

S-100 – Status & plans for NHS



S100 Implementation priorities

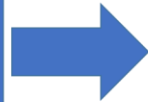
Phase 1 / Route Monitoring

**Phase 1
Route Monitoring Mode**

- S-101 ENC
- S-102 Bathymetry
- S-104 Water Level
- S-111 Surface Currents
- S-124 Navigational Warnings
- S-129 UKC Management

Critical Framework

- IHO Geospatial Information Registry
- S-98 Interoperability Specification
- S-100 Universal Hydrographic Data Model
- S-128 Catalogue of Nautical Products
- S-164 Test Data Set for S-100 and ECDIS Type Approval

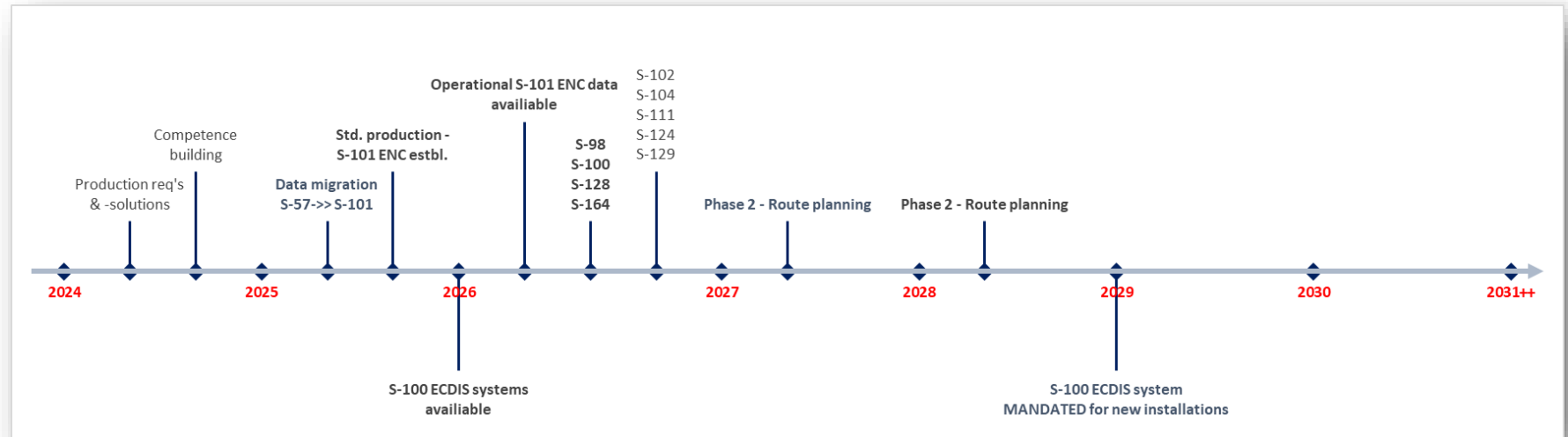


Phase 2 / Route Planning

**Phase 2
Route Planning Mode**

- S-122 Marine Protected Areas
- S-123 Marine Radio Services
- S-125 Marine Aids to Navigation (AtoN)
- S-126 Marine Physical Environment
- S-127 Marine Traffic Management
- S-131 Marine Harbour Infrastructure
- S-411 Ice Information (WMO)
- S-412 Weather and Wave Hazards (WMO)

+ S-100 Products used in Monitoring Mode



S-101 Electronic Navigational Chart (ENC):

