GROOM II
GLIDERS FOR RESEARCH, OCEAN OBSERVATION & MANAGEMENT : INFRASTRUCTURE AND INNOVATION

EuroSea

EuroGOOS
European Global Ocean Observing System

European Data Management Workshop

21st June 2022

Focus on Real Time data management of Temperature and Salinity

These projects have received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 951842 and No 862828

Agenda

- Introduction – 15 to 20 min
  - *Real Time Data Management of Temperature and Salinity by Victor Turpin*
  - *OceanGliders Salinity SOP by Soeren Thomsen*
  - *Live Notes via HackMD by Callum Rollo*
  - *Collection of issues by users*
- Discussion – 1h
- Wrap up – 15 min

GROOM RI
GLIDERS FOR RESEARCH, OCEAN OBSERVATION & MANAGEMENT: INFRASTRUCTURE AND INNOVATION

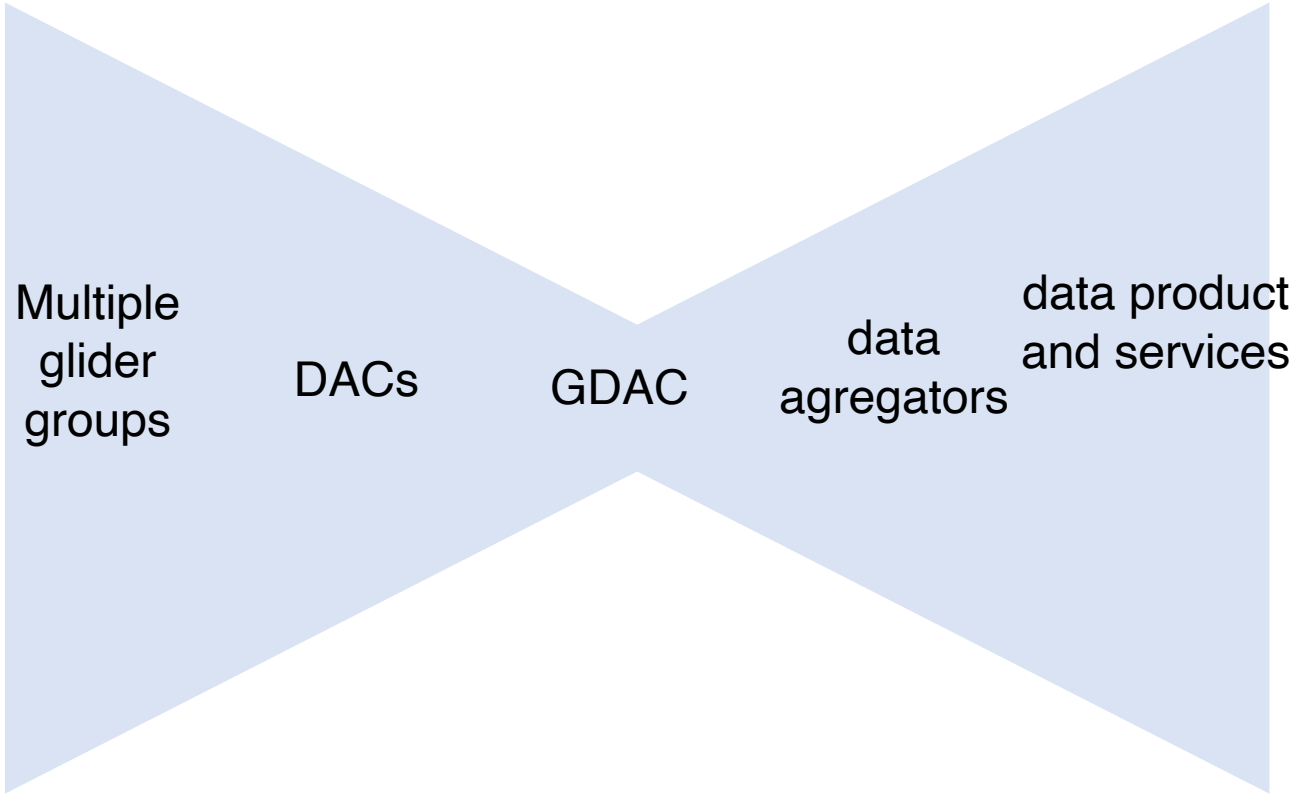
EuroSea

EuroGOOS
European Global Ocean Observing System

I. objectives

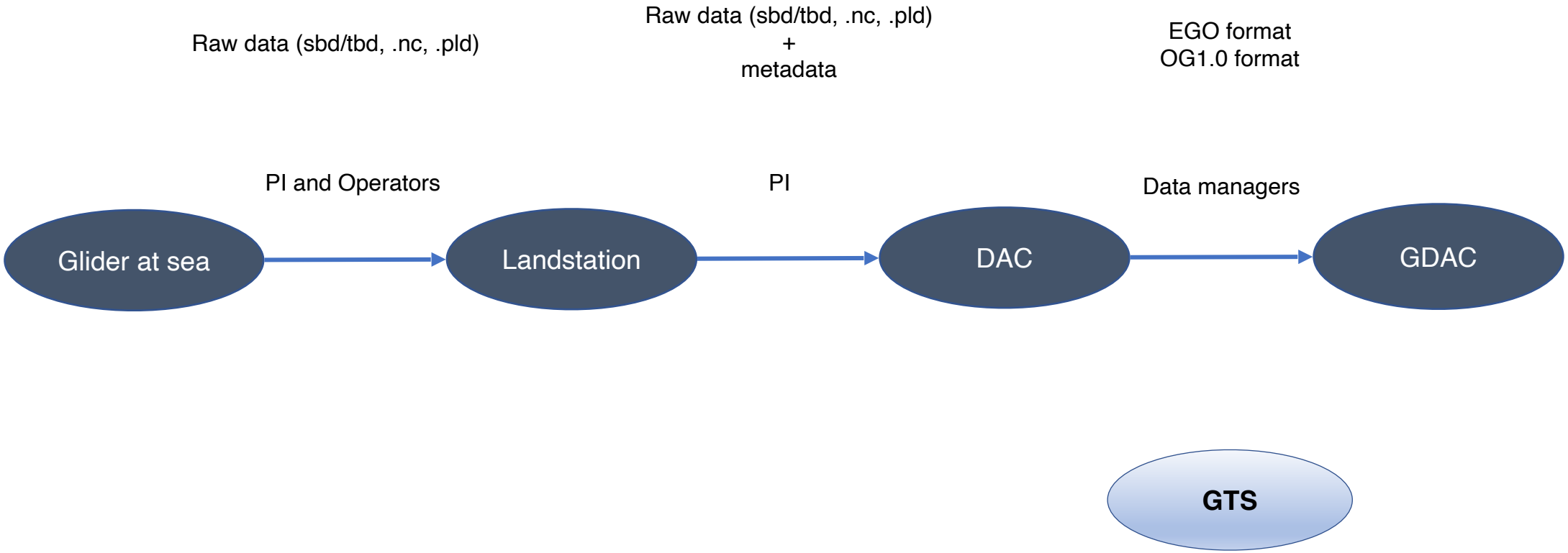
- Raise and share issues related to real time data management of temperature and salinity.
- Identify needs and requirements from the operating community to facilitate real time data flow of T and S.
- Discuss the solutions to get rid of / limit the impact of those issues in operators and Pis

