

# WT3: S-100

**Interreg**  
Baltic Sea Region



Co-funded by  
the European Union



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**Baltic Sea e-Nav**

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**MaDaMe**

**Interreg**  
Baltic Sea Region



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Baltic Sea e-Nav

# Shared waters – Same standards. Baltic Sea Partnership for Future Navigation

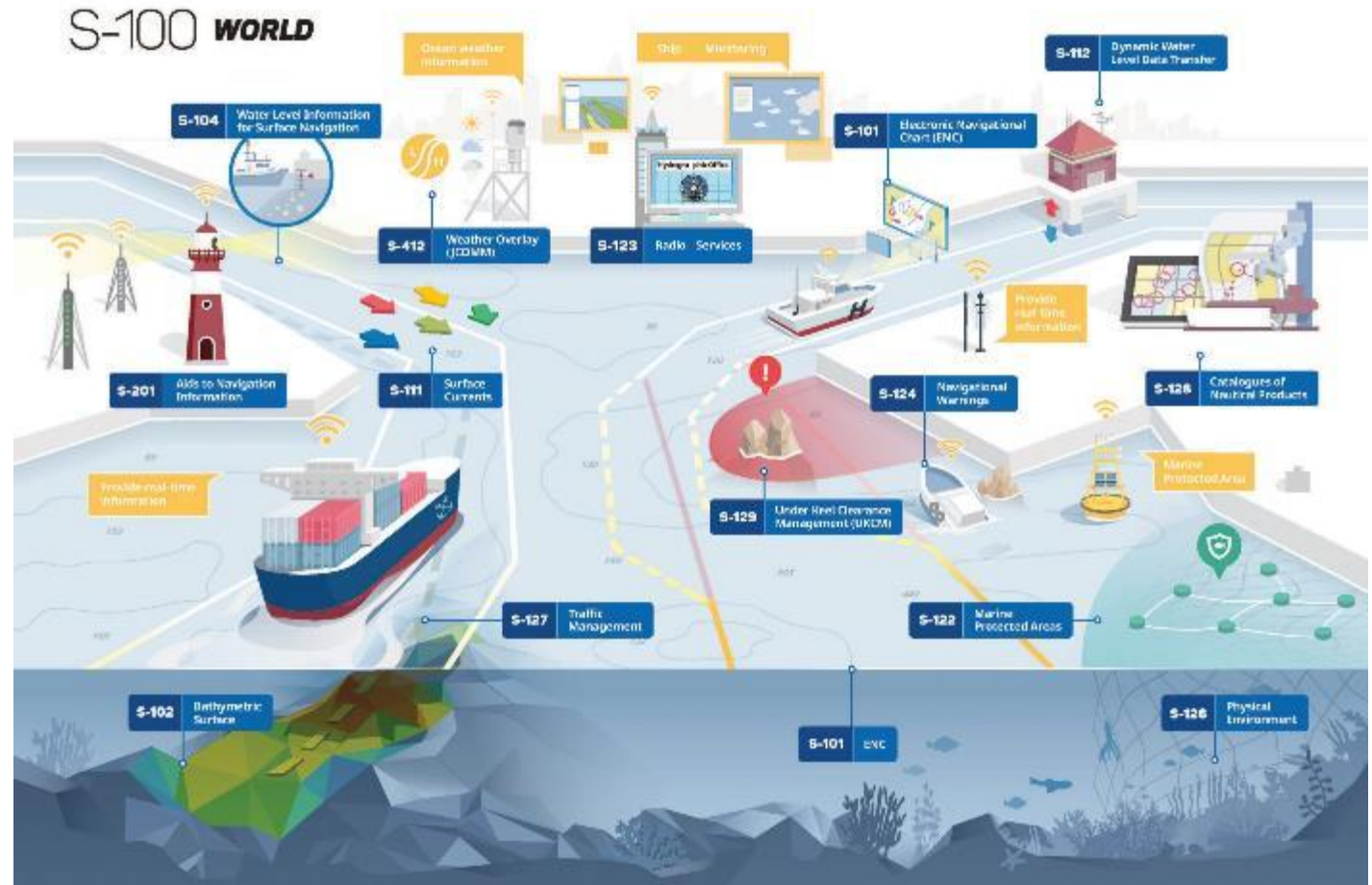
Marlene Svegreus, Caroline Johansson

<https://interreg-baltic.eu/project/baltic-sea-e-nav/>



## What is Baltic Sea e-nav?

- An Interreg Baltic Sea Region-funded project that runs November 2023-November 2026
- Overall goal is to produce, test and implement some of the first S-100 products for navigation in the Baltic Sea
- Coordinator: Swedish Maritime Administration
- Budget: BS e-nav budget: 4.900.000 EUR. Co-financing: 3.920.000 EUR



