

# Current Shom roadmap for S-100

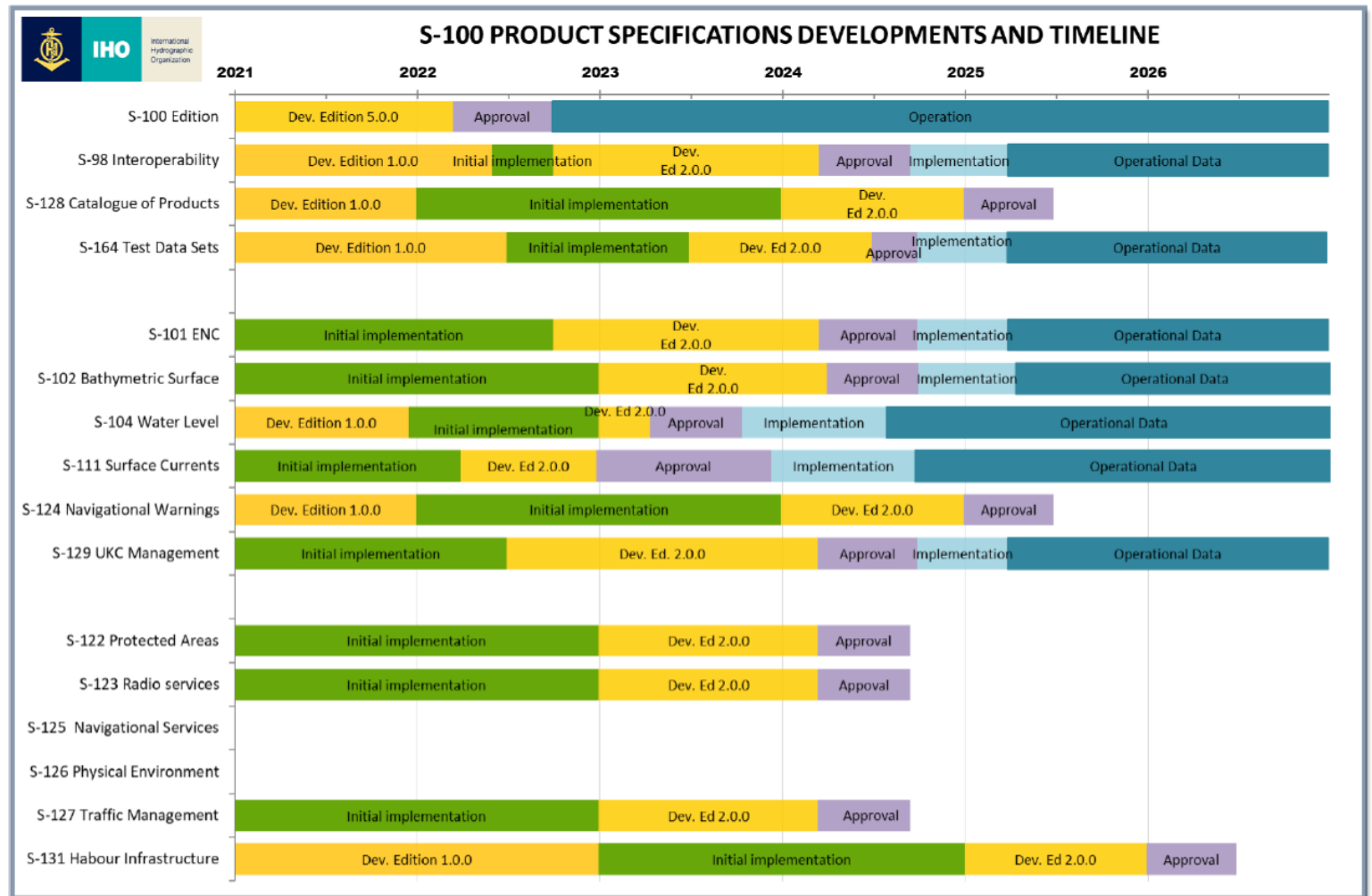
[France, Shom] – Yves Le Franc

MACHC – Webinar on S-100

November 10, 2021

# IHO S-100 Roadmap

- S-101 and S-98 on interoperability in ECDIS ready for operational data in 2025
- Implementation priorities to ECDIS Route Monitoring S-1xx Products



