

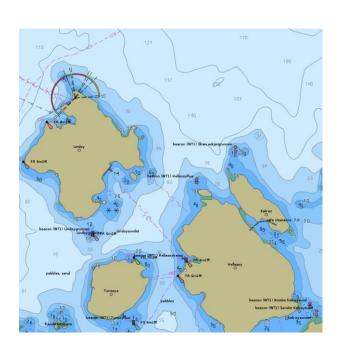
PRIMAR RENC services and updates

Evert Flier, Director NHS SAIHC, Cape Town 30 - 31 September 2016



What is PRIMAR?

- PRIMAR is a Regional ENC Coordinating Centre (RENC) located in Stavanger, Norway. In operation since 1999.
- PRIMAR is operated on a non-profit basis by the Norwegian Hydrographic Service in close cooperation with the Electronic Chart Centre (ECC).
- PRIMAR operates fully compliant with IHO guidelines, principles and standards.
- PRIMAR has been ISO certified since 2005.





What does PRIMAR?

- Provide cooperating hydrographic offices with operational and technical support and services in their work to produce, quality control and deliver harmonized ENCs.
- Marketing and ENC sales on behalf of the HO.
- Provides a consistent and reliable electronic navigational chart (ENC) service world-wide.
- Provide all actors with responsibilities for safety of navigation and protection of the maritime environment with accurate up-to-date maritime geospatial data.
- Has a continuous focus on technology and innovation.



Governing Body and Sub-Groups

PRIMAR Advisory Comitee (PAC)

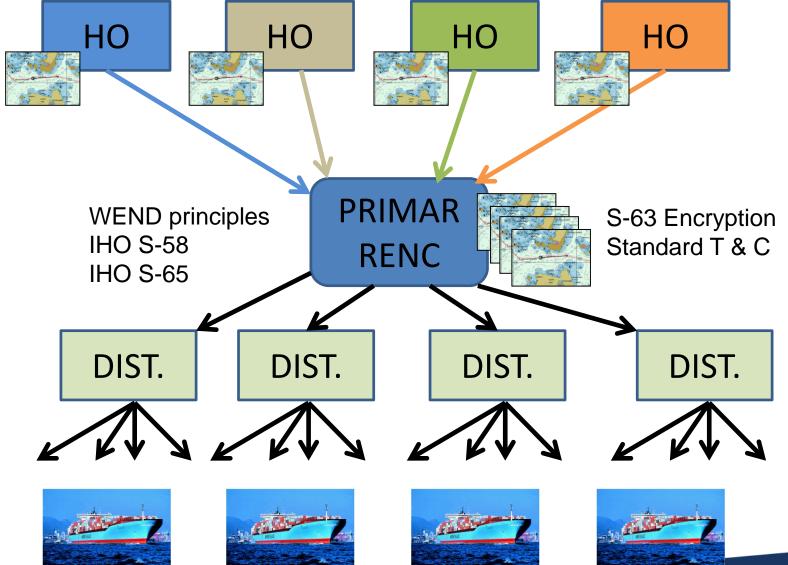
PRIMAR Strategic Working Group (PSWG) PRIMAR Financial Working Group (PFWG)

PRIMAR
Marketing
Working
Group
(PMWG)

PRIMAR
Technical
Working
Group
(PTWG)

