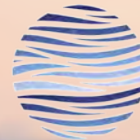




GROOM II PROJECT / GROOM - RI

Gliders for Research, Ocean Observations and
Management: Infrastructure and Innovation

Laurent MORTIER



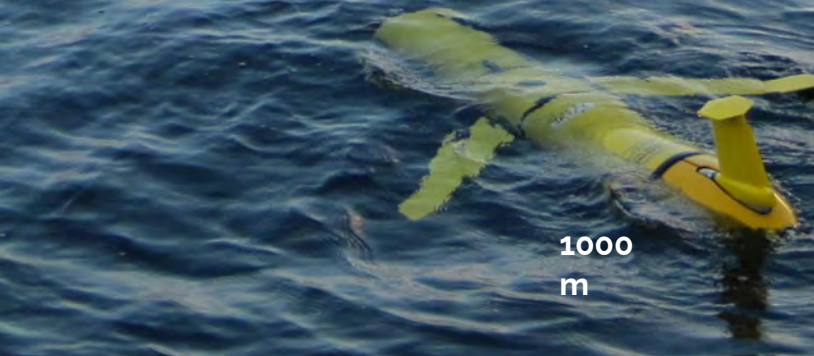
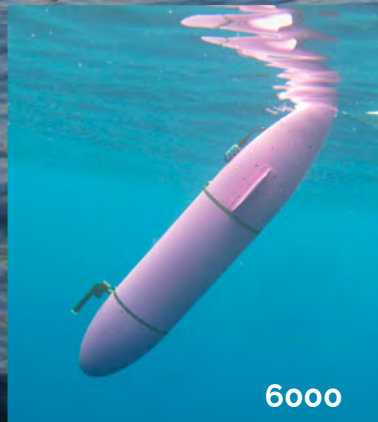
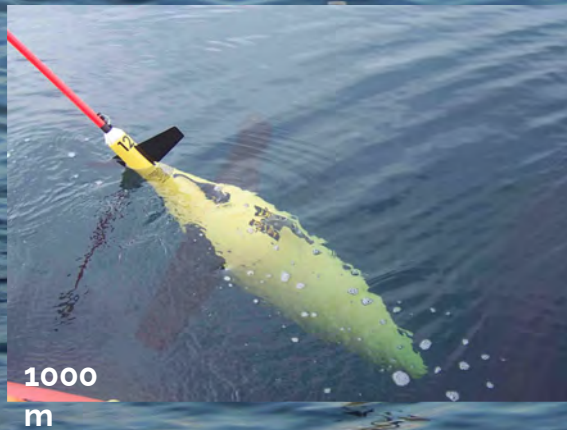
9th EuroGOOS International Conference: May 5th, 2021



This project has received funding the European Union's Horizon 2020 research and innovation programme under grant agreement No 951842.

