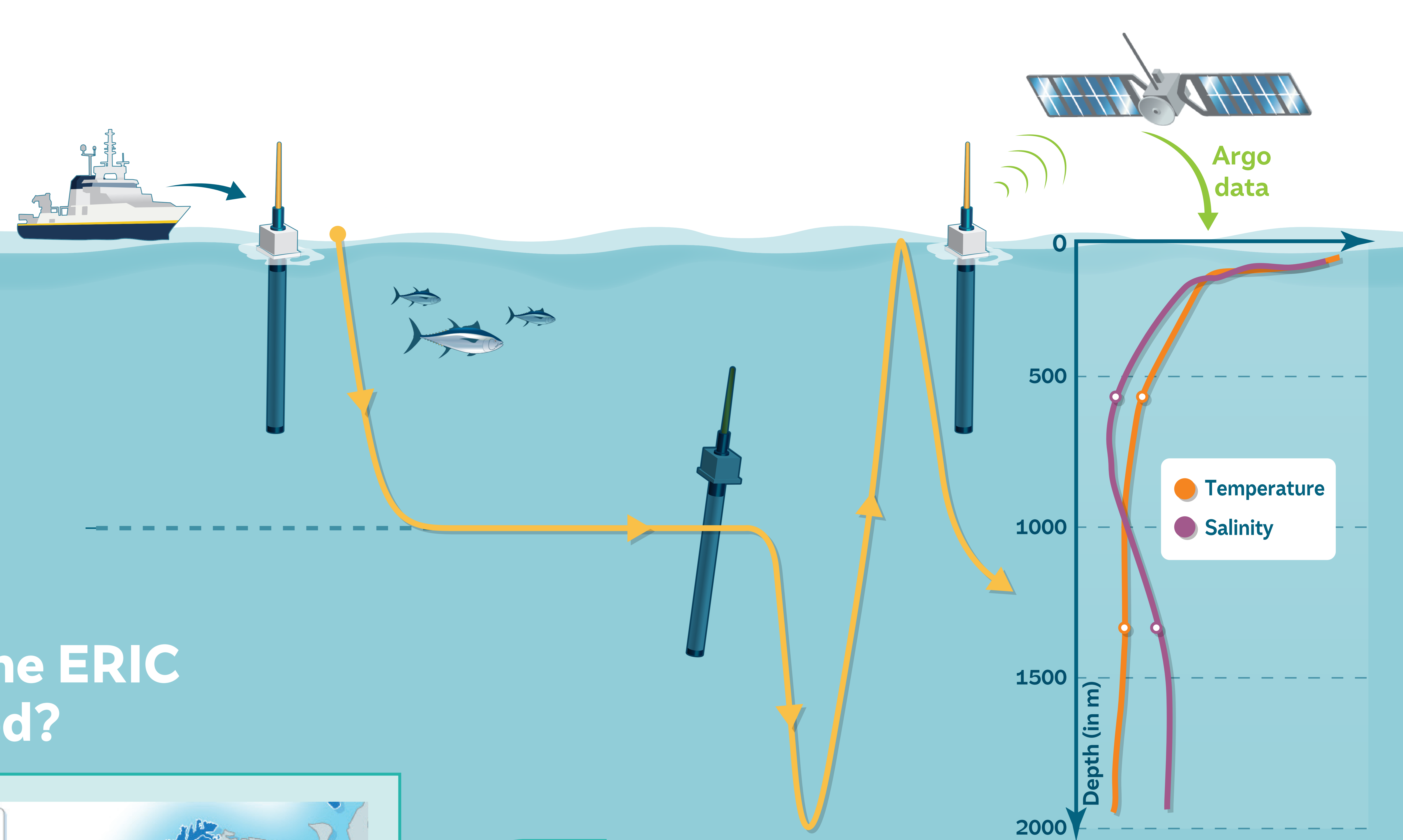




# EUROARGO

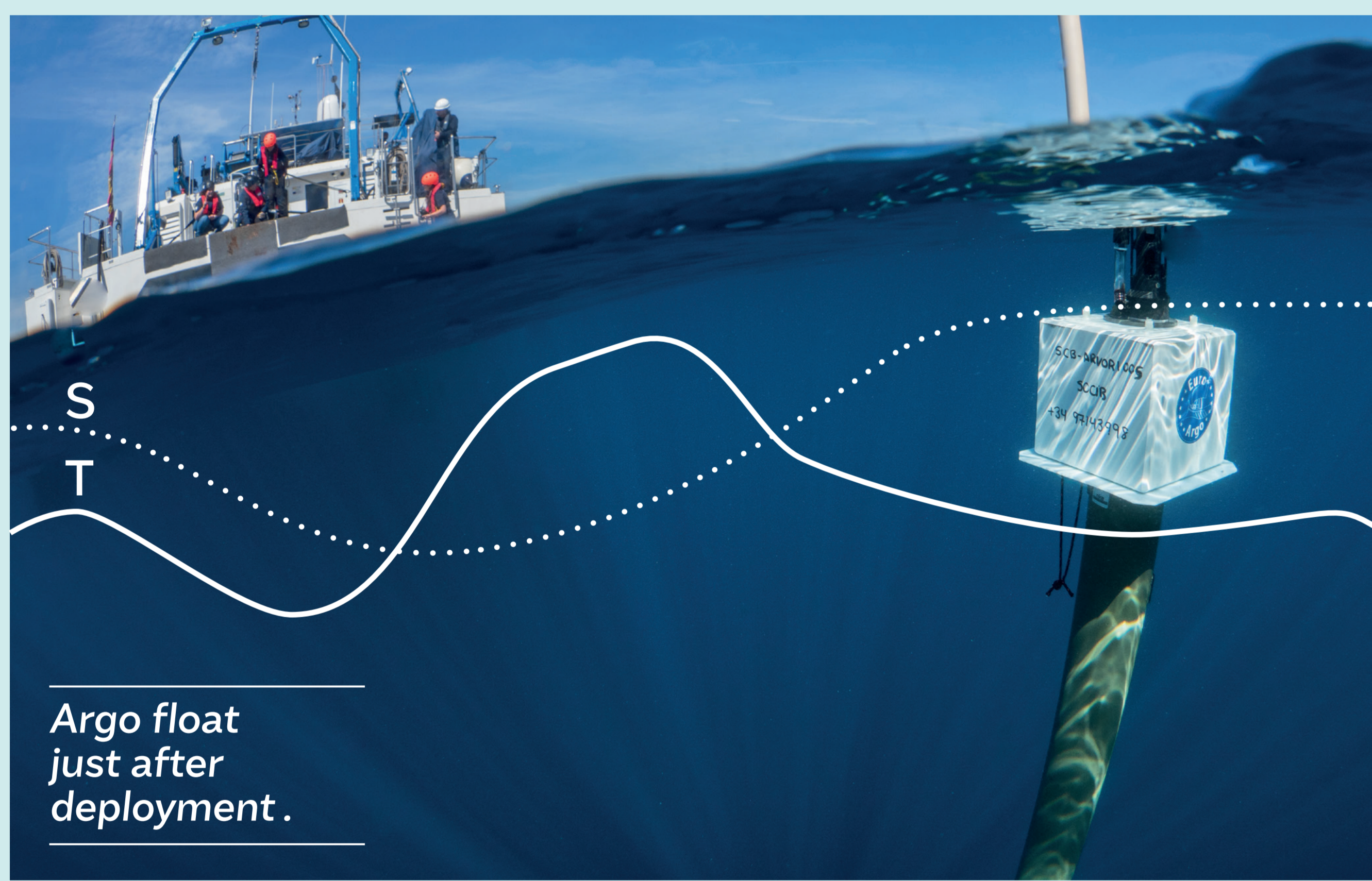
EUROPEAN RESEARCH  
INFRASTRUCTURE CONSORTIUM  
FOR OBSERVING THE OCEAN, TO BETTER  
UNDERSTAND AND PREDICT ITS ROLE  
IN THE CLIMATE SYSTEM AND ITS HEALTH



