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IALA Strategy 2014-2018

Strategic Items

The process of setting up the IALA strategy for a four years period starts with collecting “Strategic Items”

These Items, proposed by IALA (Council) members, IALA Committees etc. are a collection of overall challenges, opportunities, organisational and/or technical topics which are seen as important for national AtoN administrations, the Maritime Community or shipping in general. All items should reflect the aims of IALA as given in the Constitution.

Based on this input IALA defines the High-Level Strategy for the next 4 years period and a related strategy implementation plan based on the prioritized Strategic Items. The Strategy Implementation Plan is the reference for the work-program of the IALA Technical Committees.

This approach has been chosen to meet the needs of the IALA membership best possible.

The process collecting Strategic Items for the period 2014 – 2018 is finished. All items provided by Council members, Committees and others (e.g. VTS Symposium) are listed in the table following hereafter.

The column “2010 – 2014” shows Strategic Items which were the basis to set up the Strategy 2010 – 2014.

Items which were proposed during the current session are listed in the column “New”.

During the joint IALA Council Strategy Group / PAP Meeting, Oct. 2012 in Paris, the list was reviewed and a first draft list was developed showing those strategic items which should be the basis for the 2014 – 2018 strategy.

The next steps are:

The last list needs to be reviewed by the IALA Council Strategy Group and approved by the IALA Council. Based on the approved list it is a task of the Council to prioritise the work of IALA for the next session. This needs to be done until spring 2013.

Based on the prioritised strategy:

- PAP will develop a work program including a list of documents to be prepared until autumn 2013 for review and approval by Council.
- IALA Council Strategy Group will develop an updated High-level IALA Strategy for approval by Council until Dec. 2013

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IALA Strategy 2014-2018

Strategic Items

2010 - 2014	New	2014-2018	Prio
1. Overall Policy			
	1. Promote the role and image of IALA as the international centre of excellence in marine aids to navigation and related matters	1. Promote the role and image of IALA as the international centre of excellence in marine aids to navigation and related matters	
1. Be at the forefront in the harmonised and standardised development of aids to navigation (AtoN), both traditional AtoN and e-Navigation and evaluate new technologies		2. Be at the forefront in the harmonised and standardised development of aids to navigation (AtoN)	
	2. Contribute as a reliable partner, meeting highest quality standards, to the development of overarching navigation and maritime management concepts, related to safety and efficiency of maritime transport.	3. Contribute as a reliable partner, meeting highest quality standards, to the development of overarching navigation and maritime management concepts, related to safety and efficiency of maritime transport	
	3. Promote with all available means, that it is of vital importance that the mariner does not wholly rely upon electronic navigation, remembering that traditional Aids to Navigation are still an important aid to the mariner.	4. Promote with all available means, that it is of vital importance that the mariner does not wholly rely upon electronic navigation, remembering that traditional Aids to Navigation are still an important aid to the mariner	
2. To foster the international cooperation, to support its membership and to develop best practice IALA will:			
1. Support the coordination between National Members and other national AtoN and marine safety regulators, including the need to develop and exercise the legislative oversight responsibilities of the National IALA member.		1. Support the coordination between National Members and other national AtoN and marine safety regulators	
2. Liaise with world leading experts from universities and research institutions		2. Liaise with world leading experts from universities and research institutions	
	1. Contribute in cooperation with other organisations e.g. IMO, IHO, ITU etc. to the development of overarching concepts/systems	3. Contribute in cooperation with other organisations e.g. IMO, IHO, ITU etc. to the development of overarching concepts/systems	
3. Improve relationships with regional organizations		4. Further Improve relationships with regional organizations	
4. Facilitate national administrations' cooperation with research institutes and universities to improve the performance of AtoN.		5. Facilitate national administrations' cooperation with research institutes and universities to improve the performance of AtoN services.	
5. Support the collaboration of neighbouring countries to harmonize the service on their borders.		6. Support the collaboration of neighbouring countries to harmonize the service on their borders.	

