

EUROFLEETS2

On-going activities

by Valérie Mazauric, EUROFLEETS2 Coordinating team

EUROFLEETS2 : 31 beneficiaries working together in three structuring activities

- **Trans National Access**, based on the process **successfully proven in EUROFLEETS(1)**, strengthened with more modern RVs (22) and pieces of equipment (5)
- **Joint Research Activity** with **3 components** focusing on innovative technologies for underwater systems, guidelines and generic designs for Regional, and software and tools with strong emphasis on standardisation
- **Networking Activity** with a range of actions promoting **more coordination** of European Research fleets (including the Polar ones), and a particular emphasis for the **training** of young scientists,



5 EUROFLEETS2 calls: now all closed (1)

- **Regional calls:** Global/Ocean and Regional Research Vessels opened together in calls covering maritime regions
 - **Regional 1** (Polar & Subpolar): March/May 2013
 - **Regional 2** (Polar/Subpolar, North Atlantic, North Sea, Channel, Celtic Sea, Baltic Sea and Bay of Biscay): December 2013/March 2014
 - **Regional 3** (Mediterranean Sea, Black & Red Seas): November 2014/February 2015

26 new proposals under evaluation for funding in 2016
- **Super-Integration call:** a single flagship project has been selected for the 4 years period to give access to several research vessels or to research vessels in combination with other (non marine) infrastructures.
 - **Super-Integration:** June/September 2013



5 EUROFLEETS2 calls: now all closed (2)

- **Embarked Equipment call:** funding the installation and usage of embarked equipment deployed on a non usual carrying Research Vessel (ship time not funded within EUROFLEETS2)
 - **Embarked equipment:** June/September 2013 & November 2014/February 2015
 - 2 new proposals under evaluation for funding in 2016**

For the 5 calls, 50 proposals were submitted (mostly targeted on geographical areas), mobilising 346 potential partners from more than 180 institutions, mainly from Europe



EUROFLEETS2 TNA achievements (1)

- **Polar & sub-polar call - 5 funded proposals:**
 - **ORCA** cruise (Dutch PI) o/b RV *Sanna*: 7-14 August 2014 off Greenland
 - **PREPARED** (Italian PI) and **POLAR PLASTICS** (Irish student project) cruises o/b RV *G.O. Sars*: 5-15 June 2014
 - **BentHablceland** cruise (British PI) o/b RV *Magnus Heinason*: 2-9 July 2015 off Faroe Islands
 - **BURSTER** cruise (Italian PI) o/b RV *Polarstern*: 13-23 June 2016 off Svalbard
 - **PHARMADEEP** cruise (British PI) o/b RV *Hespérides*: end 2015 in Antarctic region
- **Super-integration call - 1 funded proposal:**
 - **MED-SUV.ISES** project (Italian PI), a 3-leg operation o/b RV *Sarmiento de Gamboa* (Leg1 & Leg2: June/July 2014) and *RV Aegaeo* (Leg 3: November 2014) for seismic studies in connection with terrestrial measures



🇩🇪 Sanna



🇩🇪 G.O. Sars



🇩🇪 Magnus Heinason



🇩🇪 Polarstern



🇪🇸 Hespérides



🇪🇸 Sarmiento de Gamboa




🇪🇸 Aegaeo

EUROFLEETS2 TNA achievements (2)

- **Other Regional calls - 4 funded proposals so far:**
 - **MULLET** cruise (British PI) o/b RV *Celtic Voyager*: 17-24 May 2015
 - **DeepMap** cruise (British PI) o/b *Celtic Explorer*: 15-26 July 2015
 - **PROPEL** cruise (Portuguese PI) o/b RV *OGS-Explora*
 - **GRACO** cruise (Spanish PI) o/b RV *Pourquoi pas ?*: summer 2016
 - **More to come** after evaluation and interranking of **26 proposals** concerning 8 different RVs received after 3rd Regional call
- **Embarked equipment call: 1 funded proposal:**
 - **IRIS** (Spanish PI) with the Greek ROV Max Rover deployed for 1st time on board the RV *Sarmiento de Gamboa* during a 12-day cruise in May 2015
 - **More to come** after evaluation of **2 proposals**



 Celtic Voyager



 Celtic Explorer



 OGS-Explora



 Pourquoi Pas?