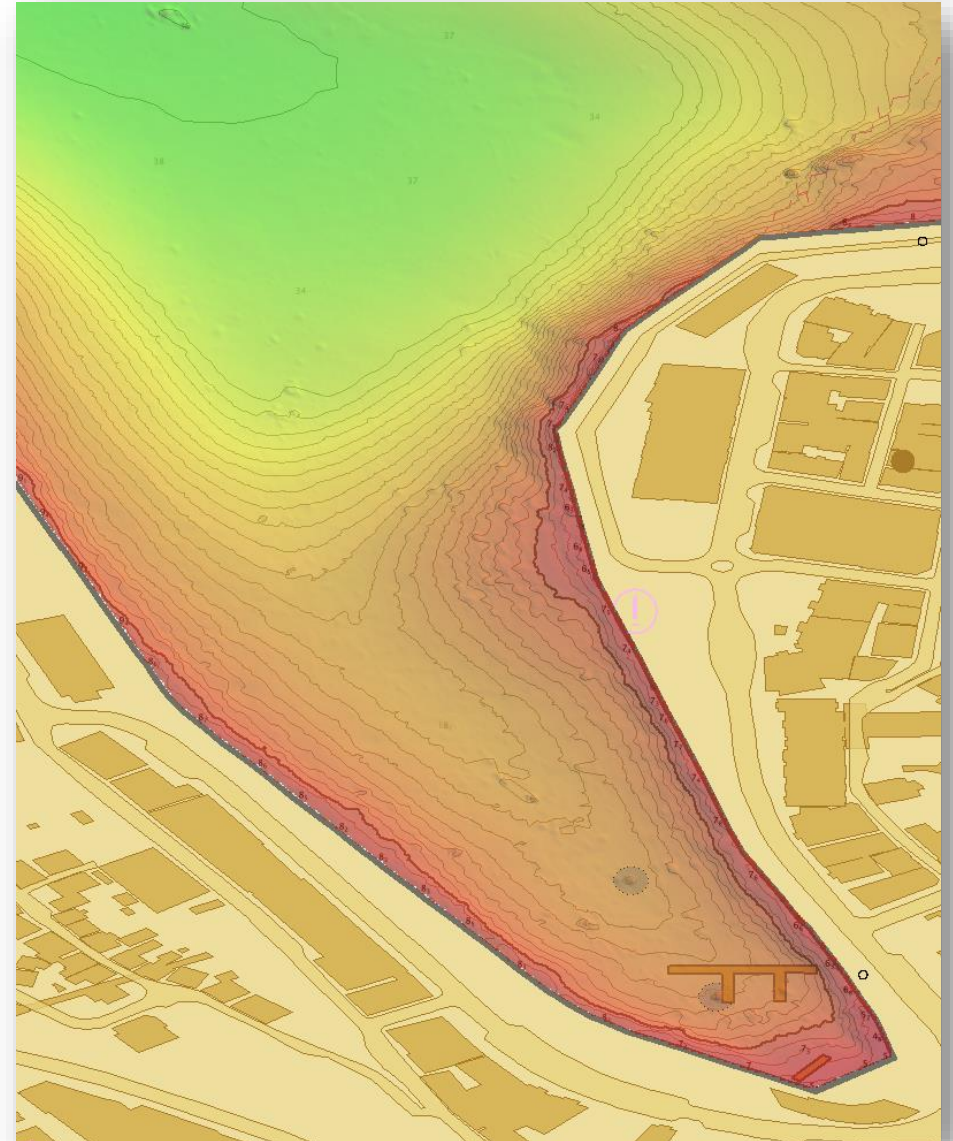
Operational data planned available : **Q2 2025**

Current activities:

- Competence building in professional environments, testing, systematization, planning and establishment of production and production setup