I. Data flow

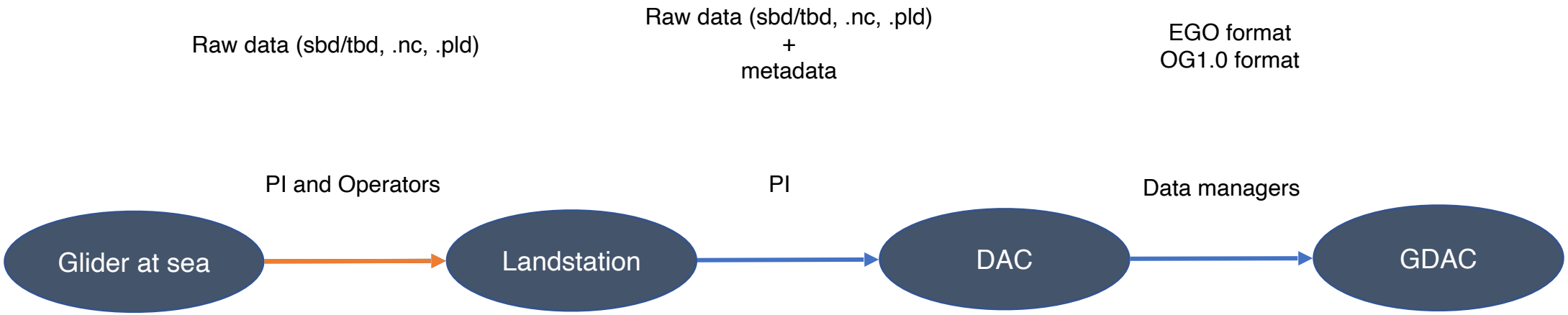


The GROOM I Real Time Data Management butterfly

Real Time Data flow



Real Time Data flow – sampling strategy



Is there any sampling strategy or scheme to serve specific needs (e.g. data assimilation community ?)

Why do we need initial CTD cast ?
How to reference it ?
How to apply correction on temperature and salinity data ?

GTS

Real Time Data flow - metadata

Raw data (sbd/tbd, .nc, .pld)

Raw data (sbd/tbd, .nc, .pld)
+
metadata

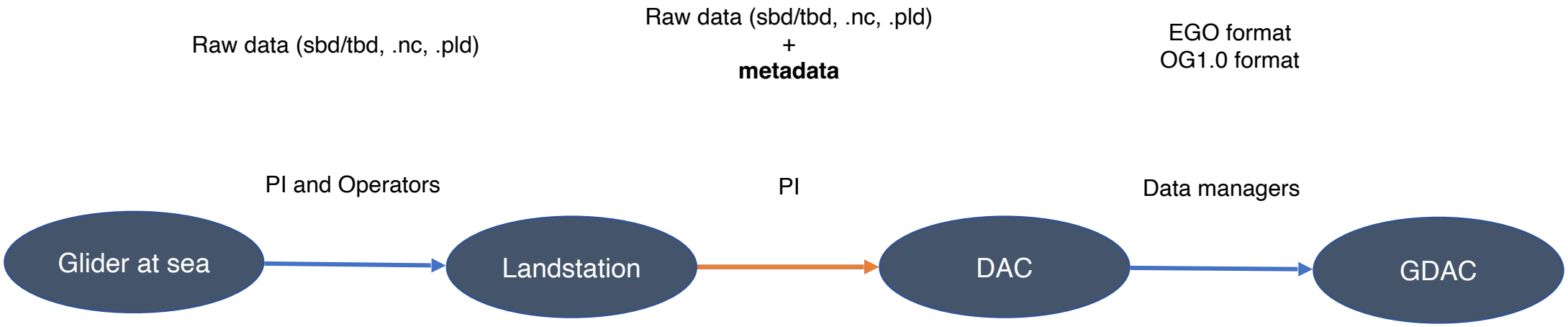
EGO format
OG1.0 format

metadata?

What are the required metadata to make the most of T and S in real time?

GTS

Real Time Data flow - sensors



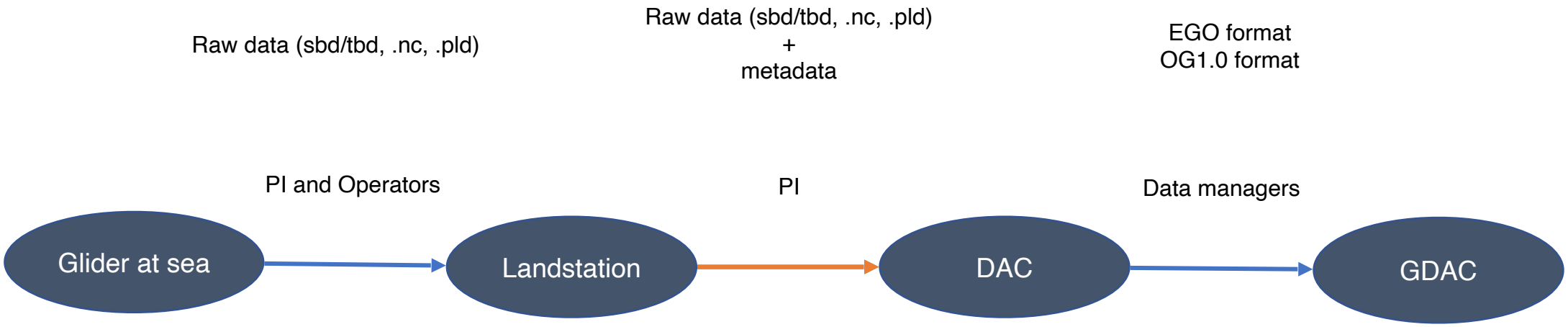
Sensors ?

