

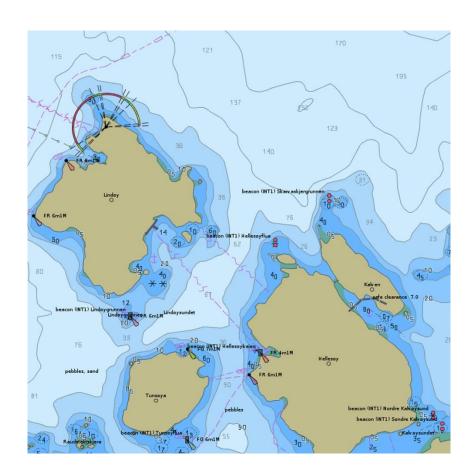
## PRIMAR RENC

Hans Chr. Lauritzen, Director PRIMAR



#### What is PRIMAR?

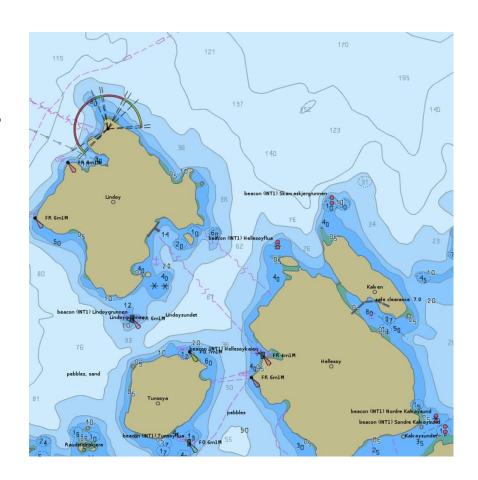
- A Regional ENC Coordinating Centre (RENC)
- Established in 1999
- Operated on a non-profit basis by the Norwegian Hydrographic Service in close cooperation with Electronic Chart Centre (ECC).
- Located in Stavanger, Norway





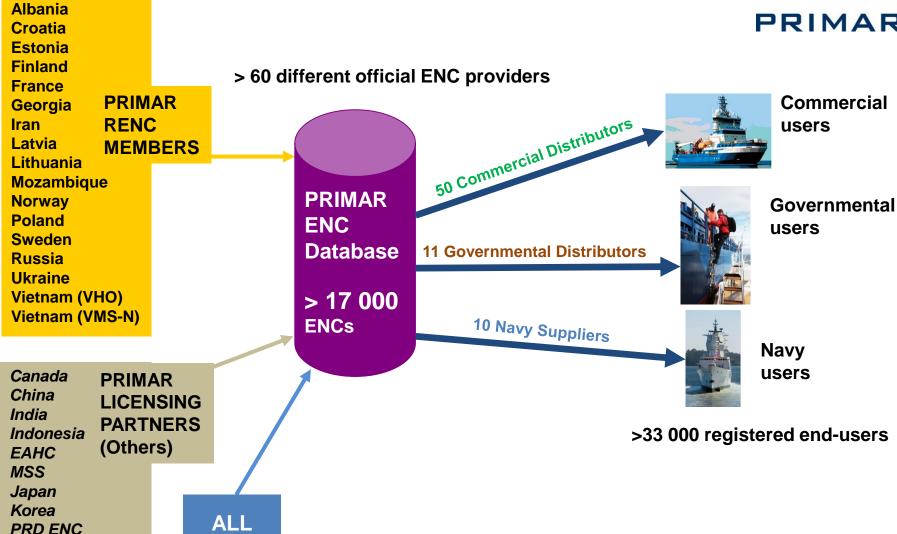
## What does PRIMAR?

- Provides a consistent and reliable electronic navigational chart (ENC) service world-wide.
- Fully compliant with IHO guidelines, principles and standards.
- PRIMAR RENC:
  - 17 members
  - ENCs from more than 70 different nations available in the PRIMAR ENC service.



