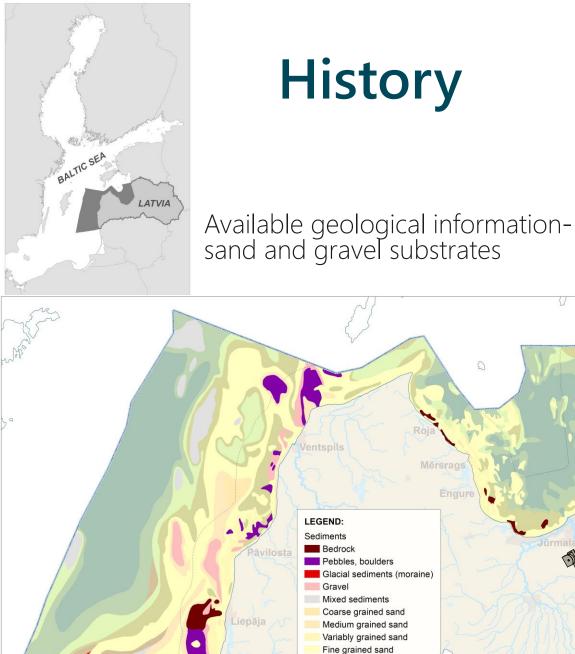
Research of marine protected habitats in EEZ and determination of the necessary conservation status in Latvia - LIFE REEF

> Ingrīda Andersone, Solvita Strāķe Latvian Institute of Aquatic Ecology

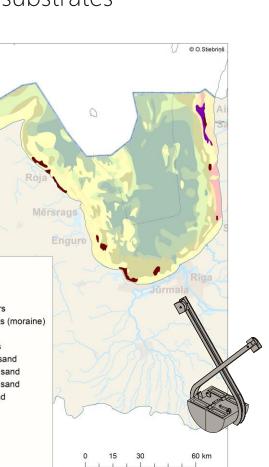


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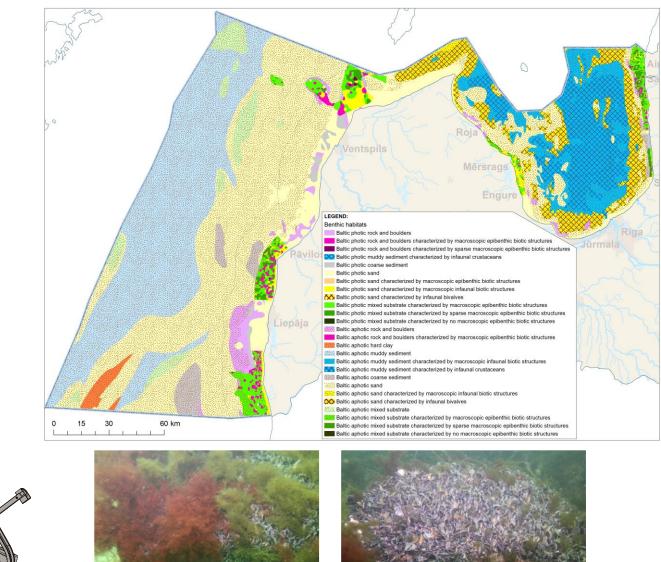