State of the art commercial underwater gliders and new deep ones

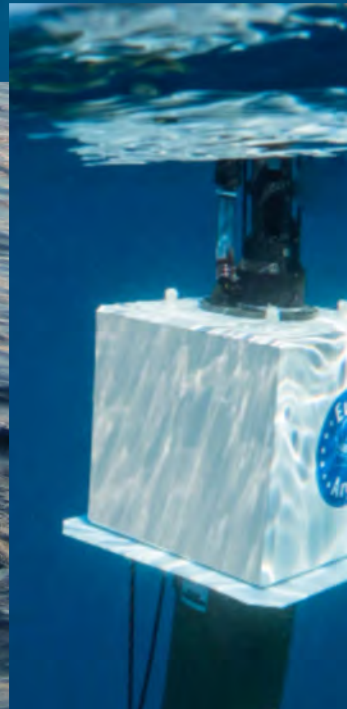
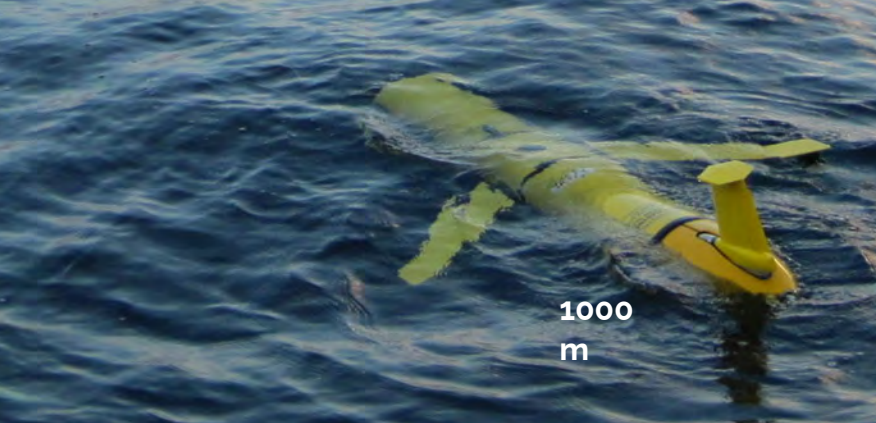
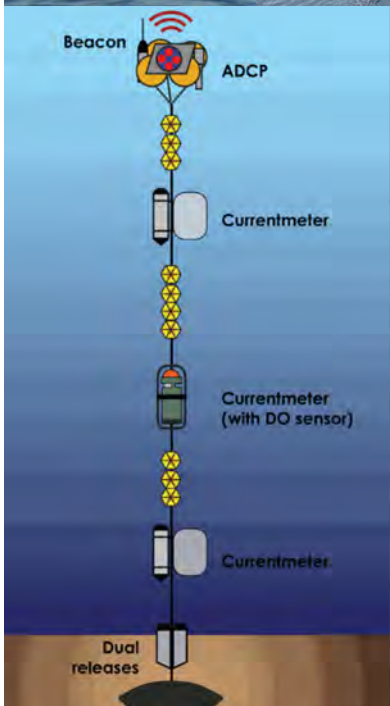
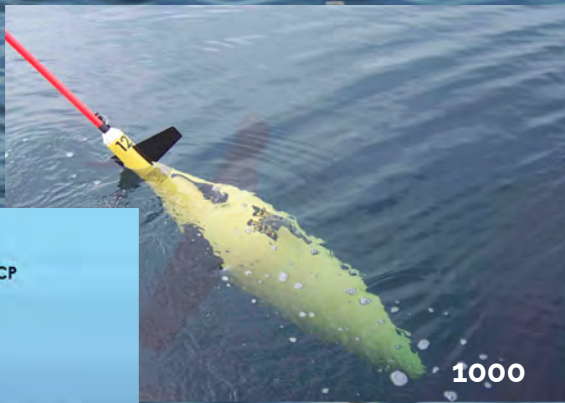
...