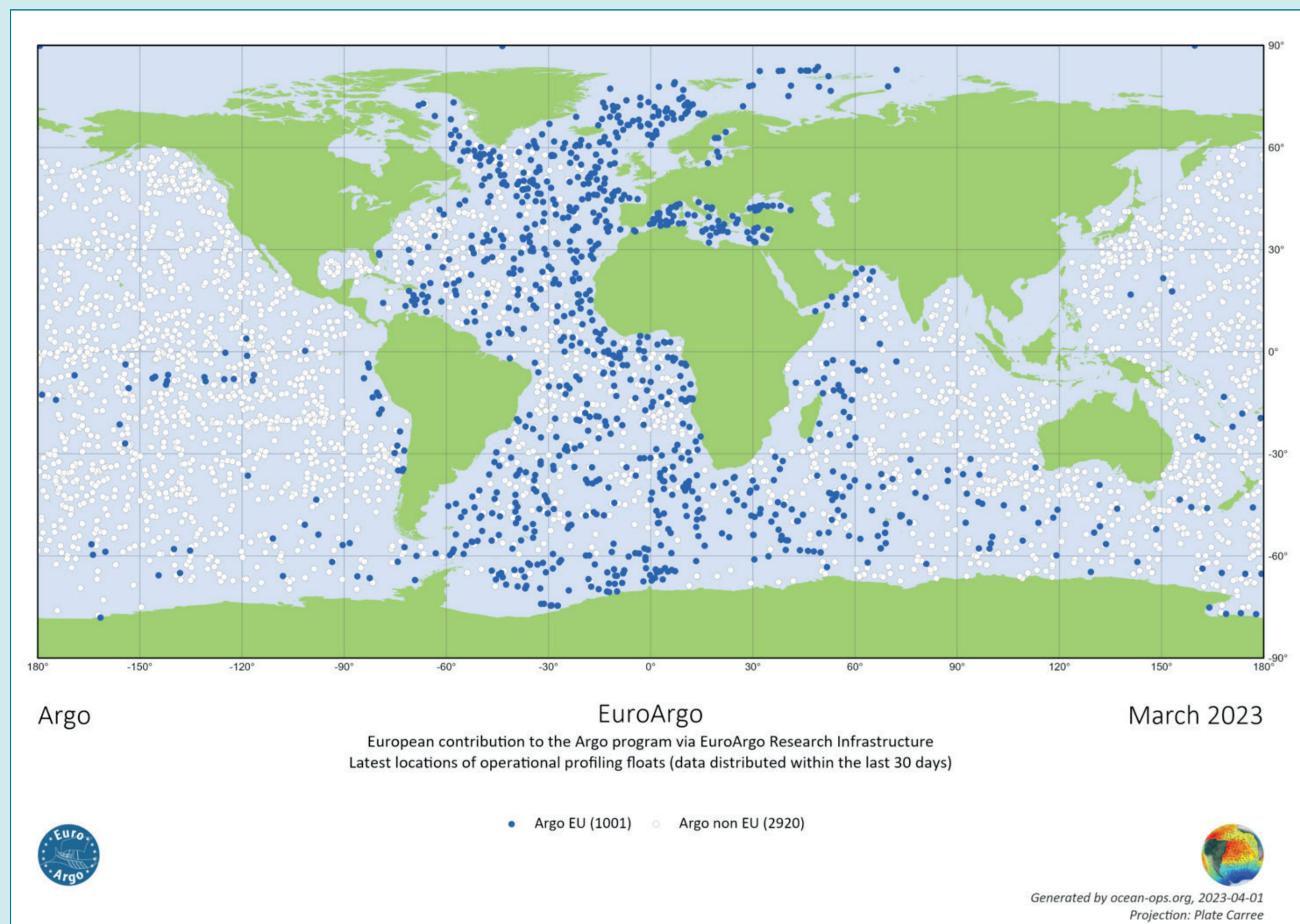
## What is Euro-Argo ERIC?