Clay Silt, sandy silt Sandy mud Silty mud

Mud



#### Habitats- Baltic aphotic sand

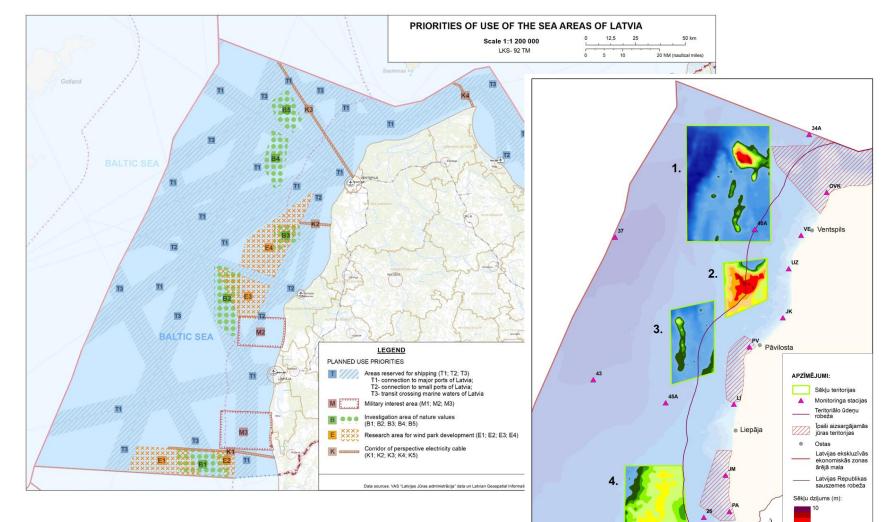


# MSP and MPAs: identification of research areas with unknown natural value in EEZ

• Elevated sandbanks (protected habitat 1110) in the EEZ?

Uhk

- Potential wind, wave energy, oil extraction or aquaculture sites?
- Result: LIFE REEF project



0 5 10 20 km

## LIFE REEF project:

Rept

Research of marine protected habitats in EEZ and determination of the necessary conservation status in Latvia LIFE19 NAT/LV/000973 LIFE REEF, 01/09/2020 – 31/08/2025

- The main objectives of the project are:
- Identification of potential marine protected sites and development of proposals for new MPAs.
- Assessment of the effectiveness of the MPA network (including newly assessed territories) within the Latvian marine waters.
- Development of the management plan for marine protected sites.
- Assessment of ecosystem services provided by protected benthic habitats (1170 and 1110).
- Development of an action plan for limiting invasive marine species and development of mitigation measures to reduce seabird and marine mammal bycatch in coastal fisheries.

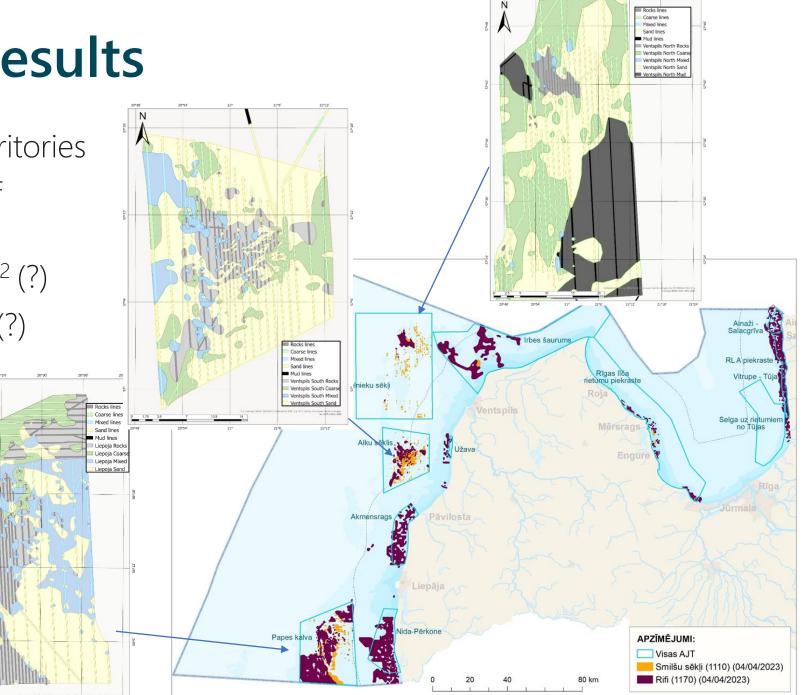


## LIFE REEF results

- Side-scan sonar mapped territories
- Underwater video surveys of southern territory

