



PRIMAR NIOHC 17

Hans Chr. Lauritzen, Director PRIMAR

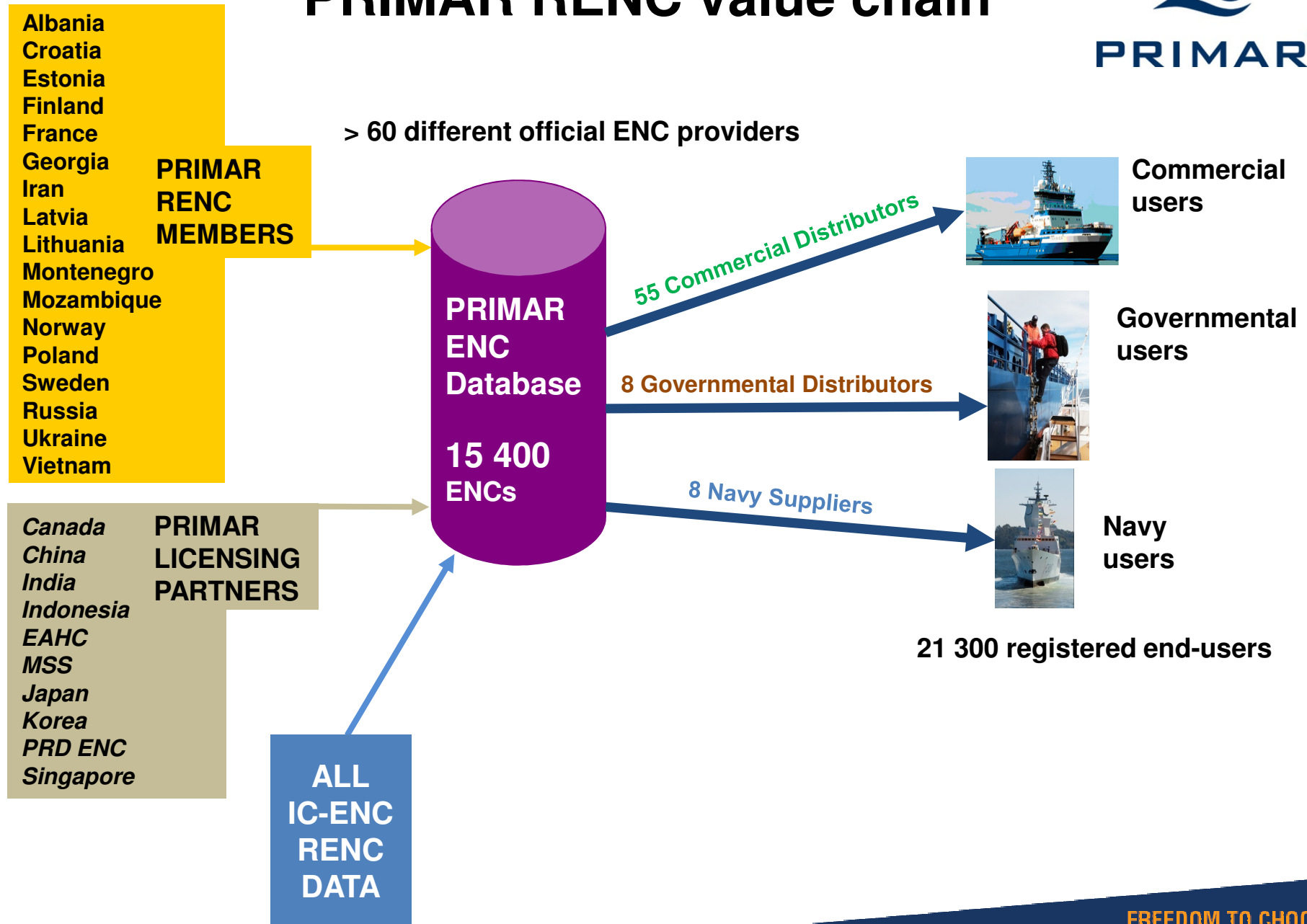
Operated by the Norwegian Mapping Authority, Hydrographic Service

FREEDOM TO CHOOSE

PRIMAR's Vision

IN ORDER TO ENHANCE SAFETY AT SEA AND PROTECT THE MARITIME ENVIRONMENT, PRIMAR'S VISION IS TO BE THE MOST EFFICIENT MODEL FOR THE PROVISION OF ENC SERVICES AND MARITIME GEOSPATIAL DATA WORLDWIDE.