- Euro-Argo ERIC is the Research Infrastructure coordinating and strengthening the **European contribution** to the **international Argo programme**.
- Argo is a global real-time in situ ocean observing network, of about **4,000 autonomous floats worldwide**, performing recurring vertical profiles of the water column while drifting in the oceans.

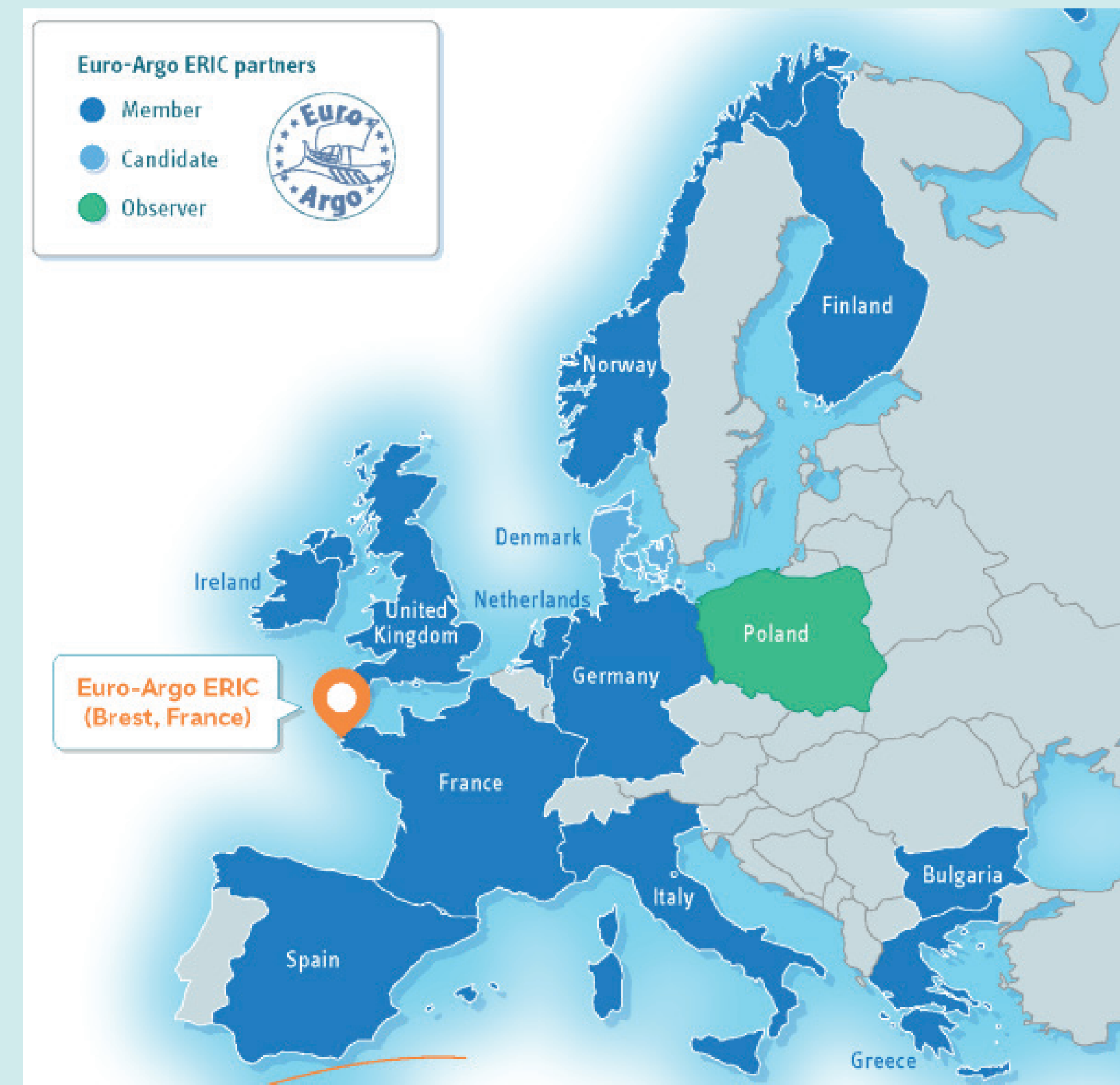


