9. S-100 Implementation Strategy Consolidation

2nd ASSEMBLY

By Abri Kampfer

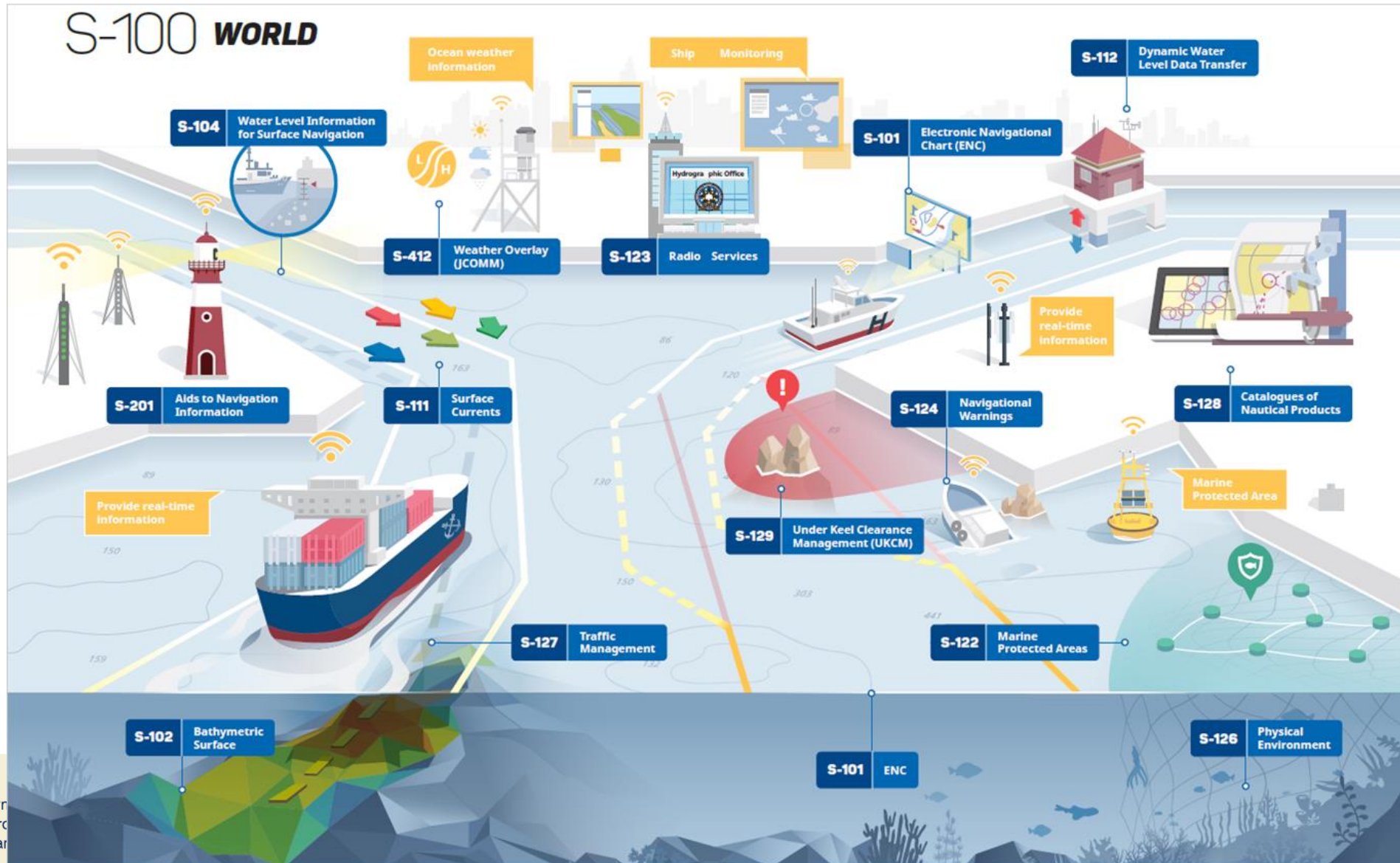IHO Director

IHO S-100 Framework Standard and Derived Product Specifications

S-100 Based Product Specifications

S-100 WORLD

http://s100.iho.int
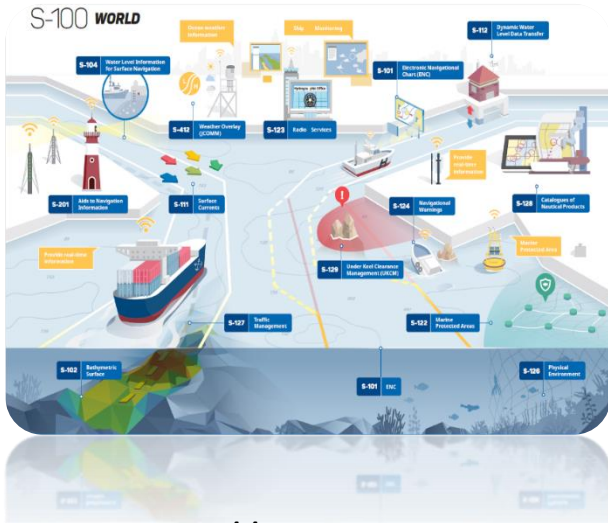
IHO

- ✅ S-101 Electronic Nautical Chart (ENC)
- ✅ S-102 Bathymetric Surface (Edition 2)
- S-103 Sub-surface Navigation
- S-104 Water Level Information for Surface Navigation
- ✅ S-111 Surface Currents
- ✅ S-121 Maritime Limits and Boundaries
- ✅ S-122 Marine Protected Areas
- ✅ S-123 Radio Services
- S-124 Navigational Warnings
- S-125 Navigational Services
- S-126 Physical Environment
- ✅ S-127 Traffic Management
- S-128 Catalogues of Nautical Products
- ✅ S-129 Under Keel Clearance Management (UKCM)
- S-131 Marine Harbour Infrastructure
- S-164 IHO Test Data Sets for S-100 ECDIS

IALA

- ✅ S-201 Aids to Navigation Information
- ✅ S-211 Port Call Messages
- S-210 Inter-VTS Exchange Format
- S-230 Application Specific Messages
- S-240 DGNSS Station Almanac
- S-245 eLoran ASF Data
- S-246 eLoran Station Almanac

IOC

- S-301 to S-399 – Oceanographic uses

IEHG

S-401 – IEHG Inland ENC

S-402 - IEHG Inland Bathymetric ENC

WMO / JCOM

- ✅ S-411 JCOMM Ice Information
- ✅ S-412 JCOMM Weather Overlay

IEC

S-421 – Rout Plan Exchange Format

NATO (GMWG)

S-501 to S-525 - AMLs

Status of engagement with IMO

- Proposal made to the 7th IMO Sub-Committee on Navigation, Communications and Search and Rescue (NCSR) Meeting (Jan 2020) regarding the introduction of the next generation of S-101 Electronic navigational charts (ENC); explaining the resulting implications for existing and new ECDIS installations; and proposing consideration of amendments to resolution MSC.232(82) on Revised Performance Standards for Electronic Chart Display and Information Systems (ECDIS) to include references to the S-100 framework and the Product Specification S-101.