GROOM II

GLIDERS FOR RESEARCH, OCEAN OBSERVATION & MANAGEMENT - INFRASTRUCTURE AND INNOVATION

Strong commonalities with Argo profilers and OceanSITES moorings



GROOM HISTORY AND COMMUNITY

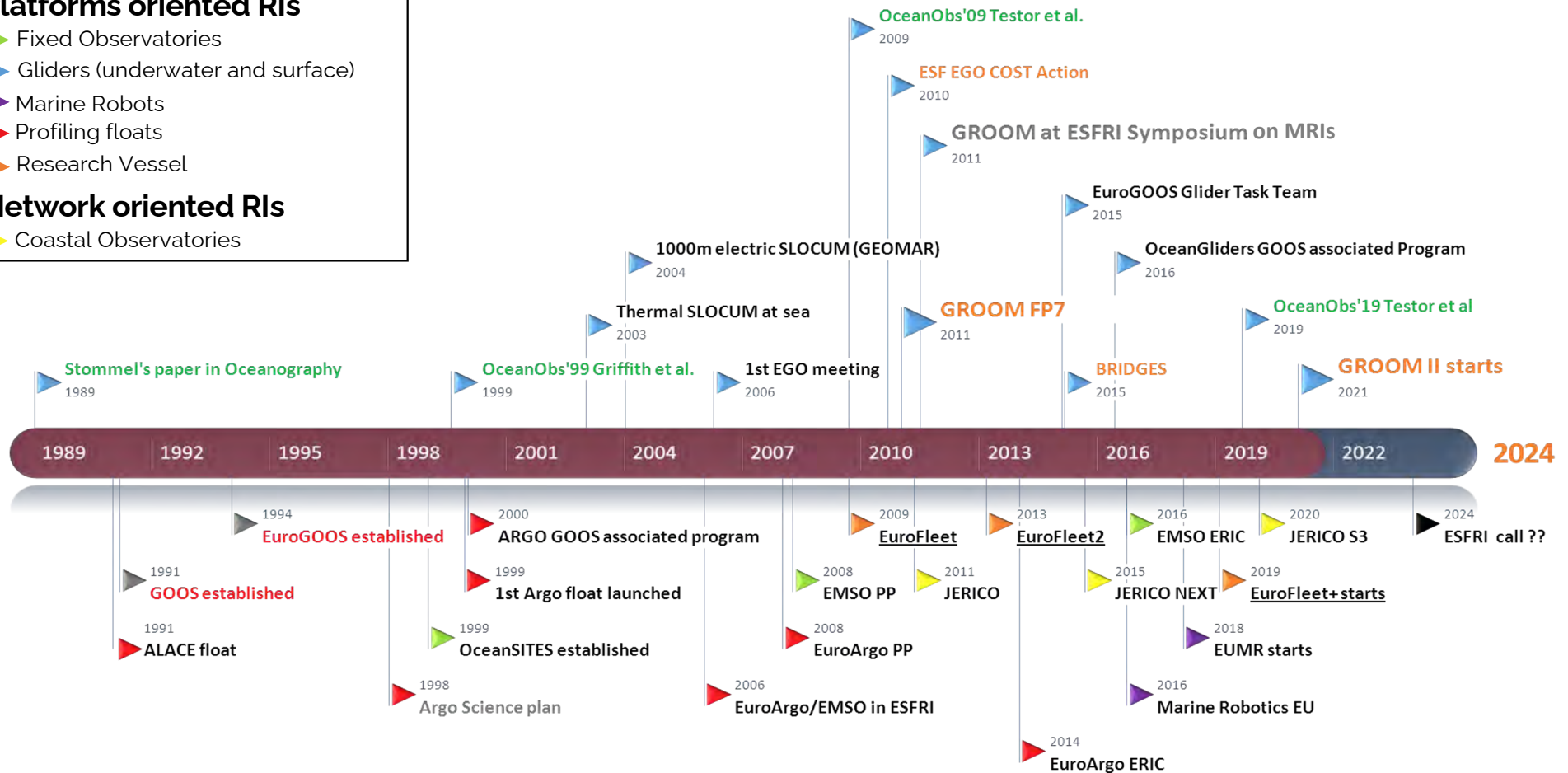


Platforms oriented RIs

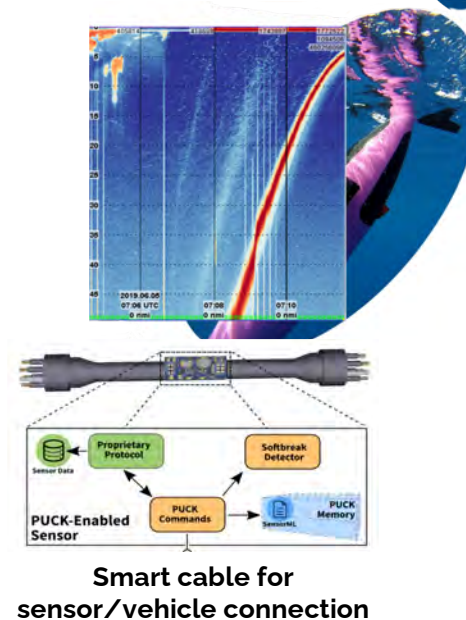
- ▶ Fixed Observatories
- ▶ Gliders (underwater and surface)
- ▶ Marine Robots
- ▶ Profiling floats
- ▶ Research Vessel

Network oriented RIs

- ▶ Coastal Observatories



GROOM Helps developing a European glider industrial sector



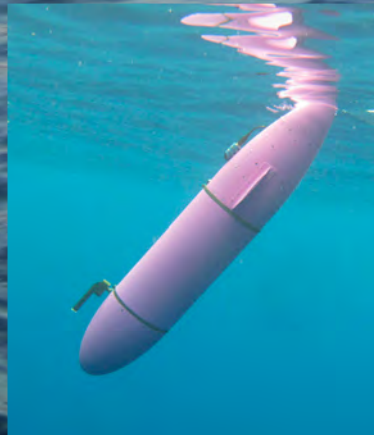
3000m water sampler

- A growing sector routed in the research community at national, Eu and global level
 - CSCS (Cy), Alseamar (Fr), AkvaPlanNiva (No), MTS (Sw), ...
- High potential for research and innovation
 - BRIDGES (deep gliders), BIOGLIDER (advanced imagery), ...
- Services to the research community, the O&G sector (including CCS), the MRE sector, ...
- **Need for better cooperation with other RIs and the marine industrial clusters**
 - TES/EMSO, FCT/JERICO, several national marine clusters, ...





