

## Committee 2014 -2018 proposed work items

Strategy Element	Name	Estimated Number of Sessions	ARM	ENG	VTS	e-NAV	Comments
P1	<b>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.</b>						
	Cordinate the transfer of IALA documents to new structure either advised by council or suggested by ARM	7	x				To meet transition to IGO status- Council to approve structure
	Transform all documents managed by ARM including Navguide to new document structure	7	x				Will involve merging of documents, rationalising of documents, and more focussed recommendations and guidelines
	Populate IALA wiki with ANM documented advice	7	x				IALA wiki may be possible solution (once fully developed) to guidance and information sharing except recommendations / standards either for members only or a wider audience
	Review and revise only where essential ANM owned documents	7	x				To cover 2014-18 work period whilst transition to new structure is implemented
	Review, consolidate and update existing guidance documentation to ensure relevance and user needs are met as technology changes	7		x			Comprehensive mix of Recommendations, Guidelines and other documents related to ENG (15 Recommendations, 38 Guidelines and 1 Conservation manual)
	Review/revise/update existing Recommendations / Guidelines / VTS Manual	7			x		
	Review and update documentation	3				x	
	Strengthen secretariat service to undertake documentation process						
P2	<b>Deliver a limited suite of high level standards suitable for direct citation by states and by other international organisation.</b>						
	Cordinate the transfer of IALA documents to new structure either advised by council or suggested by ARM	7	x				To meet transition to IGO status- Council to approve structure
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	Populate IALA wiki with ANM documented advice	7	x				IALA wiki may be possible solution (once fully developed) to guidance and information sharing except recommendations/standards either for members only or a wider audience

	Review and revise only where essential ANM owned documents	7	x				To cover 2014-18 work period whilst transition to new structure is implemented
	Review existing IALA product line, identify and update existing guidance documents that are suitable for development into standards	7		x			The E-200 series of recommendations provides guidance on the recommended basic characteristics of marine signal lights
P3	<b>Develop guidance on positioning, communications, Maritime Service Portfolios and data modelling for e-Navigation.</b>						
	Develop a recommendation for navigational safety matters within Marine Spatial Planning	2	x				Work commenced at Marine Spatial Planning workshop and continued in ANM21 requires completion ANM22 & 23 (ARM01 and ARM02?)
	Continue to progress with other committees the IALA registry for S100	7	x				Work only to be within the technical capability of the committee
	Contribute to the development of S-100 AtoN product specifications	7		x			ENG S-100 Point of contact to liaise with e-nav on requirements
	e-Navigation Implementation	7				x	During the 2014-18 work program IMO is expected to make key decisions on e-Navigation. IALA documentation needs to be updated to reflect what is actually going to happen as opposed to what may happen or is possible.
	Overarching architecture	3				x	Shore-side perspective
	Shipboard equipment	7				x	Monitoring task
	Maritime Service Portfolios	4				x	Shore-based services
	Communications: AIS & VHF Data Exchange System	6				x	- AIS & VHF Data Exchange System - Maintain MRCP
	Integrated PNT	6				x	Investigate what needs to be done to make SBAS usable within the maritime sector.
	- WWRNS						
	- Resilient PNT						
	- High accuracy PNT						Work to include port and docking requirements (RTK, PPP etc)
	- Multi system Receiver Standard						IMO PS tba at NCSR 1 & 2
	- Future Radar AtoNs						
	- Future development of existing systems						Consider potential future services and functions that can be provided by existing infrastructure - for example DGNSS reference stations used for timing and independent positioning.
	Shore-based infrastructure	5				x	Including minimum configuration of CSSA - e.g. AIS based VTS
	Common Maritime Data Structure	6				x	IALA Domains management, data modelling and standardisation
	e-Navigation Usability	2				x	Reflect IMO Guideline
	Software Quality Assurance	3				x	Reflect IMO Guideline

<b>P4</b>	<b>Develop guidance for the delivery of VTS, including communcations, human factors, qualifications and training.</b>						
	Develop guidance on human factor management in VTS	4			x		
	Develop Guidance on the Ergonomics in a VTS Centre	6			x		
	Develop a Guideline on VTS Awareness for Navigating Officers	3			x		
	Produce a VTS Training Manual to complement the V-103 and its model courses	4			x		
	Develop a Guideline on Revalidation Process for the certificates of VTS Personnel	2			x		
	Produce VTS Communications guidance / recommendation / standards	4			x		
	Produce a Guideline on preparing for Zero Accident Campaign	3			x		
	Produce a Guideline on incident / accident reporting and recording, including near miss situations as it relates to VTS	4			x		
	Produce a Guideline on public and media relations in special / defined circumstances	3			x		
<b>P5</b>	<b>Develop guidance on aids to navigation in navigable waters affected by operational limitations.</b>						
	Develop guidelines for the management of AtoN in environmentally protected areas	5	x				Globally there is an expanding network of protected areas both on and off shore which have legal restriction of the activities permitted during particular period or at all. AtoN management authorities now have to work with the relevant environmental bodies to ensure AtoN can be maintained, established or varied. Guidance from authorities which have experience of this for countries/ regions developing policy on this matter would be beneficial
	Develop guidance on disaster recovery	5	x				Recent events in Japan and other countries have demonstrated that IALA should provide advice on disaster recovery preparations
	Develop guidance on pictograms for use on special marks	3	x				As a result of comments on the MBS, it has been identified that use of light rhythms and pictograms should be defined further to achieve uniformity and enable mariners to distinguish between various applications of special marks.

