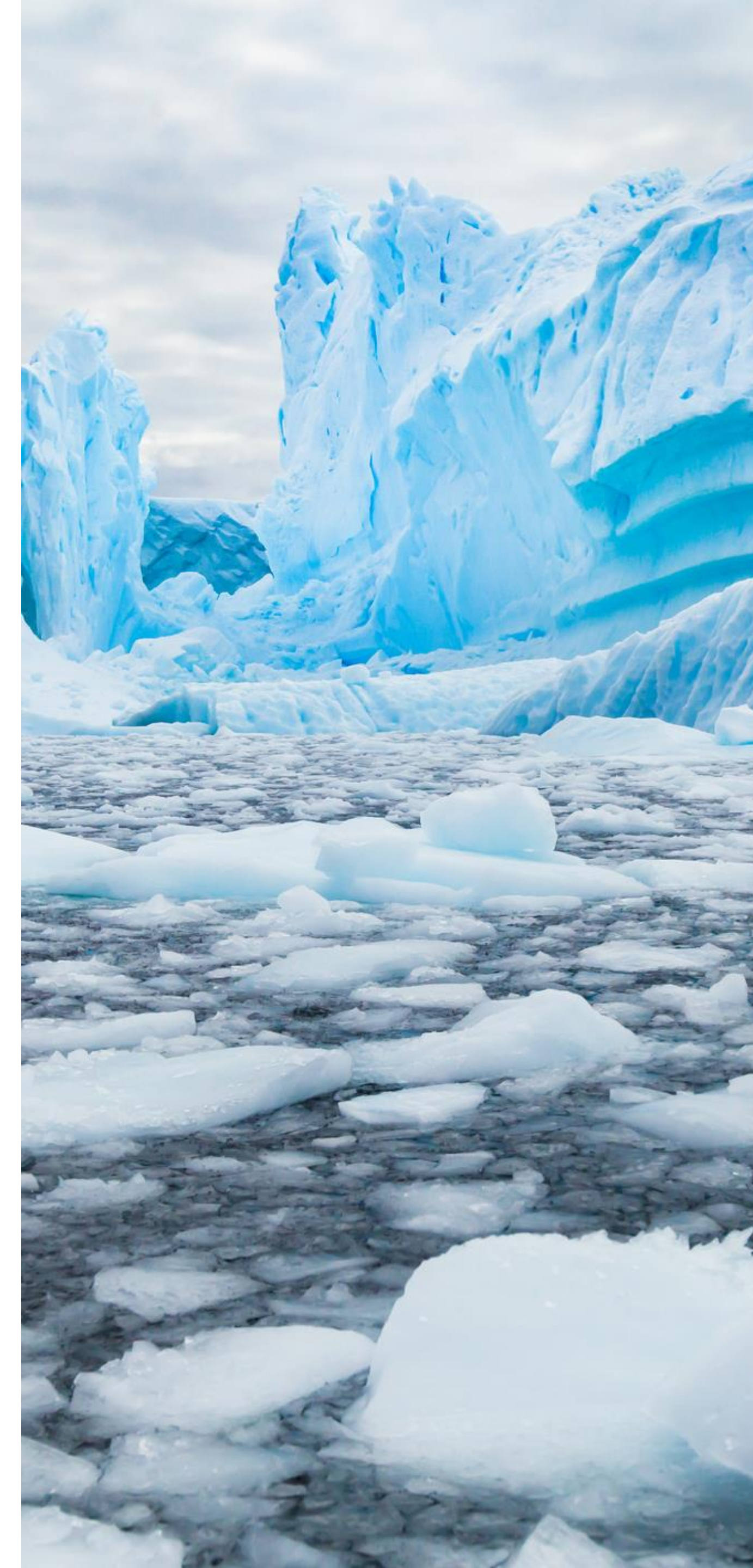