Input paper: [[1]](#footnote-1) ENAV28-5.2.10

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

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

X ENAV **□** VTS **□** Information

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

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

Author(s) / Submitter(s) …………………………………

Request for updating the Guideline 1107 – Planning and reporting of e‐Navigation Testbeds

# Summary

The Guideline 1107 offers guidance on the planning and reporting of results from e‐navigation testbeds. It also retains text from IALA Guideline 1107 Ed1 on the Reporting of Results of e‐navigation Testbeds. Recent workshop and areas of interest for the IALA members have requested to monitor the development on activities that are not entirely in the e-Navigation context but is an input for such developments. Particularly, the MASS activities in the scope of IALA and the implications of MASS on AtoN including VTS require a level of understanding that could be easily improve with the publication of the current developments of MASS test beds.

## Purpose of the document

The present input paper aims at updating the G1107 to broader the scope of the same and provide guidance for Testbed managers who are encouraged to provide relevant information and results to the IALA Secretariat, so that these can be published on the IALA website.

A proposed title for the update G1107 could be Planning and reporting of emerging technologies Testbeds

## Related documents

Report on IALA Workshop on Marine Aids to Navigation in the Autonomous World

IMO – Regulatory scoping exercise (RSE)

EU operational guidelines for safe, secure and sustainable trials of MASS

# Background

IALA is committed to analyse and assess the impact of MASS in the safety of navigation in the scope of the IALA related services at an early stage of its development. IALA has been monitoring the development of MASS and some work on guidance documents has been initiated. To start paving the way for the adequate integration of MASS in the current disposition of AtoN including VTS, IALA hold virtually the IALA Workshop on Marine Aids to Navigation in the Autonomous World (24-28 May 2021). Some outcomes raised in relation with the growing presence of MASS along the coastal and port waters:

* There are already some ships operating in degree two and three, in particular non-SOLAS ships (up to 300 tonnes less than 24 metres) such as survey vessels.
* The increasing number of testbeds being conducted globally provides an opportunity for engagement to facilitate a greater understanding of the implications for Marine Aids to Navigation as automation technologies evolve and mature.

A number of recommendations from the participants were expressed in this sense:

* The outcomes and lessons learnt from test beds need to be documented/shared.
* Agencies conducting testbeds should be encouraged to engage VTS and AtoN providers during trials and evaluations to ensure the implications for VTS and AtoN are considered.

In a general perspective IALA members requires a greater education on the capabilities of MASS and the implications in interacting with MASS ships. This could be done by the publication of MASS test beds but requires some guidance to provide to the IALA members the relevant information.

# Discussion

Following the expression of interest from IALA members to have access to the different MASS test beds, IALA is committed to provide this information based on a Guideline that could cover all the relevant aspects including the challenges and issues that such emerging technologies could imply in the safety of navigation.

# References

* <https://www.iala-aism.org/technical/mass/>:
* https://www.iala-aism.org/technical/mass/port-authority-of-ceuta/

# Action requested of the Committee

The Committee is requested to:

1. Take note on the raising needs for information from IALA members surpassing the e-Navigation context
2. Update if deemed appropriated the G1107

1. Input document number, to be assigned by the Committee Secretary [↑](#footnote-ref-1)
2. Leave open if uncertain [↑](#footnote-ref-2)