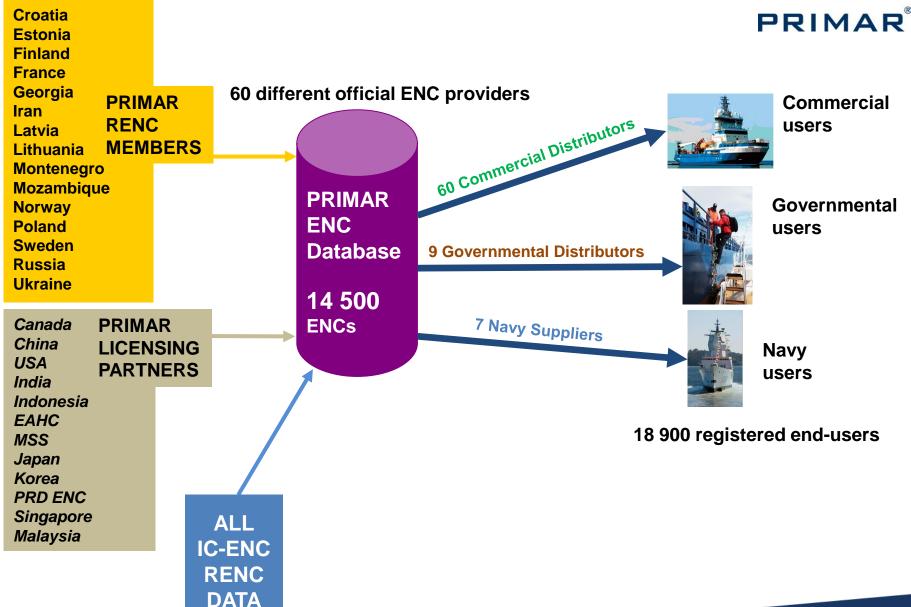
ENC Distribution through PRIMAR





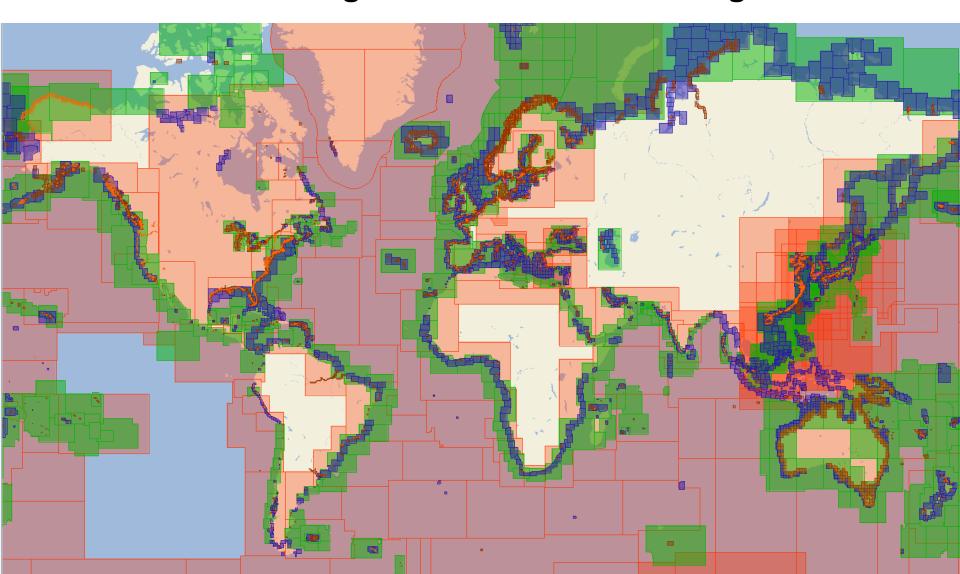
PRIMAR RENC value chain







PRIMAR Chart Catalogue – Global ENC Coverage





PRIMAR capacity building

- 6 PRIMAR training courses arranged during 2015 / 2016.
- Training provided in ENC production support and PRIMAR tools for ENC delivery, validation and quality control.
- Training provided for 12 nations with 46 participants in total.