2010 - 2014	New	2014-2018	Prio
6. Provide guidance for improving operational procedures through coordination and sharing of services among National Members and private interests.		7. Provide guidance for improving operational procedures through coordination and sharing of services among National Members and private interests.	
7. Support coordinated waterways management, AtoN and VTS with other private and public sector organizations, and other governments.		8. Support coordinated waterways management, AtoN services with other private and public sector organizations, and other governments.	
	2. Advise members that e-Navigation should be user driven, providing the user with enhanced information and decision support tools with easily available information to reduce the risk of human error. Furthermore e-Navigation should address a mix of digital and traditional AtoN.	9. Advise members on the mix of digital and traditional AtoN.	
	3. As there is increasing awareness, public perception of, and expectation for VTS an enhanced degree of accountability on maritime administrations and their subsequent management of VTS is placed. IALA will support members in developing adequate strategies to meet the public expectations	10. Support members to meet the public expectations of management and accountability of Aids-to-Navigation services by developing appropriate strategies.	
	4. Host Forums to discuss and share best-practice related to safety of navigation and predominantly of interest of IALA Members	11. Host Forums to discuss and share best-practice related to safety of navigation and predominantly of interest of IALA Members	
21. Support the free movement of maritime information and data across national borders to increase international cooperation. This calls for standards for data format and exchange. IALANET		12. Support the free movement of maritime information and data across national borders to increase international cooperation.	
22. Advise how to meet the challenge of providing an efficient level of service at less cost.		13. Advise how to meet the challenge of providing an efficient level of service at less cost.	
23. Guide its membership to incorporate new developments and services in a responsible and standardized manner		14. Guide its membership to incorporate new developments and services in a responsible and standardized manner	
	5. Coordinate Technical assessment of AtoN services on behalf of its membership and other organisations	15. Coordinate Technical assessment of AtoN services on behalf of its membership and other organisations	
	6. Influence the adoption of international regulatory control of navigation critical systems (e.g. AIS-VDL)	16. Influence the adoption of international regulatory control of navigation critical systems (e.g. AIS-VDL)	
VTS			

2010 - 2014	New	2014-2018	Prio
	<p>7. Develop/Establish a vision on the future deliveries of VTS by: Including but not limited to:</p> <ul style="list-style-type: none"> • VTS as component of a national Single Window • multinational VTS • VTS beyond territorial seas • In comparison to other transport modes, e.g Air Traffic Control • Noting that e-Navigation will enhance the full potential of VTS 	<p>17. Develop a strategy for the future delivery of VTS including consideration of, but not limited to:</p> <ul style="list-style-type: none"> - VTS as part of a national Single Window - multinational VTS - VTS beyond territorial seas - Noting that e-Navigation will enhance the full potential of VTS - In comparison to other transport modes, e.g Air Traffic Control - 	
	<p>8. Establish a VTS accreditation system to allow IALA experts to carry out accreditation of VTS training facilities Make the list of accredited VTS training facilities more visible, e.g. by publishing the list on the IALA website</p>	<p>18. Establish a VTS accreditation system to allow IALA experts to carry out accreditation of VTS training facilities and make the list of accredited VTS training facilities more visible, e.g. by publishing the list on the IALA website</p>	
	<p>9. Encourage members to establish mandatory VTS training, for both VTSOs and the mariner</p>	<p>19. Encourage members to establish mandatory VTS training, for both VTSOs and the mariner</p>	
	<p>10. Investigate the compelling need to establish stand-alone communication procedures for VTS to facilitate clear and unambiguous transfer of information.</p>	<p>20. Develop voice and digital communication procedures complementary to SMCP for VTS to facilitate clear and unambiguous transfer of information.</p>	
WWA and Capacity Building			
<p>12. Worldwide Academy: The training of technical personnel in all aspects of aids to navigation, based on common standards, is seen as a key element for worldwide, harmonized aids to navigation service. To foster this aim IALA will develop model training courses covering the different aids to navigation systems and services</p>	<p>11. IALA will support the development and expansion of the World Wide Academy (WWA) by providing model courses and technical expertise</p>	<p>24. IALA will support the development and expansion of the World Wide Academy (WWA) by providing model courses, technical expertise and a certification system</p>	
<p>13. :Capacity Building in developing Countries: IALA will support organisations legally responsible for the provision of AtoN in their county to realise their development goals and achieve measurable and sustainable results in the field of Aids-to-Navigation:</p>		<p>22. Support organisations legally responsible for the provision of AtoN in a developing countries, to realise their development goals and achieve measurable and sustainable results in the field of Aids-to-Navigation</p>	
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IALA Documents to be prepared during session 2014 – 2018 to implement the IALA Strategy