PRIMAR RENC value chain



FREEDOM TO CHOOSE

PRIMAR validation and ENC database



PRIMAR ENC validation philosophy:

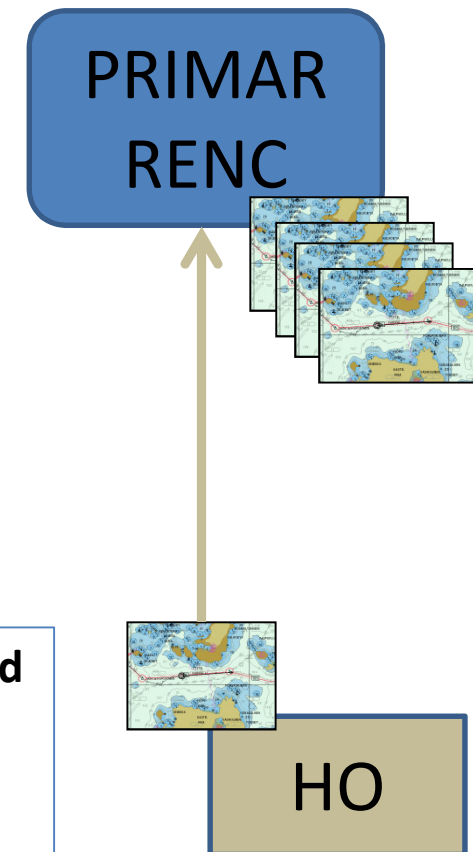
- HO has 24/7- 365 access to PRIMAR via web (VPN)
- Online validation tools available to HOs
- Increase HO competence in ENC validation
- HO in full control of own data: Upload, validate, download, delete and release data in VPN

Average PRIMAR ENC validation times:

- Update: 10 minutes
- New edition: 10 – 20 minutes
- New ENC: 2 hours

Average PRIMAR ENC release times (from HO makes first upload to HO release):

- Update: 29 hrs.
- New edition: 21 hrs.
- New ENC: 8 days



PRIMAR Validation Experience

- Performed ENC QC and validation since 1999
- Performed ENC QC on >55.000* ENCs and new editions, 135.000* update files and 62 million* ENC quality issues from more than 60 ENC providers
- PRIMAR ENC QC best practice procedures based upon
 - More than 62.300.000 recorded ENC quality issues (VRC)
 - More than 1500 different error types identified in S57 data
 - In-house developed graphical and unique ENC QC functionality available online to PRIMAR member states
 - In-house developed online functionality for automatic testing and identification of majority of above ENC QC error situations
- Active participation in relevant IHO Working Groups (S57, S58, S63, S10x)

*(numbers as of 2016)

In-house Developed Validation tools

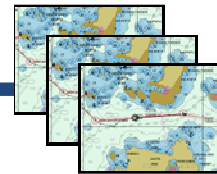
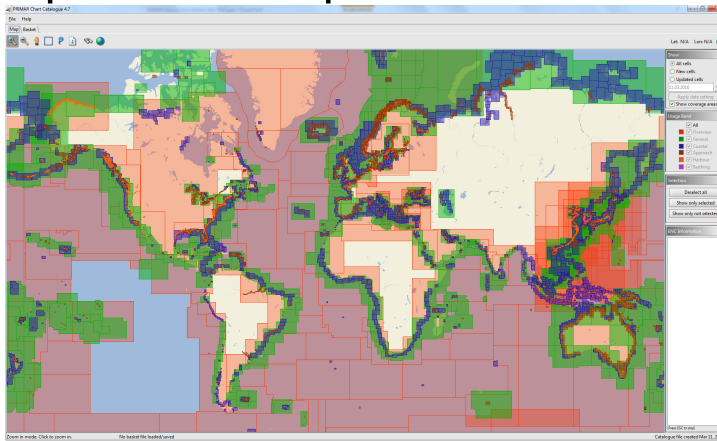
- Virtual PRIMAR Network (VPN) for data transfer and data management
 - S58 Upload Checks performed during the upload of data
- Validation Report Checker contains all the functionality for ENC Validation
 - Checking of validation logs from dKart Inspector and ENC Analyzer
 - Overlap Checker for overlapping candidates
 - Consistency checker for horizontal and vertical ENC consistency
 - S58 Upload Checks performed during the upload of data
 - ISO8211 to text converts EN/ER file to readable format
- S57 Advisor (Errors database) containing error/warnings discovered from validation tools



PRIMAR Navy / Governmental Supplier Services



- Supply ENCs to your Navy / Governmental users.
- Access to PRIMAR global ENC database.
- Easy operation from the PRIMAR Chart Catalogue.
 - Register and add users, Create ENC portfolios, Activate area of interest, View orders/reports, View licensee status, Download ENC updates and permit files etc.

