**Terms of Reference**

**for theOperations & Strategy Working Group**

**Introduction**

One basic premise of e-Navigation from the outset has been that it should be user-driven. The Operations Working Group represents both shore and ship users.

e-Navigation will have a significant impact on navigational technology, operations and regulations. It is essential that these changes are strategically monitored by user communities and that the focus on the human element remain prominent.

**Scope**

Provide a forum to represent the e-Navigation user communities and provide guidance on issues of operations, strategy and implementation.

**Objective**

The objective of the WG is to prepare and maintain Committee inputs to IMO on the user communities represented at IALA and keep relevant IALA guidance documents up-to-date.

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1. Further develop, maintain, revise or capture new e-Navigation ship and shore user needs, as required.
2. Contribute to the development of the IMO e-Navigation implementation plan by assessing operational issues pertinent to user needs, gap analysis, cost benefit analysis and their implementation issues.
3. Liaise with other e-Navigation WGs and IALA Committees concerning operational issues, both onboard and ashore.
4. Act as the focal point for liaison between the IALA e-Navigation Committee and IMO on e-Navigation matters (including input to the IMO Correspondence Group).
5. Make recommendations on the strategic implementation and continued development of e-Navigation.
6. Address issues of portrayal including:
   * Existing guidance, standards and specifications related to the display of chart and other types of e-Navigation-related information (e.g., on radar, ECDIS, AIS, INS, VTS/, etc.).
   * Existing performance standards and/or specifications for shipborne equipment/systems/services that have been adopted by IMO, IEC, IHO, ISO, etc.
   * Identify e-Navigation-related forms of information that warrant a harmonized presentation/display for shipborne and shore-based users.
   * Provide recommendations on how to resolve any inconsistencies and/or conflicts noted that may inhibit the harmonized display of e-Navigation information.
   * Monitor the development of ECDIS (including ENCs) and INS/IBS.
   * Evaluate new proposals for displaying e-Navigation related information, including AIS Application-specific Messages, Virtual AtoN, and Marine Information Overlays (MIOs).
   * Prepare input/guidance to IMO related to the harmonized presentation and display of e-Navigation related information.

**Deliverables**

**Coordinated input to the IMO Correspondence Group on e-Navigation. Develop and maintain guidance for the IALA membership.**