

# TRAFICOM

Finnish Transport and Communications Agency



## S-100 implementation and coordination in Finland

### Interim report

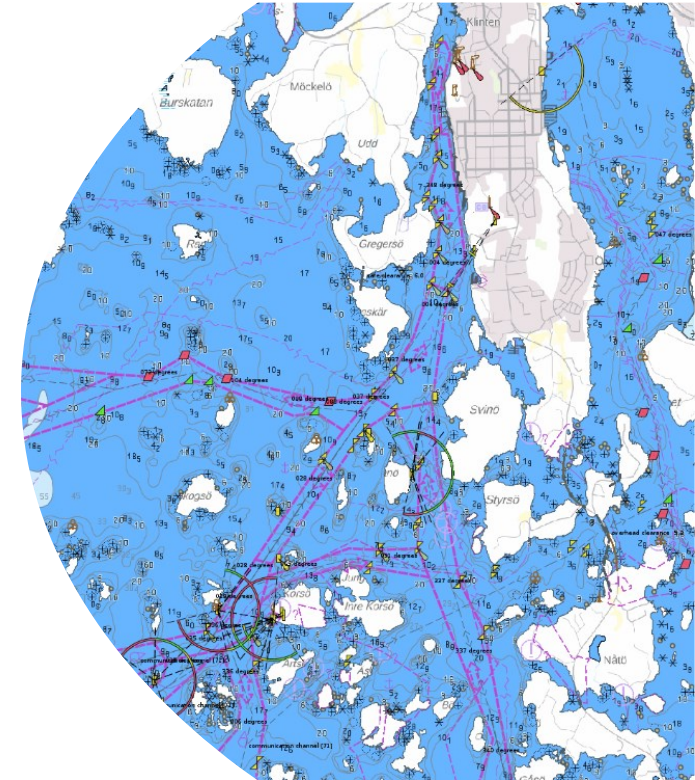
30<sup>th</sup> Baltic Sea Hydrographic Conference  
22 - 24 September 2025



# Status of Phase I S-100 production capability in Finland

## S-101 Electronic Navigational Chart (ENC)

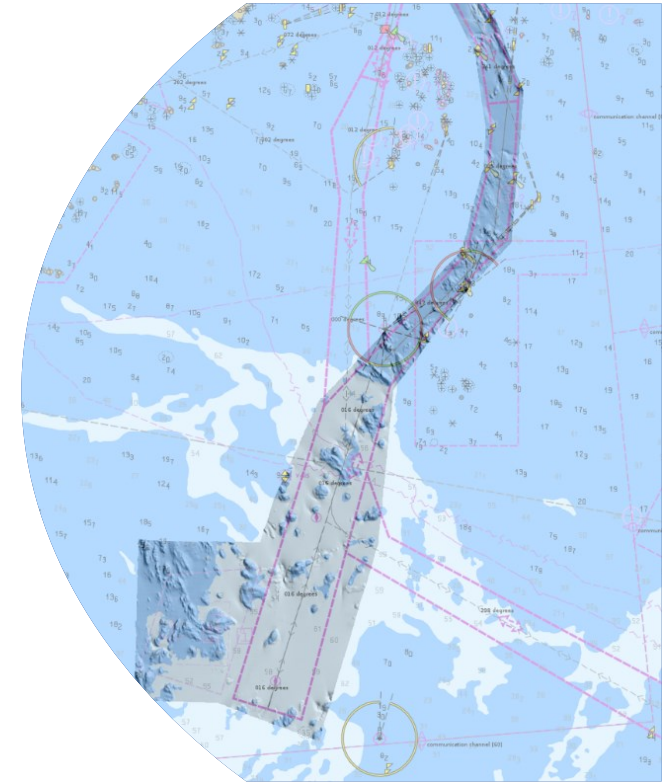
- ▶ Solution is based on an extended S-101+ data model in order to enable tri-fuel production (S-57 ENC, S-101 ENC and paper charts) from the one and only S-101+ source database.
- ▶ Product prototypes of S-101 2.0 have been released in Primar QABaltic server for the BS E-Nav project's piloting phase.
- ▶ Database conversion of production database in the end of October 2025
- ▶ The one-push database migration is scheduled at the end of October 2025 from where S-101 production will start.
- ▶ The dual fuel S-57/S-101 distribution services by PRIMAR is planned to start in January 2026.



