



# **EUSBSR** EU STRATEGY FOR THE BALTIC SEA REGION

---

**EUSBSR PA SAFE Steering Group meeting**

**DRAFT SLIDES**

Tallinn, Estonia

May 11, 2025 15:00 - 17:00

**Interreg**  
Baltic Sea Region



Co-funded by  
the European Union

## Agenda

- 1. Welcome Words and Tour de Table**  
Chair: Ms. Annabel Keerd, Estonian Ministry of Climate
- 2. Approval of the Agenda and Minutes from the Last Meeting**  
Chair
- 3. Words from the Chair**  
Chair
- 4. Activities of the Policy Area Coordinators**  
PAC Seppo Mäkinen
- 5. Status of PA Safe future Coordination**  
PAC Ulf Siwe  
  
**BREAK**
- 6. Presentation of projects - summaries & new projects**  
PAC: Ulf
- 7. Ammunition and toxic waste dumps - presentation of PA Hazard & projects**  
PA Hazards PAC: Louise Floman, Swedish Agency for Marine and Water Management
- 8. Policy Suggestions and other input from the Operational Group**  
PAC: Seppo
- 9. One-to-one meetings - outcomes, best practices and future work**  
PAC: Ulf & Seppo
- 10. Steering Group member continuity - discussion and possible decision**  
PAC: Ulf
- 11. Any other business, Next meeting & Conclusion**  
Chair

# **1. Welcome Words and Tour de Table**

**Chair: Ms. Annabel Keerd, Estonian Ministry of Climate**

## Agenda

1. **Welcome Words and Tour de Table**  
Chair: Ms. Annabel Keerd, Estonian Ministry of Climate
2. **Approval of the Agenda and Minutes from the Last Meeting**  
Chair
3. **Words from the Chair**  
Chair
4. **Activities of the Policy Area Coordinators**  
PAC Seppo Mäkinen
5. **Status of PA Safe future Coordination**  
PAC Ulf Siwe
- BREAK**
6. **Presentation of projects - summaries & new projects**  
PAC: Ulf
7. **Ammunition and toxic waste dumps - presentation of PA Hazard & projects**  
PA Hazards PAC: Louise Floman, Swedish Agency for Marine and Water Management
8. **Policy Suggestions and other input from the Operational Group**  
PAC: Seppo
9. **One-to-one meetings - outcomes, best practices and future work**  
PAC: Ulf & Seppo
10. **Steering Group member continuity - discussion and possible decision**  
PAC: Ulf
11. **Any other business, Next meeting & Conclusion**  
Chair

## **2. Approval of the Agenda and Minutes from the Last Meeting**

## Agenda

- 1. Welcome Words and Tour de Table**  
Chair: Ms. Annabel Keerd, Estonian Ministry of Climate
- 2. Approval of the Agenda and Minutes from the Last Meeting**  
Chair
- 3. Words from the Chair**  
Chair
- 4. Activities of the Policy Area Coordinators**  
PAC Seppo Mäkinen
- 5. Status of PA Safe future Coordination**  
PAC Ulf Siwe  
  
**BREAK**
- 6. Presentation of projects - summaries & new projects**  
PAC: Ulf
- 7. Ammunition and toxic waste dumps - presentation of PA Hazard & projects**  
PA Hazards PAC: Louise Floman, Swedish Agency for Marine and Water Management
- 8. Policy Suggestions and other input from the Operational Group**  
PAC: Seppo
- 9. One-to-one meetings - outcomes, best practices and future work**  
PAC: Ulf & Seppo
- 10. Steering Group member continuity - discussion and possible decision**  
PAC: Ulf
- 11. Any other business, Next meeting & Conclusion**  
Chair

### **3. Words from the Chair**

## Reflecting on Estonian Priorities under the EUSBSR Presidency

- **Update of the Action Plan**, with the objective of effectively finalising the process. Goal is to ensure a **smooth start of the implementation phase** immediately following the approval of the updated Action Plan, which will support the achievement of the Strategy`s three overall objectives: “Save the Sea”, “Connect the Region” and “Increase Prosperity”.
- Particular emphasis will be placed on **resilience and sustainability**.
- **Strengthened cooperation across Policy Areas** is a critical factor in supporting these objectives.
- Ensuring **increased Ukrainian involvement in relevant actions** and projects remains a key priority.
- The Presidency also places strong emphasis on **effective governance** and the **external communication** of the Strategy.

## Agenda

- 1. Welcome Words and Tour de Table**  
Chair: Ms. Annabel Keerd, Estonian Ministry of Climate
- 2. Approval of the Agenda and Minutes from the Last Meeting**  
Chair
- 3. Words from the Chair**  
Chair
- 4. Activities of the Policy Area Coordinators**  
PAC Seppo Mäkinen
- 5. Status of PA Safe future Coordination**  
PAC Ulf Siwe  
  
**BREAK**
- 6. Presentation of projects - summaries & new projects**  
PAC: Ulf
- 7. Ammunition and toxic waste dumps - presentation of PA Hazard & projects**  
PA Hazards PAC: Louise Floman, Swedish Agency for Marine and Water Management
- 8. Policy Suggestions and other input from the Operational Group**  
PAC: Seppo
- 9. One-to-one meetings - outcomes, best practices and future work**  
PAC: Ulf & Seppo
- 10. Steering Group member continuity - discussion and possible decision**  
PAC: Ulf
- 11. Any other business, Next meeting & Conclusion**  
Chair

## 4. Activities of the Policy Area Coordinators

### PAC Seppo Mäkinen

Since Steering Group on-site meeting on 28.10.2025 PACs have

#### Attended:

- BS e-Nav, MaDaMe and ORMOBASS mid-term conference in Copenhagen on 3 Dec 2025
- NC & PAC live meeting in Copenhagen on 14.-15. Apr 2026
- Workshop on Energy Transition and Decarb in Transport - Hamburg 23 Apr 2026
- PA Ship Operational group on-line meeting on 7.4.2026
- Baltic Sea Region Forum - Security in the Northern Europe and the Arctic, seminar Turku 4 May 2026

#### Organized:

- One-to-one meetings with Steering Group members from DE, DK, EE, FI, LV, LT, NO, PL & SE
- PA Safe Operational Advisory Group meeting on-line 28 Apr 2026
- Steering Group meeting on 11 May 2026

#### Worked on

- PA Safe Action Plan

## 4. Future Activities of the Policy Area Coordinators

### PAC Seppo Mäkinen

PAC planned activities until end of 2026

#### Attend

- European Maritime Day, stand - in Limassol, CY on 21.-22. May 2026
- Sjöfartens Dag, stand - in Mariehamn, AX on 21. May 2026
- Baltic Blue Corridor Platform kick-off - in Berlin, DE 9.-10. Jun 2026
- Macro-regional Strategy and Sea-basin Days, stand, workshop - in Brussels, BE 9.-10. Jul 2026
- OpenRisk II project final conference - in Kristiansand, NO 22.-24 Sept 2026
- Connect Europe Days, stand - in Brussels, BE 29. Sep - 1. Oct
- MaDaMe project final conference - in Turku 30 Sep 2026
- ORMOBAS project final conference - in DE, week 43/44 2026

#### Organize:

- PA Safe PAC tasks hand over together with BSP Turku office
- Steering group meeting on-line in Oct/Nov 2026

#### Worked on

- PA Safe Action Plan, impacts and implementation

## Agenda

- 1. Welcome Words and Tour de Table**  
Chair: Ms. Annabel Keerd, Estonian Ministry of Climate
- 2. Approval of the Agenda and Minutes from the Last Meeting**  
Chair
- 3. Words from the Chair**  
Chair
- 4. Activities of the Policy Area Coordinators**  
PAC Seppo Mäkinen
- 5. Status of PA Safe future Coordination**  
PAC Ulf Siwe & Seppo
- BREAK**
- 6. Presentation of projects - summaries & new projects**  
PAC: Ulf
- 7. Ammunition and toxic waste dumps - presentation of PA Hazard & projects**  
PA Hazards PAC: Louise Floman, Swedish Agency for Marine and Water Management
- 8. Policy Suggestions and other input from the Operational Group**  
PAC: Seppo
- 9. One-to-one meetings - outcomes, best practices and future work**  
PAC: Ulf & Seppo
- 10. Steering Group member continuity - discussion and possible decision**  
PAC: Ulf
- 11. Any other business, Next meeting & Conclusion**  
Chair

## 5. Status of PA Maritime Safety future Coordination

Traficom - will resign Dec 31 2026

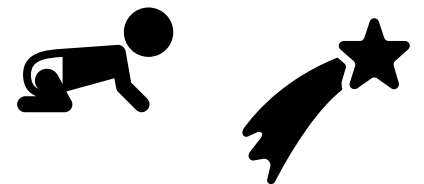
- Seppo will work within PA Safe until all reporting is finished (Q1 2027)
- Traficom has imposed travel cost flat cut - will restrict PAC work and travel from July on. A political decision - not a question of project funds.