RUMA

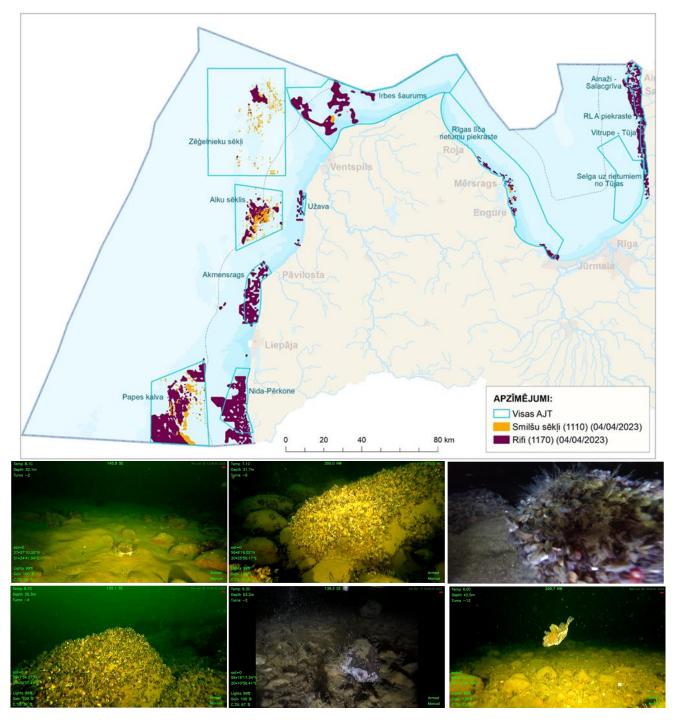
- Stony reefs (1170)- 504,02km<sup>2</sup> (?)
- Sandbanks (1110)- 74,52km<sup>2</sup> (?)



#### RUAR

#### LIFE REEF results

- Investigations show predominantly healthy reef habitats (1170)
- Rich fish and bird communities
- Complex, diverse habitats with no sign of invasive fish species influence!



### Challenges in the coastal zone

MPAs are area-based nature conservation measures that presume setting protection objectives for geographically distinct zones...

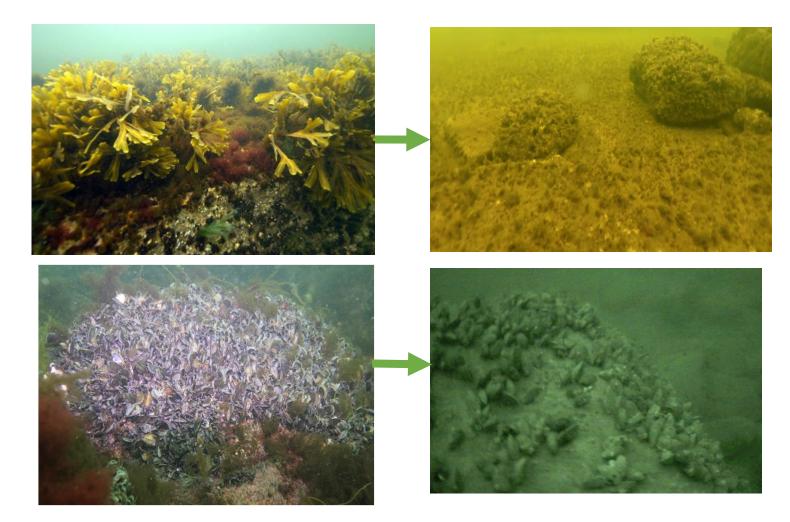
...While the main enemies are not local:

• Eutrophication

RULA

- Invasive species
- Hazardous substances





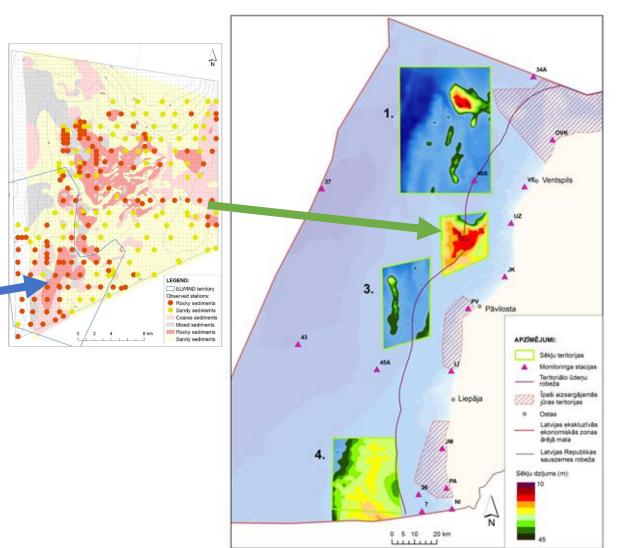
### Challenges in the EEZ

MPAs are area-based nature conservation measures that presume setting protection objectives for geographically distinct zones...