# Status of Phase I S-100 production capability in Finland

## S-102 Bathymetric Surface

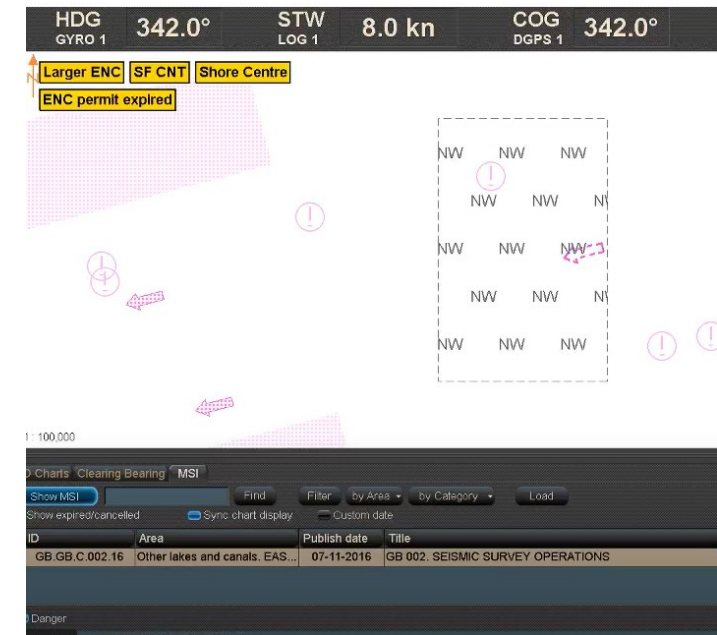
- ▶ **Product prototypes of S-102 3.0 have been released in Primar QABaltic server for the BS E-Nav project's piloting phase.**
- ▶ **Permission for coverage of S-102 products and min. resolutions have been settled in cooperation with the Finnish Defence Forces.**
- ▶ **S-102 Bathymetric Surface products will be published at the main ports and fairways, parallel with the first editions of the Approach S-101 ENCs.**
- ▶ **FIN S-102 distribution services by PRIMAR is planned to start in January 2026.**



# Status of Phase I S-100 production capability in Finland

## S-124 Navigational Warnings

- ▶ Traficom has initiated a development project (VILKKU) for
  - ▶ Developing a new navigational warning management system in collaboration with Fintraffic Ltd.
  - ▶ Establishing S-124 production capability in Finland.
- ▶ Fintraffic will operate a technical service for S-124 distribution.
- ▶ Project info
  - ▶ System development, testing and implementation 3-12/2025
  - ▶ Operational use January/2026 →



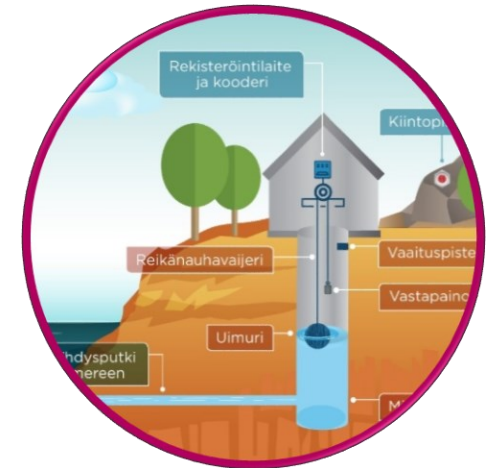


# Status of Phase I S-100 production capability in Finland

## S-104 Water Level Information to Surface Navigation

- ▶ Finnish Meteorological Institute will provide S-104 products on sea areas in the Baltic Sea.
- ▶ Product prototypes of S-104 2.0 are released in Primar QABaltic server for the BS E-Nav project's piloting phase.
- ▶ S-104 test products available since February 2025.
- ▶ S-104 production is currently under planning, looking into solutions and guidance for dissemination and service launch strategies (to ensure optimal implementation).