Finland - wants to keep PAC

- Replacement organisation identified and positive, to be approved by NCG
- *NC decision May 7, 2026 to approve Kotka Maritime Research Centre - Merikotka (no word has reached the PA yet)*

## 5. Status of PA Safe future Coordination

- SMA – will resign Dec 31 2026
  - Ulf will resign from SMA Aug 18, 2025
  - Replacement is identified, but will realistically do as little as possible
- Sweden – wants to keep PAC
  - But not enough to find replacement
- Norway – invited to join as PAC
  - Norwegian Coastal Administration (NCA) has shown interest
  - Awaiting EU decision on Norway's membership in EUSBSR, and then NC



## Agenda

- 1. Welcome Words and Tour de Table**  
Chair: Ms. Annabel Keerd, Estonian Ministry of Climate
- 2. Approval of the Agenda and Minutes from the Last Meeting**  
Chair
- 3. Words from the Chair**  
Chair
- 4. Activities of the Policy Area Coordinators**  
PAC Seppo Mäkinen
- 5. Status of PA Safe future Coordination**  
PAC Ulf Siwe
- BREAK**
- 6. Presentation of projects - summaries & new projects**  
PAC: Ulf
- 7. Ammunition and toxic waste dumps - presentation of PA Hazard & projects**  
PA Hazards PAC: Louise Floman, Swedish Agency for Marine and Water Management
- 8. Policy Suggestions and other input from the Operational Group**  
PAC: Seppo
- 9. One-to-one meetings - outcomes, best practices and future work**  
PAC: Ulf & Seppo
- 10. Steering Group member continuity - discussion and possible decision**  
PAC: Ulf
- 11. Any other business, Next meeting & Conclusion**  
Chair

## Agenda

- 1. Welcome Words and Tour de Table**  
Chair: Ms. Annabel Keerd, Estonian Ministry of Climate
- 2. Approval of the Agenda and Minutes from the Last Meeting**  
Chair
- 3. Words from the Chair**  
Chair
- 4. Activities of the Policy Area Coordinators**  
PAC Seppo Mäkinen
- 5. Status of PA Safe future Coordination**  
PAC Ulf Siwe  
  
**BREAK**
- 6. Presentation of projects - summaries & new projects**  
PAC: Ulf
- 7. Ammunition and toxic waste dumps - presentation of PA Hazard & projects**  
PA Hazards PAC: Louise Floman, Swedish Agency for Marine and Water Management
- 8. Policy Suggestions and other input from the Operational Group**  
PAC: Seppo
- 9. One-to-one meetings - outcomes, best practices and future work**  
PAC: Ulf & Seppo
- 10. Steering Group member continuity - discussion and possible decision**  
PAC: Ulf
- 11. Any other business, Next meeting & Conclusion**  
Chair

## 6. Presentation of projects - Policy Area Safe Projects - EUSBSR

### Ongoing PA Safe projects

#### Action 1

- Baltic Sea eNav
- Speed up re-surveying
- OPTIMISM

#### Action 2

- WINMOS III

#### Action 3

- MaDaMe
- ORMOBASS

#### Action 4

- OpenRisk II
- BRISK II

### New PA Safe projects

#### Action 1

- NELSON

#### Action 2

- WINMOS IV

#### Action 3

- NELSON

#### Action 4

- ***DIGIMARIS / PAC suggesting adding***

## Short on existing projects

- BS e-Nav
  - Harmonized guidelines and implementation of S-101 charts, S-102 seafloor, S-104 water levels, S-111 surface currents
- Speed up resurveying
  - Modern bathymetric surveys
  - All major shipping lanes done
  - Most other shipping lanes done
  - Much work remain in shallow water - pleasure craft areas
- OPTIMISM
  - eLearning platform for (updated) ISM Code
- WINMOS III
  - Procurement new Swedish icebreaker
  - Design for mid-size icebreaker (Estonia / Finland)
- MaDaMe
  - Pilots S-124 navigational warnings, S-125 digital Aids to Navigation(AtoN) and S-212 digital VTS
  - Technical infrastructure (MCS, VDES)

## Short on existing projects

- ORMOBASS
  - Implementing a terrestrial based positioning system (from Germany to Finland)
  - Back-up to GPS
    - Soon commercial receivers on-board
    - IMO/IALA/etc
- OpenRisk II
  - Three risk management tools
    - Baltic adaptation of [the AISyRISK tool](#) - a cost effective way to evaluate risk. Ice module added.
    - EcoSensitivity tool decision support to evaluate the consequences of oil spills.
    - R-Mare matrix is a risk maturity model
  - BRISK II
    - Long term risk analysis for all EU HELCOM member countries
    - 10 year validity

## Short on projects - approved November 2025

- NELSON
  - Smart Fairways
    - Implementing infrastructure
      - MCP, VDES
    - Connected services
      - VTS
      - Remote pilotage
      - Digital ship reporting
    - Baltic Sea and Spain
- WINMOS IV
  - Building on WINMOS I, II and III
  - Procurement of 1 Finnish icebreakers
    - Replacing 60 year old
  - Upgrade of 5 Swedish icebreakers
    - 3 50+ years olds
    - 1 newly acquired second hand



# NELSON in Support of Future Maritime Services

Hanna Kajander, NELSON Project Manager and  
Consortium Lead

2026-04-28 EUSBRS



**Co-funded by  
the European Union**

*The contents of this publication are the sole responsibility of NELSON partner(s)  
and do not necessarily reflect the opinion of the European Union.*



Co-funded by  
the European Union

### Project in Short

To support future maritime services and improve information flow between maritime stakeholders, NELSON will develop the physical and digital fairway infrastructure by:

- ▶ *creating new digital maritime solutions*
- ▶ *providing support for the adoption of remote pilotage.*



### Duration

1.9.2025–31.8.2028



### Budget

~15 million euros, of which 50% is funded by the European Union (70% for partners in the Canary Islands)



### Further Information

[www.fintraffic.fi/en/maritime\\_traffic/projects-and-development/nelson](http://www.fintraffic.fi/en/maritime_traffic/projects-and-development/nelson)

