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Input paper for the following Committee(s): check as appropriate Purpose of paper:

**□** ARM **□** ENG **□** PAP **□** Input

**X** ENAV **□** VTS **X** Information

Agenda item [[2]](#footnote-3) 5.1

Technical Domain / Task Number 2 …………………………………

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Report of the e-Navigation Underway Asia-Pacific Conference 2020

# Summary

This document reports on the highlights of the fourth e-Navigation Underway Asia-Pacific Conference (ENUW AP 2020) was held on 8 and 9 September 2020, in Sejong City, Republic of Korea, using an online conference platform.

# DISCUSSION

ENUW AP 2020 was organized by the Ministry of Oceans and Fisheries (MOF) of the Republic of Korea, International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA) and Danish Maritime Authorities (DMA). The conference culminated in success with 725 participants from 50 countries under the theme of “Collaborating to Harmonize Maritime Digitalization”.

Despite the constraints in time and distance brought about by COVID-19, the conference accommodated more than three times the number of participants compared to the previous year and received a great amount of attention, including 1,600 news coverage in various languages around the world.

This year’s conference was held in the process of advancing towards changes in the maritime digital system. It served as an important opportunity in building a consensus for international standardization and cooperation in maritime digitalization to provide a safer and more efficient shipping environment.

As agreed at the Conference, the e-Navigation cooperation system will be switched to the Digital@Sea Initiative system from next year, and accordingly, the conference will be reorganized into the Digital@Sea Conference format.

The sessions for the conference were to:

* e-Navigation today and in the future
* Digital maritime services and communications
* MCP official showcase
* Challenges with maritime digitalization and international cooperation
* Digital@Sea Initiative
* Adoption of conference highlights and closing remarks

The highlights of this conference refer to Annex 1.

# Action requested of the Committee

The Committee is requested to take note of the information provided.

ANNex 1

**Highlights of the e-Navigation Underway Asia-Pacific 2020 Conference**

The fourth e-Navigation Underway Asia-Pacific Conference was held on 8 and 9 September 2020, in Sejong City, Republic of Korea, using an online conference platform.

The highlights of the conference were:

1. Some 700 participants, from more than 50 countries, registered and participated in the online conference. Sixteen world-renowned e-navigation experts presented on a variety of topics under the conference theme - *Collaborating to Harmonize Maritime Digitization*.

2. The conference discussed examples of the implementation of e-Navigation services and noted plans for their future development. Delegates also considered the opportunities and challenges associated with adopting cutting-edge technologies, such as block chain, digital maritime communications frameworks, automation on board and marine autonomous surface ships.

2.1. The conference recognised the necessity to build a digital ecosystem for making global standardization and collaboration of maritime digitalization, to secure more sustainable, efficient and safe for all stakeholders.

2.2. There was a strong emphasis on international cooperation, which delegates considered necessary to achieve harmonisation and enhance safety. Testbeds and sea trials were recognised as key elements to introduce and promote e-Navigation services.

2.3. The conference recognised that any new technologies should align with IMO’s vision and the importance of IHO’s S-100 standards for e-Navigation. They should be implemented based on a judicious mix of goal-based and prescriptive rules.

2.4. The conference recognised that further collaboration is necessary, and that national and international projects should exploit the progress made by IMO related to the common maritime reference data model when developing various solutions for global shipping.

2.5. The conference agreed, that international standards developed by robust standardization bodies are necessary to avoid incompatibility between standards and systems.

3. The conference noted the decision to expand the scope of international cooperation (using the current series of e-Navigation underway conferences) to include some new initiatives:

3.1. The Digital@Sea Initiative, which consists of a series of Digital@Sea international conferences with the possibility of global Digital@Sea test bed cooperation and capacity building workshops;

3.2. The series of Digital@Sea conferences will replace the current series of e-Navigation underway conferences from 2021 including Digital@Sea International, Digital@Sea North-America, and Digital@Sea Asia-Pacific;

3.3. Establishing a multilateral MOU to facilitate and secure the effectiveness of testbed activities, which contribute to international harmonization, standardization, verification and validation of maritime digital technology using testbeds and sea trials. In connection, as the first collaborative testbed, MOF proposed to carry out the Global e-Navigation Route Testbed to bring actual benefits and effectiveness of e-Navigation to all stakeholders;

3.4. Capacity building workshops as technology cooperation programmes for the sake of building capacity in developing countries, so maritime digital technology can be promoted to share growth among advanced and developing countries;

3.5. As the coordinator, IALA promotes and supports the Digital@Sea Initiative.

4. Two instances of the Maritime Connectivity Platform (MCP) were showcased during the conference. It was evident the MCP framework is a sound platform for the delivery of maritime services in the context of e-navigation.

5. Discussions during the conference suggested that some matters should be brought to the attention of the IMO, such as the concept of Digital@Sea Initiative, with the aim of providing an opportunity for more countries to participate in global e-navigation development.

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