# Partnership



A large part of the benefit of the project is that it is the **hydrographic offices** themselves that are the **main target group** and that we have created this project to **jointly develop our production** in accordance with the IHO's implementation scheme, for the **benefit of shipping in the Baltic Sea.**



TRANSPORDIAMET



BUNDESAMT FÜR  
SEESCHIFFFAHRT  
UND  
HYDROGRAPHIE



LATVIJAS JŪRAS ADMINISTRĀCIJA  
MARITIME ADMINISTRATION OF LATVIA



ic-enc



HOPN  
Hydrographic Office of  
the Polish Navy





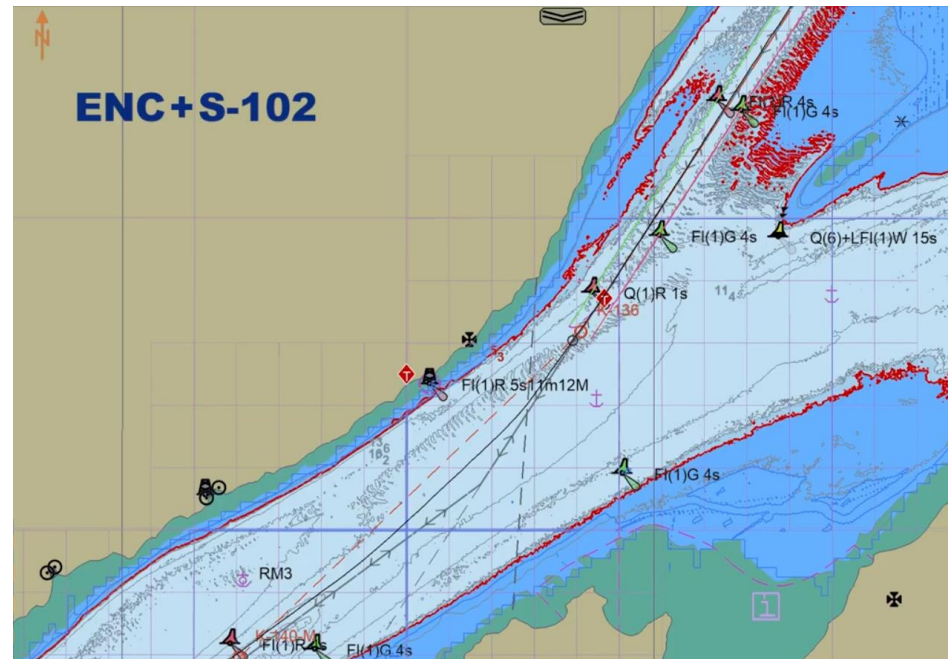
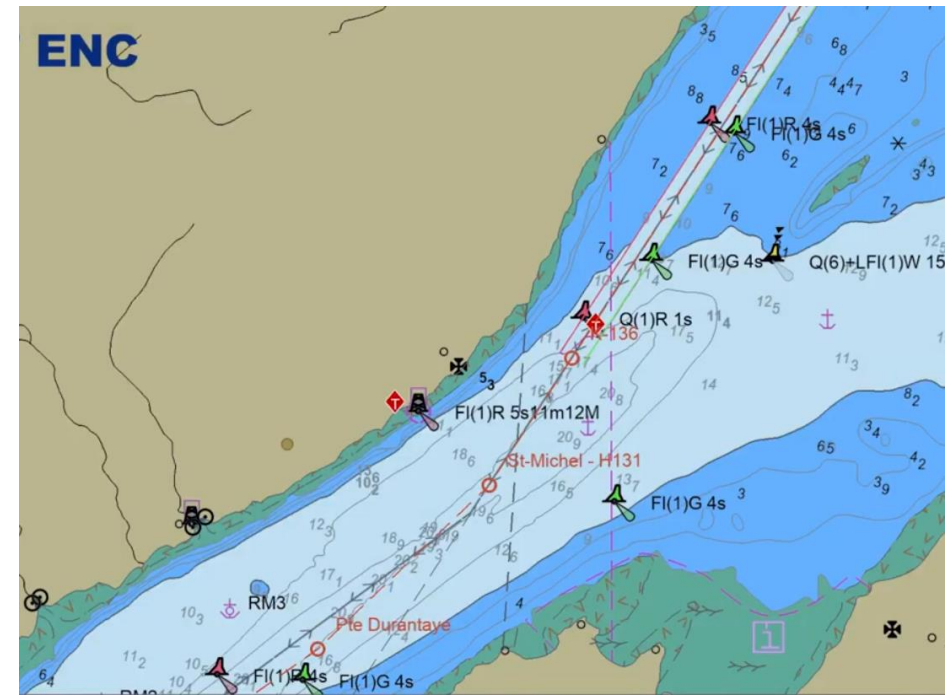
# Project Outputs