- Eutrophication
- Wind energy

RUAR

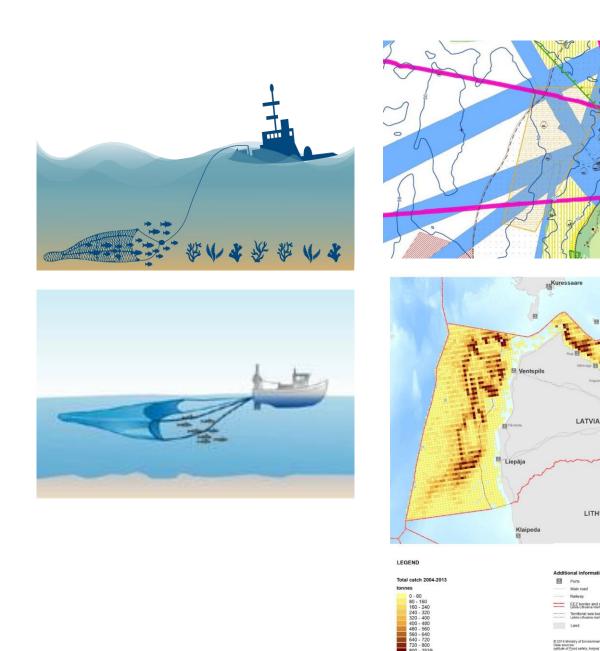




## Challenges

Ruhh

- Bottom trawling allowed in specially designated territories
- Pelagic trawling- not harmful for benthic habitats: fisherman avoid reef territories



VENTSPILS

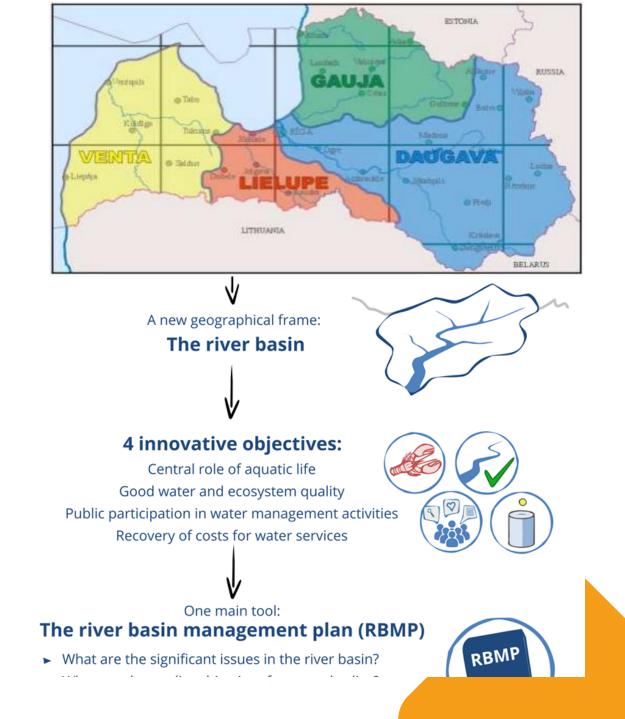
LITHUANIA

#### **Solutions**

RAA

 Mitigating eutrophication by effectively implementing WFD River Basin Management Plans and nutriet reduction targets set by the Baltic Sea Action Plan

