

# IHO INTER-REGIONAL COORDINATING COMMITTEE

**IRCC-10 Goa, India (4-6 June 2018)**

# Input from HSSC9 and HSSC10



# Introduction

---

**HSSC work is guided by the IHO Work Programme 2 “Hydrographic Services and Standards” and by the Council key Priorities**

## **Meetings since IRCC-9:**

- HSSC 9 - Ottawa, Canada (6-10 November 2017)
- HSSC 10 - Rostock-Warnemünde, Germany (14-17 May 2018) – 6 month earlier due to the decision to adjust the timing of subsequent meetings in order to provide timely input to the IHO Council

## **Next Meeting:**

- HSSC 11 - Cape Town, South Africa (6-10 May 2019)



# Analysis/Discussion – ToRs revision

---

- HSSC-10 endorsed the proposed amendments to the HSSC Terms of Reference with the aim that the TORs final version to be submitted to the Council for the subsequent adoption by A-2.
- Main amendments to the current HSSC TORs and ROPs reflect:
  - ✓ The presence and the role of the COUNCIL;
  - ✓ The possibility for the HSSC Chair to decide on the need to go through the Council for recommendations on standards and publications before submitting them to Member States for approval.



# Analysis/Discussion – Resolution 2/2007

---

- HSSC initiated the revision of the IHO Resolution 2/2007 in accordance with Decision A1/12 (guidance for impact assessment) and Action C1/05 (endorsement/approval procedure of standards listed in Appendix for instance);
- Two steps:
  1. Creation of “Guidance on conduction of an Impact Study” and identification of a new Review Cycle for WG/PT development phase of Product Specifications (endorsed at HSSC10);
  2. Development of the endorsement/approval procedure of the relevant standards taking into account the role of the Council in the approval process (Target HSSC11).



# Analysis/Discussion – Resolution 2/2007

New Development Cycle

WG/PT submit for HSSC Approval

WG /PT Activity

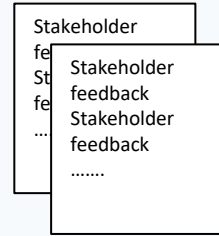
Stakeholder (OEM, industry) Testing, Evaluation and System Implementation



Publish Edition 1.0.0



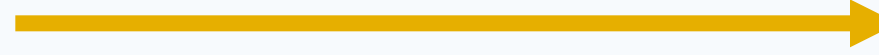
Stakeholder feedback



Prepare new Edition



Publish Edition 1.n.n



Stakeholder (OEM, Industry, MS & End user) feedback  
Conduct Impact Assessment



Provide Impact Assessment Report



Publish Edition 2.0.0



# Analysis/Discussion – Key Priorities

---

- Develop an S-100 Interoperability Specification;
- Develop S-121 Product Spec for Maritime Limits and Boundaries;
- Develop all the components needed to make S-101 a reality;
- Consolidation and clarification of standards in relation to ECDIS/ENC;
- Prepare Ed. 6.0.0 of S-44;
- Consider data quality aspects in an appropriate and harmonized way for all S-100 based product spec;
- Develop initial guidance on definition and harmonization of Maritime Service Portfolios.



# Analysis/Discussion – Key Priorities

---

## **Develop an S-100 Interoperability Specification:**

- The development of an S-100 interoperability Specification is in progress (target HSSC11);
- HSSC assigned number S-98, approved the title “S-98 Specification for Data Product Interoperability in S-100 Navigation Systems” and tasked S-100WG to consider how to incorporate generic interoperability into future editions of S-100.

## **Develop S-121 Product Spec for Maritime Limits and Boundaries:**

- S-121 Project Team, under S-100WG umbrella, finalized the draft of S-121 Product Spec;
- HSSC agreed to the publication timeline of S-121 Edition 1.0.0 under the conditions depicted by the IHO Secretariat for the new Review Cycle;
- S-121 Edition 1.0.0 is planned to be published in March 2019 (After S100WG4).



# Analysis/Discussion – Key Priorities

**Develop all the components needed to make S-101 a reality:**

Components	Edition 1.0.0 (2018)	Edition 2.0.0 (2020)	Edition 3.0.0 (2022)
Main Documentation	✓	✓	✓
Feature Catalogue	✓	✓	✓
Portrayal Catalogue	Partial	✓	✓
Validation	Partial	✓	✓
Data Classification and Encoding Guide	✓	✓	✓
Encoding Format	✓	✓	✓
Encryption		✓	✓
Alerts and Indications		✓	✓
Full Test Data Sets for Type approval		Partial	✓
<b>Notes</b>	Portrayal will be limited to S-52 rules translated to LUA	Edition 2.0.0 refines all the additional rules	<b>Operational Edition</b>





# Analysis/Discussion – Key Priorities

---

## **Consolidation and clarification of standards in relation to ECDIS/ENC:**

- HSSC endorsed Ed. 6.1.0 of S-58 and a CL to IHO Member States seeking their approval will be issued shortly;
- HSSC is working in order to identify the individual components in S-57 (file size, etc.) that prevent ENC Producers from providing high density contour lines;
- HSSC tasked the ENCWG to liaise with the CIRM and IEC for further investigations and risk assessment before considering the need for updating S-63.

## **Prepare Ed. 6.0.0 of S-44:**

- A questionnaire has been spread to the members of the International Hydrographic Community, thanks also to the IFHS;
- The replies to the questionnaire identified the need of guidelines;
- Working in Progress (Target date 2019).