PRIMAR Governmental Supplier Services







PRIMAR ENC Distribution



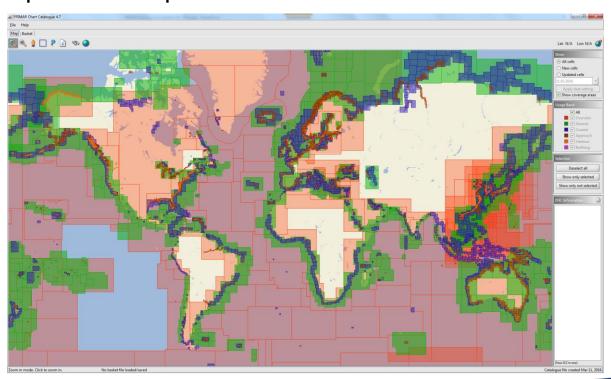


PRIMAR supports a wide range of services to assist hydrographic offices in meeting their national requirements.



PRIMAR Navy / Governmental Supplier Services PRIMAR®

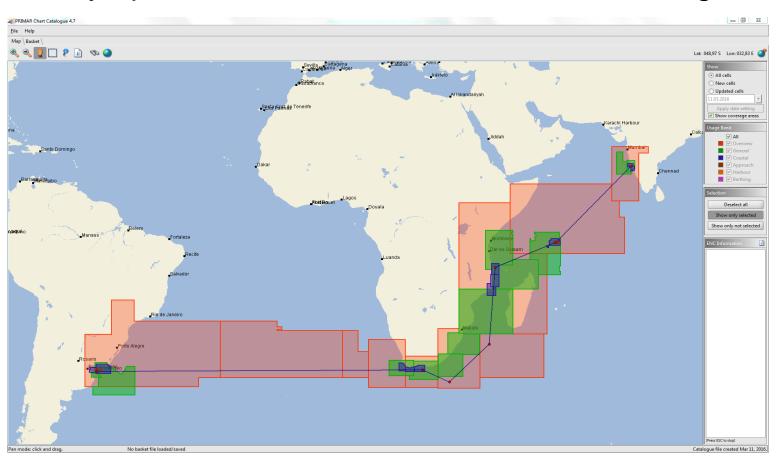
- Easy operation from the PRIMAR Chart Catalogue
 - Register and add users, Create ENC portfolios, Activate area of interest, View orders/reports, View licensee status, Download ENC updates and permit files etc.





PRIMAR Navy / Governmental Supplier Services PRIMAR®

Easy operation from the PRIMAR Chart Catalogue



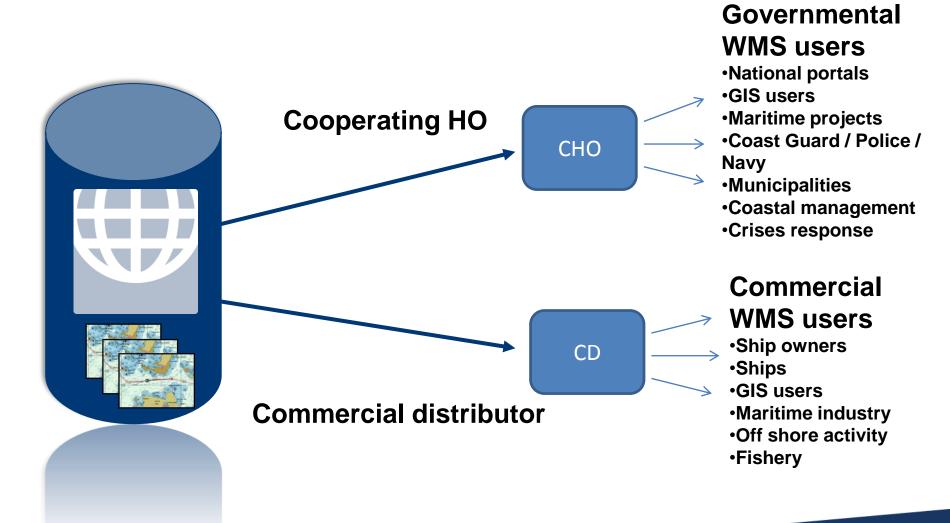


PRIMAR Navy / Governmental Agreements

- Signed between the NHS (operator of PRIMAR) and the Navy / Governmental Supplier.
- Invoicing conducted from NHS.
- For Navy, delayed reporting and anonymous users possible for security purposes.
- PRIMAR provides training for the Navy / Governmental Supplier.
- Documents:
 - Navy / Governmental Supplier Agreement
 - Schedule 1 ENC Pricing
 - Schedule 2 Sales report scheme and payment
 - Annex 1 ENC Service Description