# Collaboration of 10 Partners in 3 Countries

**Fintraffic Vessel  
Traffic Services Ltd**



**Swedish  
Maritime  
Administration**



**Finnish  
Meteorological  
Institute**



**Finnpilot  
Pilotage Ltd**



**Hiades Business  
Patterns, S.L.**



**Aalto  
University**



**Advian  
Software Ltd**



**Brighthouse  
Intelligence Ltd**

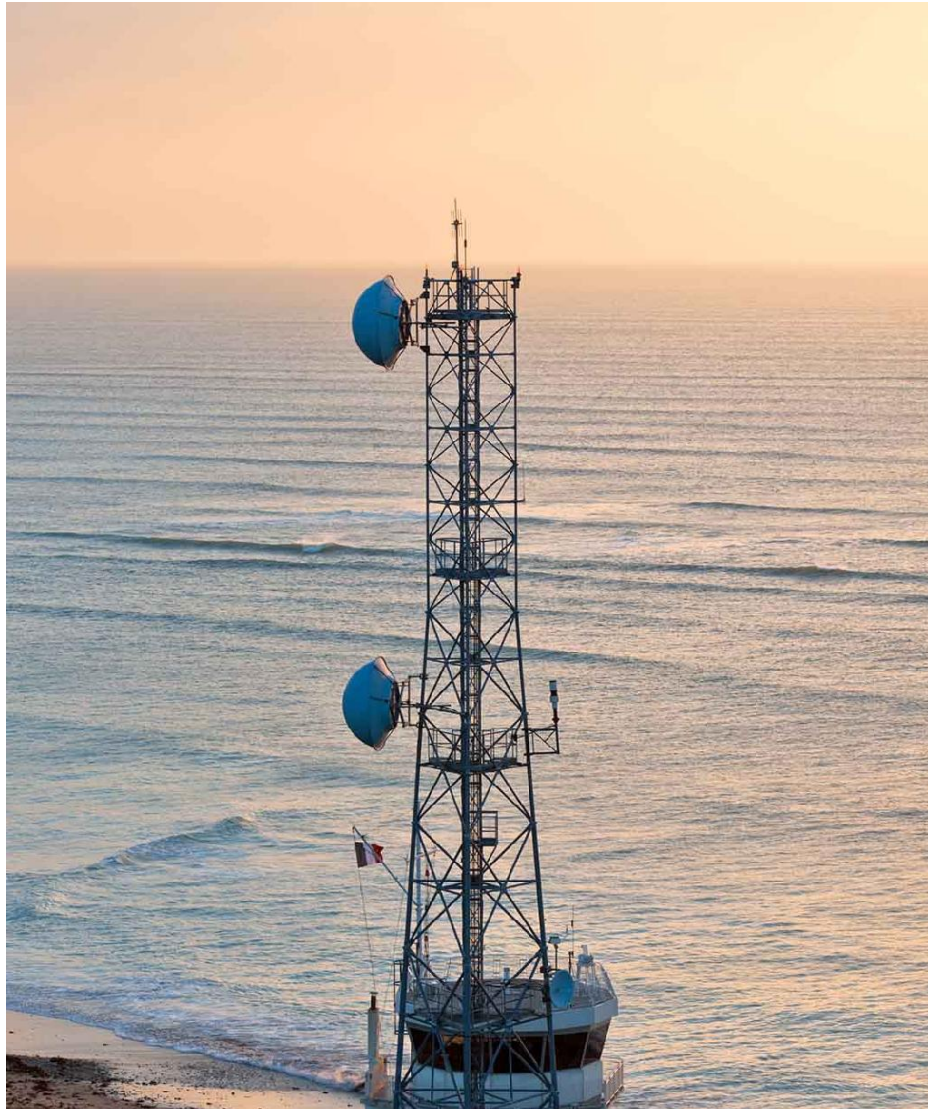


**Port Authority  
of Huelva**



**Port Authority  
of Las Palmas**





## To facilitate real-time situational awareness and improved ship-shore data exchange:



46 milestones



30 deliverables

- ▶ Development of VDES infrastructure
- ▶ Novel digital VTS & route exchange services
- ▶ Advancing remote pilotage system and operations
- ▶ Harmonised reporting systems (MRS–MSW–EMSA integrations)
- ▶ Real-world testings and validation of services

**NELSON**

Innovative solutions for future maritime services |  
[https://www.fintraffic.fi/en/maritime\\_traffic/projects-and-development/nelson](https://www.fintraffic.fi/en/maritime_traffic/projects-and-development/nelson)

How Do We Get There?

## Work Packages and Scopes 1/2

### WP1

#### Project management and communication

Efficient implementation of project management, coordination, communication and stakeholder activities.

- ▶ Lead: Fintraffic VTS

### WP2

#### Fairway infrastructure

Development of fairway infrastructure to support ships' safe navigation by improved information exchange in digital format in Finland and in Sweden.

- ▶ Lead: Fintraffic VTS

### WP3

#### Remote Pilotage

The objective of WP3 is to develop remote pilotage concept and consistent operational approach to be utilised by pilotage service providers, authorities, and manufacturers.

- ▶ Lead: Finnpiilot Pilotage



How Do We Get There?

## Work Packages and Scopes 2/2

### WP4

**VTMIS services and MRS reporting harmonisation**

The primary goal of is to establish a technical platform for digital traffic management information services that authorities offer to traditionally manned, remotely controlled, or remotely piloted vessels.

- ▶ **Lead: Fintraffic VTS**

### WP5

**Testing and validation**

The objective of WP5 is to technically and functionally test and validate the developed maritime digital information service interfaces against specifications.

- ▶ **Lead: Fintraffic VTS**

### WP6

**Enhanced connectivity by maritime solutions**

The objective of WP6 is to develop and deploy innovative digital maritime service solutions tailored for the Canary Islands.

- ▶ **Lead: Hiades Business Patterns**

# Status and Highlights April 2026 (1/2)

## WP1

- Newsletter 1/6 published:  
<https://uutiskirje.fintraffic.fi/a/s/108315190-44bb0f6d55442b539b6823a14a247f56/2618073>
- Remote Pilotage Days 2026 to be held on 16–17 September in Helsinki

## WP2

- 7/34 VDES base stations installed in Sweden, Finland to start installations 2027

## WP3

- Remote pilotage conceptualisation work continues and has included numerous Advisory Group workshops online
- Wärtsilä simulator installed, and the first development version of the remote operation center (ROC) installations on Wed 29 April and testings to begin



## Status and Highlights April 2026 (2/2)

### WP4

- Technical road map for MCP developed
- 75% of S-421 Route Exchange use cases developed
  - ➔ Testing of the both to follow
- Development continues to establish harmonised information flow between EMSA's integrated ship report service (IRD) to the Finnish MRS system and to Swedish MRS system

### WP5

- Planning started

### WP6

- Development of MCP, MRS reporting and remote pilotage software solution in cooperation with key stakeholders.



# Thank you!



**Hanna Kajander**

NELSON Project Manager and Consortium Lead



**Further Information**

[www.fintraffic.fi/en/maritime\\_traffic/projects-and-development/nelson](http://www.fintraffic.fi/en/maritime_traffic/projects-and-development/nelson)



Co-funded by  
the European Union

*The contents of this publication are the sole responsibility of NELSON partner(s) and do not necessarily reflect the opinion of the European Union.*

# WINMOS IV status

Helena Orädd

27.4.2026



Finnish Transport  
Infrastructure Agency



Co-funded by  
the European Union

# WP1 Project management, coordination and communication

- We have project managed, coordinated and communicated well, in schedule and within budget



# WP2 Modernisation of Icebreakers and Upgrade for Icebreaking Assistance

- WP2 is intended to extend the service life and improve the performance of the icebreaker fleet by modernising critical onboard systems and adapting vessels for more efficient and reliable icebreaking operations.
- WP2 budget for the first reporting period is approximately €7.3 million, of which €2.41 million had been incurred during months 1–12.
- **Total budget for WP2 is €9.9 million.**
- Grant is 50%



## T2.1 Upgrade of three existing Atle class icebreakers

- For **IB Atle and IB Frej**, successful upgrade of the vessels' **navigation systems**. Updated chart display and information systems, ice radar functionality, and interfaces connected to other onboard ship systems.
- For **IB Ymer**, work has focused on **preparations for the installation of a new emergency/auxiliary generator**. Procurement activities have been initiated.
- Work on the **new control and monitoring systems** for all three vessels has also progressed. On **IB Frej**, new system is installed and accepted. For **IB Atle and IB Ymer**, procurement activities and preparation for installation.
- Renewal of **fire protection piping** on all three vessels has also progressed. Old pipes have been removed and new installed. Work continues.
- Overall, T2.1 has delivered substantial technical modernization, especially on **IB Frej**, while **IB Atle and IB Ymer** are progressing through a combination of completed upgrades, procurement, and phased installation work.

## T2.2 Conversion of existing icebreaker IB Idun for full icebreaking assistance operations

- **Installation of a towing notch** is completed. This is an important upgrade for towing-related icebreaking operations.
- The vessel's **onshore power connection system** has also been upgraded. Equipment was installed to adapt the system to the Swedish power grid.
- Preparatory and procurement is ongoing for a
  - **new bridge design** to improve visibility, safety, and working conditions
  - **upgrades to the towing winch and related control stations**
  - an **increase in accommodation capacity**
  - a **new emergency/auxiliary generator**
  - and a **new crane**, which is planned for a later phase of the project
- Vessel's **lighting system** has been partially upgraded with LED-based solutions and presence sensors, improving both compliance and energy efficiency.
- Overall, T2.2 has delivered some important physical and technical upgrades on IB Idun and work continues.



## T2.3 Upgrade of the existing icebreaker IB Oden

- Work has been carried out on the vessel's **fire protection piping**. Installation of new piping in the deckhouse area was completed, while the machinery-space portion is planned for the next phase.
- Preparatory work has been undertaken for the **replacement of the vacuum tank system used for handling catering waste**, including technical specification work and material planning.
- Upgrade of vacuum tank system is ongoing and is influenced by the vessel's demanding operational schedule, including both icebreaking duties and Arctic expedition work.