## Output 1 Available Baltic Sea E-Nav Base package

- **S-101 next-generation electronic navigational charts** with full coverage of the major shipping routes in the Baltic Sea
- **S-102 seafloor information** products will cover most relevant shipping routes, fairways and harbor approaches, where hydrographic survey data of sufficient quality is available.
- **S-104 water level and S-111 sea surface currents.** The Finnish Meteorological Institute (FMI) will establish overview services for mostly the Finnish areas of the Baltic Sea.

## Output 2 Guidelines adopted regionally under Baltic Sea Hydrographic Commission (BSHC)

- The guidelines will regulate how these products and services shall be **harmonised across borders** between different nation's respective responsibility.



# Benefits



From this



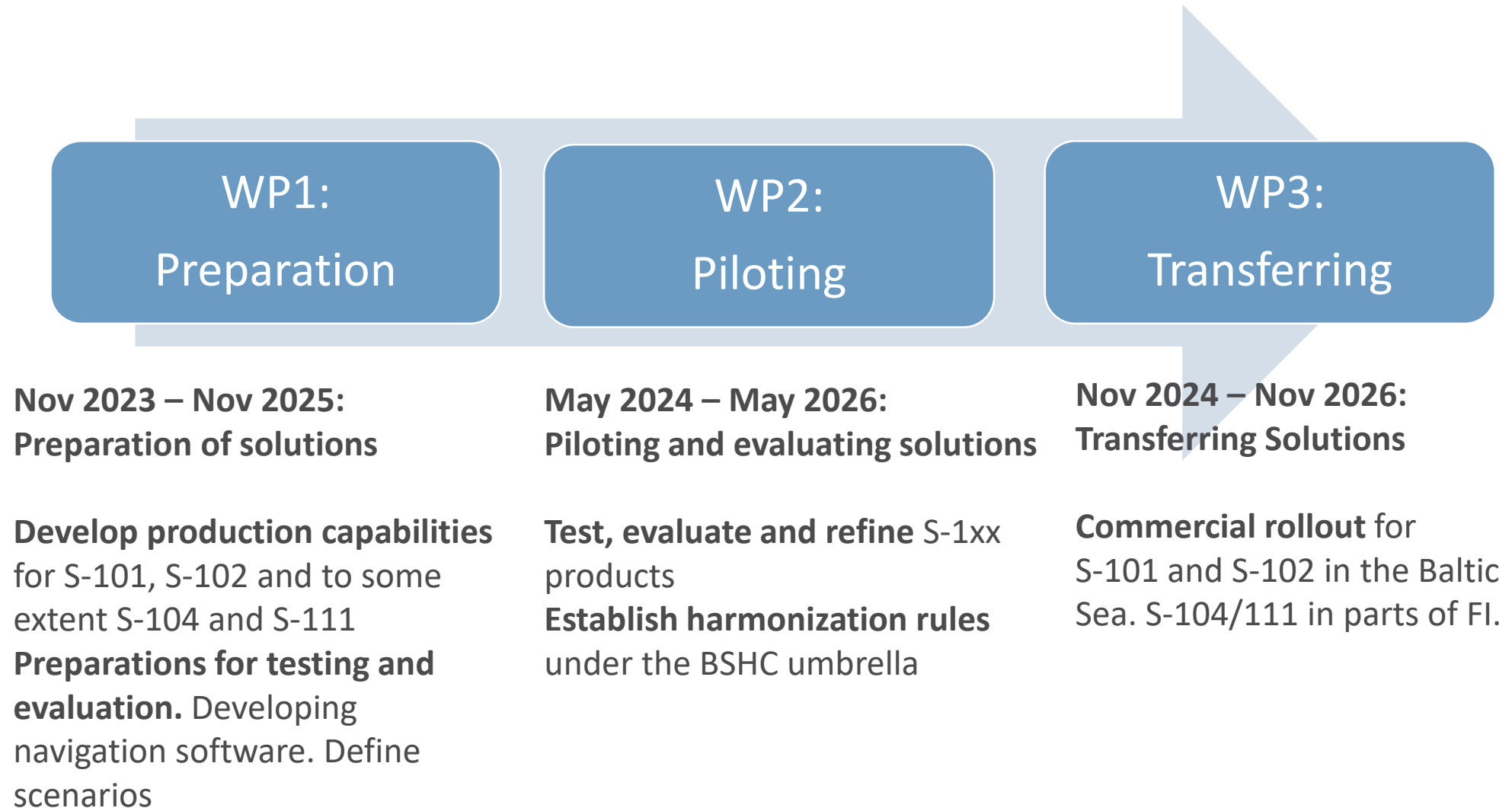
To this

**...but at sea!**

Implementation of S-100 means great possibilities for navigation:

- Individual sea charts – with dynamic depth curves
- Better decision-making tools – by information layering
- More efficient steaming – better data = shorter routes

# Project Structure/timeline



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MaDaMe

# MaDaMe – Maritime Data Methods for Safe Shipping

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# Project data

- Duration: 1.11.2023-31.10.2026
- Budget: 3,4 M€ (80% ERDF funding)
- Coordinator: Turku University of Applied Sciences

# Project goal

The MaDaMe project develops and pilots:

- **Digital Aids to Navigation (S-125)** information service incl. device status information
- **Digital Navigational Warnings (S-124)** information service