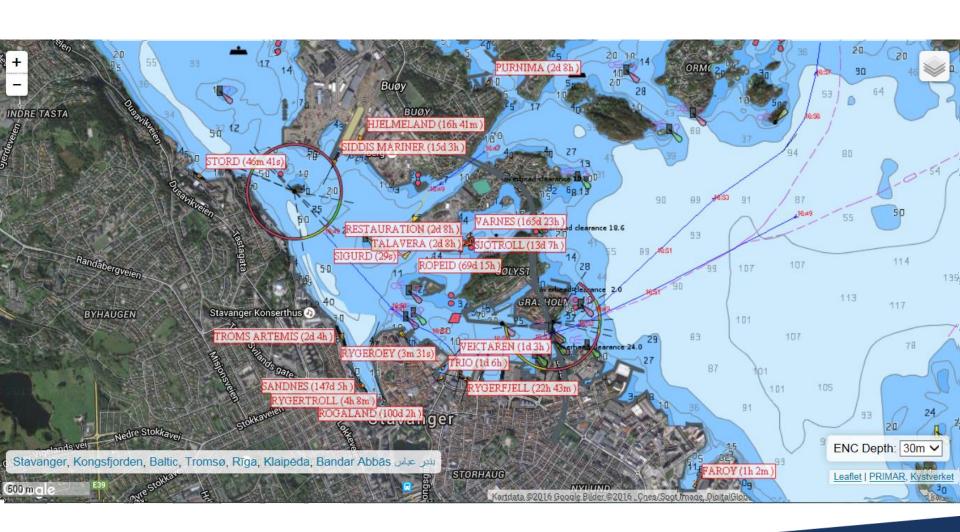


PRIMAR Web Chart Service



PRIMAR Web Chart Service





PRIMAR S-102 project

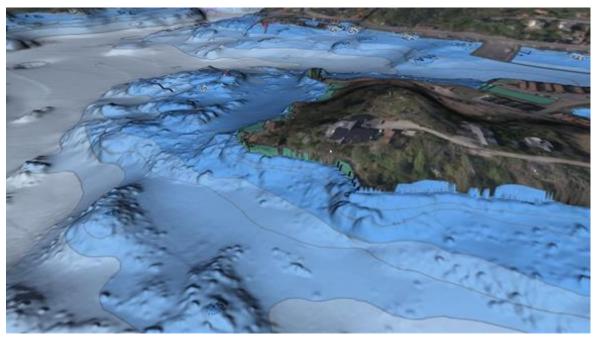


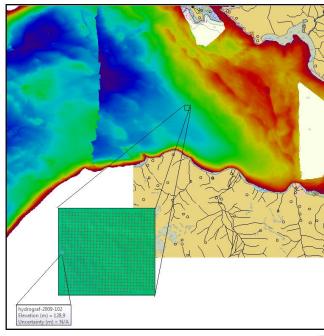
- Expanding the PRIMAR ENC service with distribution, sales and customer support for bathymetric data on the S-102 format.
- Protecting the S-102 service with the new edition of IHO S-63 for access control and authentication.
- Allowing a Hydrographic Office to distribute its S-102 data to governmental and commercial end-users through PRIMAR.
- Development and testing of upload, validation, viewer, encryption and distribution modules ongoing.
- Cooperation with HOs, system manufacturers and endusers.

S-102 Product



- Main purpose: To support safe navigation as a supplementary aid.
- **Product:** High resolution gridded bathymetry bathymetric model.
- Usage: Navigational and planning purposes (safe depth, anchorage areas, Under Keel Clearance)
- Innovative: Allows ECDIS to calculate contour intervals on the fly.