- Argo floats carry sensors to report **temperature, salinity, deep ocean currents** and up to **six biogeochemical parameters** (oxygen, chlorophyll a, suspended particles, downwelling irradiance, nitrate, and pH).



- Euro-Argo ERIC aims at providing, deploying and operating **25% of the Argo floats network** that provide an unprecedented **free and open quality-controlled dataset**.

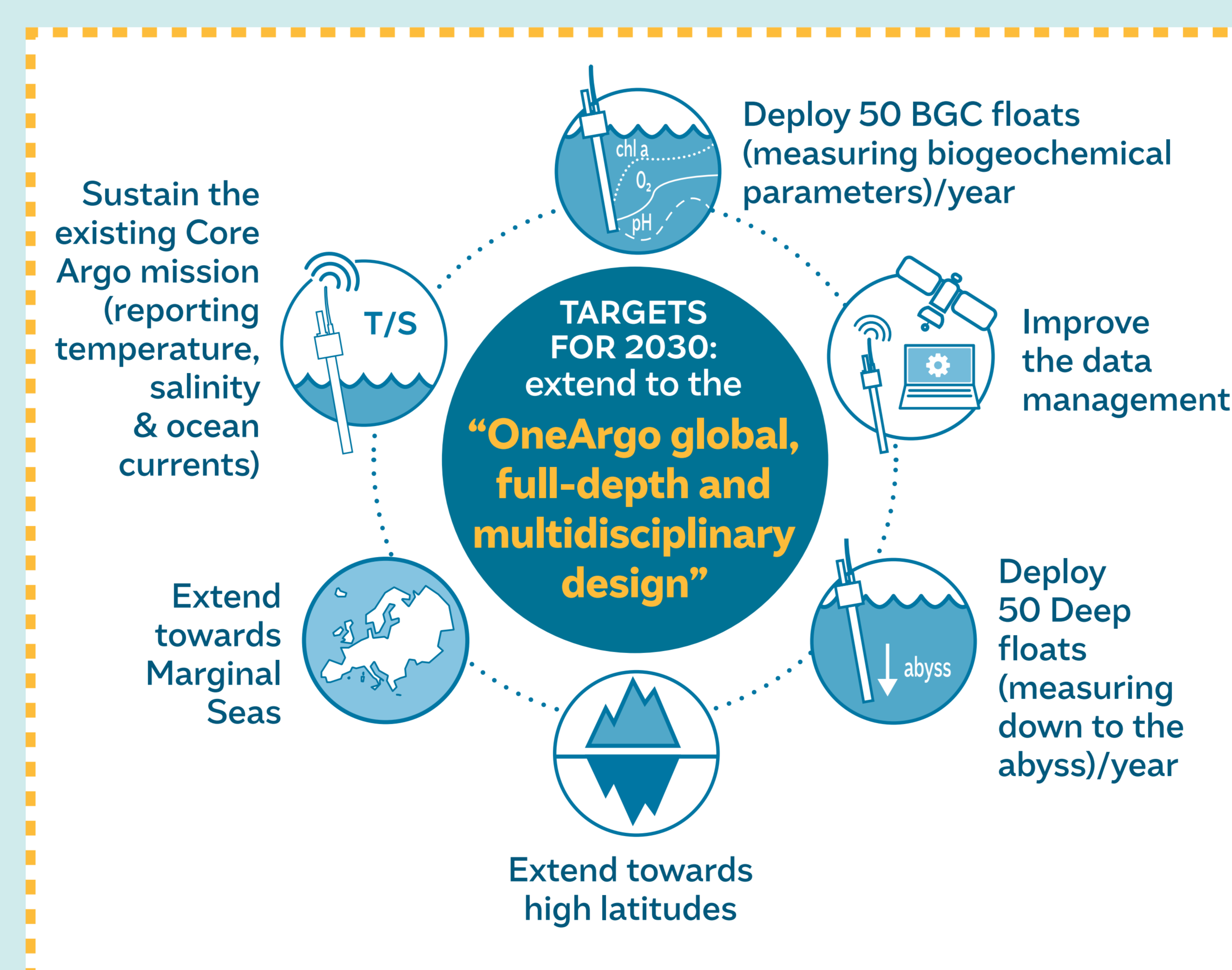
## How is the ERIC organised?



