

13th Meeting of the Hydrographic Services and Standards Committee

Update of the Establishment of the Joint IHO-Singapore Innovation and Technology Lab and impact on HSSC Activities

For consideration and discussion by HSSC

Agenda Item 4.4A

HSSC-13, VTC Event, 3 – 7 May 2021



IHO

PRESENTATION OUTLINE

International Hydrographic Organization

- 1. Objectives of the IHO Lab
- 2. Structure of the Governing Board
- 3. IHO Lab Management Team TOR
- 4. Qualifying Organisations
- 5. Possible Pilot Projects for HSSC's Consideration
- 6. Glimpse of IHO Lab and Proposed Launch Date



IHO

IHO INNOVATION AND TECHNOLOGY LAB: OBJECTIVES

International Hydrographic Organization

FACILITATE

 the conduct of innovative or investigative projects proposed by IHO Member State(s), IHO organs, or other stakeholders. (including test bedding)

ENABLE

 knowledge creation and foster collaboration to evaluate specifications of global standard setting within the scope of IHO standardization activities

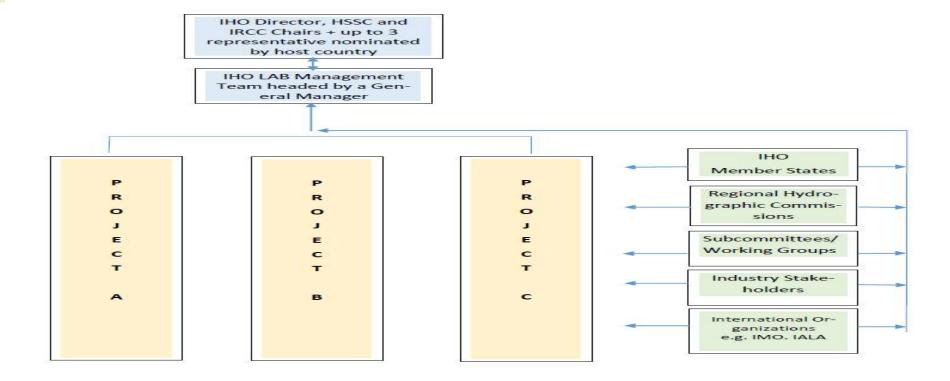
FOSTER

• a multidisciplinary and collaborative environment for technical experts to interact learn and promote new solutions and technologies, including collaboration and cooperation with other international organizations research and development bodies active in the maritime domain under the guidance of a Governing Board



STRUCTURE OF IHO LAB GOVERNING BOARD

International Hydrographic Organization





IHO LAB MANAGEMENT TEAM: TERMS OF REFERENCE

Hydrographic HO Director, Chairs of HSSC and IRCC + up to 3 host country representatives:

Setting strategic directions of the IHO Lab;

Endorsing IHO Lab annual work plans, budgets, projects and initiatives;

Overseeing IHO Lab's innovation and technology project(s) milestones, progress and outcomes; and Submitting Annual Report and Recommendations to the IHO Council.

General Manager, IHO Lab:

Reviewing the proposed work plans

Monitoring IHO Lab's project activities, progress and outputs

Managing the technical reviews of IHO Lab's projects and new proposals

Proposing and executing IHO Lab's work plans;

Managing IHO Lab's operations and project activities;

Driving IHO Lab's to deliver outcomes;

Attending HSSC and IRCC meetings to update on the IHO Lab's project activities, progress and outputs; and

Where appropriate, to attend RHC meetings to share activities and knowledge with IHO Member States.

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QUALIFYING ORGANISATIONS FOR SUBMISSION OF PROJECT PROPOSAL

rticipating parties undertaking the projects under the IHO Lab have to be:

- IHO Member States;
- IHO with other International Organisations; or
- Stakeholders in partnership with an IHO Member State(s).



POSSIBLE PILOT PROJECTS FOR HSSC'S CONSIDERATION

International Hydrographic Organization S-100 Products Reality Check

Test bedding in the Singapore and Malacca Straits the following S-100 products:

S-101 – Electronic Navigational Chart (ENC)

S-102 – Bathymetric Surface

S-104 – Water Level Information for Surface Navigation

S-111 - Surface Currents

S-122 - Marine Protected Areas

S-123 – Marine Radio Services

S-124 – Navigational Warnings

S-128 - Catalogue of Nautical Products

S-129 – Under Kiel Clearance Management

S-131 – Marine Harbor Infrastructure

Test bedding a dual fuel hybrid ECDIS with capabilities of displaying S57 & S101 in support of IHO's roll out implementation plan for the S-100 products and services.

Test bedding of S-100 ECDIS using S-101 ENCs (native + S-57 converted)

Testing of data production tools, focusing on data converters and compilation guidance

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GLIMPSE OF IHO LAB AND PROPOSED LAUNCH DATE

Moving Forward

- October 2021: Planned to be officially launched at the Joint IHO-UN-GGIM Seminar back-to-back with the IHO MSDIWG12 and Third Expert Meeting of the UN-GGIM MGI WG, Singapore.
- Pilot studies could kickstart before October 2021.
- Singapore's in-kind contributions: Work Space + Manpower Costs





Organization

For HSSC's consideration and discussion