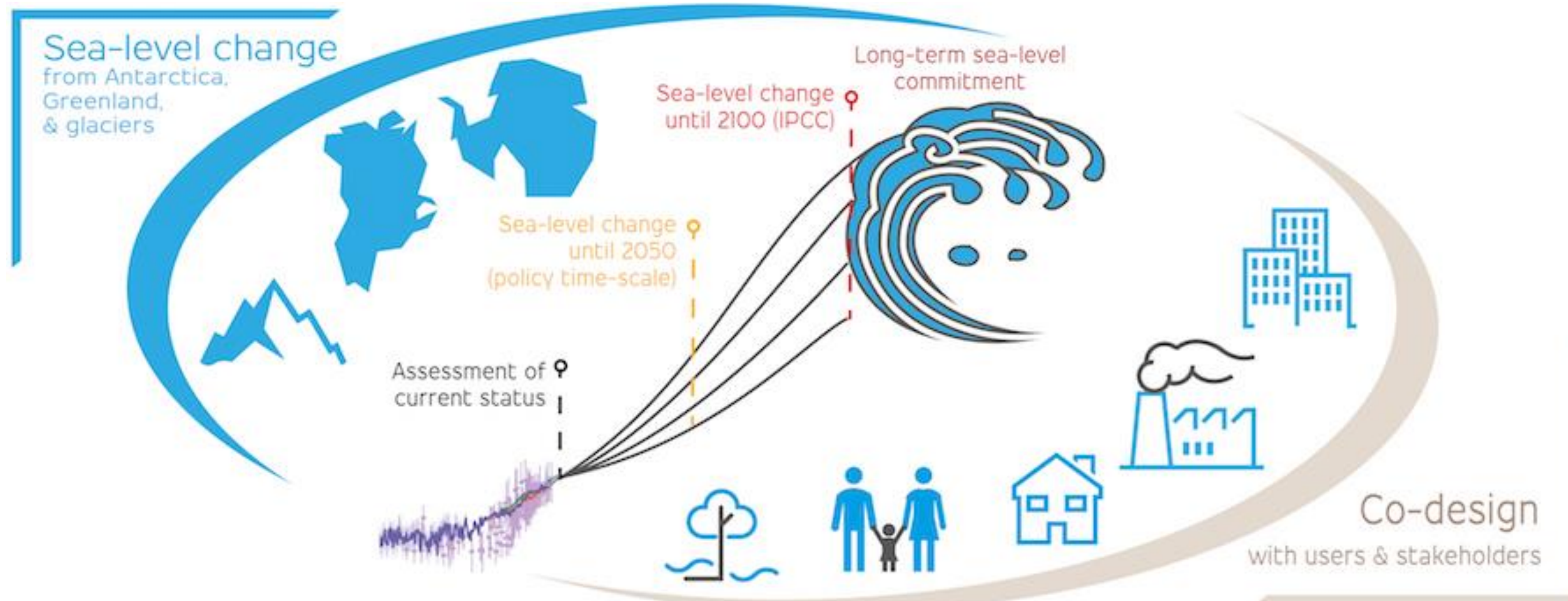# PROTECT – some lessons learned

