Input paper: ENAV21-4.3

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

**X** ARM X ENG **□** PAP **X** Input

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

Agenda item 4

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

Author(s) / Submitter(s) Nick Ward

Progress Report on IALA EfficienSea 2 Work

# Summary

This paper provides a progress report on the IALA contribution to the EU funded EfficienSea 2 Project.

The core tasks have been delivered (D1.4 & 1.5).

Substantial further inputs to ENAV 20 and more expected during this meeting and by end of 2017.

Some tasks have been deferred to 2018, depending on budgetary constraints. The work on the VDES Compatibility Test Bed is considered premature, because of the state of technology and standards development. The Maritime Cloud presentation and standardization plan are being worked on by other E2 partners.

# Background

EfficienSea 2 is an EU H2020 funded Project, led by DMA, with 32 partners, including IALA. Its objective is to enhance safety of navigation and increase efficiency at sea. The focus is on e-navigation services, the Maritime Cloud and communications, especially VDES.

# Status of DEliverables

The core tasks have been delivered (D1.4 & 1.5). Substantial further inputs have been made to ENAV 20 and more expected during ENAV 21 and by the end of 2017. Some tasks have been deferred to 2018, depending on budget.

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| --- | --- | --- |
| **Deliverable** | **Description** | **Input to ENAV** |
| D1.4 | Report on Projects and Test Beds relevant to EfficienSea 2 | Delivered to E2 |
| D1.5 | Report on Standards relevant to EfficienSea 2 | Delivered to E2 |
| D 1.10 | Strategy for Future Digital Communications | ENAV 20 |
| D 1.11 | Report on Future Digital Communications | ENAV 20 |
| Draft D 1.12 | Structure of IALA Documentation on AIS & VDES | ENAV 20 |
| Draft D 1.13 | Technical Overview of VDES | ENAV 20 & 21 |
| Draft D 1.14 | Draft IEC Specification for VDES | ENAV 20 & 21 |
| D 1.15 | Draft text on VDES for IALA Navguide | ENAV 20 |
| Draft D 1.16 | Report on Implementation, Validation and Demonstration of VDES Compatibility Test Bed | Post ENAV 21 (deferred to 2018) |
| Draft D 1.17 | Review of VDES Test Results, New Test Plan and Revised Channel Model | ENAV20 |
| D 1.18 | Updated website content on Standards and Test Beds | ENAV 20 |
| Draft D 1.19 | Presentation on Maritime Cloud | Post ENAV 21 |
| Draft D 1.20 | Standardization Plan for Maritime Cloud | Post ENAV 21 |
| Draft D 1.21 | Report of E2 Workshop on Implementing Maritime Cloud | Post ENAV 21 |
| D 1.22 | Information Plan for VDES | ENAV 20 |
| D 1.23 | Presentation on VDES | ENAV 20 |
| D 1.26 | Report on VDES Training Sequence | Post ENAV 21 |
| D 1.27 | Report on MC seminar on MC Adoption | March 2018 |

Delivered

Expected by ENAV 21 (Sept 2017)

Expected by end of 2017

Deferred until 2018 and dependent on funds available

# Remaining Work Planned for 2017-18

* Continue to support preparation of draft standards for VDES in IEC;
* Implement Information Plan developed for VDES;
* Briefings for ITU-R, delegations to assist understanding of VDES significance;
* Implement, validate and demonstrate VDES compatibility test bed;
* Complete study of VDES training sequence;
* Update IALA website on standards and test beds;
* Organize and run workshop on implementation of Maritime Cloud in November 2017;
* Plan seminar on adoption of Maritime Cloud for March 2018.