# Analysis/Discussion – Key Priorities

---

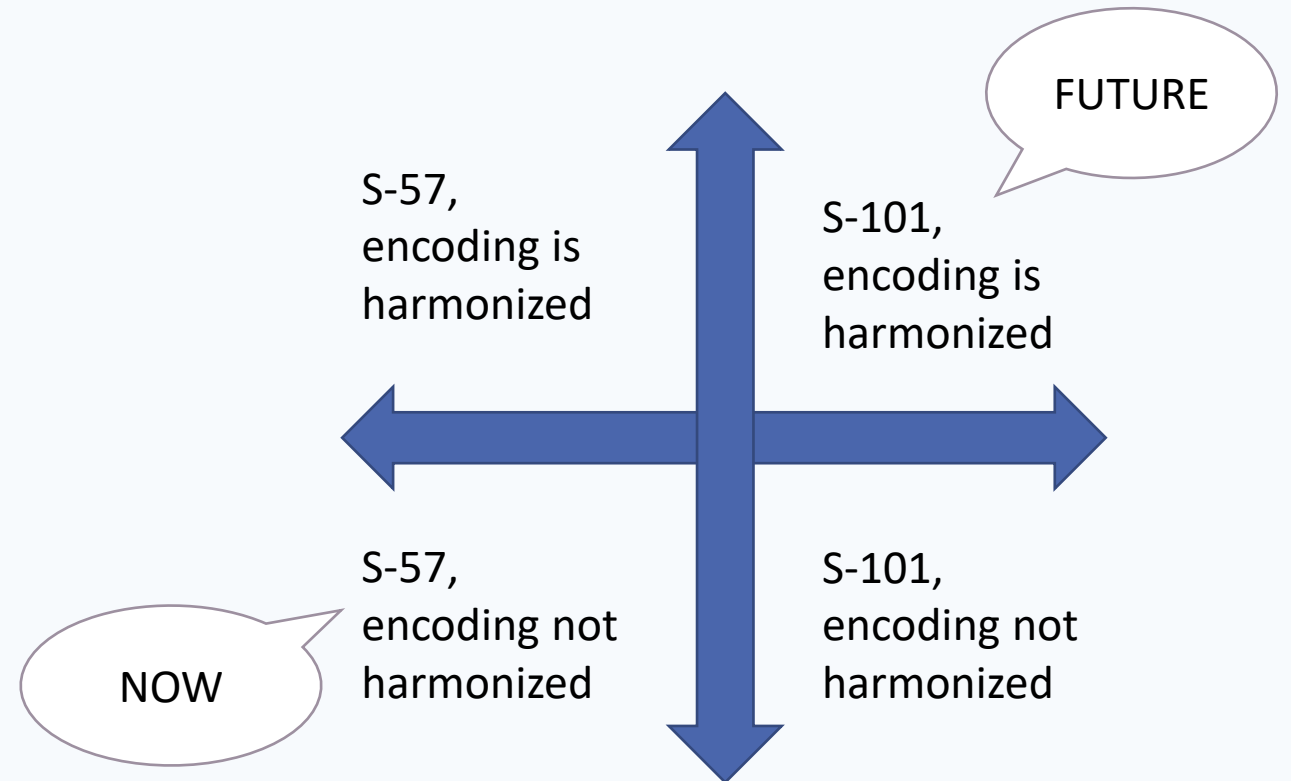
**Consider data quality aspects in an appropriate and harmonized way for all S-100 based product spec:**

- DQWG has been reinvigorated through the approval of new TORs which consider and ensure that data quality aspects are addressed in an appropriate and harmonized way for all S-100 based Product Specifications;
- A data quality checklist for product specification developers has been developed and will be included in the S-100 Product Specification Guidebook (S-97);
- HSSC agreed that the level of authority of Data Quality Checklist for Product Specifications is a recommendation, which can be adapted as necessary by WGs, under the condition that it will not create any potential interoperability issue.



# Analysis/Discussion – Key Priorities

- Dilemma between harmonized encoding of quality information and the allowable input into a data model.
- HO's use workarounds in current S-57 model.
- Harmonized encoding is a common effort (HSSC and IRCC).



# Analysis/Discussion – Key Priorities

- DQWG Reference Documents ([www.iho.int](http://www.iho.int) -> HSSC -> DQWG -> Reference Documents):
  - ✓ National Methodologies from survey data to CATZOC values
  - ✓ National Methodologies how to generalize quality information at various scales (planned)
- HOs / Regional Hydrographic Commissions are invited to share their internal guidelines and Best Practices on the population of CATZOC values through the DQWG.



# Analysis/Discussion – Key Priorities

---

## **Develop initial guidance on definition and harmonization of Maritime Service Portfolios:**

- The first HGDM meeting proposed to rename Maritime Service Portfolios into Marine Services;
- Following Marine Services have been identified as relevant for the IHO:
  - ✓ No. 5 - Maritime Safety Information Service (MSI),
  - ✓ No. 11 - Nautical Chart Service,
  - ✓ No. 12 - Nautical Publications Service, and
  - ✓ No. 15 - Real-time hydrographic and environmental information Service.
- HSSC tasked NIPWG to coordinate the provision of the Marine Services definition under IHO remit and invited IHO Member States to consider their attendance to the forthcoming HGDM meeting.



# Strategic discussion on future provision of S-100 based Prod

---

- HSSC endorsed the initiation of discussions on the development and future provision of Products based on S-100;
- Such discussion should be brought to the Council's attention in order to stimulate actions aimed to consolidate a common position that covers all IHO interests (HSSC, IRCC and stakeholders);
- HSSC/IRCC/IHO Secretary General are developing a paper on the subject to be brought to the Council's attention.



# Action requested of IRCC

---

The IRCC is invited to:

- a) Note the report;
- b) Request HOs / Regional Hydrographic Commissions to share their internal guidelines and Best Practices on the population of CATZOC values through the DQWG;
- c) Take any actions deemed necessary.