## **PRIMAR RENC** value chain





**IC-ENC** 

RENC DATA

Singapore NTOU (Taiwan)

## **PRIMAR Training Portal**



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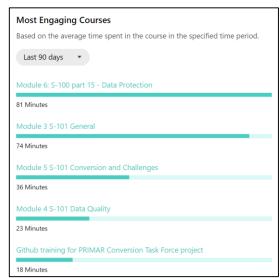
**FREEDOM TO CHOOSE** 

#### **Status**



- Launch of PRIMAR Learnworlds training portal June 2021
- 6 modules S-100/S-101:
  - S-100: Data Model, IHO Registry and Part 15 Data Protection.
  - S-101 General, Data Quality, Conversion Challenges.
- 5 modules S-100/S-102:
  - S-100: Part 8 Imagery and Gridded Data, Part 2 HDF5 Data Model.
  - S-102 Product Specification, Data Encoding Format, Portrayal.
- High usage rate
  - 210 students\*
  - 191 certificates

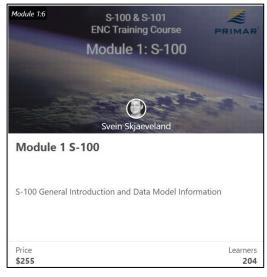


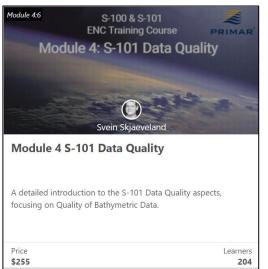


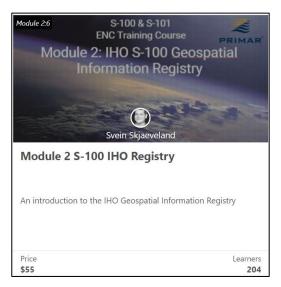
<sup>\*</sup> PRIMAR MS = 210 students/Others = 104 students