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Guidelines, recommendations, manuals etc. including, but not limited to:			
1. Management of information presentation in the VTS environment to support decision making.			
2. Use of new models of effective luminous intensity of pulsed lights			
3. Presentation of AIS AtoN information in coordination with IHO (check current output)			
4. On relationships between AtoN, VTS, traffic monitoring, pilotage services, routing, channel features and their application to the ships using these services (possibly amended)			
5. On Implementation of systems such as e-ANSI, e-Navigation and AIS as an AtoN, so that the existing AtoN in the area and their operational state will be known by the mariner in the quickest and most efficient way, integrating traditional aids and new technologies as elements of the same system.			
6. On implications of new legal requirements on environmental matters that affect AtoN.			
7. Develop further the IALA Risk Management Toolbox and support its use by members; Ensure that the IALA Risk Management methods used are standardised and widely accepted.			
8. Develop quality management standards and measures of effectiveness for AtoN services and equipment that allows identification of improvements to maintain the highest level of services as possible, keeping in mind the technology, human and financial resources and capturing best practice.			
9. On IALA industrial members' list of products – the 'IALA Product Guide'. To be reviewed by the IMC			
10. On conspicuity of lights and daymarks.			
11. On the development of e-Navigation, to include: <ul style="list-style-type: none"> - Maritime Information Systems - Position, Navigation & Timing - Communications - Architecture 			

12. Adapt/develop a common generic method of calculating the CO2 Footprint for Aids to Navigation and IALA Member organisations which can be adopted by all Members			
13. Produce Guidelines on carrying out carbon audits in common format and advising on carbon emission reduction plans			
14. Develop a guideline to assist aids to navigation organizations to respond to the trend to outsource AtoN-Services			
15. Revise the existing guideline on outsourcing			
16. Quality management is an essential tool for improving the efficiency of members providing aids to navigation services. IALA will support the membership by coordinating and harmonizing the quality criteria through developing an “Aids to Navigation Quality Management Service Manual”			
17. Develop a catalogue of relevant competencies which are available within IALA Member organizations based on a standardized method for populating and validating the catalogue and the competencies (preferably online)			
18. To increase the worldwide awareness of IALA and the services offered, IALA aims in bringing together the expertise of all members. To improve the administration of IALA a matrix shall be developed, identifying and capturing in particular the expertise and areas of national influence of each Council member.			
19. Guide its membership to incorporate new developments and services in a responsible and standardized manner			
20. IALA should provide internationally harmonized guidance (guidelines) and recommendations to IALA membership for the appropriate risk and security management regarding their assets, as well as regarding recommended measures for disaster recovery with the goal to achieve rapid business continuity			
	21. Conduct a thorough review of all the recommendations and guidelines and consolidate as appropriate to ensure all material continues to be relevant and easily accessible to authorities		
	22. VTS:		
	a Guideline on VTS from a global perspective		
	b GAP analysis with the focus on “What does the maritime domain expect VTS to deliver and what does VTS deliver now”		

	c	Guideline on establishment and operation of multinational VTS		
	d	Guideline defining procedures for accreditation of VTS training programs		
	e	Guideline on implementation and operation of solid-state radar systems for VTS		
	f	Guideline on “over the Horizon” radars as a VTS tool		
	g	Develop guidance to its membership to help implementing e-Navigation. Since the IMO Implementation Plan for e-Navigation will be approved in 2014, the IALA membership will need some guidance documents to help them implement e-Navigation in line with IMO plan		
	h	Incorporate further developments in e-Navigation at IMO into existing or new IALA documentation advising AtoN Authorities and the mariner of implications and implementation		
		23. e-Navigation:		
	a	Develop an IALA manual on e-navigation including: <ul style="list-style-type: none"> - Guidelines for shore-based authorities on the implementation of e-navigation (AtoIN, VTS and communication) components - Guidelines on cost/benefit, GAP and risk analysis for e-navigation 		
	b	Recommendations and Guidelines of PNT systems and radar AtoN		
	c	Revise and update IALA documentation on AIS support/development		
	d	Recommendations on e-Navigation for polar regions		
	e	Guideline as contribution to streamlining the regulatory process of adopting new procedures and new services		
	f	HMI, training, user requirements (input to IMO)		
	g	Future AIS		
	h	E-Navigation communication taking into account GMDSS modernisation		
	i	National Single Window		
	j	Data structure		
	k	E-Navigation portrayal		
	l	ECDIS/INS/IBS interface		