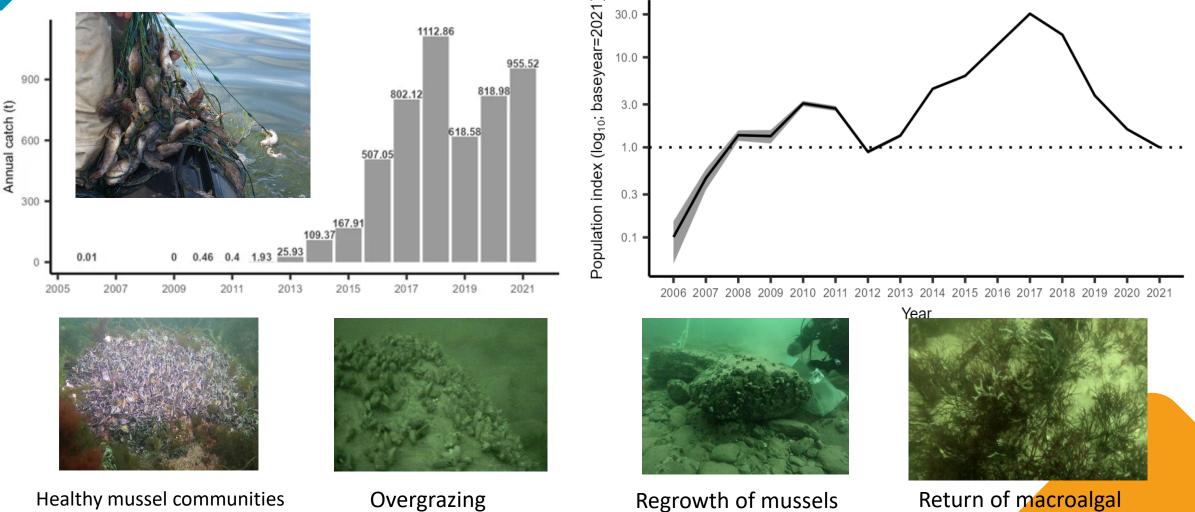
> LATVIJAS HIDROEKOLOGIJAS



## **Solutions**

Rept

• Controlling invasive species by effective fisheries management

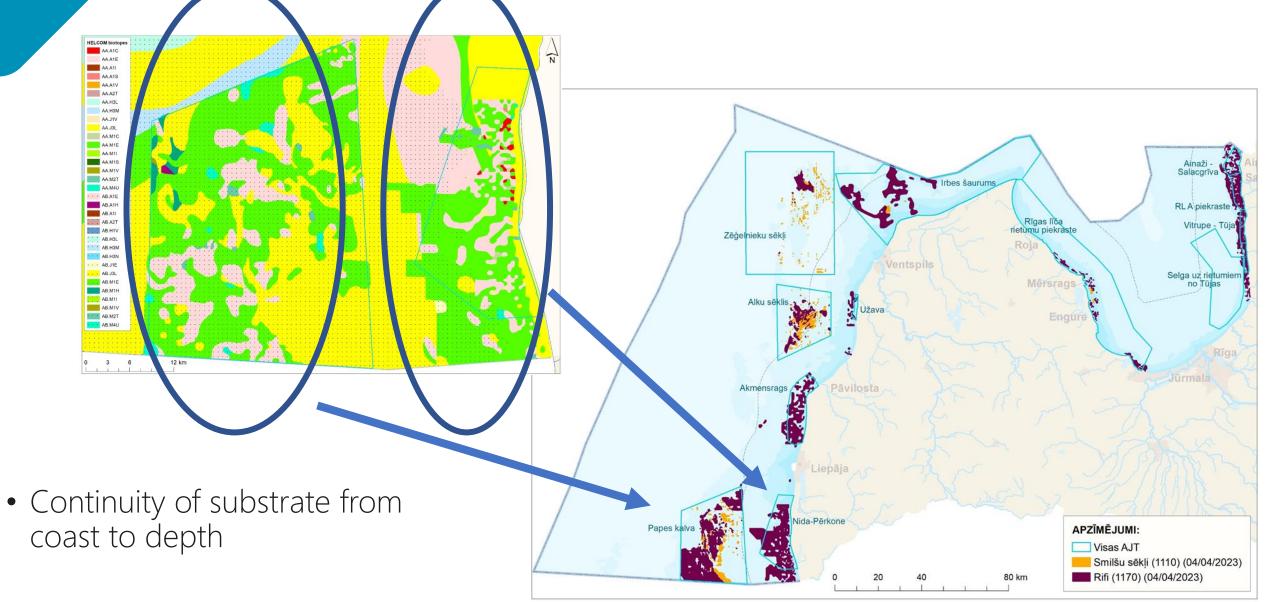


Return of macroalgal communities

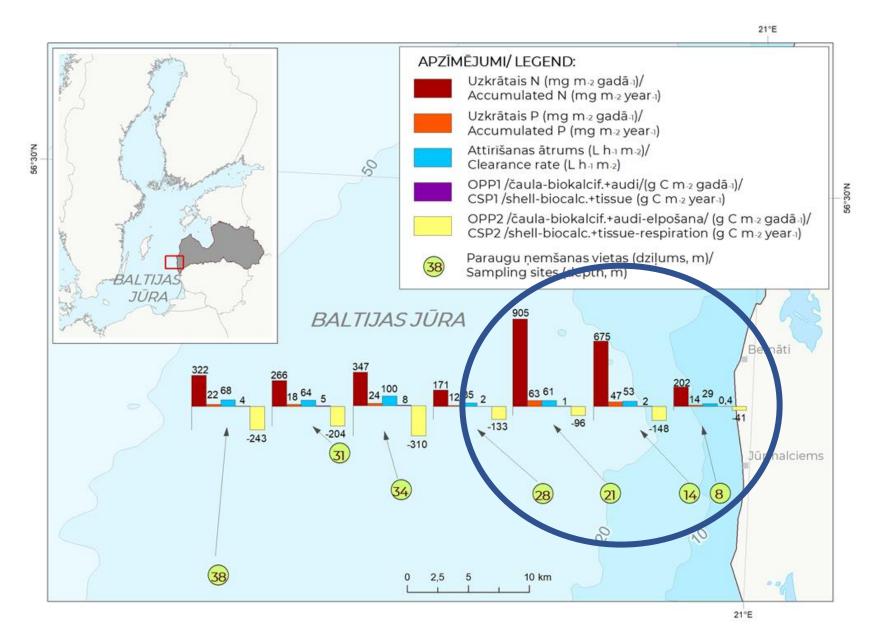
