

## Participation in the annual workshop of the Shipping Federation of Canada Vancouver, Canada, 21-22 January 2025

### Contribution to the IHO Work Programme 2025

Task 1.1.15 Maintain relationships with other international and observer organizations when their agendas have relevance to the programme of the IHO

#### High level summary

- The implementation of the S-100 framework as key element of IMO's e-navigation strategy has to be undertaken in collaboration with the data service providers with affected shipping industry including commercial ship operators, harbour authorities and sea pilots. The impact is all along the supply chain harnessing ship's safety and efficiency.
- The workshop presented a brilliant opportunity to maintain this dialogue between all affected parties.
- The local media portal *Maritime Magazine* reported very positive about the event and the contribution of the IHO Secretary-General:  
[Technology developments and international participation highlight Mariners' Workshop of Shipping Federation of Canada - Maritime Magazine](#)

#### Details:

The Shipping Federation of Canada is conducting an annual workshop for their members consisting of shipping companies and shipping agents to inform about the ongoing and expected technical development affecting their business operations. This year's theme was "Leveraging Emerging Technology to optimize vessel operations in Canadian waters".



**Leveraging Emerging Technology to Optimize Vessel Operations in Canadian Waters**

Moderators: Captain Cédric Baumelle & Denis Hains

**Day 1 – Tuesday January 21, 2025**

**08h00 – 08h30 CONTINENTAL BREAKFAST**

08h30 – 09h40 Welcome and Opening Remarks – Captains Chris Hail and Cédric Baumelle  
Land Acknowledgment – Sarah Thomas (Clear Seas)

**SESSION 1: GOVERNMENT AGENCY UPDATES**

Time	Organization	Presentation Title	Presented By
09h40-09h50	Transport Canada	TC's Digitalization Strategy	Kristina Casey
09h50-10h00	International Hydrographic Organization	S-100 International development	Dr. Mathias Jonas
10h00-10h10	Canadian Hydrographic Services	S-100 in Canadian waters	Louis Maltais & Mariah McCoskey
10h10-10h20	Canadian Coast Guard	ENAV update	Itatscha Rierdenau
10h20-10h30	National Research Council of Canada	Update on Research Advancements	Ayda Elhage

**10h30 – 10h20 BREAK**

**SESSION 2: PANEL ONE – View from Port Authorities on the use of Emerging Technologies**

Time	Organization	Panelist
10h40	Vancouver-Praser Port Authority	Captain Shi Madival
11h00	Montreal Port Authority	Captain Julie Gasson
	International Harbour Masters Association (IHMA)	Captain Gary Wilson
	Halifax Port Authority	Captain Mike Davie

Panel Leader: Louis Maltais

Dr Mathias Jonas, IHO Secretary-General was invited as keynote speaker to contribute to the global dimension of the implementation of the S-100 concept as part of IMO's e-navigation strategy. Dr Jonas presented the state of play in the implementation of the S-100 roadmap including the readiness of the core product specifications such as S-101, S-102, S-104, S-111 and S-129 for regular data production and a forecast of the regular provision of S-100 based data services in the coming years until 2030. He presented his vision of a belt of S-100 based integrated data services ranging from Great Lakes, crossing the North Atlantic, ranging via the North Sea into the Baltic and covering the

Northern part of the Mediterranean. His speech was ideally supplemented by the follow up presentation given by Mr Louis Maltais, Canadian Hydrographic Service who reported about the concrete arrangements of the ongoing national S-100 testbed in Canadian waters with a focus on St. Lawrence Seaways.

## Expectations how to unfold the added value

- S-101 ENC coverage will at first grow for areas where amending S-100 data services will become available too.
- Global S-101 ENC coverage comparable to S-57 expected after 2029.

**Vision for 2029:**  
Belt of fully integrated S-100 data services covering the North Atlantic



The conference went on with productive dialogue on the emerging digitalization of all processes connecting ship operators and Canada harbor operators. It was stressed by all panelists that standardized information exchange along the supply chain including vessel traffic management would be key to gain wins in efficiency. A controversial theme was the concept of remote pilotage which should be in the views of the ship operators substantially uplifted thanks to the uptake of digital data support – not to the least through the anticipated uptake of S-100 services but may induce more effort for the bridge team on watch but with no expectation of cost savings for the shipping operator.