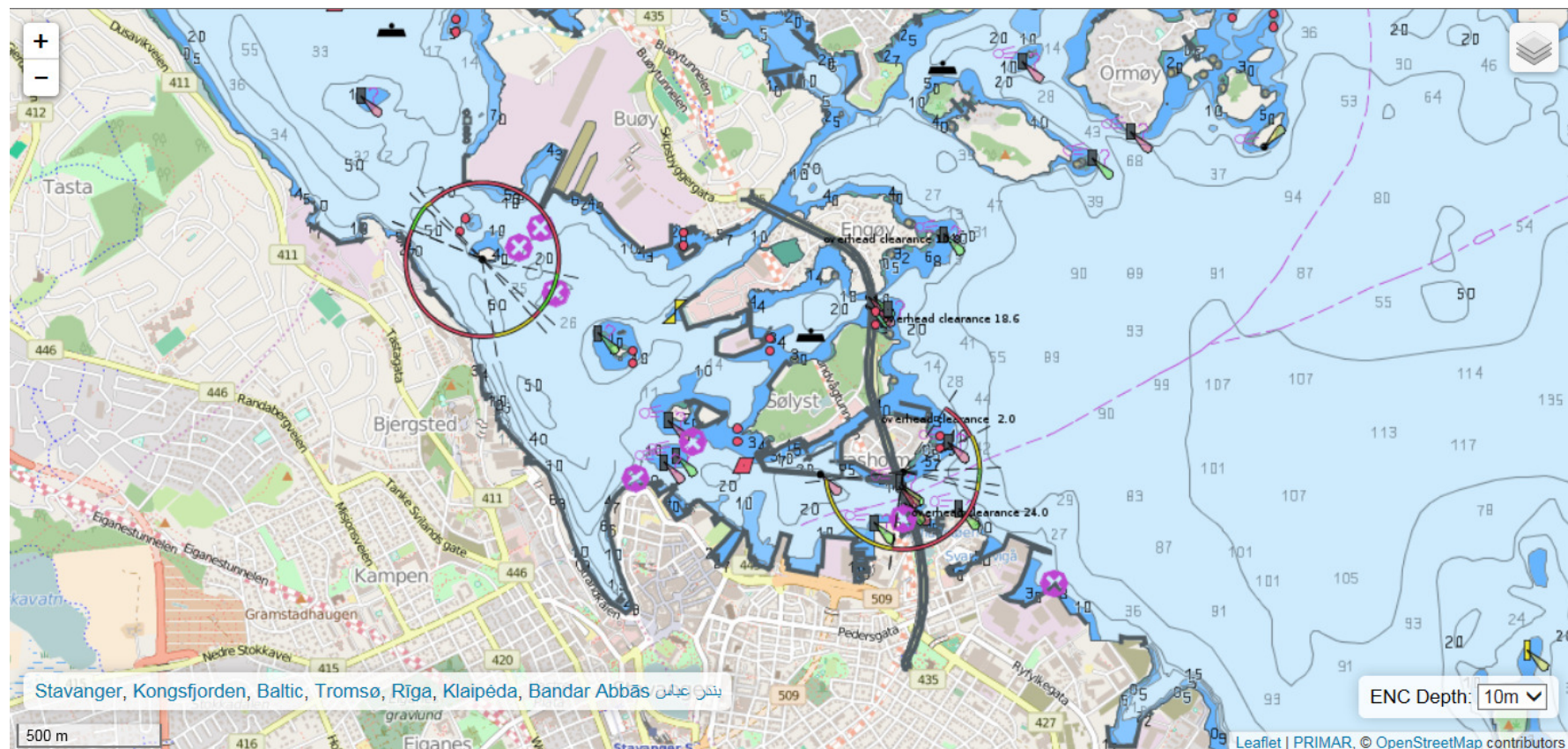


**Navy
users**

PRIMAR Web Chart Service



Fulfill your MSDI needs. Combine data from several sources and supply to your Governmental users.