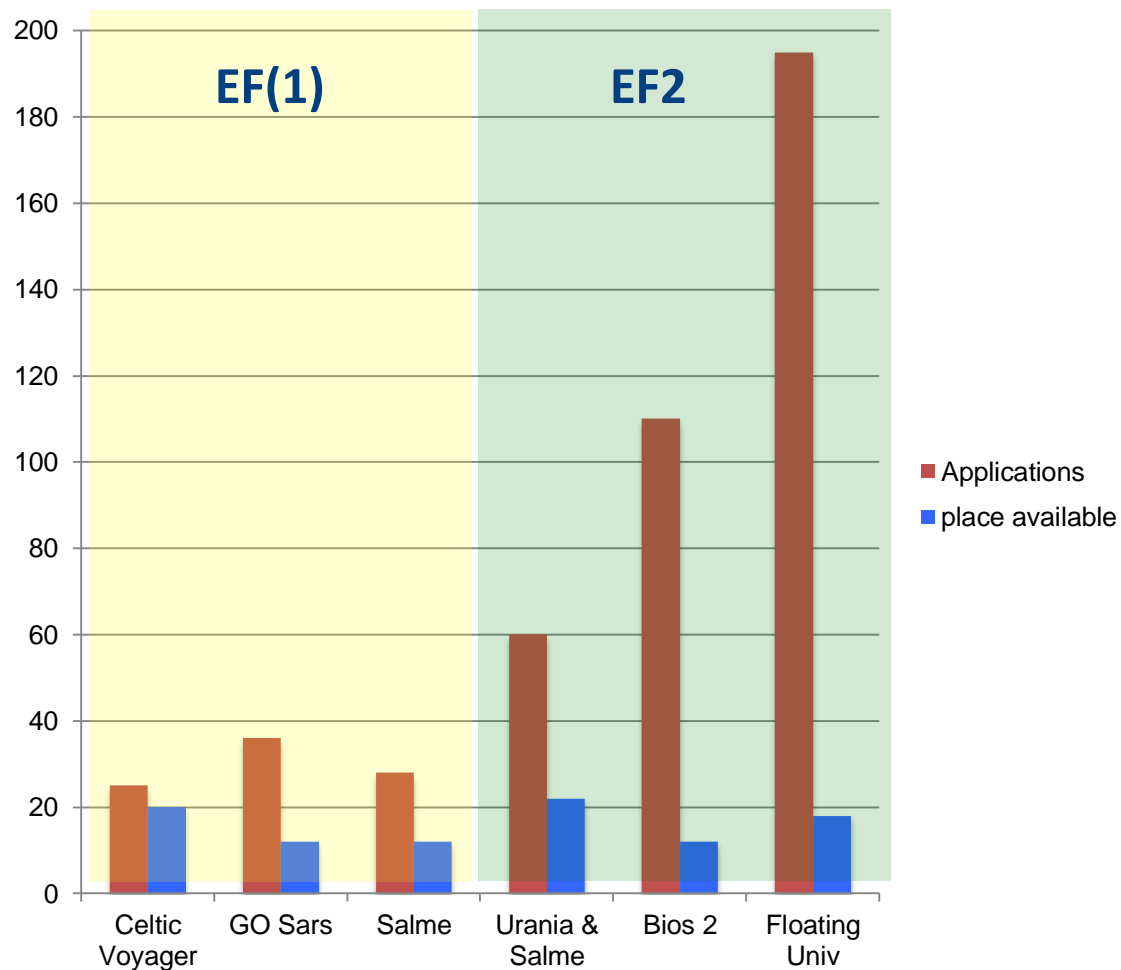


The project contribution to training of young marine scientists

- **In 2014, a preparatory workshop** (mainly for PhD students and post-docs) to the ship-time calls: 8 participants from 7 countries, 5 of them involved in submitted proposals, 1 of them was granted a cruise as PI
- **2 training courses** o/b RVs *Urania* and *Salme* in summer 2014
- **In 2015, a 3rd training course** o/b RV *Bios-2* in June 2015 (110 applications for 12 berths)
- **A 6-day floating university on board RV *Dana*** during a transit from Tromso (Norway) to Hirtshals (Denmark), 20th May-3rd June 2015 (195 applications for 18 berths)
- **More to come:** Additional **training activity** for including students within TNA cruises or host teachers o/b RVs (in connection with EGU)



EUROFLEETS on-board training courses: an impressive increasing demand!!!



Guidelines and Generic Designs for Regional RVs (1)

- Guidelines & recommendations on 3 design key points:
 - **Noise and vibration reduction** Deliverable available on the EF2 website
 - **Need and benefits of reducing URN** for research vessels, **methods for reducing URN, URN requirement standards and different methods to verify a vessel's URN**
 - **Work deck installations** Deliverable to be completed by August 2015
 - Description of **deck operations** and **deck gears**, types of **equipment depending on RV missions and resulting decks constraints.**
 - **Bubble sweep down avoidance** Deliverable to be completed by February 2016
 - Preliminary CFD analysis based on an existing RV (*Urania*) to look for alternative designs for mitigating bubble sweep-down



Guidelines and Generic Designs for Regional RVs (2)

- **Generic basis designs of a multi-purpose RRV:** **On going**
 - **Perimeter identified on the basis of:**
 - Mission scenario (hydrography and oceanographic missions, fishery surveys, seismics surveys, operating submarine systems)
 - Main ship dimensions
 - Propulsion system
 - Performances and operating conditions
 - Science and mission spaces (laboratories etc.) and equipment
 - **Preliminary design (including CFD results) by February 2016 and final designs by February 2017**



Other networking activities – In summary ...

- **Fleet Evolution Group** to foster a shared strategic vision, including Polar research fleets
 - Report on the status and foreseeable evolution of the European and International Polar Research Fleets
 - Report on the feasibility of year round, regular research operations in ice-covered areas
- Actions towards **more transnational cooperation at regional level:**
 - **Regional Virtual Fleet** concept
 - **Two pioneer groups** (focused on Med. Sea and Atlantic) to launch in 2015
- **Cruise planning system** under development
- Upgrade of the **EVIOR portal**



17th ERVO meeting, Galway, June 09-11, 2015



Thank you for your attention!

Visit the project website to download the project's Deliverables:

EUROFLEETS2: <http://www.eurofleets.eu/np4/69>

- Call definition and selection reports for TNA
- Report on the status and foreseeable evolution of the European and International Polar Research Fleets
- Report on the feasibility of year round, regular research operations in ice-covered areas
- Guidelines and recommendations for ship design on noise and vibration reduction

EUROFLEETS(1): <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

