



# 14<sup>th</sup> Meeting of the Hydrographic Services and Standards Committee

## Report of the MASS Navigation Project Team

### MASS PT Update

## Agenda Item HSSC-05.9A

HSSC-14, Denpasar, Bali, Indonesia - Hybrid Event, 16 – 19 May 2022



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# MASS NAVIGATION PROJECT TEAM'S REMIT

International  
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1. The Project team has a two year remit to carry out the following:-
  - a. to identify and prioritize MASS navigation requirements.
  - b. to analyse their impacts on current hydrographic standards and services; and
  - c. to develop a set of recommendations/issues to be addressed by existing working groups.



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# PRINCIPAL ACTIVITIES AND ACHIEVEMENTS

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1. We have conducted 2 meetings of the PT so far
  1. The Inaugural meeting was on 17th December 2021
  2. The second being the 25<sup>th</sup> Feb 2022
  3. Next meeting will be 25<sup>th</sup> May (after HSSC)
2. The first phase of the PT's work has been a Discovery & Reporting phase which has now concluded
3. Each member state has created a written report in order to identify MASS Nav Requirements



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# PRINCIPAL ACTIVITIES AND ACHIEVEMENTS

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Identify and report what test bed activities are happening in each member state's region and which degree of autonomy is predominantly used.

Report on what data MASS operators and MASS navigation systems are using today in each member state's region.

Have any data limitations been identified?

Report what navigational data each member states' regulators (e.g. MCA in the UK) are specifying should be used for MASS navigation in either trials or operations of MASS.

To what degree are member states Hydrographic Offices involved in MASS trials or operations and what data are they currently providing.

Have any data limitations been identified?

Report on what trailing has been done with new navigation standards (e.g. S100) for MASS, or what research into machine readable data has been carried out in each member state's region.

Have any data limitations been identified?



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2. The first phase of the PT's work has been a Discovery & Reporting phase which has now concluded
3. Each member state has created a written report in order to identify MASS Nav Requirements
4. This has now been collated into one report and MASS Nav requirements document
5. Circulated round the PT for comment



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# PRINCIPAL ACTIVITIES AND ACHIEVEMENTS

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1. As chair, I have also reached out to the following to make them aware of our work within the PT
  - a. S100 WG Chair
  - b. Chair of the WWNWS
  - c. Chair of NIPWG and S124 PT Chair
  - d. Chair of TWCWG
  - e. S101 PT chair
  - f. ENC WG Chair
  - g. WMO



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## UPCOMING ACTIVITIES

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1. The next phase is an Analysis and Recommendations phase:-
  1. Assign each Member State an S100 standard for gap analysis against all Degrees of Autonomy
  2. Assign data protection scheme to a Member State for gap analysis against all Degrees of Autonomy
  3. Assign data update policy to a Member State for gap analysis against all Degrees of Autonomy
  4. Once Gaps identified, reach out to each standard owner and make recommendations to address the issues



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# FUTURE WORK PROGRAMME

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## Stage 2 - Analysis & Recommendations:

**WP9:** Analysis of S101, S104, S111 and S102 (in their current state) for all IMO Degrees of Autonomy and highlight gaps and make recommendations to resolve for MASS navigation - Volunteer PT member state.

**WP10:** Analysis of the wider S100 standards for all IMO Degrees of Autonomy and highlight gaps within the standards themselves or identify where new standards are required and make recommendations to resolve for MASS navigation - Volunteer PT member state.

**WP11:** Analysis of the S57/S100 data protection schemes to determine if appropriate for all IMO degrees of Autonomy and highlight gaps and make recommendations to resolve for MASS navigation - Volunteer PT member state.

**WP12:** Analysis of the S57/S100 data update policy and process to determine if appropriate for all IMO degrees of Autonomy and highlight gaps and make recommendations to resolve for MASS navigation – Volunteer PT member state.

