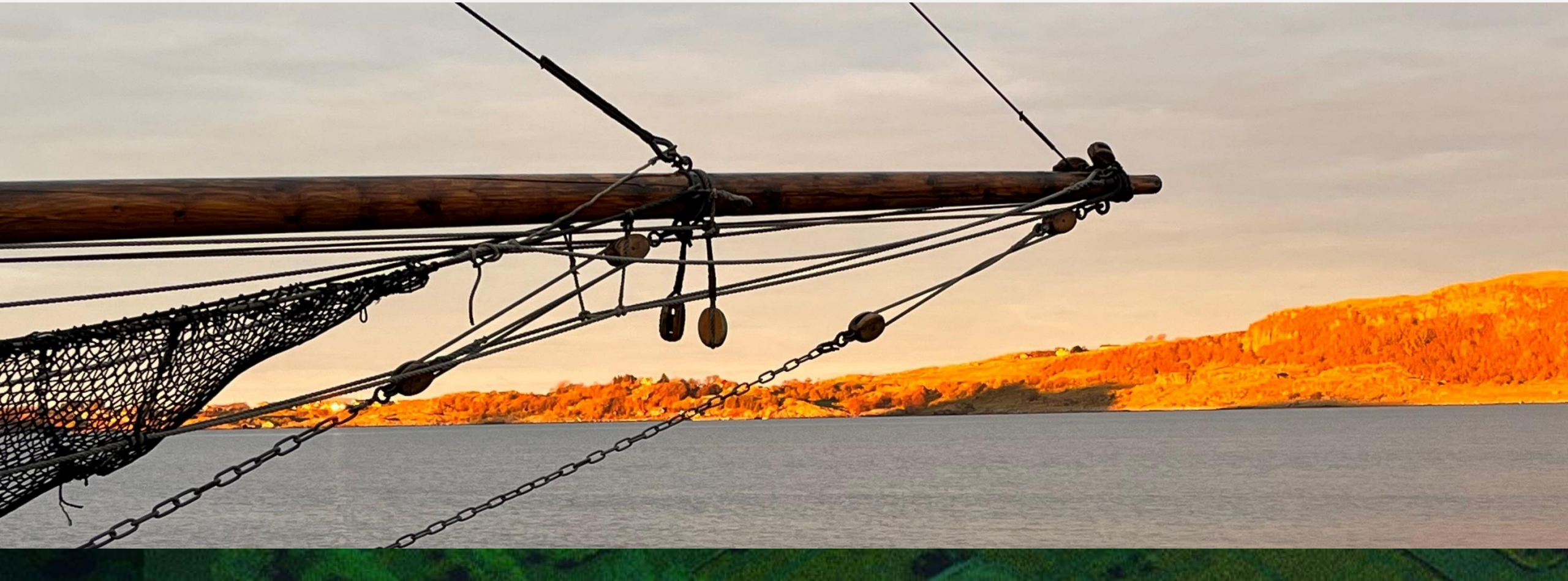# S-100 Implementation plans in Norway

Kartverket

What do you see as the three biggest challenges in implementing S-100 in your Hydrographic Office?

1. *Resource situation;*
   Traditional navigational products will have to be produced and maintained in parallel with S-100 production. This will have to be done utilizing the same resource pool. This define high requirements to the production environment, competence required and integration of production processes (where applicable)

2. *Balancing timing, cost and maturity;*
   Status and quality of the different standards and product specifications, availability of effective production toolset(s), readiness for the OEM's and the users (market acceptance)

3. *Complex and diverse data owners;*
   For some of the S-100 products the data input, source data, originates from several different «data owners». Actual ownership to the S-100 products may differ from data owner to data owner, which will complicate ownership to the product and subsequently given prioritization. NMA/NHS have started discussions with some data owners om several levels, currently focusing on e.g., S-104 and S-111.

Kartverket

Do you expect that implementation of S-100 will change your current production processes? Will it impact the structure of your organization (i.e. need for new capacities, skills etc.)?

- *NHS have already started with S-102 production, focusing on selected ports and harbors, narrow passages etc.. The production of S-102 have been made utilizing existing production steps, with an additional product output.*

- *Production processes for some of the other S-100 products, e.g.. S-101, S-104, S-131, must be solved utilizing existing production line and toolsets, maybe optimized, upgraded and improved, but still managed as one productionline. This to better utilize and maintain needed competence, optimize production resource demands and automate the (parallel) product outputs (from the same process).*

- *Some S-100 products are new products and will as such require new process to be established. This including an efficient and secure data flow (from misc. data owners) to products.*

Kartverket

ROK and Canada have both been running National S-100 Committees to enable coherent national S-100 implementations Instructions for the Submission of Reports and Proposals for Consideration by HSSC (iho.int). Have your offices initiated anything similar, or what is your office's/your country's approach to the role as National S-100 coordinator?

It is our goal to provide S-1XX services for Norway to end-users through PRIMAR as fast as possible:

• Cooperation between our Coastal Administration and us, will invite our Meteorological Institute once cooperation with Coastal Adminstration more mature

• Based on IHO implementation roadmap

• Select three most important S-1XX services that are closest to implementation

• ECC will execute a gap analysis against existing formats

• Data owners to estimate resource use for development and to proceed with development

• ECC to estimate resource use for development of distribution through PRIMAR

• Development kan take place through PRIMAR and through cooperation with the Coastal Administration and the Meteorological Institute.

Kartverket