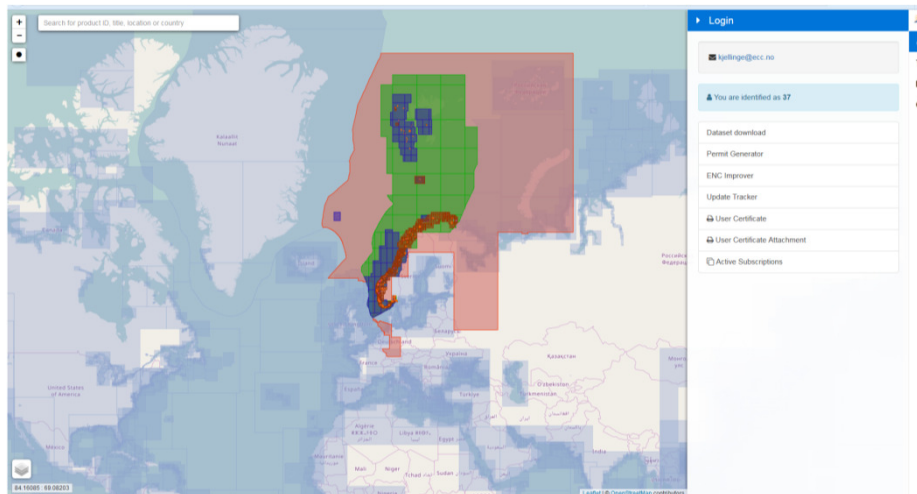
FREEDOM TO CHOOSE

PRIMAR updates for 2017

- New RENC financial model from 1.1.2017
 - PRIMAR charges members a fixed fee pr. commercial and national ENC transaction.
 - 1.0 USD Commercial transaction
 - 1.4 USD National transaction (Navy – Governmental)
- New PRIMAR RENC members 2017
 - Albania
 - Vietnam

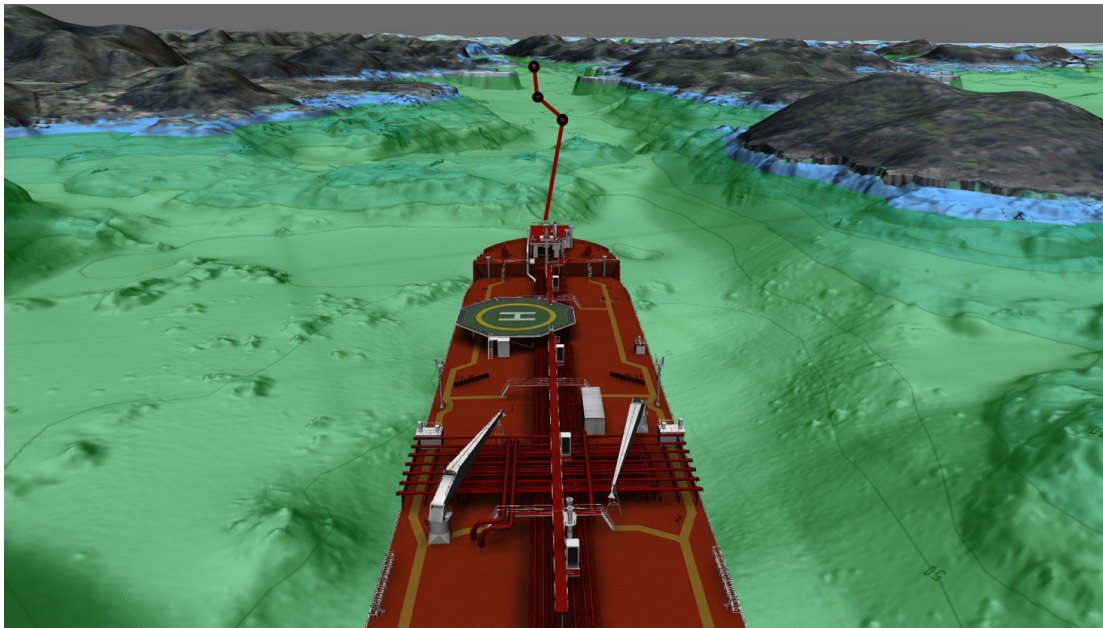
PRIMAR updates for 2017

- Major technical upgrade started 2016. TBC Oct 2017.
 - Functional and technical improvement of PRIMAR Chart Catalogue. Benefit for HO's, Governmental - , Navy – and Commercial distributors.



PRIMAR updates for 2017

- S-102 upload, validation, viewing, encryption and distribution.



- Start of PRIMAR S-101 development.

Additional information

- PRIMAR annual report 2016:

[https://www.iho.int/mtg_docs/com_wg/WEND/WENDWG7/WENDWG7-04.3C2a PRIMAR%20annual%20report%202016.pdf](https://www.iho.int/mtg_docs/com_wg/WEND/WENDWG7/WENDWG7-04.3C2a_PRIMAR%20annual%20report%202016.pdf)

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