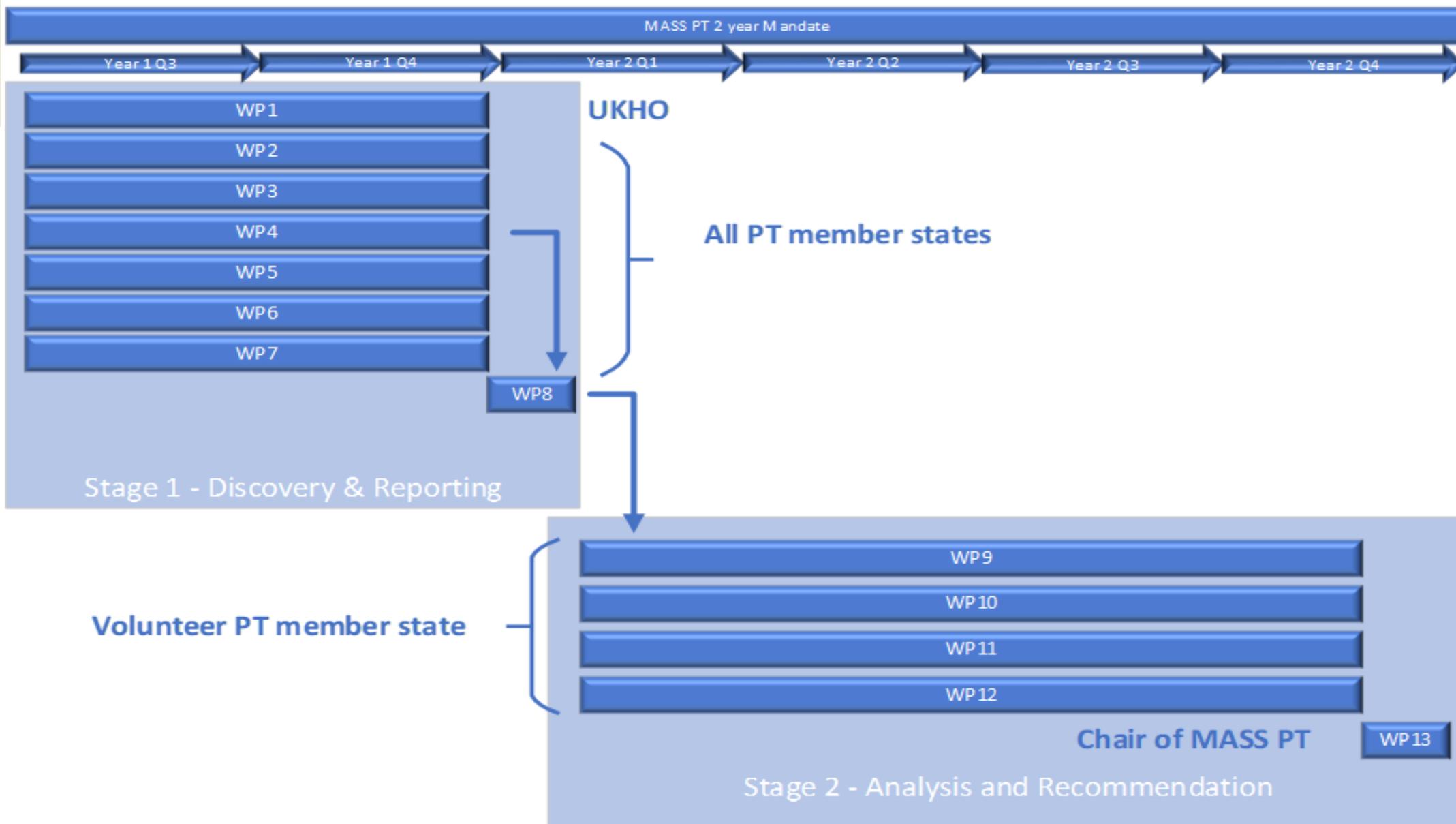
**WP13:** Create and submit a MASS PT agreed final report and recommendations for next steps to HSSC – Chair of the MASS PT



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# Any Questions?

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