

| **ENG Committee – Work Plan 2014-2018** | | | | | | | | | | | | | | | | | | | | | | |
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| **Strategy Technical Domain** | **Work package** | **Expected Output** | | **Strategy** | | **WG** | | **Session** | | | | | | | | | | | | | | **Status** |
| **1** | | **2** | | **3** | | **4** | | **5** | | **6** | | **7** | |
| 1. TD#1 – Light and vision physics | | | | | | | | | | | | | | | | | | | | | | |
| * 1. Visual perception | * + 1. Develop guidance on marine signalling | New and updated Guidance documentation | | P7 | | 1 | |  | | x | | | x | | x | x | |  | |  | |  |
| * + 1. Develop guidance on the selection of rhythmic characters Including 1069 synchronisation | New Guidance document | | P7 | | 1 | |  | | x | | | x | | x | x | |  | |  | |  |
| * + 1. Update / Replace 1038 on ambient lights levels | New Guidance document | | P7 | | 1 | |  | | x | | | x | | x | x | |  | |  | |  |
| * 1. Conspicuity and the effectiveness of visual signalling | * + 1. Refer work package 5.1.2-5.1.13 | Updated Guidance documentation | | P7 | | 1 | |  | |  | | |  | |  |  | |  | |  | |  |
| * 1. Background lighting effects and mitigation | * + 1. Refer work package 5.1.2-5.1.13 | Updated Guidance documentation | | P7 | | 1 | |  | |  | | |  | |  |  | |  | |  | |  |
| * 1. Colours in visual signalling | * + 1. Refer work package 5.1.2-5.1.13 | Updated Guidance documentation | | P7 | | 1 | |  | |  | | |  | |  |  | |  | |  | |  |
| * 1. Range and performance of visual AtoN | * + 1. Refer work package 5.1.2-5.1.13 | Updated Guidance documentation | | P7 | | 1 | |  | |  | | |  | |  |  | |  | |  | |  |
| * + 1. Workshop on lights and batteries – IALABATT/IALALITE | IALA Workshop | | P5,P14 | | 2 | | x | | x | | | x | | x | x | | x | |  | |  |
| 1. TD#2 – AtoN design and maintenance | | | | | | | | | | | | | | | | | | | | | | |
| * 1. Buoy and beacon engineering and performance, including power systems, harmonising and interfacing of equipment and systems, and remote monitoring and control | * + 1. Develop further guidance on plastic buoys, systems & sensors | | New and updated Guidance documentation | P8 | | 2 | | x | | | x | | x | | x | x | | x | |  | |  |
| * + 1. Engineering guidance on the implementation of e-Navigation systems | | New Guidance documentation | P3 | | 2 | |  | | |  | |  | |  | x | | x | | x | |  |
| * 1. Maintenance strategy and techniques | * + 1. Develop guidance on sustainable AtoN design & maintenance | | Updated Guidance documentation | P8 | | 2 | |  | | |  | | x | | x | x | | x | |  | |  |
| * + 1. Develop guidance on the commissioning of AtoN equipment and systems and engineering audits | | New Guidance documentation | P8 | | 2 | |  | | | x | | x | | x | x | |  | |  | |  |
| * 1. Extreme environment AtoN engineering | * + 1. Develop guidance on AtoN design & maintenance for hot climates | | New Guidance documentation | P8 | | 2 | |  | | |  | |  | |  | x | | x | | x | |  |
| * + 1. Workshop on AtoN delivery and maintenance in extremely hot climates | | IALA Workshop | P5,P14 | | 2 | |  | | | x | | x | | x | x | |  | |  | |  |
| * 1. Safety of personnel | * + 1. Review and update guidance on safety of personnel | | Updated Guidance documentation | P8 | | 2 | |  | | |  | |  | | x | x | | x | |  | |  |
| * 1. Data populating for S-100 | * + 1. Populate the S100 registry for relevant AtoN classes | | Revised and updated S-100 registry data as requested. | G1, S3  P3 | | 1 | |  | | |  | |  | |  |  | | x | | x | |  |
| 1. TD#3 – Global capacity building and training | | | | | | | | | | | | | | | | | | | | | | |
| * 1. Standards for training and certification of AtoN personnel | * + 1. Support the WWA in updating Recommendations and Guidelines on standards for training and certification of AtoN personnel | | Updated WWA training standards | | G2, S2  P11 | | 2 | | x | | x | | x | | x | x | | x | | x | |  |
| * 1. Support for the WWA, including developing and coordinating model courses for AtoN and e-Navigation | * + 1. Support the WWA in updating model courses on standards for training and certification of AtoN personnel as training courses are undertaken | | Updated WWA model courses | | G2, S2  P11 | | 2 | | x | | x | | x | | x | x | | x | | x | |  |
