (TNA 1):** Global/Ocean and Regional Research Vessels will be opened together in calls for maritime regions.

- **Regional 1** (Polar & Subpolar): March 2013/24<sup>th</sup> May 2013 – **Closed**
- **Regional 2** (Polar/Subpolar, North Atlantic, North Sea, English Channel, Celtic Sea, Baltic Sea and Bay of Biscay): 3<sup>rd</sup> December 2013/27 March 2014 – **Closed**
- **Regional 3** (Mediterranean Sea, Black Sea, Red Sea): **September to December 2014**

**Super-Integration Call (TNA 2):** a single flagship project has been selected for the 4 years period giving access to several research vessels or to research vessels in combination with other infrastructures.

- **Super-Integration:** 14 June 2013/16<sup>th</sup> September 2013 - **Closed**

**Embarked Equipment Call (TNA3):** funding the installation and usage of unique equipment not usually deployed on a Research Vessel not funded within the EUROFLEETS2 project.

- **Embarked equipment:** 14 June 2013/16<sup>th</sup> September 2013 - **Closed**



# Results from the Polar & Subpolar Call (Regional 1)



**6 proposals have been submitted** representing 42 partners

**3 proposals recommended for funding** by the Scientific Review Panel:

- ORCA cruise (led by NIOZ) o/b RV *Sanna*: 7-14 August 2014
- PREPARED cruise (led by OGS) and Polar plastics cruise (student project) o/b RV *G.O. Sars*: 5-15 June 2014 **underway**



# Results from the Super-Integration Call

**4 proposals have been submitted** representing 54 partners

**1 proposal recommended for funding** by the Scientific Review Panel:

- **MED-SUV.ISES project** (led by INVG, Catania, Italy) in **Seismology, Volcanology, and Geophysics** for onshore and offshore seismic investigation in Southern Italy, with recording of active and passive seismic data
- **A 3-leg operation** organized o/b RV *Sarmiento de Gamboa* (Leg1 & Leg2: June/July 2014) and RV *Aegaeo* (Leg 3: November 2014?)

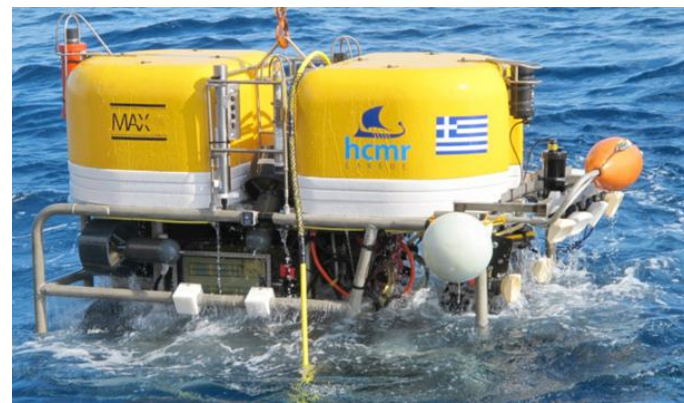
Press conference  
held on 27<sup>th</sup> May  
2014 at INVG



# Results from the Embarked equipment Call

**1 proposal has been submitted and recommended for funding by the Scientific Review Panel:**

- **IRIS project** (led by CSIC) with the ROV Max Rover (HCMR) deployed on board the RV *Sarmiento de Gamboa* during a 12-day cruise in 2015



**Access to the 4 other equipment was re-opened in the Regional 2 Call**



# First results from the Regional 2 Call under evaluation

- **First Results:** 22 proposals have been submitted
  - 10 different vessels have been requested
  - 2 pieces of equipment (3D HDTV camera (1) & ROV Liropus (3)) have been requested
  - Working Areas:
    - Arctic 5 proposals
    - Antarctic 4 proposals
    - North Atlantic 6 proposals
    - Gulf of Cadiz 3 proposals
    - Azores 1 proposal
    - Baltic 1 proposal
    - North Sea 2 proposals