- The Euro-Argo ERIC is composed of **12 countries**, and its coordination is managed by the Euro-Argo ERIC Office, hosted by Ifremer (France).



- Euro-Argo Office **federates and optimizes this European effort** through various **centralised activities**: floats procurement and deployment, floats testing, at-sea monitoring, integrated data processing & access and joint outreach & trainings.



- Euro-Argo also aims at extending its geographic coverage in **areas of European specific scientific interest** and at developing a long-term, sustainable European contribution to the **OneArgo global ocean monitoring system**.

## What are Argo data applications?

**Argo floats produce free and open-sourced data**

**For weather, climate and ocean prediction**

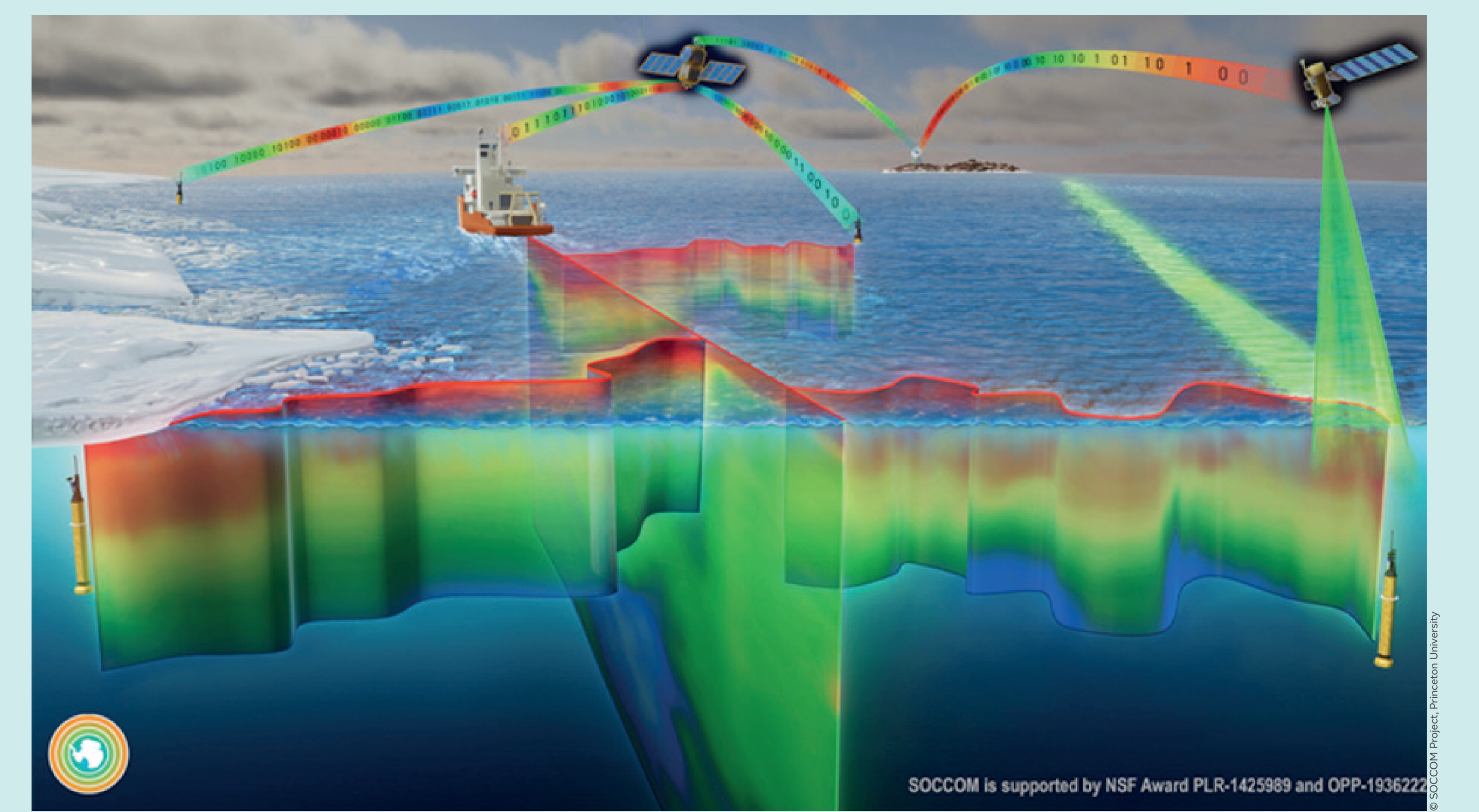
The data are used by operational services: Argo data improve the accuracy of the ocean forecasts and are critical for developing reliable seasonal to decadal climate predictions. Argo is a game changer in terms of ocean observations.

**For climate change mitigation**

Scientists use these data for societal benefit: One of Argo's most important scientific contribution is a huge improvement in the estimation of heat stored by the oceans - key for understanding global warming, rising sea levels and ocean health.

**Positive impacts on the environment and society**  
Contribution to 2 of the 17 Sustainable Development Goals (SDGs) adopted by all United Nations Member States in 2015.

