

IMS Correspondence Expert Group on “Drift Modelling” to support SAR and Maritime Safety

IMS UCM 18.7

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- **IMS Group UCM#13 draft Terms of Reference presented and validated;**
- **IMS Group UCM#14, several Member States confirmed their interest in participating;**
- **IMS Group UCM#15 (Oct 2020), Updated ToR;**
- **HLSG DM 08 (15 Dec 2020), agreed the ToR;**
- **Currently 26 experts from 11 Member States. nominated.**
 - BE, HR, DK, FR, IS, IE, PT, RO, SI, ES, NL

- **To propose Guidelines for developing an operational IMS Drift Modelling tool (for SAR and other Maritime Safety purposes)**
 - .../...
 - **EMSA will not develop a new proprietary Drift Model**, but will include the possibility to connect to several existing state-of-the-art drift models
 - .../...

- **Objective of the Guidelines:**
 - to gather expert knowledge on the user needs (common understanding features and functionalities to be implemented.
 - To provide requirements on the drift parameters for connecting to existing models and
 - on how to display results in the IMS graphical map interfaces (SEG and IMS Mobile App).

- **Work package 1:**

Brief evaluation of the existing public and commercial SAR and other Maritime Safety purposes drift models.

✓ The identified models are listed in (Annex 1).

- **Work package2:**

Requirements for the development of an operational IMS Drift Modelling tool.

- Identification of user workflow
- List of configurable drift parameters for input;
- List of different types of objects whose drift should be simulated;
- Options for display of drift results (e.g. probability of results);
- Definition of user specific near-real time met-ocean data inputs;
- Met-ocean model specification;
- Configuration, selection and display of search patterns based on the output model results;
- Display of results in the SEG.

✓ The guidelines are available in Annex 2.

Guidelines approval phase

- To collect IMS group feedback by 8th June
- Submit the final draft to the next HLSG for approval
- Summer 2022, EMSA to prepare, based on the approved guidelines, the requirements for implementing a pilot project

To be confirmed should the above steps are successful:

Pilot project phase

- Q4 2022: development of detailed design and proof of concept
- potential cooperation with NOOS drift project (IMS to query the NOOS drift platform)
- Q2 2023: pilot project development phase
- Q3/Q4 2023; pilot project testing phase and presentation of the outcomes to the IMS and HLSG group.

- Take note of the deliverables 1 and 2 and
- Provide feedback on those deliverables when needed by the 8th June the latest to IMS@emsa.europa.eu
- For those Member States not participating to the IMS Correspondence Expert Group on “Drift Modelling” to provide feedback on the drift model(s) used at national level for Search and Rescue and maritime safety.



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