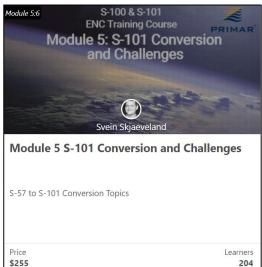
#### 2021

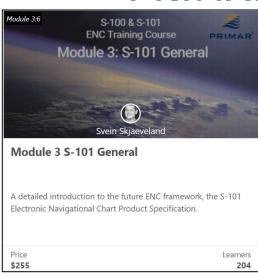


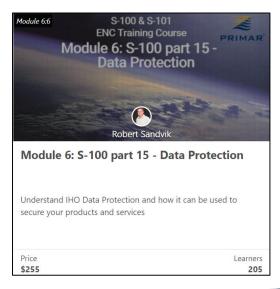






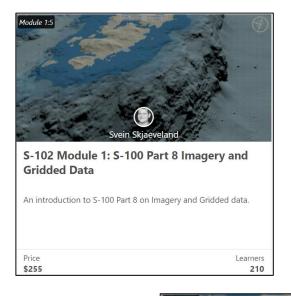


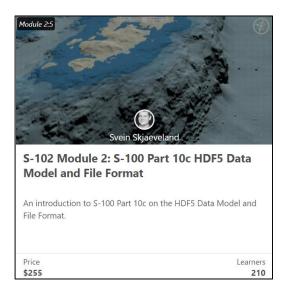


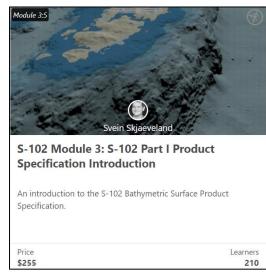


## 2022







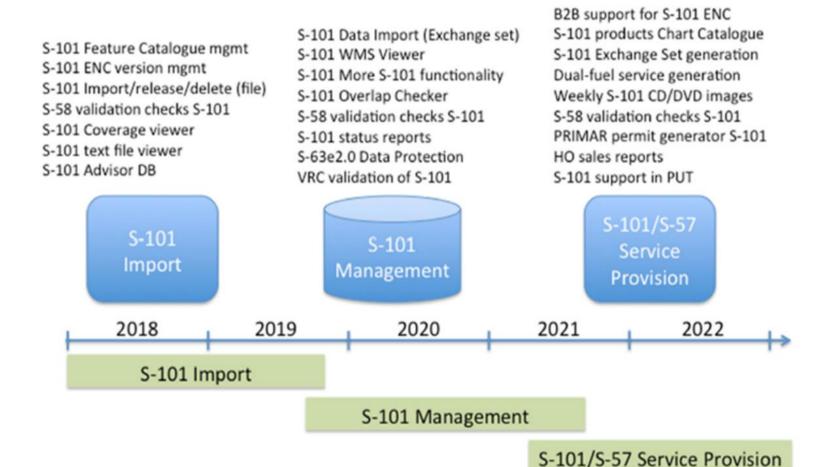






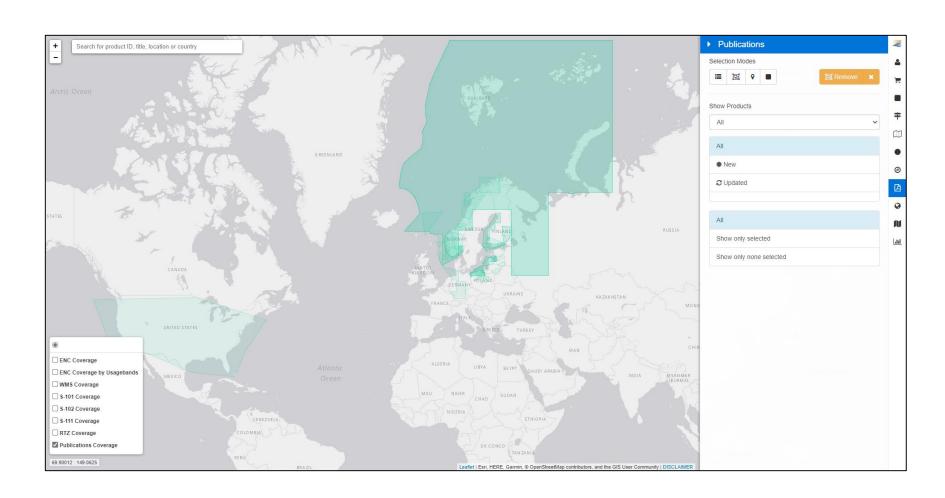
## **PRIMAR S-101 Project Status**







## **PRIMAR Chart Catalogue-Publications**





## S-100 World

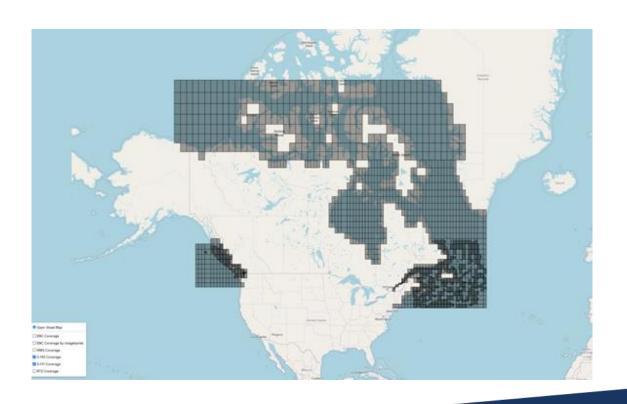
- S-101 (ENC)
- S-102 (Bathymetri)
- S-104 (Water Level information)
- S-111 (Surface Currents)
- S-129 (Under Keel Clearance)





## **PRIMAR S-100 Service**

- The S-100 Service was launched July 2020
- Contains more that 2500 S-102 / S-111 from CHS
- Encrypted by S-100 part 15



## **PRIMAR Conversion Task Force Project**



- Task force to evaluate options and tools and provide guidance to Member States and IHO Working Groups
- Test conversion and validation for:
  - S-57 to S-101
  - S-101 to S-57
- Establish data conversion and validation guidelines and establish forum for exchange of experiences
- Identify resource requirements and data conversion/dual-fuel production strategies
- Improved commercial software and functionality for data conversion and validation



## PRIMAR 2022 focus and achievements

- Launch of the Nautical Publication Service
- Further development of S-100 Service.
  - S-104
  - S-124
- Expansion of the PRIMAR Training Portal
- S-101 Conversion Task Force project
- SECOM E-Navigation project
- Upgrade of Chart Catalogue
- Finish the S-101 service development



# Thank you for your attention Questions?

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