# WP3 Construction of an agile and low-emission B+ icebreaker operating in the Gulf of Finland

- T3.1 Construction of B+ class icebreaker is the only task, and it has not yet begun, nor should it have begun
- Building contract due in September 2026 with building starting early 2027



# DIGIMARIS Outcomes

- New technology and devices for oil spill sensing and removal
- A new service concept that integrates new data sources and types
- User guides, training materials and strategic road map

# Project basics

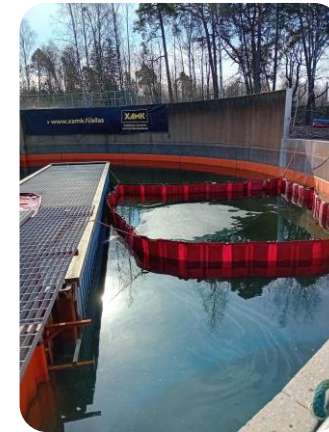
- Implementing time: 9/2025 – 2/2028.
- Funded by Central Baltic Programme.
- Duration 30 months
- Total budget: 2 923 429 €
- Project consortium: Estonian State Fleet, Kotka Maritime Research Association (LP), Kymenlaakso Rescue Services, South-Eastern Finland University of Applied Sciences, Tallin University of Technology.



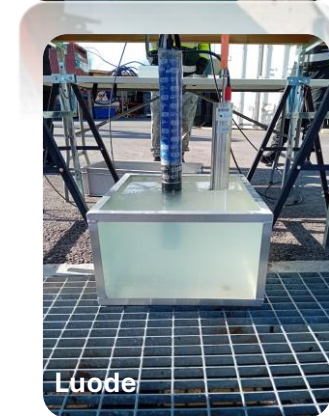
# First phase

- Equipment selection. This will rely on surveys and expert consultations. Followed by field tests in various environments such as oil test basin and open sea.
- Field tests: Testing the required sensors, other parts and digital devices in oil test basin and at sea. This steps focuses on selecting essential components and parts.
- The outcome is a technical review which leads to investments. This is defining criteria for the suitability of devices in response work and their usability.
- This leads procuring and purchasing necessary equipment in both countries.

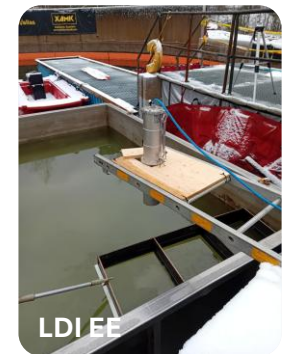
## DIGIMARIS



Xamk's Oil Spill Response  
Test Basin at Kotka



Luode



LDI EE

Different types of oil detection sensors at test

# Second phase

- Integration of data into existing oil spill operative systems.
- This is ensuring that the information generated by the new devices can be fully utilized and is compatible with activities.

# Third phase

- Cross-border exercises, trainings and pilots
- Produce operational guidelines and technical documentation for end users
- A strategic roadmap. The roadmap outlines the lessons learned and the processes in place, enabling knowledge to be shared and passed on to others.
- Engagement of external experts

# Outcomes

- New technology and devices
- A new service concept that integrates new data sources and types
- User guides, training materials and strategic road map

# Thank you!

## Questions?

**Interreg**  Co-funded by  
the European Union

Central Baltic Programme

---

**DIGIMARIS**

### More from Digimaris:

<https://merikotka.fi/digimaris/>

### Contact information:

Emilia Pussinen

Project Manager Digimaris; Lead Partner representative

Kotka Maritime Research Centre

Salakuljettajantie 4, 48100 Kotka, Finland

[emilia.pussinen@merikotka.fi](mailto:emilia.pussinen@merikotka.fi)



## **Decision - include DIGIMARIS in project portfolio or not**

## Agenda

- 1. Welcome Words and Tour de Table**  
Chair: Ms. Annabel Keerd, Estonian Ministry of Climate
- 2. Approval of the Agenda and Minutes from the Last Meeting**  
Chair
- 3. Words from the Chair**  
Chair
- 4. Activities of the Policy Area Coordinators**  
PAC Seppo Mäkinen
- 5. Status of PA Safe future Coordination**  
PAC Ulf Siwe  
  
**BREAK**
- 6. Presentation of projects - summaries & new projects**  
PAC: Ulf
- 7. Ammunition and toxic waste dumps - presentation of PA Hazard & projects**  
PA Hazards PAC: Louise Floman, Swedish Agency for Marine and Water Management
- 8. Policy Suggestions and other input from the Operational Group**  
PAC: Seppo
- 9. One-to-one meetings - outcomes, best practices and future work**  
PAC: Ulf & Seppo
- 10. Steering Group member continuity - discussion and possible decision**  
PAC: Ulf
- 11. Any other business, Next meeting & Conclusion**  
Chair



# **EUSBSR** EU STRATEGY FOR THE BALTIC SEA REGION

---

## **POLICY AREA 'HAZARDS'**

### **Munitions and wrecks**

*PA Maritime Safety Steering Group meeting,  
11 May 2026, Tallinn*

Policy Area Coordinator: Louise Floman  
Swedish Agency for Marine and Water  
Management (SwAM)  
[louise.floman@havochvatten.se](mailto:louise.floman@havochvatten.se)

**Interreg**  
Baltic Sea Region



Co-funded by  
the European Union

## PA Hazards Actions

Prevent pollution and reduce the use of hazardous substances

- Pharmaceuticals in the environment
- PFAS
- **Microplastics (NEW!)**

Mitigate new and remediate historic contamination

- Contaminated sediments
- Munitions and items deliberately dumped to the Sea
- **Knowledge building on environmental risks associated with acute pollution (Redefined, cooperation with PA Safe)**
- **Circular economy approach to chemicals, including nutrient recycling (Redefined, cooperation with PA Nutri)**