| 1. TD#4 – Civil engineering and environment | | | | | | | | | | | | | | | | | | | | | | |
| * 1. Maintenance of AtoN structures | * + 1. Develop guidance on the use of heritage lighthouses for modern AtoN equipment & systems | | Updated Guidance documentation | | P8 | | 2 | |  | |  | | x | | x | | x | | x | |  |  |
| * + 1. Develop guidance on maintenance of AtoN structures | | Updated Guidance documentation | | P8 | | 2 | |  | | x | | x | | x | | x | | x | |  |  |
| * 1. Protection of the marine environment | * + 1. Refer work package 2.2.1 | | Updated Guidance documentation | | P8 | | 2 | |  | |  | |  | |  | |  | |  | |  |  |
| * 1. Supervision of the Heritage Forum | * + 1. Supervise work of the heritage forum | | Successful forum | |  | |  | | x | | x | | x | | x | | x | | x | | x | Heritage forum absorbed into WG2 |
| 1. Across all domains | | | | | | | | | | | | | | | | | | | | | | |
| * 1. Transform the IALA product line | * + 1. Navguide updates | | Update Navguide | | G2, S1  P1, P8 | | 1/2 | |  | | x | | x | | x | | x | | x | |  |  |
| * + 1. Review of IALA documents (ref ENG1 input paper on document ownership) | | Updated Guidance documentation | | G2, S1  P1, P8 | | 1/2 | | x | | x | | x | | x | | x | | x | | x |  |
| * + 1. Review and Update E-200 on marine signal lights | | Updated Guidance documentation | | P7 | | 1 | |  | |  | | x | | x | | x | | x | | x | Task completion extended to ENG7 |
| * + 1. Update E-106 for the use of retro-reflecting material on aids to navigation marks within the IALA Maritime Buoyage System | | Updated Guidance documentation | | P7 | | 1 | |  | |  | |  | | x | | x | |  | |  |  |
| * + 1. Review and update E-108 Ed 2 for surface colours used as visual signals on aids to navigation | | Updated Guidance documentation | | P7 | | 1 | |  | |  | |  | |  | |  | | x | |  |  |
| * + 1. Review and update of E-110 for rhythmic characters of lights on aids to navigation (2012) | | Updated Guidance documentation | | P1 | | 1 | |  | | x | | x | | x | | x | |  | |  |  |
| * + 1. Review and update E-111 for port traffic signals | | Updated Guidance documentation | | P7 | | 1 | |  | |  | |  | | x | | x | |  | |  |  |
| * + 1. Review and update E-112 for leading lights and 1023 for the design of leading lines | | Updated Guidance documentation | | P7 | | 1 | |  | |  | |  | | x | | x | | x | |  |  |
| * + 1. Merge and update 1043 on light sources and 1048 on LED technologies and 1049 on the use of modern light sources in traditional lighthouses | | Updated Guidance documentation | | P7 | | 1 | |  | |  | |  | |  | | x | | x | | x |  |
| * + 1. Review and update 1041 on sector lights | | Updated Guidance documentation | | P7 | | 1 | | x | | x | | x | |  | |  | |  | |  | Task Completed at ENG4 |
| * + 1. Review and update 1061 on illumination of structures | | Updated Guidance documentation | | P7 | | 1 | | x | | x | | x | | x | | x | | x | |  | Task completion extended to ENG6 |
| * + 1. Review and update 1065 on aids to navigation signal light beam vertical divergence | | Updated Guidance documentation | | P7 | | 1 | |  | |  | |  | |  | |  | | x | |  |  |
| * + 1. Review and update 1073 on conspicuity of aids to navigation at night | | Updated Guidance documentation | | P1 | | 1 | |  | |  | |  | |  | | x | | x | | x |  |
|  | * + 1. Review and update 1069 on synchronisation of lights | | Updated Guidance documentation | | P1 | | 1 | |  | | x | | x | | x | | x | |  | |  |  |
| * 1. Deliver a limited suite of high level standards | * + 1. Identify current documents as potential Standards, Recommendations, Guidelines & Manuals | | Identify potential standards for development | | G1, S1  P2 | | 1/2 | |  | |  | |  | | x | | x | | x | | x | Completed at ENG4 – note that ENG4 report says remove |
| * 1. Knowledge/Information Sharing | * + 1. Presentation to ENG committee on new developments in AtoN & related topics | | Rapporteur reports  Input papers  Presentations | | P14 | | 1/2 | | x | | x | | x | | x | | x | | x | | x |  |
| * + 1. Develop the IALA Wiki | | Active Wiki for document development and information sharing | | P14 | | 2 | | x | | x | | x | | x | | x | | x | | x |  |
| * + 1. Develop the IALA Dictionary | | IALA Dictionary maintained and updated | | P14 | | 2 | |  | |  | | x | | x | | x | | x | | x | Dictionary working group established at ENG3 |