# S-101 added value compared to S-57

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- **The foundation layer interoperable with other S-100 products**  
e-navigation voyage planning and route monitoring
- **Machine readable (additional objects, attributes, symbols,...)**
- **Reinforced cybersecurity and data integrity**  
in the context of reinforced consideration by IMO for cybersecurity
- **Technical improvements (better text positioning, remove of overuse of caution areas, new objects such AIS, highlight of updates, lights description...)**  
Hopes for the automated paper chart production

# Transitioning to S-100 in Shom – S-100 ECDIS

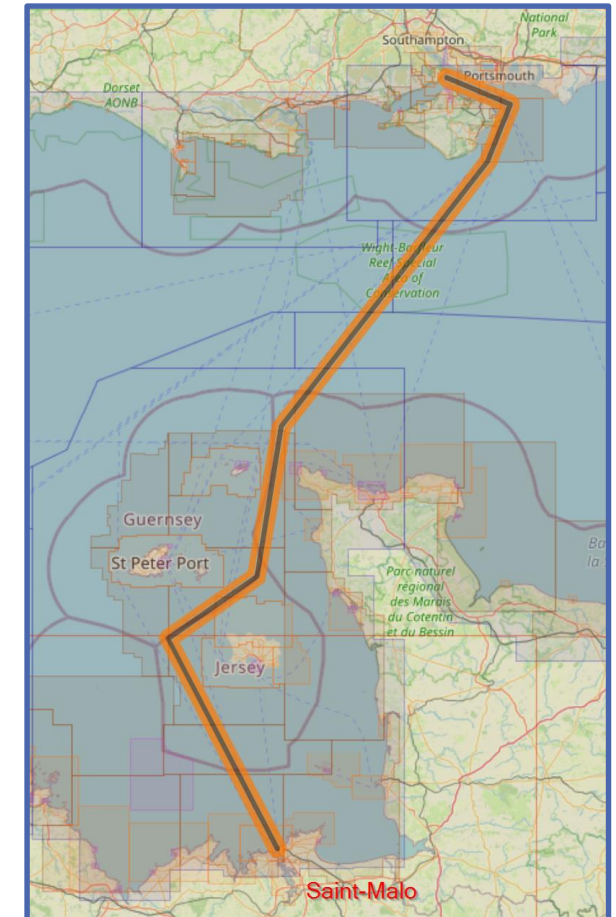
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- **The conversion in Shom will be synchronized with the IMO S-100 ECDIS transition schedule**

No significant use of S-100 based products without S-100 ECDIS under SOLAS and IMO carriage requirements

## Actions:

- Shom supports HSSC for the revision of the IMO ECDIS Guidance & ECDIS Performance standards (resolution MSC.232(82)) with participation of CIRM, IEC, Intertanko
- UKHO-Shom S-100 ECDIS Project in the Channel (dual fuel, schemes)
- Shom S-1xx experiments (*Shom Innovation Lab*)



# Transitioning to S-100 in Shom – S-101

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- **The conversion to S-101 will be voluntaristic and limited in time**