S-104  
Sea level

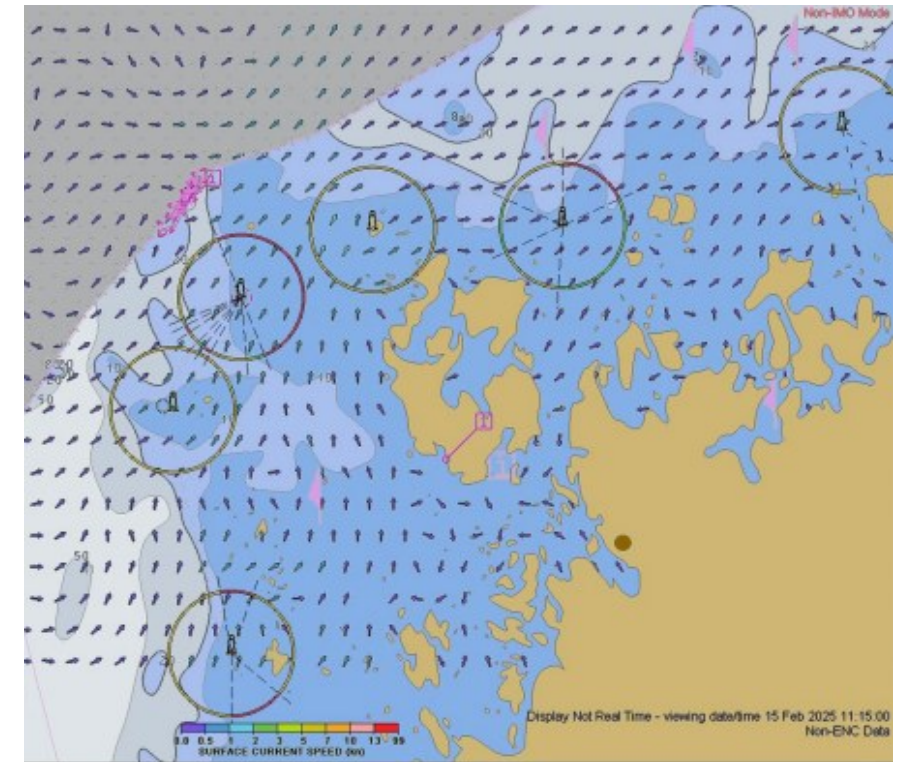


# Status of Phase I S-100 production capability in Finland

## S-111 Surface Currents

- ▶ **Finnish Meteorological Institute will provide S-111 products on sea areas in the Baltic Sea.**
- ▶ **Product prototypes of S-111 2.0 have been released in Primar QABaltic server for the BS E-Nav project's piloting phase.**
- ▶ **S-111 test products available since February 2025.**
- ▶ **S-111 production is currently under planning, looking into solutions and guidance for dissemination and service launch strategies (to ensure optimal implementation).**

S-111  
Surface Currents



# Status of 1. Phase S-100 production capability in Finland

## S-128 Catalogue of Nautical Products

- ▶ In the first phase of S-100 production, Traficom and FMI will not provide S-128 Catalogue of Nautical Products, since PRIMAR will have automated process for creating S-128 Catalogues for products such as S-101, S-102, S-104 and S-111.

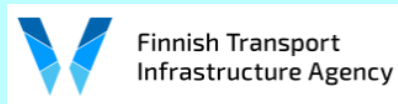
# S-100 timeline in Finland

| Products                      | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
|-------------------------------|------|------|------|------|------|------|------|------|
| ENC S-101                     |      |      |      |      |      |      |      |      |
| Bathymetry S-102              |      |      |      |      |      |      |      |      |
| Nav.Warnings S-124            |      |      |      |      |      |      |      |      |
| Water Level S-104             |      | ?    |      |      |      |      |      |      |
| Surface Currents S-111        |      | ?    |      |      |      |      |      |      |
| Catalogue of Naut.Prod. S-128 |      |      |      |      |      |      |      |      |
| Marine Traffic Mgnt. S-127    |      |      |      |      |      |      |      |      |
| Marine Harb. Infra. S-131     |      |      |      |      |      |      |      |      |