IALA Strategy 2014-2018

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| **G1 - Ensure that aids to navigation systems and related services, including e-Navigation, Vessel Traffic Services, and emerging technologies, are harmonised through international cooperation and the provision of standards** | **G2 - All coastal states have contributed to an efficient global network of aids to navigation and services for the safety of navigation, through capacity building and the sharing of expertise** |
| G1 S1 - Develop standards suitable for direct citation by States in areas deemed important by the General Assembly, and continue to improve strong governance, including document policy and procedure for standards | G2 S1 - Position IALA as the source of standards, knowledge, and expertise that will enable States to undertake and share the technical development of aids to navigation, in accordance with UNCLOS, SOLAS, and other obligations. |
| G1 S2 - Improve and harmonise the delivery of VTS globally and in a manner consistent with international conventions, legislative frameworks and public expectations. | G2 S2 - Continue to develop capacity building activities to improve the global operations and management of aids to navigation systems and related services including VTS. |
| G1-S3 - Harmonise the information structure, Maritime Service Portfolios, and communications for e-Navigation by creating standards, and by cooperation with other IGOs, to achieve worldwide interoperability of shore and ship systems, including IMO sustainability goals for a maritime transport system. | G2 S3 - Coordinate the further development of VTS, e-Navigation, and short range aids to navigation, taking into account new technologies and sustainability. |
| G1 S4 - Work towards the transformation of IALA into an IGO, to enable the organisation to better fulfill its objectives, subject to General Assembly decision. | G2 S4 - Create standards for the design and analysis of aids to navigation systems in areas where increasing environmental and economic developments are affecting navigable waters. |
| G1 S5 - Ensure that the resources and capabilities of the Secretariat are sufficient to enable IALA and its committees and organs to reach its goals. |  |

# IALA Strategic plan priorities 2014-2018

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| P1 - Transform the IALA product line by redefining and restructuring existing documentation to meet the future needs of the organisation, including document content, the approval process, and accessibility. | P8 - Provide guidance on management, engineering, and sustainability in aids to navigation, particularly concerning modern materials and light sources |
| P2 - Deliver a limited suite of high level standards suitable for direct citation by States and by other international organisations. | P9 - Promote the demonstration of e-Navigation services, through the provision of test beds, and the harmonisation of results. |
| P3 - Develop guidance on positioning, communications, Maritime Service Portfolios, and data modelling for e-Navigation | P10 - Develop guidance on information management, portrayal, and new technologies for VTS. |
| P4 - Develop guidance for the delivery of VTS, including communications, human factors, qualifications, and training. | P11 -Develop funding sources, programs and delivery options for The World Wide Academy. |
| P5 - Develop guidance on aids to navigation in navigable waters affected by operational limitations | P12 - As part of the WWA Master Plan, prioritise and conduct needs-assessment missions and related capacity-building activities, and further the use of Model Courses by national authorities. |
| P6 - Develop a forward plan for future delivery of aids to navigation systems and related services including VTS, taking account of developments in technology and changing needs. | P13 - Define common metrics and evaluation techniques, including risk analysis methodologies, for use in determining aids to navigation solutions. |
| P7 - Continue to improve guidance on light and vision aspects of marine signaling, consolidating documentation. | P14 - Promote technology transfer and knowledge sharing concerning aids to navigation. |