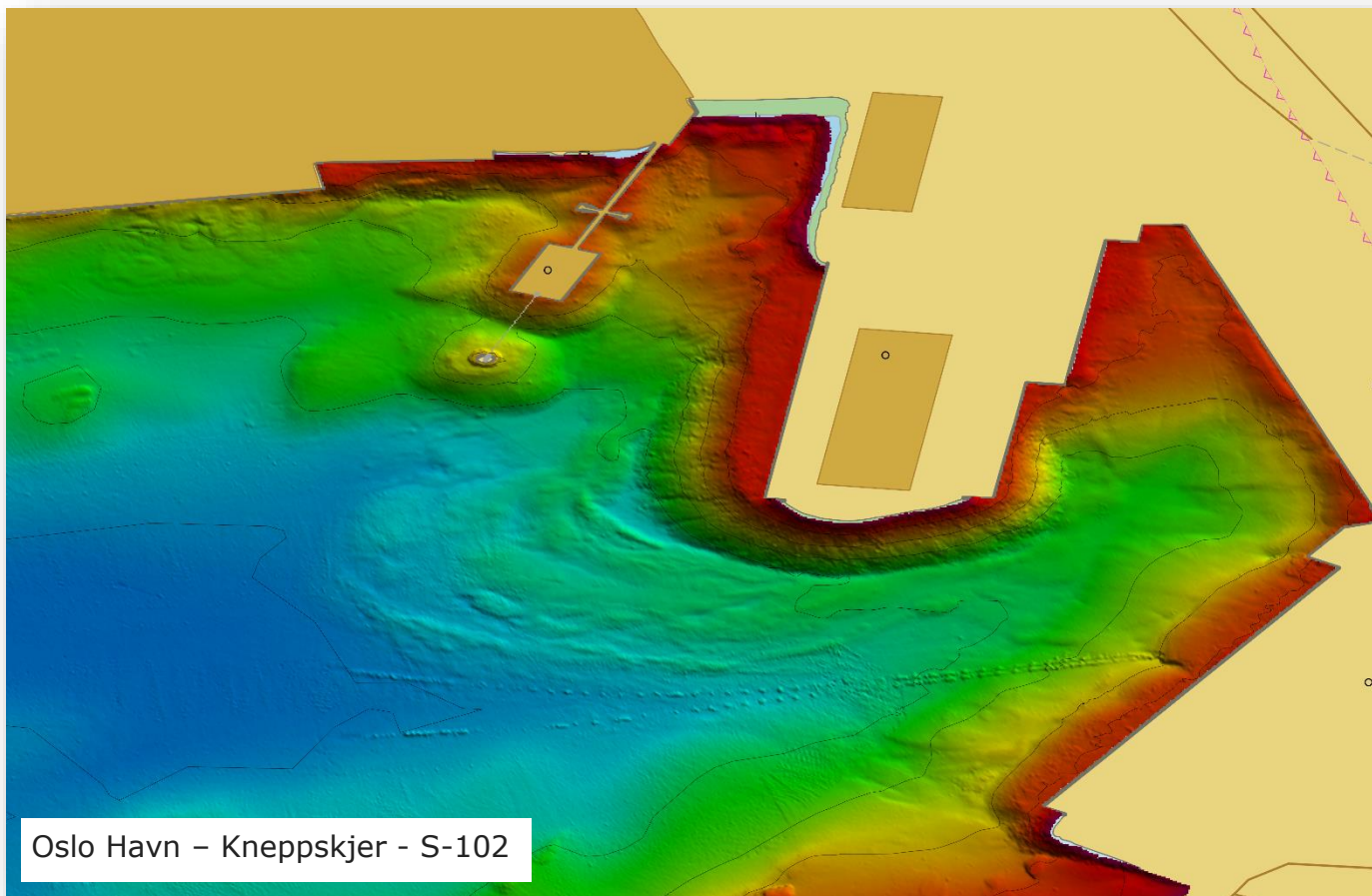
Planned activities:

- Data migration S-57
- S-101
 - Production, and maintenance, of the S-101 ENCs
 - Automatic establishment and maintenance of the S-57 ENCs
- Support for parallel deployment of S-57 and S-101



S-102 Bathymetric Surface:

Operational data planned available : **Q2 2025**



Current activities:

- Standard production and dissemination already established (Ed. 2.1.0)
- Selected ports are published (as official data)
- Special production and deliveries (limited and/or graded deliveries)

Planned activities:

- Standard production and dissemination already established (Ed. 3.0.0)

S-104 Water Level Information for Surface Navigation:

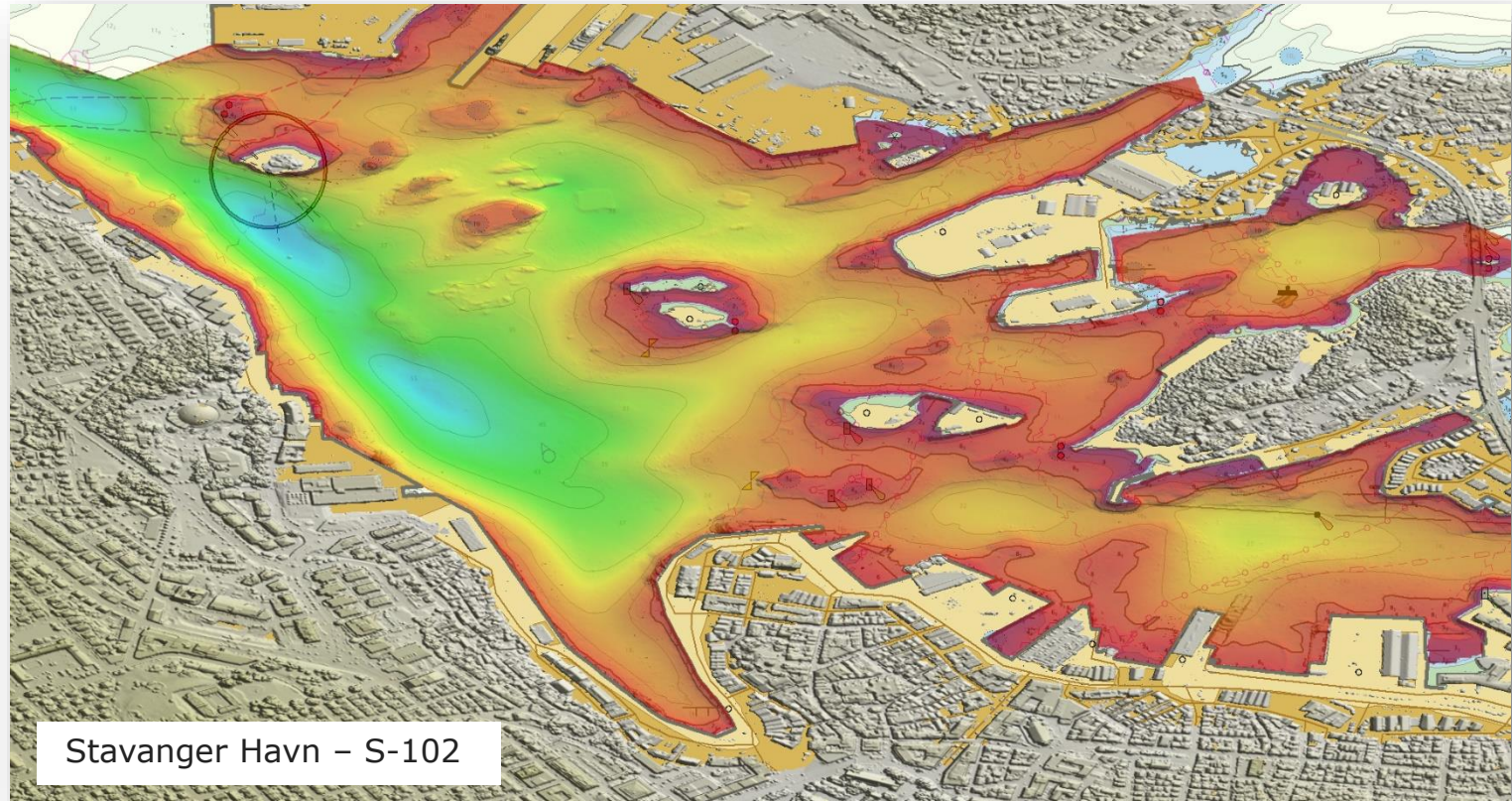
Operational data planned available : **Q2 2025**

Current activities:

- The data owner is NHS
- Test production is done

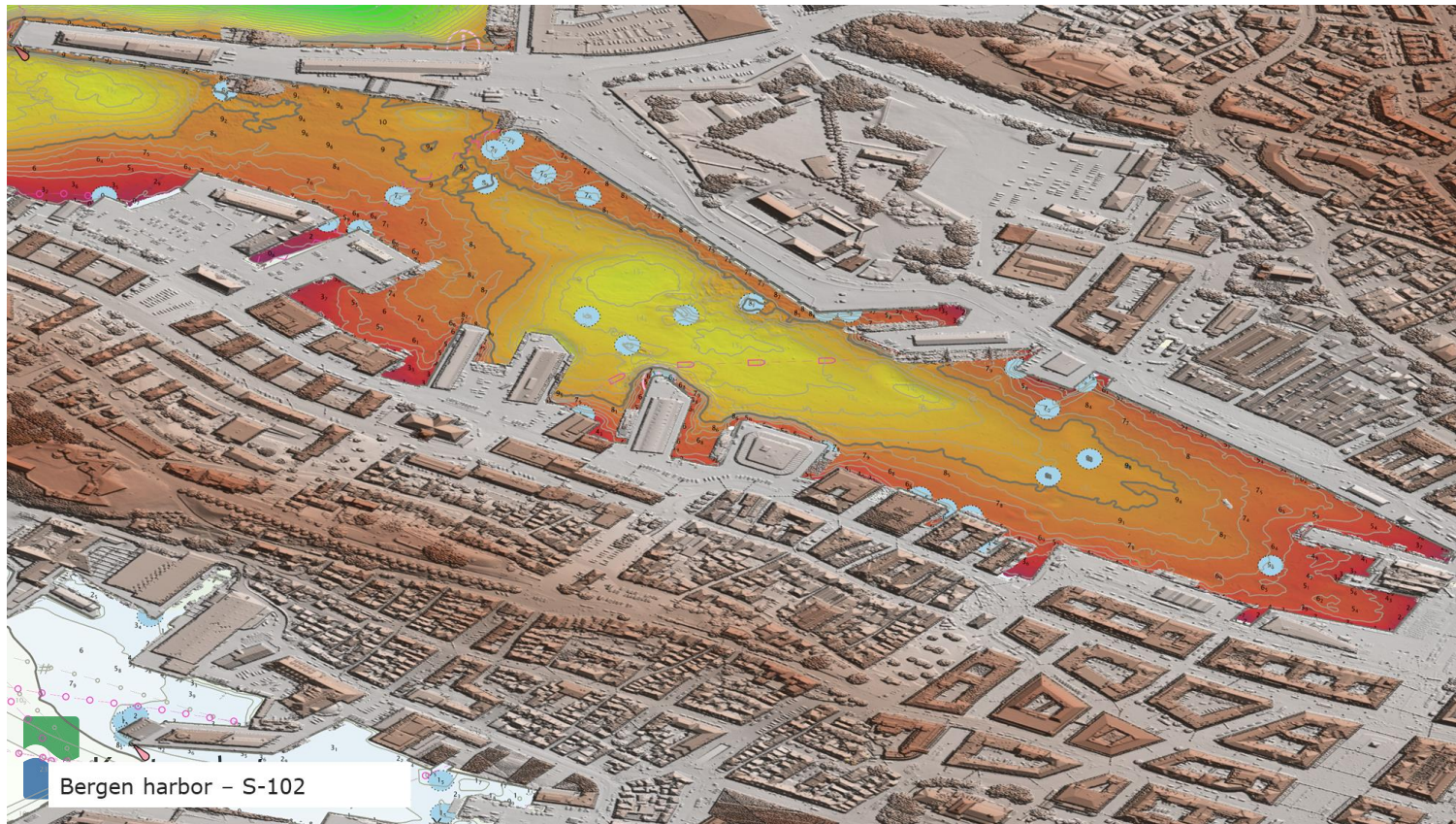
Planned activities:

- Establish an efficient and dynamic data and product flow
- Automated data product compilation
- Data access and dissemination must be automated



S-111 Surface Currents:

Operational data planned available : **Q3 2025**



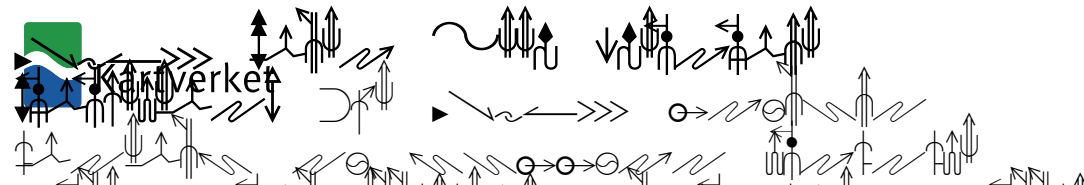
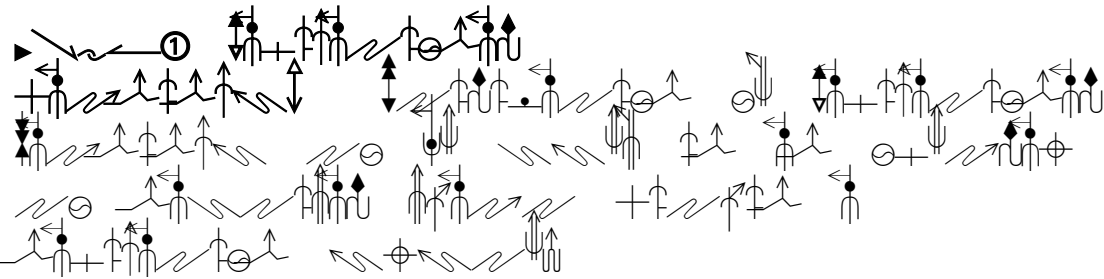
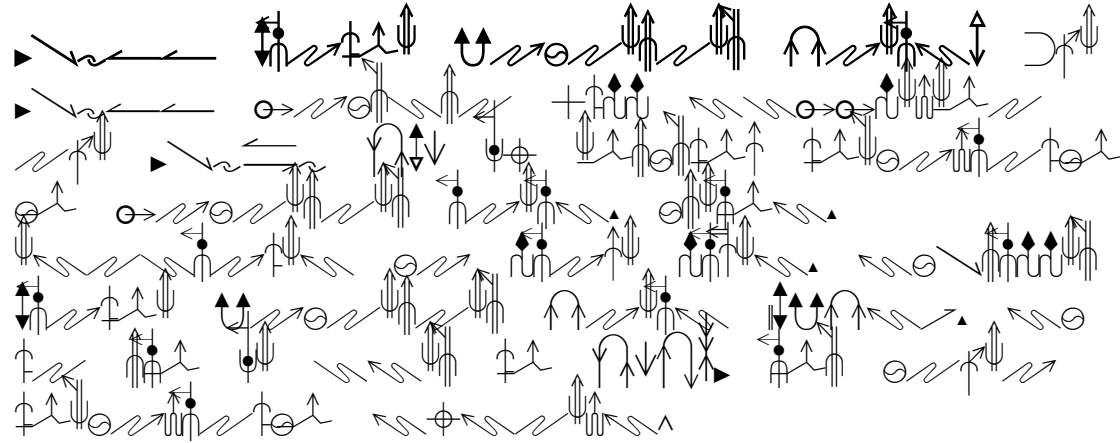
Current activities:

- Shared data ownership
- NHS accepted product owner role

Planned activities:

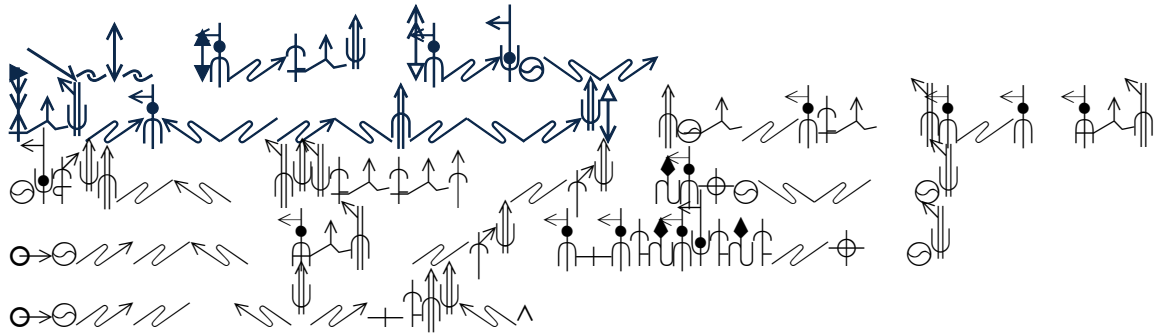
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Other plans & activities



