OUTCOMES

- Understanding coastal and open ocean blue carbon habitats
- Quantification of CO_2 sequestration trends
- Identification of blue carbon hotspots
- Understanding climate change impacts on carbon sinks
- Assessment of polar ocean mitigation potential
- Formulation of strategies towards polar habitat management

@POMP_EU @POMP_EU

POMP - Polar Ocean Mitigation Potential

Grant Agreement 101136875 – POMP (Polar Ocean Mitigation Potential) POMP project has been approved under HORIZON-CL6-2023-CLIMATE-01-3: Ocean and coastal waters carbon- and biodiversity-rich ecosystems and habitats in Europe and the Polar Regions. Funded by the European Union. Views and opinions expressed are however those of the authors only and do not necessarily reflect those of the European Union or UK Research and Innovation. Neither the European Union nor the granting authority can be held responsible for them.

Funded by the European Union

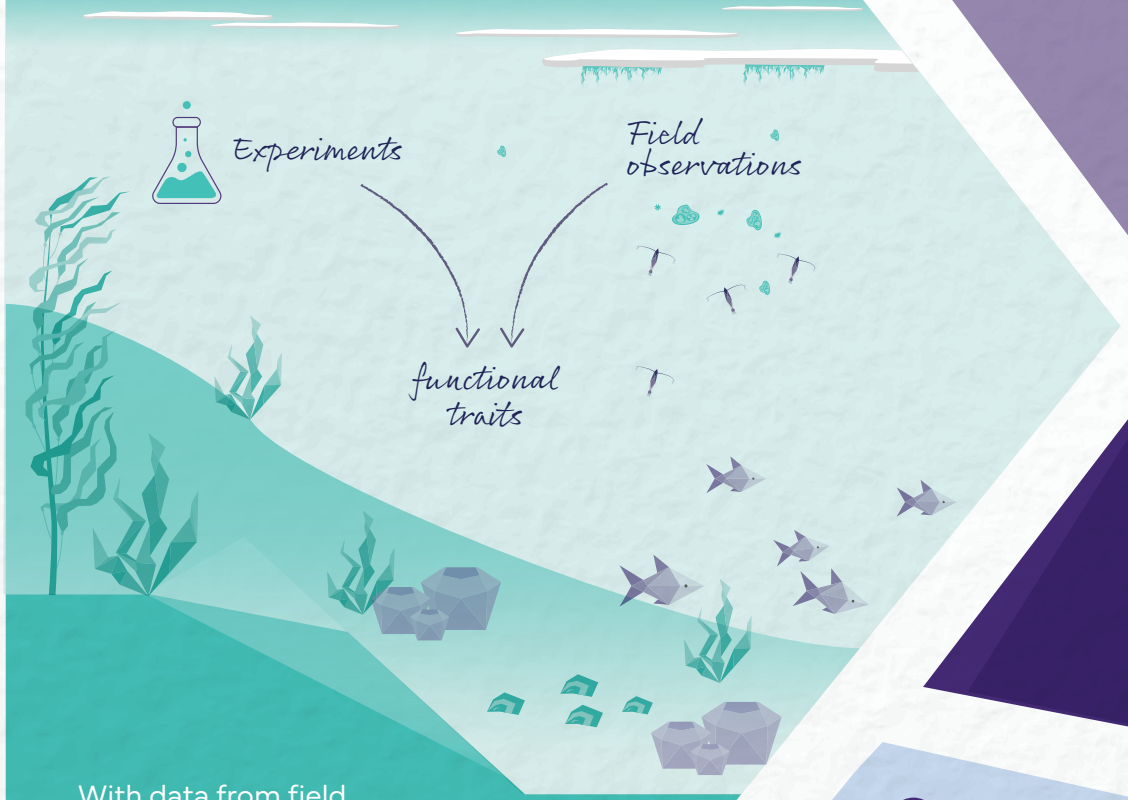
UK Research and Innovation

Polar Ocean Mitigation Potential

POMP will measure change in polar ecosystems, especially their capacity to take up and store CO_2 emissions and reduce greenhouse gases in the atmosphere.

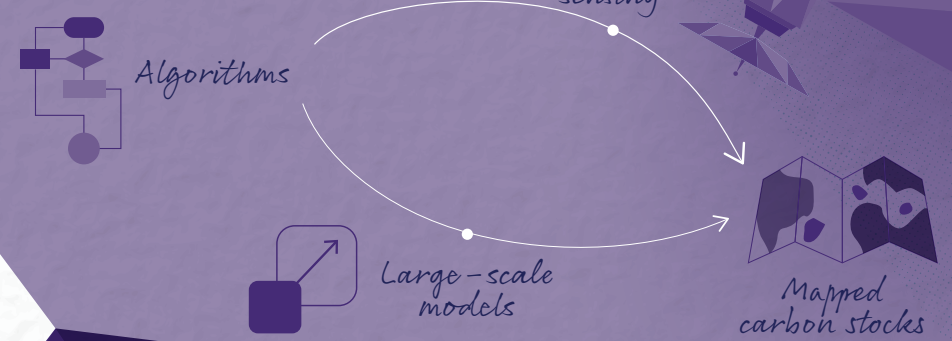
https://pomp-project.eu/

1 ASSESSMENT OF EMERGING BLUE CARBON HABITATS



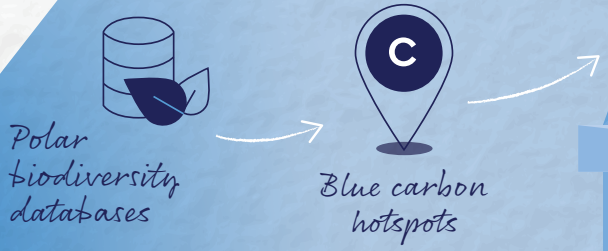
With data from field observations and controlled experiments, POMP will characterise the functional traits of **benthic** and **pelagic** organisms, assess their **carbon uptake and storage** potential, and map and categorise blue **carbon habitats**.

2 UPSCALE KNOWLEDGE TO SYSTEM-LEVEL



Using advanced algorithms to process **remote sensing data** and **large-scale functional models**, POMP will upscale the new knowledge from the assessment phase and **map polar carbon stocks**. This will provide a better understanding of polar habitats, including how they are impacted by climate change.

3 INTEGRATE RESULTS INTO MANAGEMENT ACTIONS



The resulting **databases** on polar functional **biodiversity** and its role in carbon cycles will allow POMP to identify **blue carbon hotspots**. These results will be available for end-users and inform **developing management actions**.