	m E-Navigation architecture		
	n IHO Registry applications		
	o Integrated PNT <ul style="list-style-type: none"> a. World Wide Radio Navigation System b. Resilient PNT c. Multi-system receiver standards d. Future Radar AtoNs 		
	p Guideline on future applications for AIS & VHF Communications (VDE)		
	q Update the WWRNP after the expected implementation/deployment of new satellite navigation systems (e.g. GALILEO)		
	24. Guideline on marking overhead power cables		
	25. Create a suite of documents (guidelines) related to day marks including a method to determine the visible range of day marks and a guidance on day marks reiterating their importance for navigation		
	26. Develop guidelines for the management of AtoN in environmentally protected areas		
	27. Review, update Guideline 1033 for High-Speed Craft incl. Wing in Ground crafts		
	28. Guideline on the impact for AtoN of the use of mobile devices (mobile telephones, tablet & lap tops)		
	29. Guideline on how to equip buoys with sensors e.g. current, temperature, etc. and to transmit these data to shipping		
	30. IALA Recommendation O-139 should be updated to include information on AIS		
	31. Add the Calmar mooring design software package to the IALA software suite, once it has been verified.		
	32. Review and update Recommendation E-111 on Port Traffic Signals (May 1998) to include Information on Variable Message Signs.		
	33. Review and update Guideline 1061 with a view of including new methods of illumination of AtoN with LED panels.		
	34. Production of an IALA guideline on the establishment and operation of standard navigation and communication systems in ice covered waters for year-round polar route navigation		
	35. Service Quality Manual on the service quality and product quality to serve as the basis for the IMO Audit or external auditing practice		

	36. Guidelines, standards, and/or recommendations on collection, processing and (statistical) presentation of vessel traffic data and analysis, including traffic accident data.		
	37. Develop and integrated IALA manual on instruments (measures, provisions, services) to enhance safe and efficient navigation of individual vessels and/or vessel traffic, integrating and consolidating relevant parts of existing IALA guidance documents. [Separate or as part of NAVGUIDE??]		
	38. Develop International guidelines, standards and/or recommendations for the application of instruments (measures, provisions, services) to enhance safe and efficient navigation of individual vessels and/or vessel traffic in coastal areas, including areas beyond national jurisdiction		
	39. Develop international guidelines, standards and/or recommendations for monitoring and tracking vessels and vessel traffic		
	40. Develop a guideline on the future of the IALA radio beacon Differential Positioning Services and viable alternatives to this service		
	41. Develop a guideline for decision making and implementation of solutions for terrestrial back-up systems (e.g. TERRANAV)		
	42. Give guidance on Marine Spatial Planning Maritime coupled with risk assessment and the development of risk mitigation measures		
	43. Develop a recommendation for members to monitor the AIS VDL load in their area of responsibility and take appropriate action to ensure efficient utilisation of the VDL.		
	44. Monitor the development and use of plastic bouys and provide appropriate guidance including the revision of older guidelines. This should include minimum quality standards and testing methods for the polyethylene		
	45. Monitor the development of organic LED (OLED) technology and its impact on AtoN light		
	46. Noting the on-going role of visual AtoN in the e-Nav environment monitor the experience on virtual AtoN		

	<div>47. Provide input to :<ul style="list-style-type: none">- the e-Navigation implementation strategy of IMO, focussing on shore-based aspects and elements, including ship-shore communications and data-exchange- IMO and ITU on the future of AIS- IMO and ITU on MRCP- IMO on Maritime Service Portfolios- IMO and IEC on e-Navigation portrayal- the IALA registry for S100</div>		