	Develop guidance on the marking of overhead power lines	3	x				ANM Task 10 of the 10-14 programme identified a separate guideline/recommendation was required for the marking of overhead power cables
P6	<b>Develop a forward plan for future delivery of aids to navigation systems and related services including VTS, taking into account of developments in technology and changing needs.</b>						
	Investigate the role of short range AtoN in context of E-navigation and future integration	6		x			
	Develop an "IALA VTS Strategy Paper" with regards to the delivery of VTS in a rapidly changing world and the possible implications for IMO Resolution A.857(20) Guidelines for Vessel Traffic Services	2			x		
	Review/update/provide input to IMO on Resolution A.857(20) Guidelines for VTS	4			x		
	Identify VTS Maritime Service Portfolio and servicing area	4			x		
P7	<b>Continue to improve guidance on light and vision aspects of marine signalling, consolidating documentation.</b>						
	Develop consolidated detailed guidance on design and use of visual AtoN	6		x			Taking into consideration conspicuity issues of background lighting effects, apparent Intensity, modelling techniques, LED sector light etc. May be in the form of a handbook/manual on visual signalling for marine AtoN.
P8	<b>Provide guidance on engineering and sustainability in aids to navigation, particularly modern materials and light sources</b>						
	Develop guidance on sustainable AtoN design and maintenance	7		x			Taking into consideration methods to reduce impact on the environment, zero maintenance concept, service interval extension, recycling, reuse and disposal of equipment, decommissioning of AtoN site etc.
	Develop guidance on the use of heritage lighthouses for modern AtoN equipment and systems.	6		x			Taking into consideration installation of AIS AtoN, LED light sources, optical focussing, removal of mercury from lens rotation systems.

	Develop guidance on AtoN structure protection systems and repair techniques	7		x			Taking into consideration corrosion prevention systems (cathodic protection, jackets and paint systems), concrete repair, erosion and scour prevention and effects of impacts of global warming. Specific repair techniques, products and the use of alternate modern materials such as acrylic glazings etc.
	Develop guidance on plastic buoys, mooring systems and sensors	7		x			Taking into consideration development in plastic buoys, alternate sinker systems, minimising impact on seabed, visibility and movement sensors that can be integrated with AIS for transmitting data.
	Develop guidance on AtoN design and maintenance for extreme climates	7		x			Taking into consideration work already completed on polar regions, additional guidance is required for AtoN in extreme heat environments.
	Develop guidance of commissioning of AtoN equipment and systems and engineering audits	4		x			Pre-installation and testing of equipment and confirmation of correct system configuration and performance following installation. Guidance on auditing AtoN sites from a technical perspective to ensure correct AtoN operation and performance
P9	<b>Promote the demonstration of e-Navigation services, through the provision of test beds and the harmonisation of the results.</b>						
	e-Navigation Test Beds	5				x	Reflect IMO Guideline
P10	<b>Develop guidance on information management, portrayal and new technologies for VTS.</b>						
	Produce a Recommendation on the portrayal of VTS information and data	5			x		
	Produce a Guideline on the use of decision support tools in VTS	4			x		
	Provide a Guideline on the technical interface between VTS systems and the systems of other stakeholders	5			x		
	Develop Guidance on the technical acceptance of a VTS system	4			x		
P11	<b>Develop funding sources, programs, and delivery options for the World Wide Academy.</b>						
	Support the development and expansion of the WWA by providing model courses and technical expertise	7	x				

	Incorporpoate further developments in e- Navigation at IMO into existing or new IALA documentation advising AtoN Authorities and the mariner of implications and implementation.	7	x				During 2014-18 work programme IMO is expected to make key decisions on e-Navigation. IALA documentation needs to be updated to reflect what is actually going to happen as opposed to what may happen or is possible
	Support the WWA in updating recommendations, guidelines and model courses on standards for training and certification of AtoN personnel as training courses are undertaken	7		x			Review and update guidance and model course as a result of feedback from WWA training events, other training providers and developments in technology
P12	<b>As part of the World Wide Academy Master Plan, prioritise and conduct needs-assessment missions and related capacity-building activities and further the use of Model Courses by National Authorities.</b>						
	Provision of IALA Experts as required by WWA	7	x	x	x	x	
	Deliver WWA Master Plan						
P13	<b>Define common metrics and evaluation techniques, including risk analysis methodologies for use in determining aids to navigation solutions.</b>						
	Incorporate Samson into IWRAP	7	x				For IALA risk steering group
	Support the IALA risk management steering group in further developing the IALA risk management toolbox	7		x			
P14	<b>Promote technology transfer and knowledge sharing concerning aids to navigation.</b>						
	Update the IALA Questionnaire at ANM 28 (ARM7?) in advance of conference for the 2018- 2022 work programme	7	x				
	Further develop knowledge transfer and information sharing within and across committees	7		x			Use of IALA Wiki for storage of information papers, seminar outcomes, case studies, background information and reseacr h in the development of guidance documents. Convert some of the existing manuals to an online wiki format to allow improved searching of manuals and routine editing by committees during the 4 year work term.

	Host workshops and seminars on AtoN engineering and sustainability	6		x		(at least two during work period) Taking into account advancements in lights, power supplies, buoys , civil engineering issues, including heritage maintenance aspects, sustainability, AtoN in extreme climates, AtoN engineering in e-navigation.
	Monitor developments in AtoN equipment and systems	7		x		Regularly update committee on developments in AtoN equipment and system technology, design and leading practices/applications and liason with other technical bodies e.g. CIE - International Commission on Illumination regarding light,lighting, colour and vision.
	Develop and conduct a global VTS Questionnaire	3			x	