Around FR 850 S-57 cells to convert

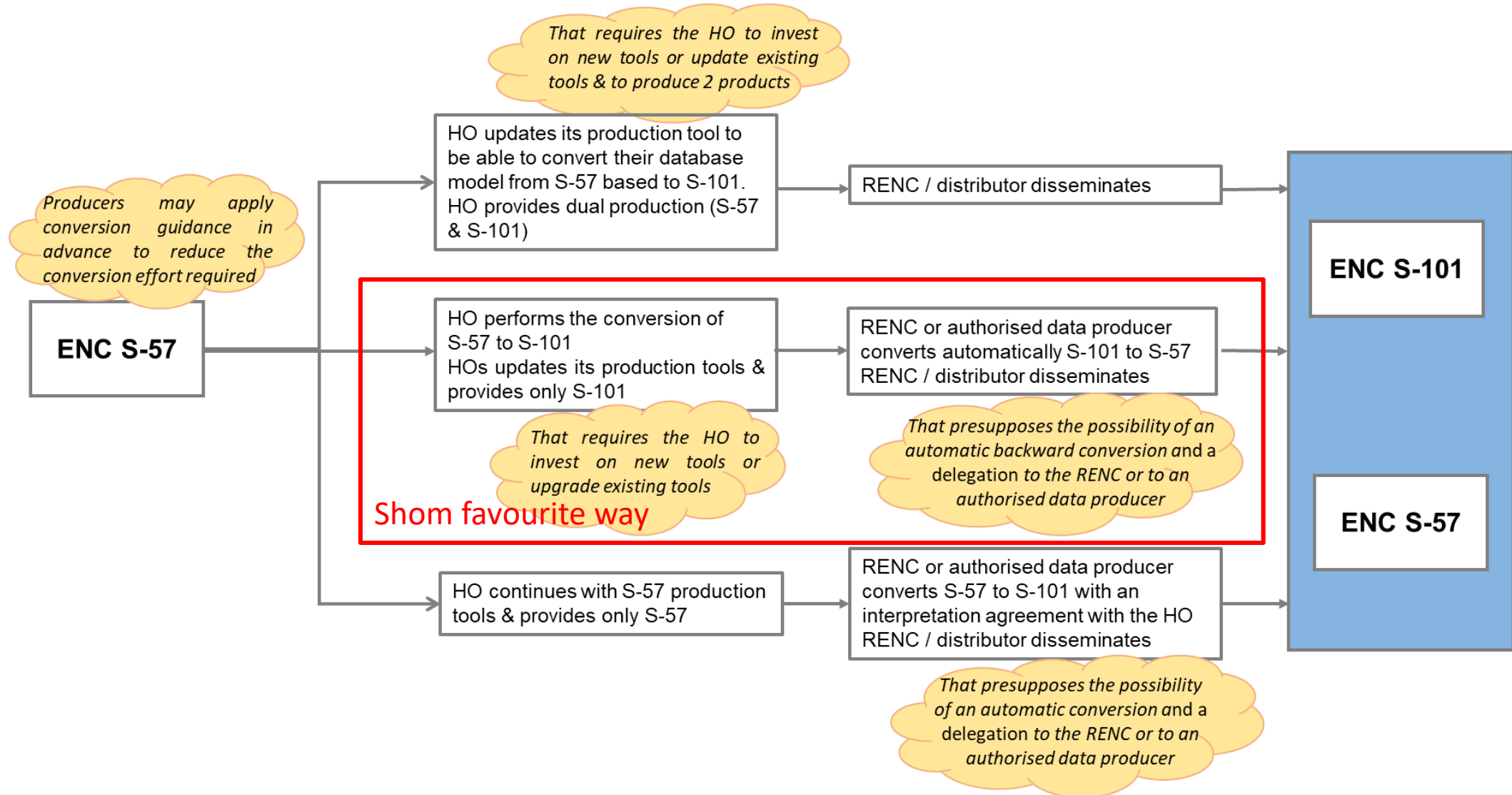
FR S-101 ENC's will become

- the reference coverage (and no longer the FR S-57 ENC's)
- the foundation layer for other S-1xx products (S-98 on interoperability)
- The source for paper chart

## **Actions :**

- First version of the Shom roadmap S-100 approved in July 2021
- Dedicated Shom team for the transition to S-101
- Contribution to the international effort (IHO WGs, IHO Singapore Lab, RENC PRIMAR, industry, etc.)

# Transitioning to S-100 - Dual Fuel – Ways for HOs



# Transitioning to S-100 in Shom - Dual Fuel

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- **Mastering the conversions S-57 to S-101 and vice versa : a key factor of success**
- **Shom intends to delegate to a third party (RENC PRIMAR) the availability of the FR S-57 ENC**
  - When the S-101 ENCs coverage is complete, FR S-57 will become a “by-product”
  - PRIMAR would produce and maintain the FR S-57 ENCs

## **Actions:**

- International effort (HSSC, industry)
- PRIMAR Development Project on conversions (S-57 to S-101 and vice versa) with the participation of Shom

# Transitioning to S-100 in Shom – Security

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**The Cyber issue is essential in today's world and for Shom the SENC delivery option has no reason to exist today**

S-100 induces progress in data integrity and security with the IHO Data Protection Scheme (S-100 Part 15)

The limitations of ECDIS machines are no longer an issue

Let's not diminish the scope of S-100 by keeping the SENC delivery option

**Action:**

- HSS13 discussed the SENC delivery issue for the sake of cyber security and a work is handled by the S100 WG



# Transitioning to S-100 in Shom - Cooperation

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- **Shom promotes capacity building**

At the RHC level, organisation of S-100 seminars (with participation of RENCs as instance PRIMAR)

Training courses set up by the RENCs specific to the subject S-100/S-101

Opportunity to develop distant training on S-100 issues via the establishment of IHO E-learning platform by the ROK (to be operational in 2022)

# Merci!