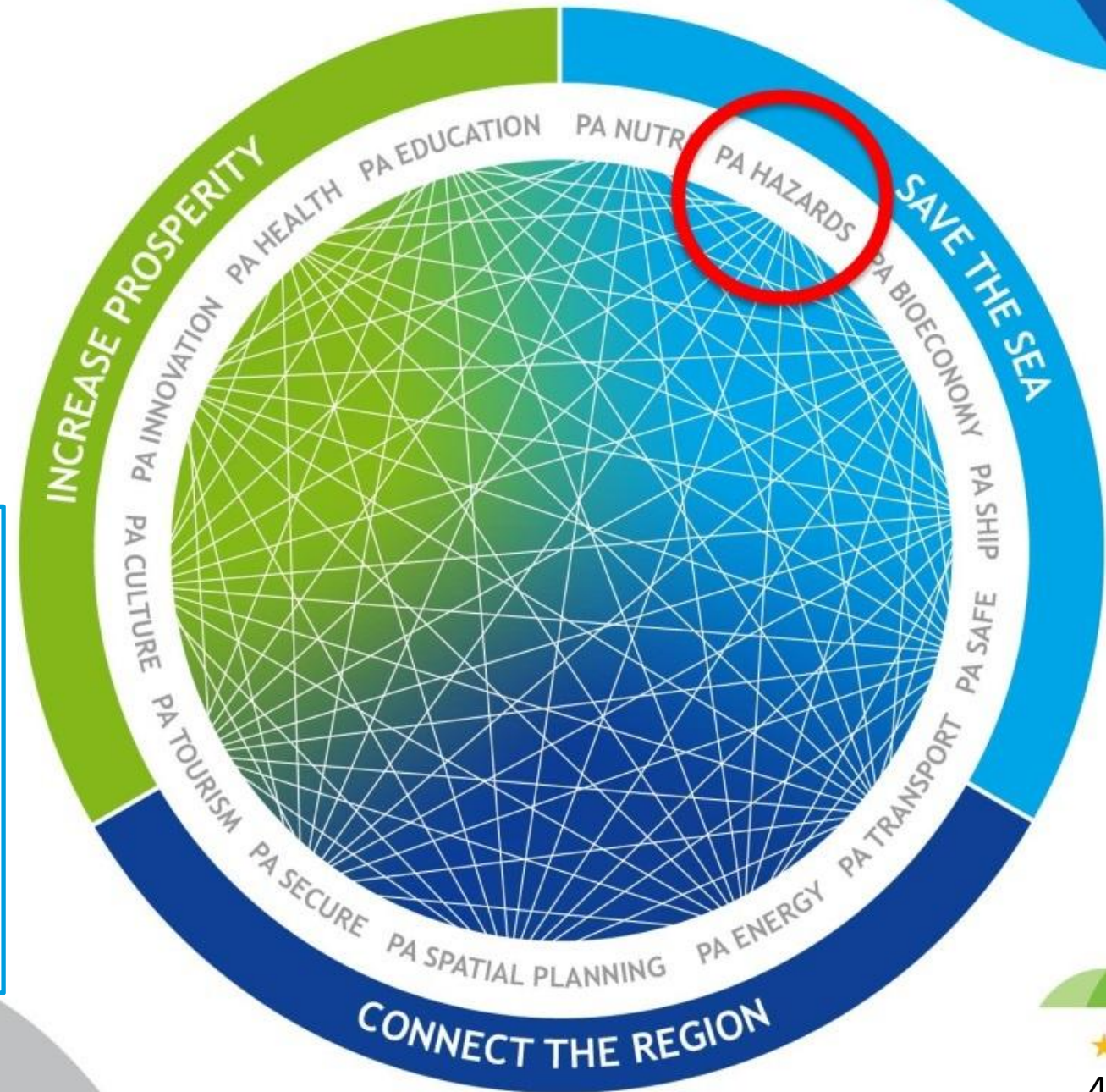
## PA Hazards Actions

Prevent pollution and reduce the use of hazardous substances

- Pharmaceuticals in the environment
- PFAS
- Microplastics (NEW!)

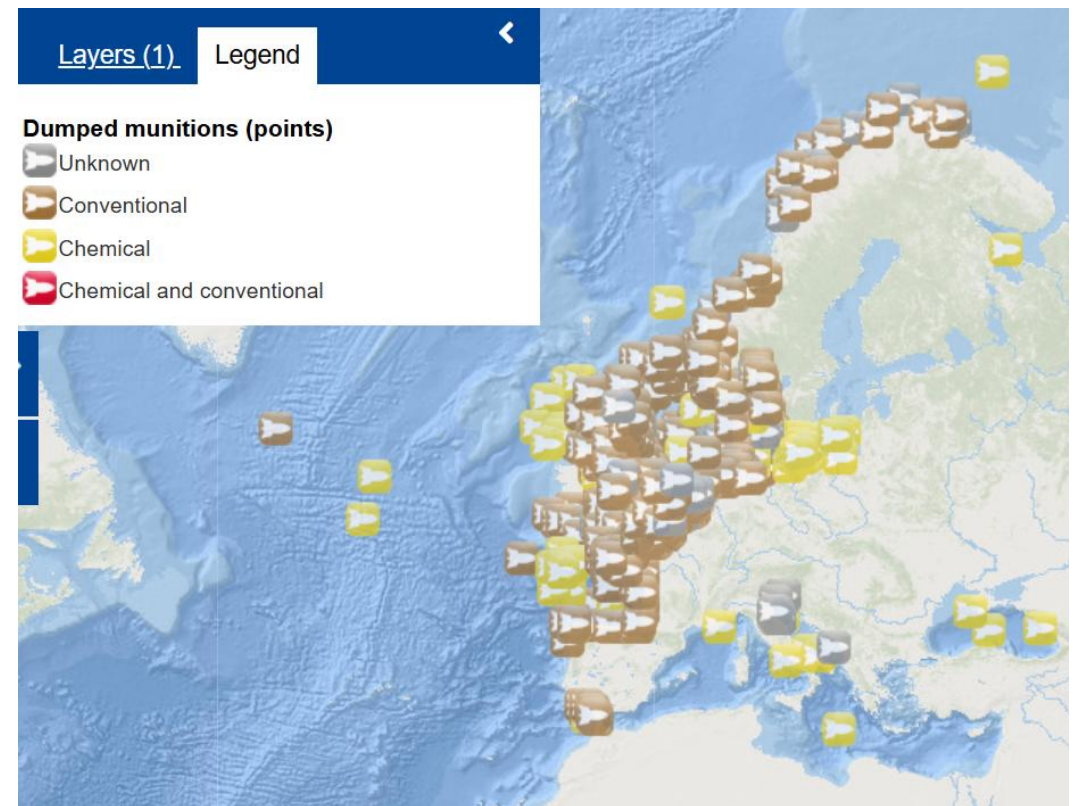
Mitigate new and remediate historic contamination

- Contaminated sediments
- Munitions and items deliberately dumped to the Sea
- Knowledge building on environmental risks associated with acute pollution (Redefined, cooperation with PA Safe)
- Circular economy approach to chemicals, including nutrient recycling (Redefined, cooperation with PA Nutri)



## The challenge of dumped munitions and wrecks in the BSR area

- Dumped munitions pose a threat to the **marine environment** and **human health**
- They represent a real challenge to **blue economy** activities and **marine spatial planning**
- The Baltic and North Sea are affected by estimated 1.6 million tonnes of **UXO** (Unexploded Ordnance – conventional munitions) and est. 40.000 tonnes of **chemical munitions**
- Estimated **8-10.000 wrecks**, hundreds of them with dangerous cargo such as munitions and oil



## Global and regional actors

- **2025 UN Ocean Conference (UNOC3)**
  - European Commission commitment to developing removal strategies under the **European Ocean's Pact**
  - Germany - national programme for dumped munition
  - French-German Joint Ocean Agenda
  -
- **Helsinki Commission (HELCOM)**
  - HELCOM Expert Group on Environmental Risks of Submerged Objects
  - Developing a regional strategic approach and a comprehensive risk assessment of hazardous submerged objects
  - + best practices for risk assessment + data and information on hazardous submerged objects
  - NEW criteria for hot spots developed – munition dumps and wrecks potential category



# The European Ocean Pact

- As part of the **EU Ocean Pact's Priority 1 "Protecting and restoring ocean health"** planned is a **European UXO Removal Strategy**.
- At this moment is unclear, but likely, that the Strategy will include not only UXO (unexploded ordnance) but also chemical warfare agents and wrecks with munitions.
- **A consultation process** has been initiated by DG MARE this year, in which several projects take active part.
- → Excellent opportunity to get munitions on the agenda for the next EU Multi-financial Framework (MFF) 2028-2034 → to secure policy relevance as well as funding for action

## Macro-regional response

### EUSBSR - PA Hazards

- Promotes cooperation, knowledge building and sharing of experiences
- Hazardous substances in wrecks and items deliberately dumped to the Sea
- Enhanced monitoring and shared risk assessment approaches in the region help national and regional authorities
- Supports projects