- **Digital technical VTS (S-212)** service

These services utilize technologies such as:

- **Maritime Connectivity Platform (MCP)**
- **VHF Data Exchange System (VDES)**

These technologies are under international standardization and the **MaDaMe project will contribute to the standardization in IALA and IHO.**

# Consortium

## Partners

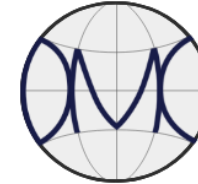
## Associate partners



Finnish Transport  
Infrastructure Agency



**Fintraffic**



REPUBLIC OF ESTONIA  
TRANSPORT ADMINISTRATION



SWEDISH MARITIME  
ADMINISTRATION



**IALA**



ESL Shipping



**NAVELINK**



National Institute  
of Telecommunications



# WP1: Preparing solutions

## GoA1.1 - Service development and deployment

Define requirements and operational procedures for the services (navigational warnings, Aids to Navigation information and VTS information)

## GoA1.2 - Cybersecure Service Delivery Platform

Develop Maritime Connectivity Platform (MCP) for piloting the services

## GoA1.3 - Communication System

Analyze the connectivity needs for the piloted services

Develop prototype VDES system for the pilots

	Period: 1	2	3	4	5	6
<b>WP.1: WP1 Preparing solutions</b>						
A.1.1: Service development and deployment						
D.1.1: Digital Navigational Warnings, digital Aids to Navigation (AtoN) and digital VTS servi				D		
A.1.2: Cybersecure Service Delivery Platform						
D.1.2: Messaging platform for services				D		
A.1.3: Communication System						
D.1.3: MaDaMe Communication System		D				







# Thank you for listening

Questions? Get in touch!

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