



## Mapping Goals

- Monitoring of Good Environmental Status of marine waters (EU Marine Strategy Framework Directive, MSFD)
   SUMO responsible for:
  - Mapping of broad-scale habitat types (BHT), BCP-wide (mud, sand, coarse sediments, mixed sediments, and gravel)
  - Monitoring of physical loss and disturbance, BCP-wide
- Monitoring physical effects of marine aggregate extraction (ZAGRI/MOZ4)
- Finding and characterizing alternative sand sources (VLAIO SUSANA)

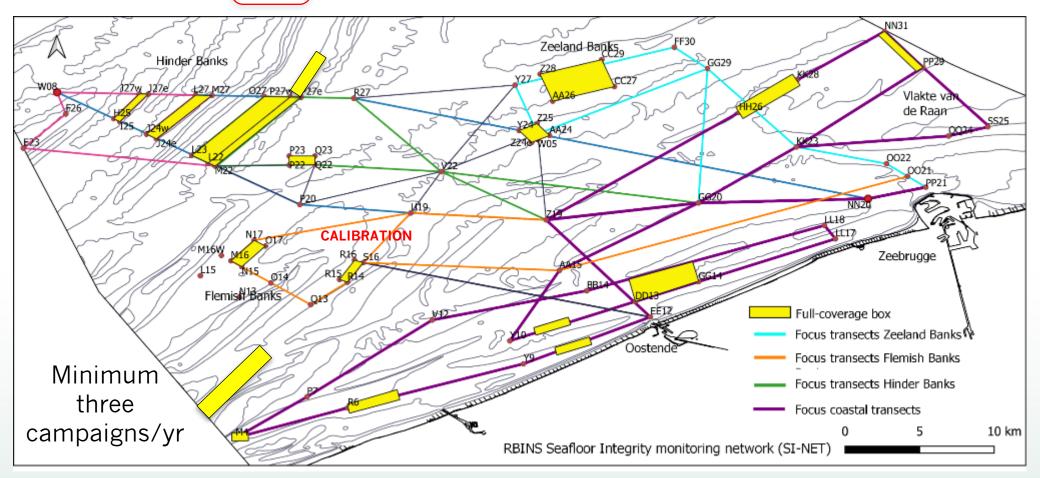
MBES EM2040D
Depth & Backscatter
+TOPAS PS18 SBB

MBES: multibeam echosounding; SBB: subbottom profiling)



2022 2023

- MBES/SBB along Transects + full-coverage box approach
- Ground truthing using boxcoring, hamon grabs, video



- Risk-based mapping of changes in BHT types (mud, sand, coarse sediment, gravel)
- >> Mapping at different spatial scales, and assessing long-term changes
- Complementary to biological monitoring of hard substrata (RBINS MARECO)
- Experience 2022: RV Belgica and Coastal zone surveying suboptimal

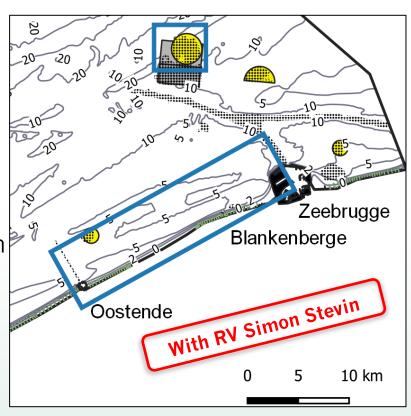




## New cSBO VLAIO project SUSANA **Sustainable use of sand in nature-based solutions**

Alternative sediment sourcing

- Suitability of sediments of S1 disposal ground
- Characterizing zones of persistent sedimentation between Ostend and Zeebruge
- >> MBES/SBB for the planning of vibrocores



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