

5th Meeting of the IHO Council

S-100 Testbed Project

Agenda Item C5-07.6A INF



IHO

BACKGROUND

International Hydrographic Organization

- KHOA NOAA S-100 Test bed
 - ✓ Work on the operation of S-100 testbed framework
 - ✓ Support the systematic introduction of S-100 based on the Roadmap
 - ✓ S-100 viewers, Shore based ECDIS, Sea trials
- IHO S-100 Development
 - ✓ Production tools, Product specifications including S-98...

S-100 Viewer

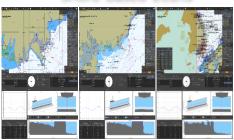
Full Mission Bridge Simulator

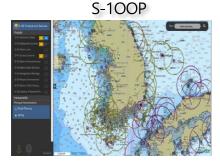






Shore based ECDIS







Sea trials





International

Hydrographic Organization

KHOA S-100 TESTBED PROJECT IN 2021

Details: (Day 1) Testing technical issues

- ✓ interoperability catalogue
- ✓ alert & indication
- ✓ S-111 thinning algorithm
- ✓ S-101 ENC new symbols

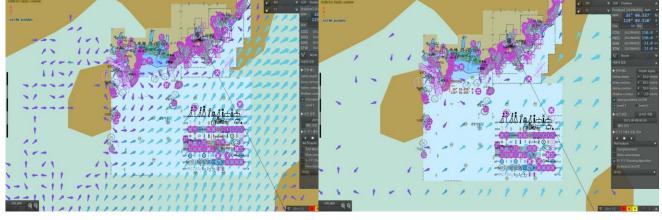
(Day 2) Fundamental review to measure quantitatively the usability and benefits of S-100 hydrographic data services

Interoperability Catalogue

The state of the

Level 1: S-101 ENC + S-102 Bathy (Interleaving)

S-111 thinning algorithm



Level 0: S-101 ENC + S-102 Bathy



WORK PLAN

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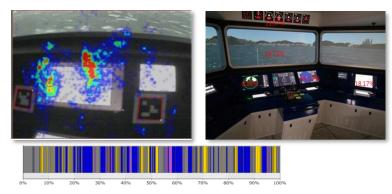
Efficiency measurement of using S-100 data

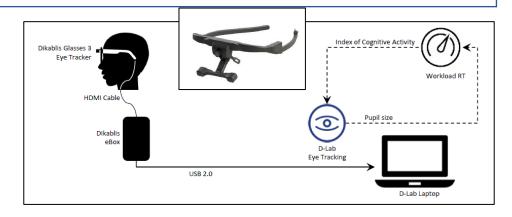
- S-100 data service will improve safe and efficient navigation
- No research on the effectiveness, Concerns on the great impacts to the industries and unknown compatibility issues
- Quantitative data of S-100 implementation will support to emphasize the needs for the S-100 data service to the industries and other international organizations

Comparison test (eye tracker)

- Dual Fuel concept using S-57 ENC and S-101 ENC
- Measuring the usability and efficiency of using the S-100 data compared to the existing nautical products
- Unit task definition and time measurement for route planning and preparation









International Hydrographic Organization Eye tracker trial







ACTIONS REQUIRED

International Hydrographic Organization

- Actions Required of Council
 - ✓ The IHO Council is invited to note the activities of KHOA and NOAA.
 - ✓ KHOA-NOAA S-100 Testbed project invites the IHO Council to note the
 approach to measure the efficiency quantitatively for the use of S-100 data
 service and suggest other participants or measures.