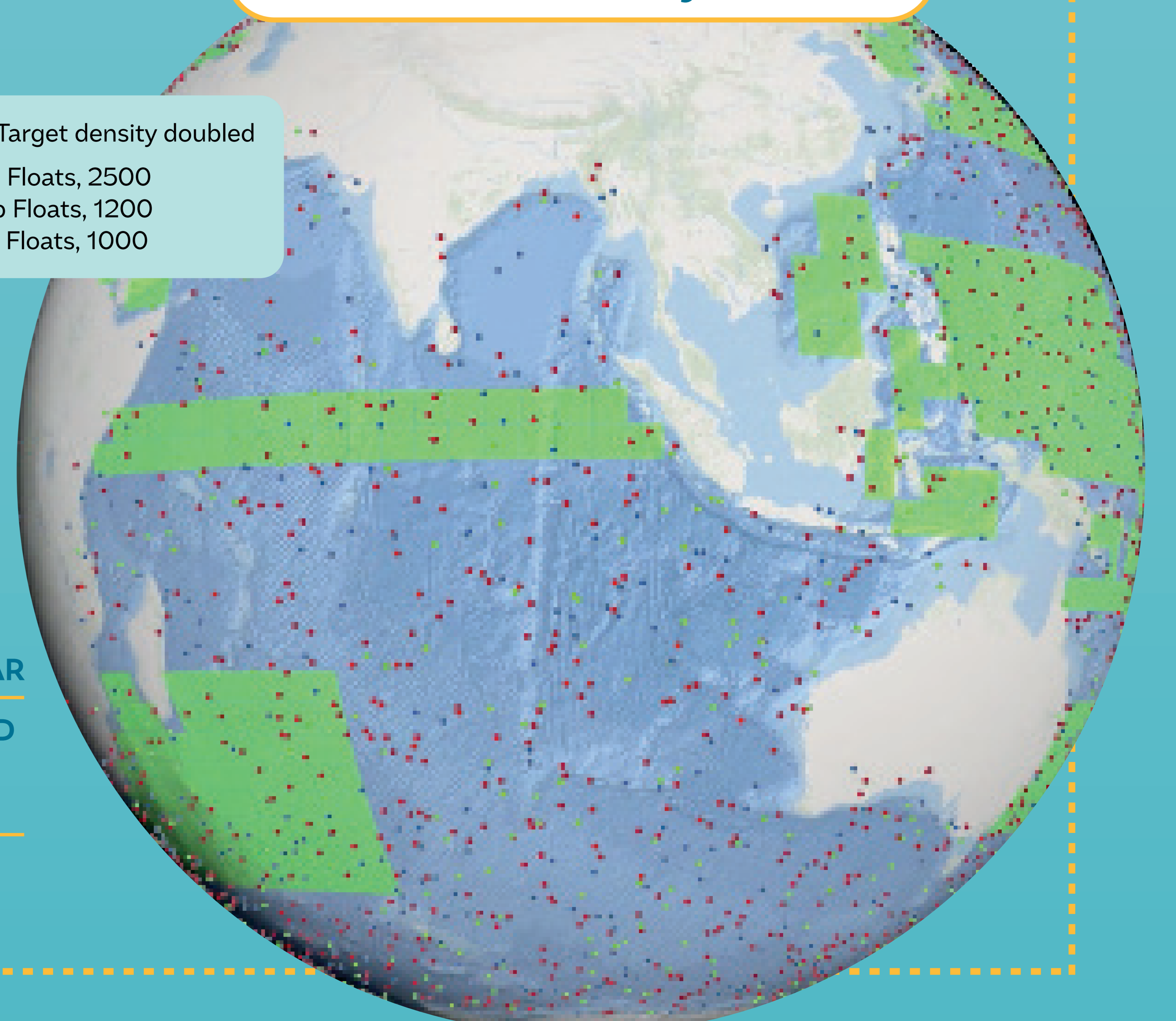
- Argo data are used by a wide range of scientific and operational teams.



- Euro-Argo is the single most important in situ infrastructure required for the **Copernicus Marine Service**. It delivers critical data **complementary to satellite observations** for assimilation in **ocean analysis and forecasting models**, as well as in **weather and climate forecasting**.
- Euro-Argo also provides a major contribution to the **European Marine Observation and data network (EMODnet)** and to the **EU integrated maritime policies**.
- Euro-Argo plays a crucial role in **calibration and validation of satellite data**.

## OneArgo and its network of 4700 floats by 2030

- Target density doubled
- Core Floats, 2500
- Deep Floats, 1200
- BGC Floats, 1000



- The Argo international program's success is mainly due to the high degree of **international cooperation** and **European partners have played a crucial role in setting up and developing the Argo network**.
- Argo reflects an international recognition of the need to continuously observe key environmental parameters of global change in 3D. Euro-Argo enables Europe to contribute to the **1/4<sup>th</sup>** of the effort required.
- By 2033 Euro-Argo ERIC will have **revolutionised the European capacity of observing the interior of the ocean** from the surface to the abyss, inspiring the science we need for a **sustainable ocean** and contributing to **society's wellbeing and resilience**.

**800-1000 FLOATS DEPLOYED/YEAR**

**DATA REPORTED EVERY 10 DAYS**

**FLOAT LIFETIME OF ~5 YEARS**