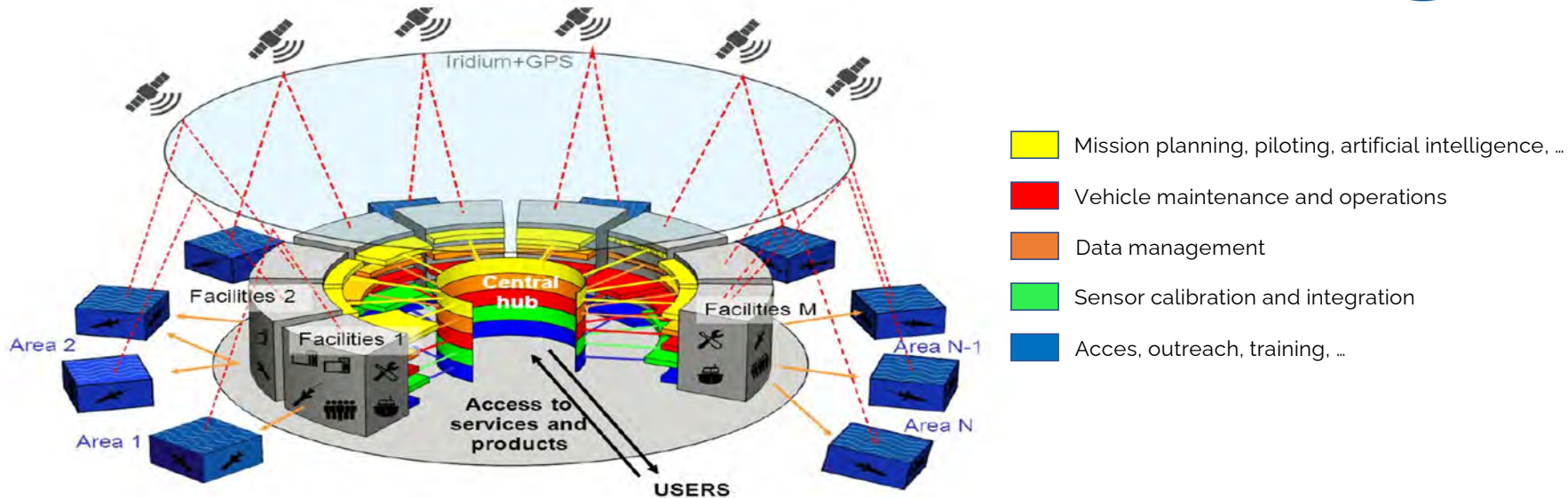
GROOM II now considers underwater gliders but also autonomous surface vehicles and emerging hybrid vehicles...



GROOM II

GLIDERS FOR RESEARCH, OCEAN OBSERVATION & MANAGEMENT - INFRASTRUCTURE AND INNOVATION

GROOM and GROOM II PROJECTS



- GROOM : Central hub and distributed nodes technical organisation
 - *High potential of economy of scales of this approach Strong case for an ESFRI like infrastructure*
- GROOM II : Detailed design of gliders services and user access
 - *Integration of the GROOM-RI in the landscape of European MRIs*
 - *Services for the GOOS, EOOS (including MSFD, ...) and to the Industrial sector*
- GROOM II : Governance and funding
 - *Update technical organization and detailed assessment of economies of scales*
 - *Governance and funding schemes formally designed*
 - *Series of KPI to assess the efficiency of the GROOM-RI (versus a network of rea./nat. facilities)*

GROOM-RI NODES TODAY



24 Nodes (and the new ones to come) with an unified data management scheme and one GDAC at Coriolis-Ifremer



Map showing GROOM-RI capacity to maintain (sustained) observatories in most of the EuroGOOS ROOS and beyond

**Thank you for your
attention!**



For more information :

- contact@groom-h2020.eu
- Twitter : @GROOM2RI
- www.groom-h2020.eu