- The Sub-Committee acknowledged the ongoing efforts of IHO to develop and test S-100 based data product specifications, as well as the proposed introduction of IHO's S-101 ENCs as a transfer standard for official charts in ECDIS. NCSR 7 agreed that the amendments to resolution MSC.232(82) could be considered at the 8th session of NCSR in 2021 under the existing output on the Committee's post-biennial agenda on "Revision of ECDIS Guidance for good practice (MSC.1/Circ.1503/Rev.1)" and be added to the WP, subject to approval of Maritime Safety Committee (MSC) at MSC 102.
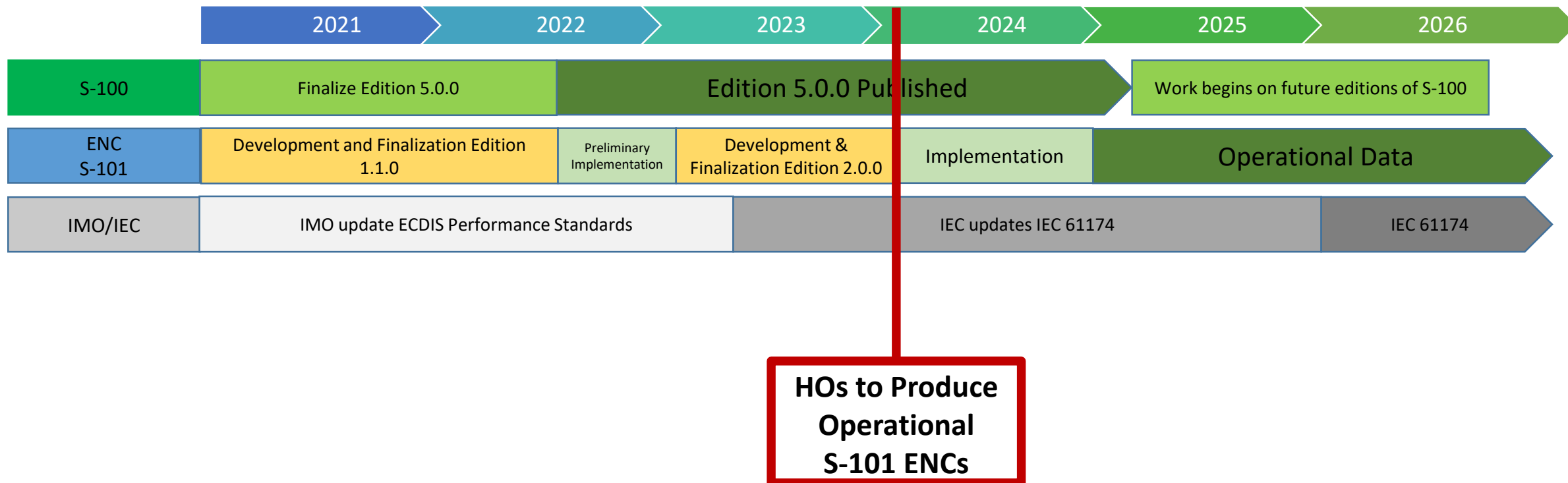
Status of engagement with IMO

- The IMO Maritime Safety Committee at its 102nd meeting held from 04 to 11 November, noted the recommendations from NCSR and <u>agreed with the recommendations of the Sub-Committee regarding consolidation and renaming of outputs, as well as the expansion (resolution MSC.232(82) on Revised Performance Standards for Electronic Chart Display and Information Systems (ECDIS)</u>.

- With respect to the proposal, on the inclusion of outputs in the 2020-2021 biennial agenda of the Sub-Committee, the Committee <u>did not approve their inclusion since there would not be sufficient time to address those outputs properly during this biennium</u>, due to the rescheduling of NCSR 8 in view of the pandemic.

- The outputs could thus, at the earliest, be included in the <u>next biennial agenda of 2022 - 2023</u>

IHO — International Hydrographic Organization

S-100 Product Specifications developments and Timeline

	2021	2022	2023	2024	2025	2026

S-100	Finalize Edition 5.0.0	Edition 5.0.0 Published		Work begins on future editions of S-100

ENC S-101	Development and Finalization Edition 1.1.0	Preliminary Implementation	Development & Finalization Edition 2.0.0	Implementation	Operational Data

IMO/IEC	IMO update ECDIS Performance Standards		IEC updates IEC 61174	IEC 61174

HOs to Produce Operational S-101 ENCs

Update of IHO ECDIS Performance Standards MSC 232 (82): At the earliest, be included in the next biennial agenda of 2022 - 2023

Update of IEC Standard 61174: Maritime navigation and radiocommunication equipment and systems – Electronic chart display and information system (ECDIS) – Operational and performance requirements, methods of testing and required test results

Actions Requested From A-2

- **To note** the development of S-100 based Product Specifications by other organizations.

- **To note** the impact of decisions of other organizations on the "S-100 roadmap for the S-100 Implementation Decade".