### Council of the Baltic Sea States (CBSS)

- Promotes political dialogue
- Involved in several projects



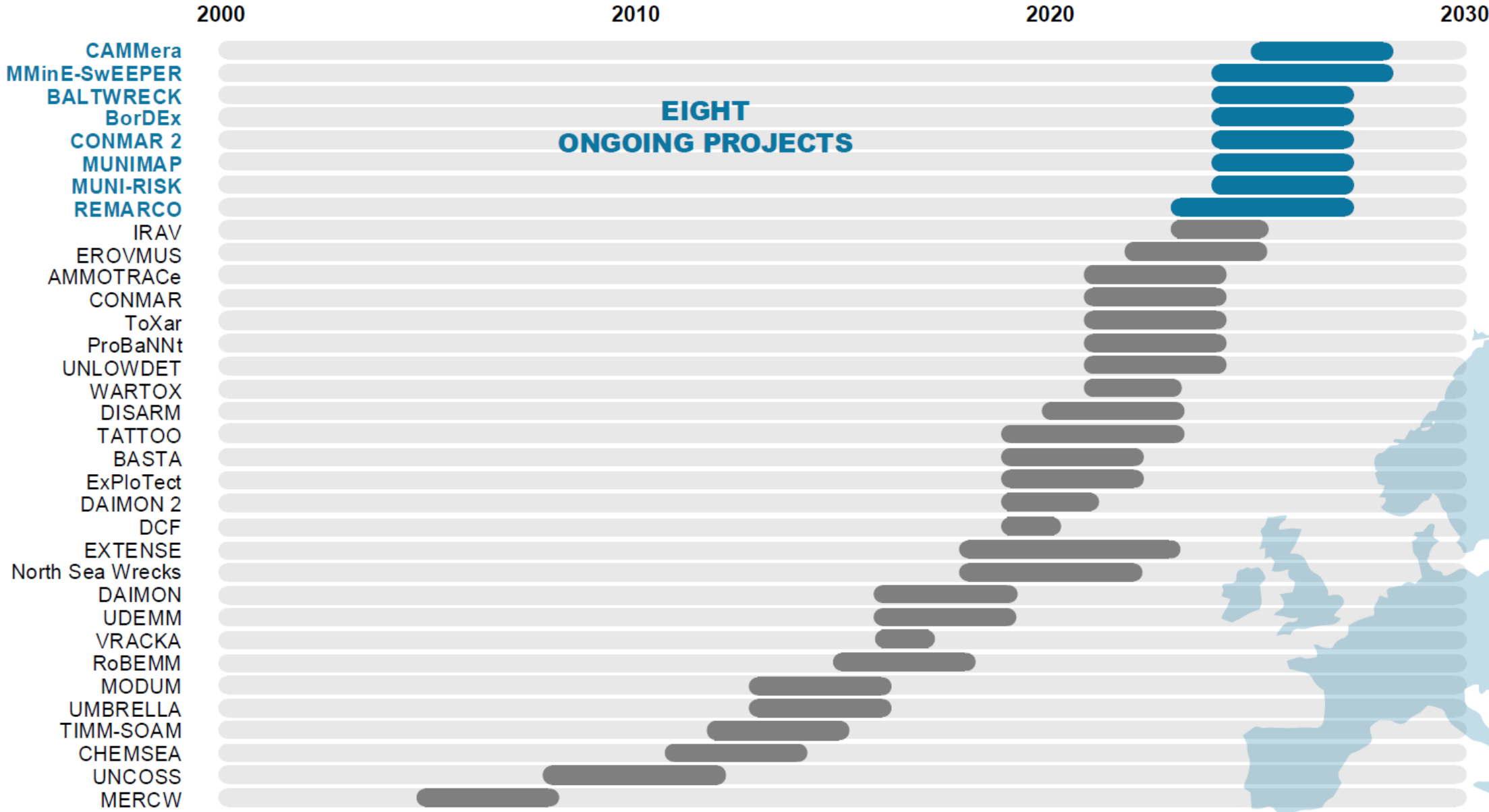
**UNITED NATIONS OCEAN  
CONFERENCE NICE, FRANCE 2025**



Co-funded by  
the European Union

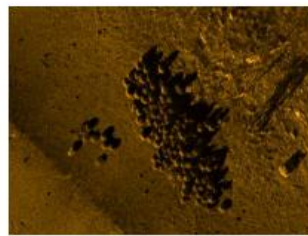
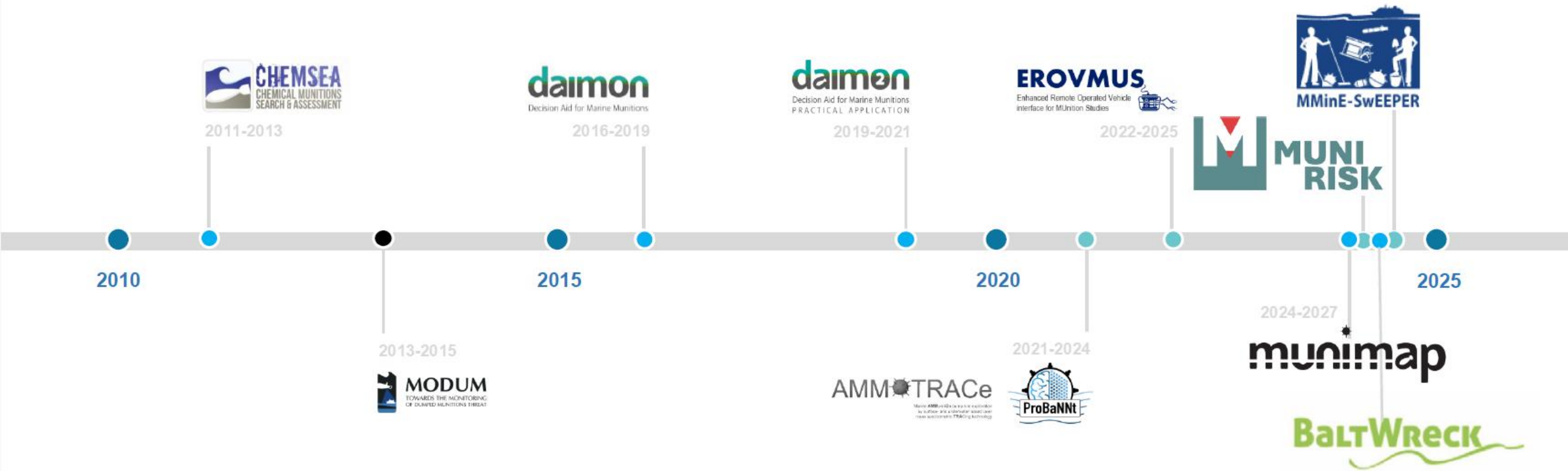


# EUROPEAN INITIATIVES ADDRESSING UNDERWATER MUNITIONS AND WRECKS

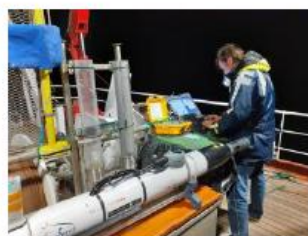


Source: own work based on [munitionsintesea.eu](http://munitionsintesea.eu)

# EVOLUTION OF KNOWLEDGE – EXAMPLES OF MUNITIONS' PROJECTS



SEARCH AND ASSESSMENT



DECISION-SUPPORT TOOLS



UNDERWATER AND IT TECHNOLOGIES

## Complicated landscape - how could EUSBSR contribute?

- Priority to ensure that current projects are working together, not in silos
  - Joint workshops (Munimap, MUNI-RISK joint workshop in Stockholm in March together with MMinE-SwEEPER, SAFE-BS2BKS)
  - Joint web-based tool
  - Joint statements and call for evidence (Ocean's pact)
- Synergies with HELCOM hot spot work
- Opportunity to introduce topics in the new EU MFF → Ocean's Pact as enabler!

## Agenda

- 1. Welcome Words and Tour de Table**  
Chair: Ms. Annabel Keerd, Estonian Ministry of Climate
- 2. Approval of the Agenda and Minutes from the Last Meeting**  
Chair
- 3. Words from the Chair**  
Chair
- 4. Activities of the Policy Area Coordinators**  
PAC Seppo Mäkinen
- 5. Status of PA Safe future Coordination**  
PAC Ulf Siwe
- BREAK**
- 6. Presentation of projects - summaries & new projects**  
PAC: Ulf
- 7. Ammunition and toxic waste dumps - presentation of PA Hazard & projects**  
PA Hazards PAC: Louise Floman, Swedish Agency for Marine and Water Management
- 8. Policy Suggestions and other input from the Operational Group**  
PAC: Seppo
- 9. One-to-one meetings - outcomes, best practices and future work**  
PAC: Ulf & Seppo
- 10. Steering Group member continuity - discussion and possible decision**  
PAC: Ulf
- 11. Any other business, Next meeting & Conclusion**  
Chair

## 8. Policy suggestions and other input from the Operational Group

Common Baltic Sea situation awareness centers are being founded in Baltic Sea states - central EU fund application by Border Guard Finland (activity 4)

- Example - German maritime situation center in Cuxhaven, to follow: Shadow fleet and maritime underwater infrastructure, jamming and spoofing - situation awareness (still active)
- Implementation of CISE (EMSA based)

Chemical accident / incident preparedness - benchmarking (activity 4)

IMO Maritime Services implementation - national plans (activity 3)

Harmonizing risk assessment (activity 3)

Concerns on Interreg funding possibilities - calls some years in future?

