



## **10 – TECHNICAL ACTIVITIES**

### ***10.1 – Committee work organisation***

#### 10.1.1 – Committee work programme

Note by the Secretariat

### **1. INTRODUCTION**

The ARM, ENG, VTS, and DTEC Committees conducted thorough reviews of their work programmes during their latest sessions. Updates to the task plans, task registers, and new task proposals were made to align with the IALA Strategic Vision for 2025–2027 and to reflect the growing needs in digitalization, cybersecurity, service development, and support for emerging technologies such as autonomous vessels.

### **2. ONLINE WORK PROGRAMME**

The four Committees have significantly refreshed and enhanced their work programmes and task registers.

#### **ARM Committee**

- The ARM Committee reviewed and updated the 2025–2027 Work Programme, with progress across the Navigational Requirements, Information Services, Portrayal, and Risk Management domains.
- Key updates included:
  - Completion of Recommendation R0126 (Use of AIS in Marine Aids to Navigation) and its supporting Guideline (Use of AIS in Marine AtoN Services), consolidating and retiring multiple earlier AIS documents.
  - Development of a new Guideline on the Use of Simple IoT Sensors on Physical AtoN, defining technical requirements and integration of sensor and communication modules.
  - Agreement to revise IMO Model Course 7.03 to include AtoN-related competencies, in coordination with IMO HTW and the IALA World-Wide Academy.
  - Splitting of Guideline G1143 (Unique Identifiers for Maritime Resources) into three updated documents, clarifying management of the IALA MRN namespace.
  - Completion of the first stage of the Maritime Service (MS-2 – Aids to Navigation) specification, forming the basis for future Technical Service development.
  - Updates to IWRAP Mk2 and AISyRISK tools noted; participants invited to provide feedback to ARM22.

#### **ENG Committee**

- The ENG Committee reviewed and updated the 2025–2027 Work Programme, advancing key work areas on AtoN engineering, radionavigation services, and heritage preservation.
- Major updates included:

- Initiation of a new task on Implementing and Maintaining a Racon System/Service, planned for continuation in the 2027–2030 Work Programme.
- Development of Draft Guideline on Measurement of Marine Light Performance, consolidating technical methods and photometric testing procedures.
- Substantial progress on Guideline G1066 (Design of Floating AtoN Moorings), including an Excel-based calculation tool and migration of annexes to the IALA Wiki for broader accessibility.
- Ongoing update of G1008 (Remote Control and Monitoring of AtoN) to reflect new telemetry and monitoring practices.
- Progress on S-241 PNT Station Almanac Product Specification, with integration of models proposed by China MSA and Korea; further work planned at ENG22.
- New or revised guidance initiated for GNSS Precise Point Positioning (PPP), R-Mode implementation (MF & VDES), and SBAS Services, aligning with IMO and ITU activities on resilient PNT.

### **VTS Committee**

- The VTS Committee reviewed and updated the 2025–2027 Work Programme, with emphasis on regulatory guidance, digitalisation, and training improvements.
- Key updates included:
  - Revision of Recommendation R1012 on VTS Communication and preparation of a new Guideline on VTS Digital Communications with supporting use cases.
  - Development of new guidance for competent authorities titled “Establishing a Regulatory Framework for VTS – Responsibilities of a Competent Authority”, integrating compliance and enforcement aspects
  - Progress on Product Specification S-212 and associated Technical Services for route exchange, under-keel clearance, and VTS information services.
  - Adoption of updated training deliverables, including Model Course C0103-5 (Revalidation Training), Guideline G1156 (Recruitment, Training and Certification), and a new Guideline on VTS English Communication Competency Testing.

### **DTEC Committee**

- The DTEC Committee reviewed and updated the 2025–2027 Work Programme, reflecting major progress across digital information systems, emerging technologies, and maritime communications.
- Key updates included:
  - Development of a new Guideline on Digitalisation of Waterways and a Discussion Paper on IALA’s Vision Towards Digitalisation, consolidating the Organization’s digital strategy.
  - Full rewrite initiated for Guideline G1178 on Artificial Intelligence, expanding its scope to generative AI, explainable AI, and audit frameworks.
  - Advancement of Guideline on Marine AtoN over IMT-2030 (6G), with ongoing liaison to ITU-R and 3GPP and support for IALA’s prospective Market Representation Partner (MRP) status in 3GPP.
  - Proposal of a new task on IMT-Family Applications to Maritime Services to ensure integration of 5G/6G connectivity within the S-100 framework.
  - Progress on VDES-related work, including authentication techniques, resource sharing, and the development of a new Guideline on Shore-based VDES Infrastructure.

### 3. THE COUNCIL IS REQUESTED TO

**Approve** the revised Work Programme for the committees for 2025-2027, as outlined in document C03-10.1.1.1.