# National coordination of the S-100 implementation in Finland

## Cooperating parties



## Bilateral workshops 2024

**TRAFICOM – FTIA (3 session)**

**TRAFICOM – FMI (2 sessions)**

**TRAFICOM – Fintraffic (1 sessions)**

**Annual S-100 seminars since 2023**

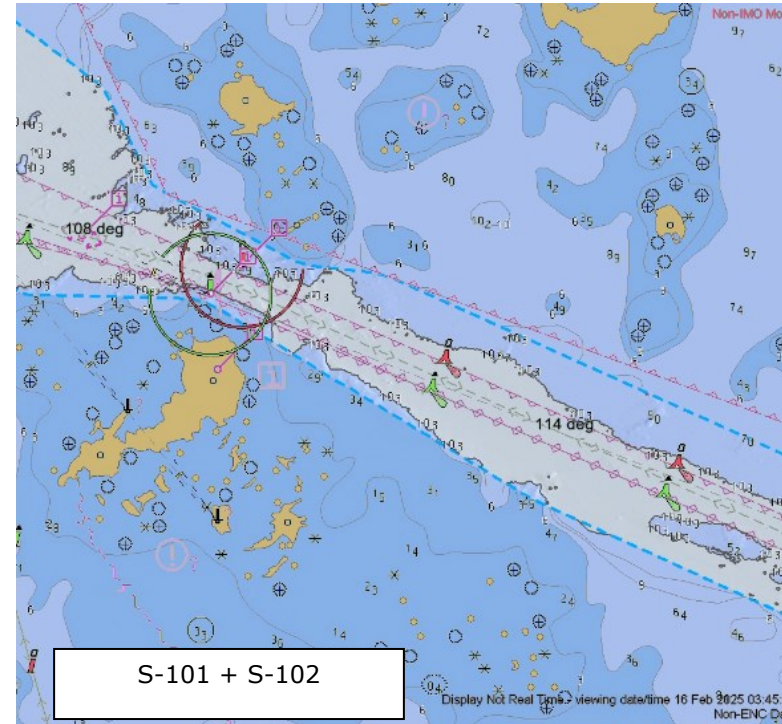
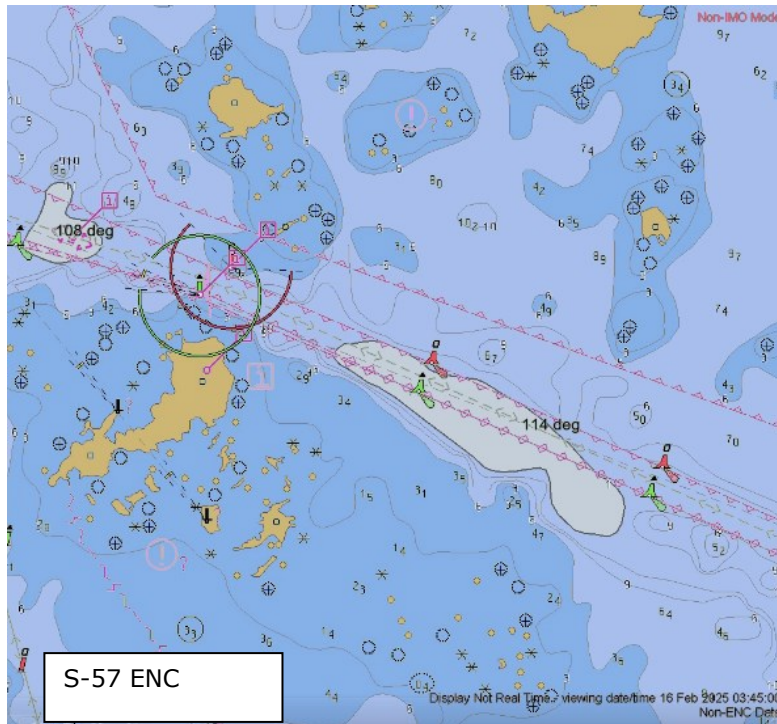
# National coordination of the S-100 implementation in Finland

## Progress in coordination

- ▶ **Finnpilot Pilotage Ltd has been joined the composition of the national coordination group.**
- ▶ **Traficom website consist information about e-navigation and S-100 in Finland. The plan is to provide news about achieved milestones on S-100 implementation as well as publish summary articles with links to S-100 related studies, pilots and user cases.**
- ▶ **Future work will include communication actions towards end users of S-100 products and services e.g. shipowners and other important maritime stakeholders in Finland.**

# National coordination of the S-100 implementation in Finland

**Mission onwards: To communicate S-100 products and services to Maritime stakeholders**



# Thank You

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