## Agenda

- 1. Welcome Words and Tour de Table**  
Chair: Ms. Annabel Keerd, Estonian Ministry of Climate
- 2. Approval of the Agenda and Minutes from the Last Meeting**  
Chair
- 3. Words from the Chair**  
Chair
- 4. Activities of the Policy Area Coordinators**  
PAC Seppo Mäkinen
- 5. Status of PA Safe future Coordination**  
PAC Ulf Siwe
- BREAK**
- 6. Presentation of projects - summaries & new projects**  
PAC: Ulf
- 7. Ammunition and toxic waste dumps - presentation of PA Hazard & projects**  
PA Hazards PAC: Louise Floman, Swedish Agency for Marine and Water Management
- 8. Policy Suggestions and other input from the Operational Group**  
PAC: Seppo
- 9. One-to-one meetings - outcomes, best practices and future work**  
PAC: Ulf & Seppo
- 10. Steering Group member continuity - discussion and possible decision**  
PAC: Ulf
- 11. Any other business, Next meeting & Conclusion**  
Chair

## One-to-one meetings - facts

- Two pilot 1-2-1 meetings were held autumn 2025
- Steering Group decision to hold 1-2-1 meetings with all countries during spring 2026
- All countries have had 1-2-1 meetings
  - Estonia March 9
  - Norway March 12
  - Sweden March 16
  - Germany March 23
  - Latvia March 25
  - Finland March 26
  - Denmark April 8
  - Lithuania April 8
  - Poland April 20
- Attending from countries have been 1-12 people.
  - Ministries, authorities, ports, universities

## One-to-one meetings - notes

Summaries of the meetings will be presented to the SG.

**QUESTION / DECISION:** Should the 1-2-1 detailed notes from each country be publicly available? If so how?

- 1) Published on web site - similar to Steering Group and Operational Advisory Board notes.
- 2) E-mail to other SG-members

## One-to-one meetings - Best Practices

- Remote platforms/buoys for different instruments (EE)
  - Environmental, safety, security
  - Ongoing national projects (one with LV)
- Prioritize implementation of (IMO Maritime) Services with the end-user benefit in mind. (NO)
  - E.g. route based services.
- National strategy for S-100 (SE)
  - Process started, involving many authorities
- The national centre for maritime safety - cross-authority operations (DE)
- Annual meetings bringing all operational authorities on maritime safety together to discuss challenges and improvements. Bi-annual meetings with ship-owners. (FI)
- Sharing Open Risk II implementation experience across the region (FI)
- e-certificates (perhaps) (DK)

## One-to-one meetings - Priorities

EE: Safety & security. Icebreaking (replacement and LV agreement).

NO: Harmonised implementation of S-1xx and of IMO Maritime Services

SE: Share the PA Safe info to relevant national stakeholders

DE: Information exchange and security.

LV: Build on others experience to build VTS & remote pilotage.  
Icebreaking (replacement & EE agreement)

FI: Harmonized IMO Maritime Services & CISE implementation in the region

DK: Better knowledge / heads-up on funding opportunities

LT: Political priority to develop maritime safety

## One-to-one meetings - Ideas 1(2)

- Build a network of remote platforms along the Baltic Sea mainly for resilience and security reasons (to find funding) (EE)
- Workshop on IMO Maritime Services - national status, possibility of harmonized implementation (PACs + EE)
- Develop harmonized incident reporting to SafeSeaNet across BSR. Finland a role model. (EE) /Maybe thru HELCOM?/
- Write short summaries of (finished) projects focusing on results. Good for knowledge sharing and dissemination. (SE) (on PAC ToDo-list)
- Implementation of Open Risk II-tool(s) in Germany (and other countries) (DE)
- Common project for CISE-implementation (DE)
- Common regulation on air drones at sea (&USV, UAV?) (LV)
- Cross-border exercises on environmental response in ice-conditions (FI)

## One-to-one meetings - Ideas 2(2)

- Research balance between physical and virtual Aids to Navigation - AtoNs (FI)
- Research: Use ships as GNSS disturbance sensors - automated reporting to relevant authorities. (FI)
- Find out if BSP can and if SG members are interested in funding emails (DK)
- If PACs send funding ideas to stakeholders - send cc: to country SG member (DK) (PAC ToDo)
- Common project on satellite drag bathymetry / sediment movements (LT)
- Klaipeda /Lithuania, next to Kaliningrad, could be EU test-bed for jamming & spoofing (PAC)
- Common project for developing bathymetric measurements for shallow waters (LT)
- Developments on Autonomous ships (MASS) can help develop safety measures for all (PL)

## One-to-one meetings - Keeping people awake

- Shadow fleet
- GNSS Spoofing & jamming
- Infrastructure protection
- Cyber-secure information sharing
- Precise positioning of ships (when GNSS is disturbed)
- A large-scale maritime accident in the Gulf of Finland, a passenger ferry and (chemical) tanker accident
- Lack of resilience (many single point of failures in operational organisations)
- Better cooperation between institutes/authorities

## One-to-one meetings - PAC reflections

- Getting to know more people of the national teams
- Getting a better understanding of national priorities
- Getting ideas to improve PAC work
  - PACs to provide steering group members a compiled project presentation material
  - PACs to continue to provide funding call information
- Getting ideas to future projects
- Meetings having more participants usually gave a better depth of discussion
- SG role among others: “Bring up relevant challenges and connect to relevant actors in your country.” - The 1-2-1 meeting could be a national co-ordination tool.

## 9. One-to-one meetings - decision

**Make 1-2-1 meetings part of the Policy Area work**

**Yes / No**

## 9. One-to-one meetings - discussion & decision

Two alternatives were discussed in autumn

1. Once per year between Steering Group meetings
2. Twice per year between Steering Group meetings

### Proposal

Each country decides if they want one or two meetings per year, with the flexibility to change that number at any time.

## Agenda

- 1. Welcome Words and Tour de Table**  
Chair: Ms. Annabel Keerd, Estonian Ministry of Climate
- 2. Approval of the Agenda and Minutes from the Last Meeting**  
Chair
- 3. Words from the Chair**  
Chair
- 4. Activities of the Policy Area Coordinators**  
PAC Seppo Mäkinen
- 5. Status of PA Safe future Coordination**  
PAC Ulf Siwe  
  
**BREAK**
- 6. Presentation of projects - summaries & new projects**  
PAC: Ulf
- 7. Ammunition and toxic waste dumps - presentation of PA Hazard & projects**  
PA Hazards PAC: Louise Floman, Swedish Agency for Marine and Water Management
- 8. Policy Suggestions and other input from the Operational Group**  
PAC: Seppo
- 9. One-to-one meetings - outcomes, best practices and future work**  
PAC: Ulf & Seppo
- 10. Steering Group member continuity - discussion and possible decision**  
PAC: Ulf
- 11. Any other business, Next meeting & Conclusion**  
Chair

## 10. Steering Group member continuity - discussion and possible decision

- Lack of Continuity
  - PA Safe PACs have held at least 3 introduction meetings to new steering group members
  - Many new SG members are entering uncharted waters
  - This also true for other Policy Areas e.g. PA Ship
- Two ideas to increase continuity
  - Every Steering Group member should have a national back-up
    - Back-ups will be part of the SG e-mailing but the SG member is responsible for all formal interaction
    - If an SG member needs a long leave the knowledge and know-how is already in place
  - Steering Group members leaving the position should be present in the introduction meeting of the new SG member
    - Today PACs organise the intro meeting. Should the resigning SG member be responsible instead?

## Agenda

- 1. Welcome Words and Tour de Table**  
Chair: Ms. Annabel Keerd, Estonian Ministry of Climate
- 2. Approval of the Agenda and Minutes from the Last Meeting**  
Chair
- 3. Words from the Chair**  
Chair
- 4. Activities of the Policy Area Coordinators**  
PAC Seppo Mäkinen
- 5. Status of PA Safe future Coordination**  
PAC Ulf Siwe  
  
**BREAK**
- 6. Presentation of projects - summaries & new projects**  
PAC: Ulf
- 7. Ammunition and toxic waste dumps - presentation of PA Hazard & projects**  
PA Hazards PAC: Louise Floman, Swedish Agency for Marine and Water Management
- 8. Policy Suggestions and other input from the Operational Group**  
PAC: Seppo
- 9. One-to-one meetings - outcomes, best practices and future work**  
PAC: Ulf & Seppo
- 10. Steering Group member continuity - discussion and possible decision**  
PAC: Ulf
- 11. Any other business, Next meeting & Conclusion**  
Chair