G. Durand, on behalf of the PROTECT consortium
05/09/2024 – European Polar Science Week

Protect
CRYOSPHERE & SEA LEVEL

PROTECT in a nutshell

Assess and project changes in the land-based cryosphere, with fully quantified uncertainties, in order to produce robust global, regional and local projections of SLR on a range of timescales

> 130 publications (~10% high impact)

EGU inter-journal special issue "Improving the contribution of land Cryosphere to sea-level rise projections"

Widening our expertise…

Cryospheric

Sea-level Impact Practitioners

Climate

Global local

Millenia Decades

Expand the time horizon of each sub-community:
- Focus on 2050 in sheet modeling
- Disseminate the importance of looking on long time scale, minimum/committed SLR -> Policy Brief

PROTECT / COCLICO / SCORE

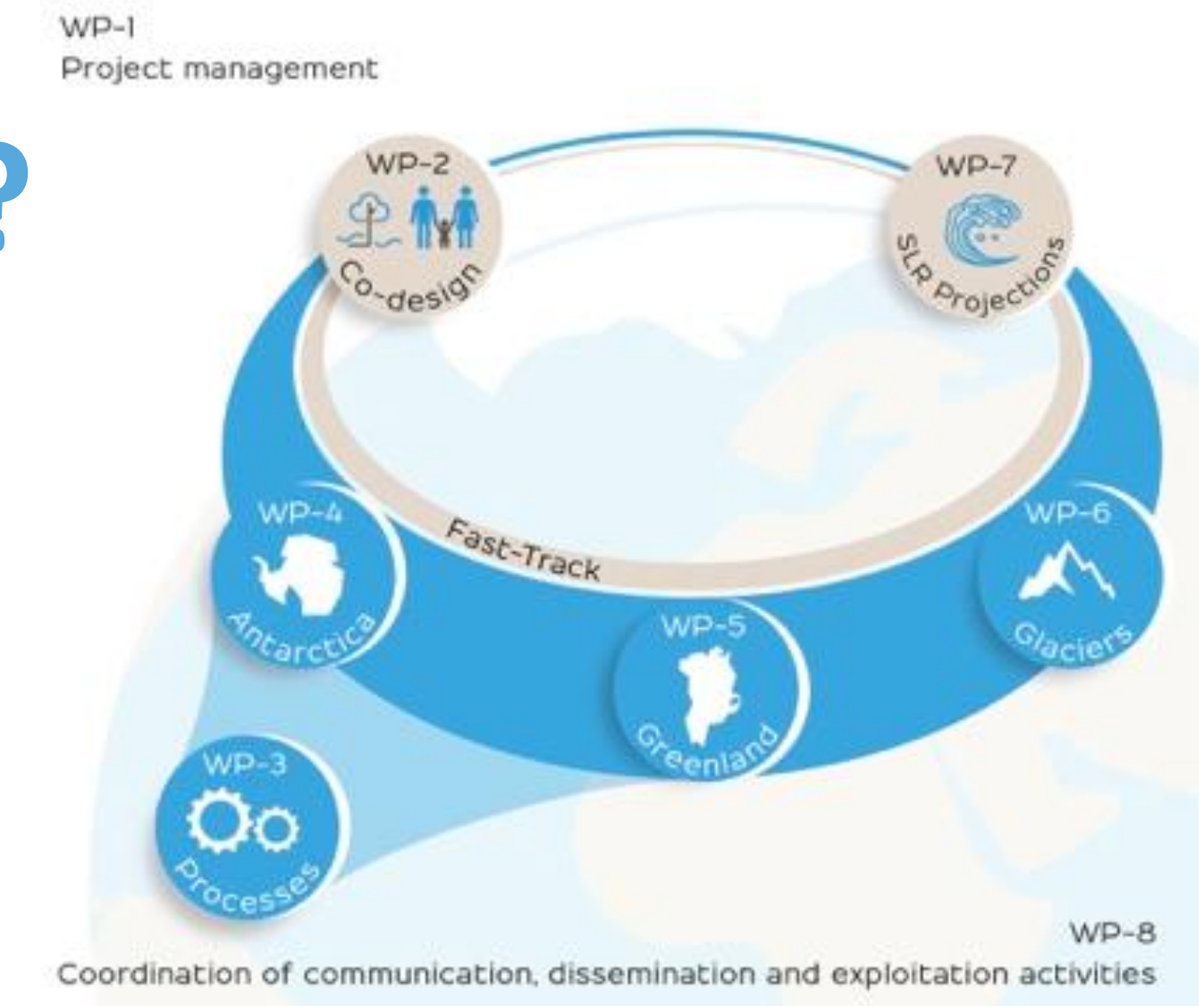When will a 2-metre rise in sea level occur, and how might we adapt?

Fast/Full-Track... What about a Long-term Track ?

WP-1
Project management

WP-2 Co-design · WP-7 SLR Projections

Fast-Track

WP-4 Antarctica · WP-5 Greenland · WP-6 Glaciers

WP-3 Processes

WP-8
Coordination of communication, dissemination and exploitation activities

Objectives of the Fast-Track

- Implement and test the work flow through the cascading expertises ✔️

- Prepare forcing ✔️

- Have time to consult stakeholders/practitioners and adjust our projections to their need ✔️

- Leave time to improve models (e.g. Damage, Calving, Melting, coupling) ✔️ ❌

Developing models takes time!!!
We must balance our efforts between improving models and producing projections