# Requested Vessels in Regional 2 Call



8 proposals



3 proposals



2 proposals each

1 proposal each





# The Joint Research Activity within EUROFLEETS2

- 3 Work Packages under progress covering:
  - **Guidelines and generic designs for RRVs** (specifications, innovative basic designs and innovative technologies for optimisation of existing ships) **to facilitate the future Regional RVs renewal**
  - **Innovative technologies for Hybrid and Autonomous Underwater Systems** with i) optical 3D mapping and control strategies for AUVs, ROVs and HROVs, and ii) development of new compact batteries for underwater systems
  - **Software and tools**, with i) further development in the event-data logger software EARS, ii) standardisation of the data acquisition process, iii) analysis of e-access technologies to develop shore to ship e-access



## (NA) Operational initiatives

- Overarching goals of EUROFLEETS1 further expanded and matured in EUROFLEETS2 through **operational initiatives aiming at reducing at long-term the operation costs of marine infrastructure and also at improving marine data quality**, in particular:
  - Development of the « Regional virtual fleet » concept for transnational cooperation at regional level – **First Deliverable almost completed**
  - Upgrade and maintenance of the e-platform EVIOR, in conjunction with a step-by-step deployment of the common meta-data acquisition and transmission software (EARS) on board volunteering RVs:
    - **5 beneficiaries** involved in on-board installations: MUMM-OD, OGS, CSIC, Ifremer and IOPAN
    - **EARS-V1** installed/tested on board RVs *Belgica*, *OGS-Explora* and *Garcia Del Cid* in September 2014
    - **EARS-V2 prototype** installed/tested on board RV *L'Atalante* in December 2014
    - **EARS-V2 final** ready at the end of EUROFLEETS2 and sending information to EVIOR





## European Virtual Infrastructure in Ocean Research (EVIOR)



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

[http://www.eurofleets.eu/np4/virtual\\_rv](http://www.eurofleets.eu/np4/virtual_rv)



## (NA) Contribution to the training of young scientists

- **Preparatory workshop** to the EUROFLEETS2 calls for ship-time: workshop targeted to PhD students and early stage Post-Doc held in Tallin, Estonia, 18-20 February 2014. 10 applications submitted - **Completed**
- **2 training courses** on board RVs *Urania* and RV *Salme* in summer 2014
  - 60 applications submitted for 24 available places
  - RV *Urania*: 5th to 8th July 2014
  - RV *Salme* 17th to 21st (or 19th to 23rd) August 2014
- **3<sup>rd</sup> training course** on board RV BIOS-II in June 2015
  - Call launched beginning 2015 for 18 berths (including instructors)
- **A 6-day pilot floating university on board RV *Dana*** during a transit from Tromso (Norway) to Hirtshals (Denmark) in June 2015
  - Call launched in September-October 2014
- **Other training activity** for including students within EF2 funded- cruises



## (NA) Coordination efforts started in EUROFLEETS1 and strengthened in EUROFLEETS2

- The **Fleet Evolution Group (FEG)** will be maintained and extended to new **beneficiaries**, aiming at promoting optimal coordination within European Research fleets and fostering a shared strategic vision.
  - **1st recommendation: Update of the EurOcean RV Infobase through additional information and implementation new filtering functionalities**
  - **The database aggregating the strategic views of European RV operators will be followed up and extended to international fleets managers.**
- Development of a **cruise scheduling tool** to enhance the visibility of RVs scheduling and eventual availability
  - **Sub-part of a more complete development. Ongoing** specification phase of a cruise planning system.
  - **EUROFLEETS2 contribution on the scheduling tool in 2015**



## (NA) Flagship initiative for polar access

- An emblematic « Pioneering group » of EUROFLEETS2 aiming at coordinating the European Polar Research Vessels (PRV) and optimizing their usage by:

- Determining the available capacities of PRVs – **Completed**
- Comparing the available capacities with the scientific demand
- Establishing models for optimization of this fleet by a better coordination of the vessels scheduling and by harmonizing the deployment of ice-strengthened RVs with the heavy icebreakers



## *Thank you for your attention!*

The last EUROFLEETS Deliverables of ERVO interest are available on the project public website (<http://www.eurofleets.eu/np4/29> ):

- Report on guidelines for common peer review criteria and processes for scientific evaluation/selection
- TNA consolidated final report, contributions to NA1
- Report on perspectives for major underwater equipment new investment ...
- Database aggregating strategic views of fleet managers
- Report on diffusion of e-access on research vessels
- Guidelines for RV eco-design
- Implementation of selected best practices for education