Impact on data quality and data management of the pumped and unpumped CTD ?

The case of RBRLegato3 and new sensors ?

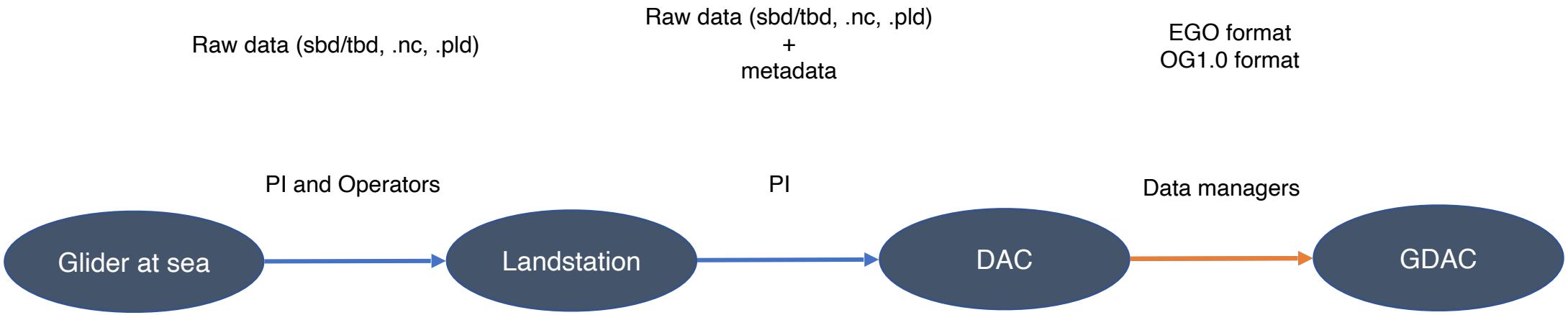
GTS

Real Time Data flow – the case of the Coriolis processing chain



Is there difficulties to convert from sbd/tbd to .m .dat ?

Real Time Data flow - RTQC



Real time QC ?

What kind of QC do we want/need to apply on T and S in real time?

What kind of correction can we apply on T and S in real time? – (thermal lag)

Real Time Data flow - GTS

Raw data (sbd/tbd, .nc, .pld)

Raw data (sbd/tbd, .nc, .pld)
+
metadata

EGO format
OG1.0 format

GTS

How to reach GTS ?
The procedure ?
The format ?

https://github.com/OceanGlidersCommunity/Salinity_SOP by Soeren Thomsen

II. The OceanGliders Salinity SOP

Take the floor and or use the chat

Live Notes via HackMD by Callum Rollo
https://hackmd.io/Aa_HBq_4SxG_07iGg0I-QQ?view
To report live about issues and discussions

III. The tools

IV. Discussion

- The “Experts”
  - *Isabelle Giddy – Polar Glider - Sweden, (Salinity SOP)*
  - *Corentin Guyot – Coriolis – France (Coriolis GDAC, data flow)*
  - *Callum Rollo – Voto – Sweden (Github / GliderTools)*
- Potential questions to guide the discussion
  - *Community feedback on the data flow ? Where are your difficulties in providing gliders data to Coriolis GDAC ?*
  - *How can we improving the Real Time data flow ? Where are the bottlenecks ?*
  - *Shall we extend the required metadata to make the most of real time temperature and salinity ?*
  - *Specific requirement from the data assimilation community ?*
  - *How to improve the quality of the Real Time data ? Thermal lag correction ? Real Time QC ?*
- Wrap up – 15 min

GROOM RI
GLIDERS FOR RESEARCH, OCEAN OBSERVATION & MANAGEMENT INFRASTRUCTURE AND INNOVATION

EuroSea

EuroGOOS
European Global Ocean Observing System

For more information :

contact@groom-h2020.eu

Twitter : @GROOM2RI

www.groom-h2020.eu