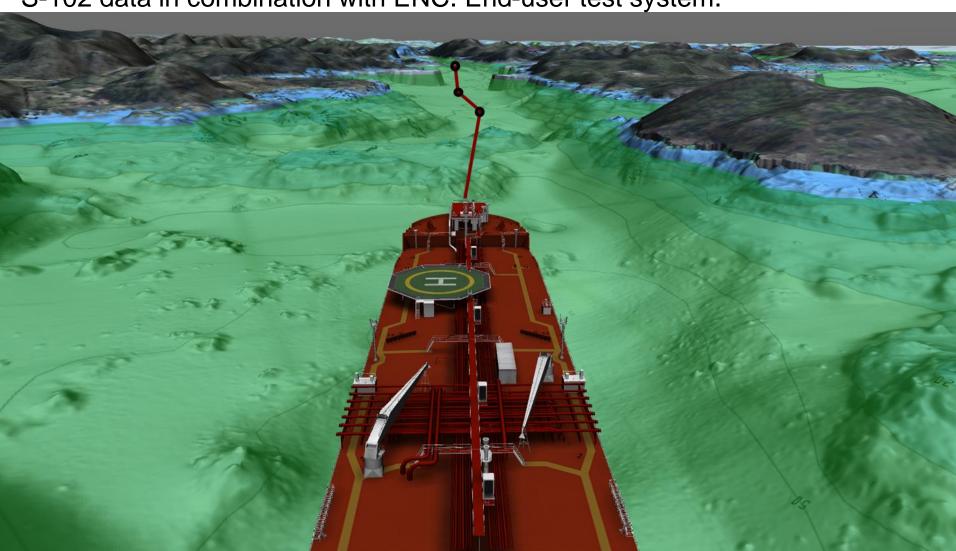




PRIMAR S-102 project



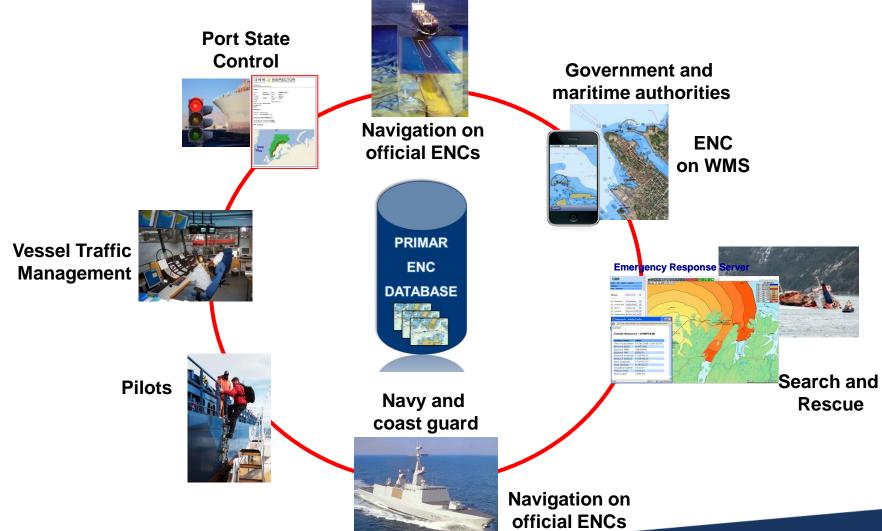
S-102 data in combination with ENC. End-user test system.



Maritime Safety Circle



Through PRIMAR, all actors have access to the SAME CHARTING INFORMATION





More information available from...

- www.primar.org
- PRIMAR Annual Report 2015
 - Available at the IHO WENDWG 06 web page.
 - Further details on technological developments and ongoing activities in PRIMAR.
- lauhan@kartverket.no

Hans Chr. Lauritzen Director PRIMAR



Thank you for your attention Questions?

www.primar.org