#### **Washed algae at Liepaja beach**





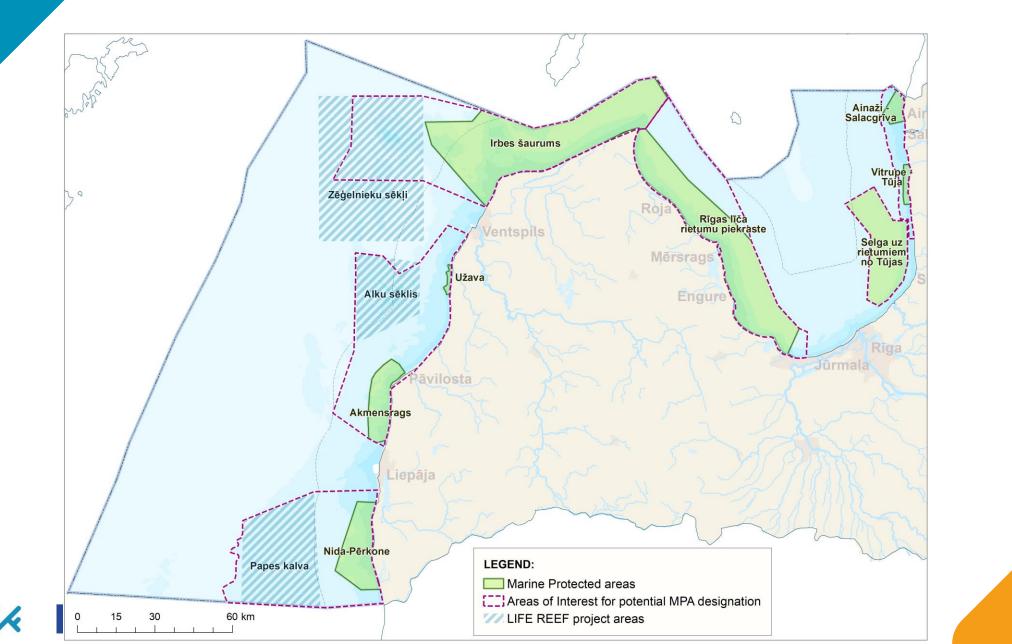


## Habitat connectivity: land-coastal zone- offshore



#### Towards achieving 30% goal

Ruha



Ruha

## Thank you!

















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