**e-Navigation Committee ANM14/12/1**

**7th Session 21 Sept 2009**

Draft IALA Plan for e-Navigation

# Introduction

This document (prepared by the e-NAV vice chair as a draft for discussion) sets out IALA’s vision for e-Navigation and outlines a work plan for carrying out the tasks that IALA has undertaken in support of the IMO initiative.

It draws on the documents shown in the list of references below and is intended as an input to the final sessions of the four committees and to PAP.

# IALA’s Vision

IALA recognises the trends in maritime operations towards enhancement of navigation for safety, security, efficiency, accountability and environmental responsibility. IALA has developed a strategy to embrace the continuing technical developments, to influence debate, and produce relevant recommendations and guidelines.

# External Constraints

IALA is working within its remit of shore-based infrastructure and aids to navigation, including VTS, to support the IMO e-Navigation initiative.

In addition to the schedule of IMO meetings, principally MSC, NAV, COMSAR and STW, an important consideration is the timetable of ITU. The next World Radio Conference in 2012 and the following one in about 2016, define the schedule for any changes or additions to the radio spectrum to be used for e-Navigation and the meetings of WP5B provide the opportunity for inputs.

Using the phase-in plan of IMO for the ECDIS as a common time reference will have beneficial effects for all working areas involved: It will focus the work on the common goal and will require proper timing of individual supporting projects.

# Internal Considerations

It is important to involve all the IALA Committees in the development of e-Navigation.

In particular, the ANM Committee has a key role in developing and verifying the user requirements, the VTS Committee is developing a description of Vessel Traffic Management, which can be considered as a complementary part of the shore-side implementation of e-Navigation. There may be a case for reconsidering the order in which the committees meet, either placing e-NAV at the beginning of the cycle, or at the end, so that all inputs can be taken into account in preparing submissions to IMO and ITU.

In addition, the Working Groups of the IALA e-NAV Committee are developing shore-side user requirements (WG1), a World Wide Radio Navigation Plan (WG2), a World Wide Radio Communications Plan (WG4), a future second generation AIS (WG3) and a shore-side architecture (WG5), together with a documentation structure to encompass the whole of e-Navigation. The information systems and data structures are being worked on by the MIS task group of WG1 and by WG5 respectively and various working groups are contributing to a preliminary consideration of the ship-borne architecture. These efforts will form a large part of the effort required for the development of e-Navigation, but output must be available on time.

The IALA Conference in 2010 means a one year gap between committee sessions. There is, of course, no corresponding gap in the meetings of IMO and ITU. Various measures can be envisaged to cope with this mismatch - bringing e-NAV 8 forward to May 2010; holding an ad hoc working group to progress the work; or relying on inter-sessional meetings of the existing working groups. It is suggested that proposed measures be agreed at e-NAV 7 and submitted for consideration by the subsequent PAP meeting.

# IALA Plan

The tasks to which IALA is committed in support of the IMO Initiative are the initial user requirements for shore-based applications (2009), the gap analysis for the shore-side infrastructure (2010/11), the shore-side architecture (2010), and contributions to the risk analysis and cost benefit analysis (2011).

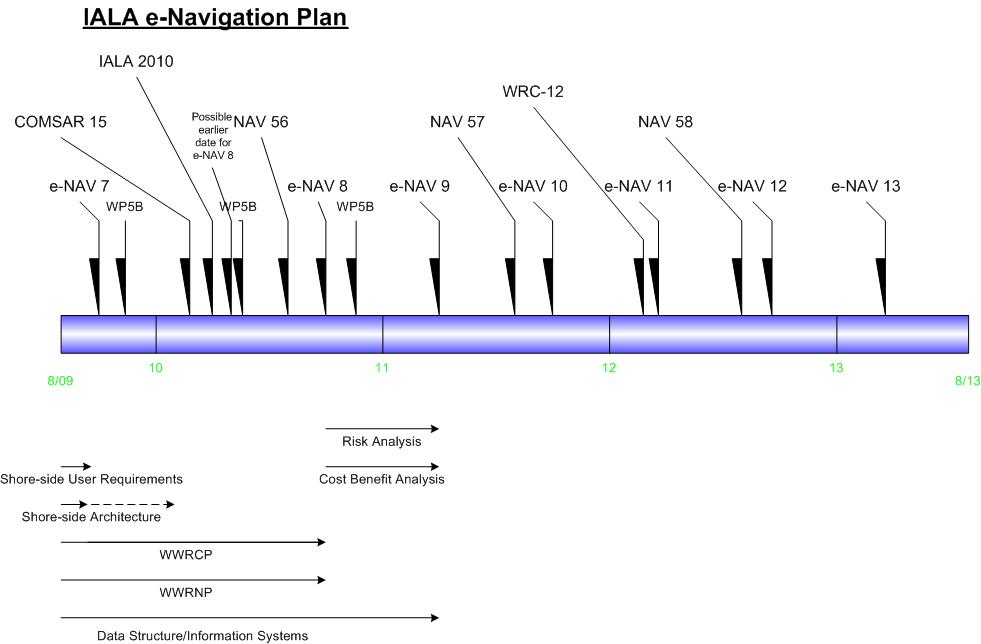
The working groups and meetings of the e-NAV Committee should be organised to support and facilitate the completion of the tasks listed above, in coordination with the meetings of IMO and ITU (see Timeline below).

# References

1. IALA e-Nav master plan draft" from AIS TWG Florida 2009
2. IALA Vision statement" by e-NAV Chair
3. VTM description (liaison from VTS Committee, as amended)
4. Shipboard Architecture document (as amended by WG2 and WG5)
5. Draft WWRNP (from Tech for ENAV WG2)
6. Draft WWRCP (from Comms WG 4)
7. Draft eNAV 201 /210 (as under development at WG5)
8. UMDM/UDOI description document (as under development WG5)

# Timeline

The timeline below illustrates the schedule of meetings of the e-NAV Committee and other relevant bodies, together with the approximate periods each task is expected to occupy.

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# Response.

As well as any comment that may be made to the e-NAV Committee it is requested that any response is also copied to Dr Nick Ward, Vice Chair of the e-NAV Committee.