## 11. Any other business, Next meeting & Conclusion

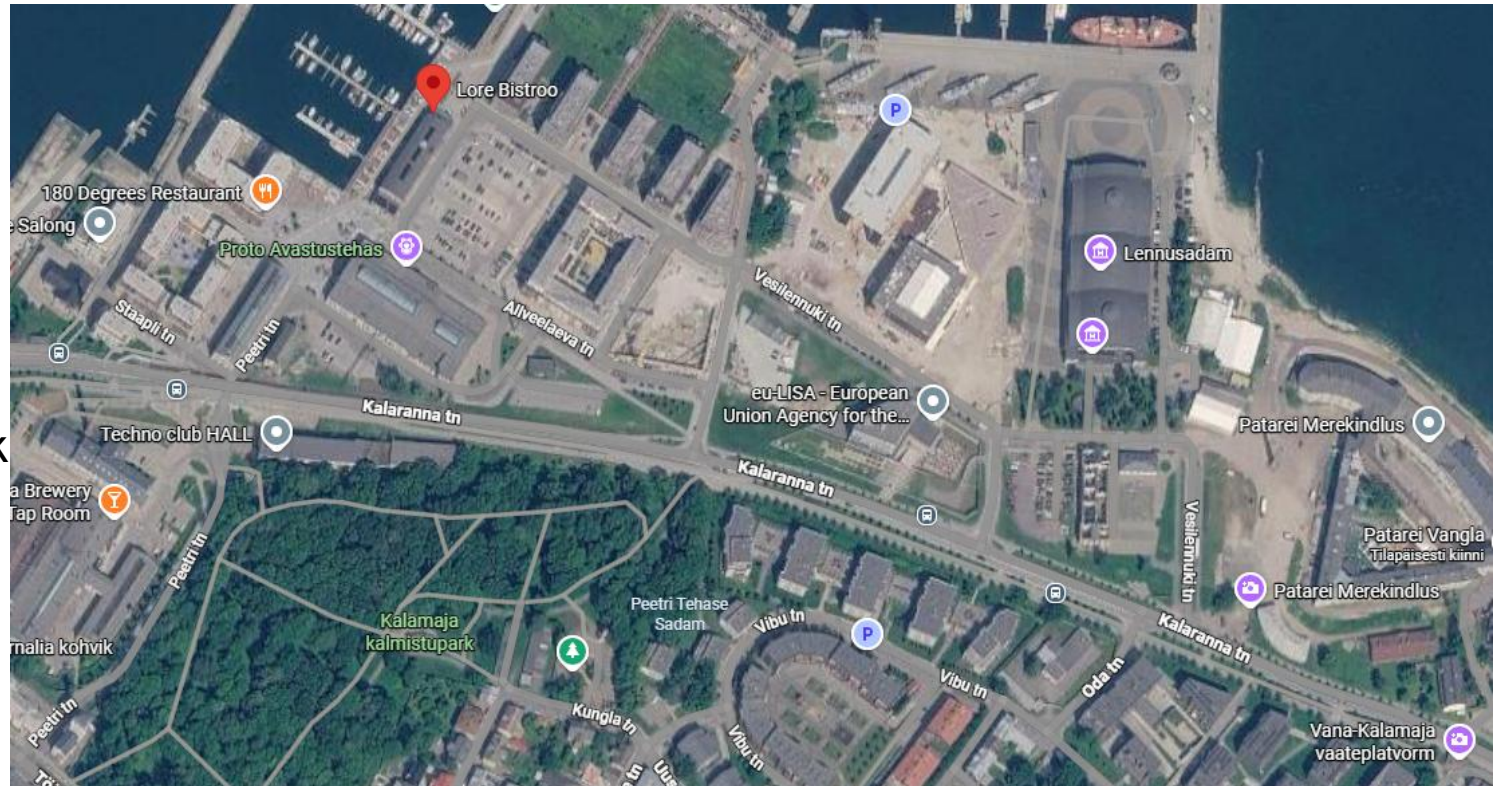
- Any other business
- Next Meetings
  - Steering group meeting - online meeting late October/early November 2026, after several projects' final conferences
    - Nov 10?
  - Operational Advisory Board Online (TEAMs) meeting planned for 2-3 weeks before
    - Oct 21?
- Conclusion

## Dinner at 19:00 PA Safe, PA Ship and PA Transport

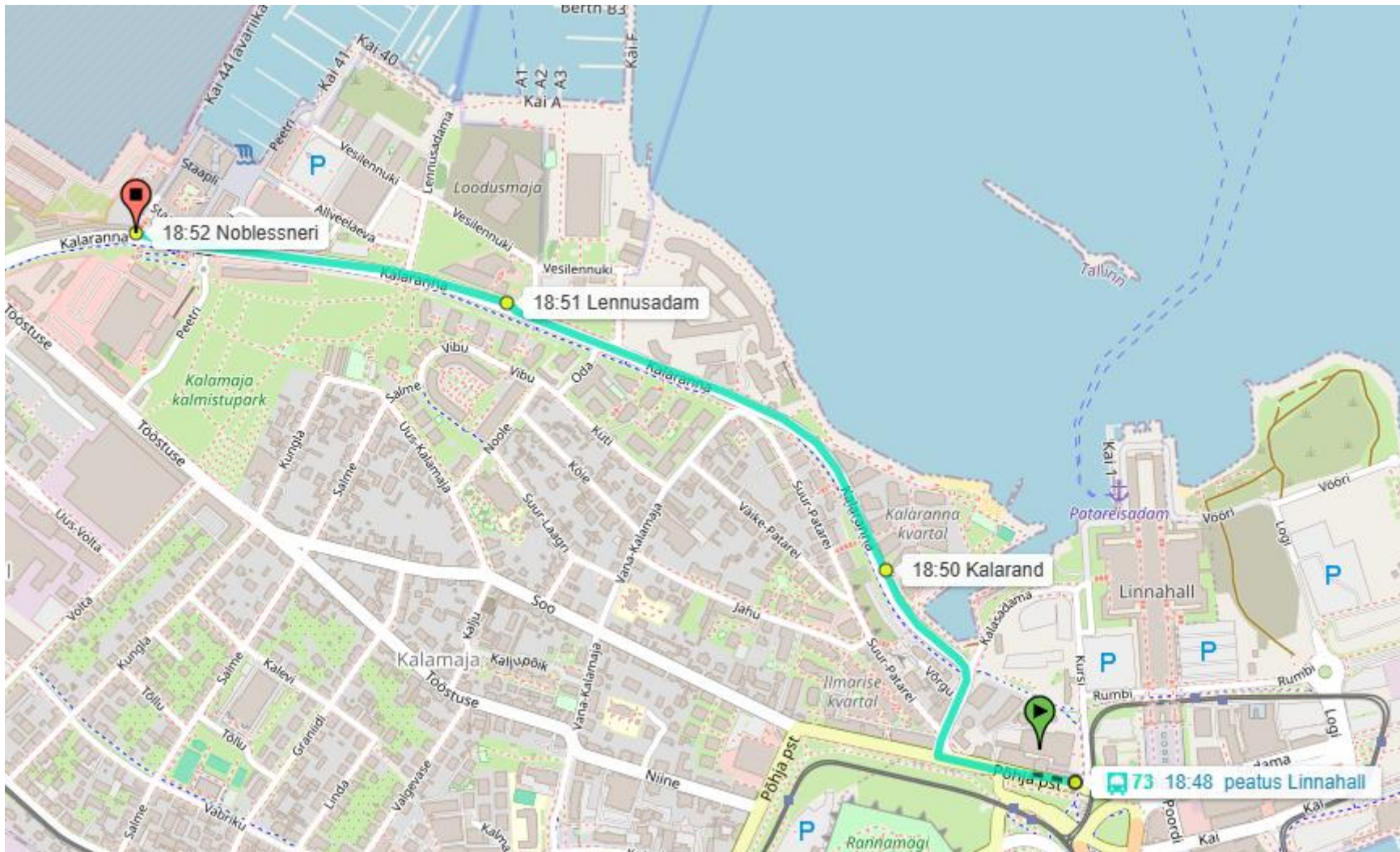
Restaurant LORE, Peetri tänan 12,  
10415 Tallinn  
near Lennusadam Maritime museum

PA Safe, PA Ship & PA Transport  
PACs offers

- Alcoholic/non-alcoholic welcome drink
- Short food menu to select from starters, main course and dessert
- Two glasses of wine or two beers
- Soft drinks, coffee and tea as needed



## Dinner at 19:00 PA Safe, PA Ship and PA Transport





# **EUSBSR**

## EU STRATEGY FOR THE BALTIC SEA REGION

**PA SAFE**

<https://www.eusbsr.eu/pa-safe-about>

**Interreg**  
Baltic Sea Region



Co-funded by  
the European Union