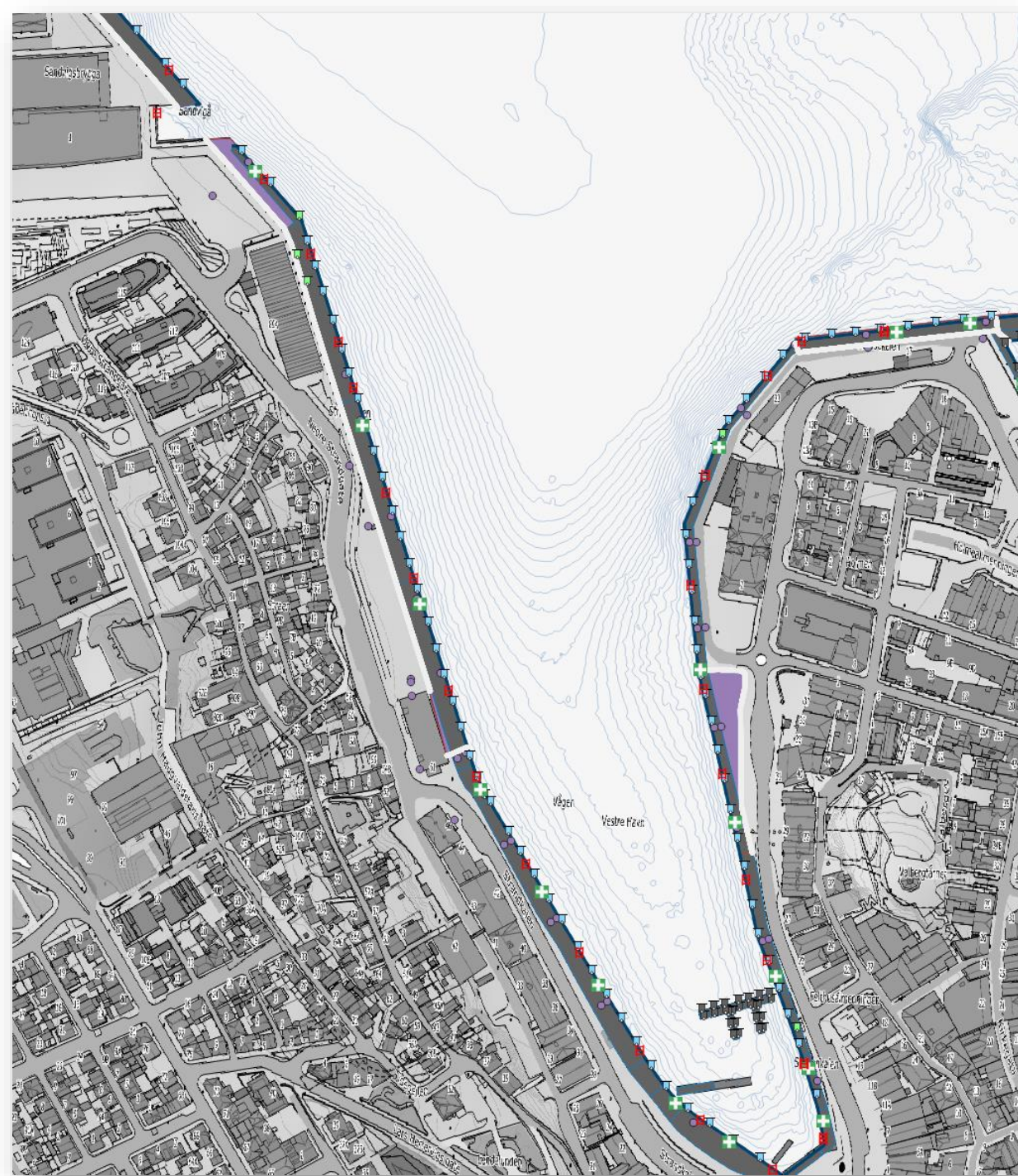
- ❑ Shared data ownership, external to NHS.
NHS have not taken any role in data compilation or production
- ❑ Data ownership external to NHS, owned by Norwegian Coastal Administration
NHS have not taken any role on data compilation or production, but collaborate with NCA on misc. services
- ❑ Data ownership complex and external to NHS
Dynamic product. Production, product compilation, distribution must be clarified

Other plans & activities



Open 101 Standard data platform ready: **after 2026**

- ❑ Production and product compilation not determined
- ❑ Spread and complex data ownership.
- ❑ Misc. governmental/public collaborations being explored
- ❑ Norwegian Harbor Data Standard 3.0 established and in use





Kartverket

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