

The VTS Committee is requested to note the co-operation specified by the Council in the e-NAV Committee's Work Programme, which may impact on its own Work Programme.

e-NAV COMMITTEE WORK PROGRAMME (2010 – 2014)

Approved by the IALA Council – June 2010

(Changes made/suggested at e-NAV8 are highlighted in yellow)

e-Navigation is an holistic concept of enhanced navigation through electronic systems, based on user needs and derived user requirements. In particular, the e-Navigation concept simultaneously targets:

- the harmonization of shipborne and shore-based functionality;
- the harmonization of shore-based operational and technical functionalities and services of different shore-based stake-holders;
- multi-dimensional quality improvements of shore-based operational and technical services;
- demonstration of service levels achieved, using appropriate management and engineering methods.

The e-NAV Committee deals with:

- progressive contributions to IMO and other relevant international bodies to support the IMO stated 'core goals' and 'key strategic elements' of its e-Navigation concept and to reap its intended, stated 'benefits';
- harmonized derivation of user requirements from stated user needs, both existing and new, regarding shore-based operational services as well as technical services and systems, in close liaison with other IALA Committees;
- the appropriate description of operational presentation surfaces to shore-based users, employing the methodology of information portrayal;
- radio navigation and communications services and systems for the provision of integrated electronic navigation information (including AIS, GNSS, etc.);
- the architectural aspects of IMO's e-Navigation concept, in particular regarding harmonized concepts such as the (IALA) Universal Maritime Data Model (UMDM), the (IALA) Maritime Data Exchange Format (MDEF), and the IALA Common Shore-based System Architecture (CSSA);
- the impact of IMO's e-Navigation concept on the Work Programme of IALA.

In the work of the Committee, the following general aspects are to be taken into consideration:

- Strategic focus of IALA;
- Harmonized use of definitions and terms;
- Concepts associated with risk Assessment / management;
- IMO e-Navigation strategy;
- Work Programme 2010 – 2014.

Task	Estimated number of sessions	WG	Deliverable
Strategy and operations (Presentation and User requirements)			
1 Monitor and co-ordinate input on Strategy & Operations to the IMO process	7	1	Inputs to NAV, COMSAR, STW & CG
2 Review and update IALA Strategy for e-Navigation	3	1	Input for PAP
3 Maintain and update user requirements (in co-ordination with the VTS & ANM Committees)	4	1	Inputs to NAV & CG
4 Monitor developments in navigation for polar regions	2	ALL	Recommendation on e-Navigation for polar regions
Position, Navigation, and Timing (Sensors):			
5 Review and update World Wide Radio Navigation Plan	3	2	Input to NAV & CG
6 Prepare Recommendations and Guidelines on PNT systems and radar AtoN	5	2	Revised Racon & DGNSS Recommendation
7 Co-ordinate input to IMO, ITU, and IEC on PNT systems	4	2	NAV & CG inputs (Liaison with RTCM SC104)
8 Prepare a Guideline on establishment and operation of navigation systems in polar regions	2	ALL	IALA Recommendation on e-Navigation in polar regions
9 Monitor developments in satellite and terrestrial EPFSs and non-radionavigation systems	4	2	Periodic updates to Committee
10 Guideline on recommended measures for disaster recovery	2	ALL	IALA Guideline
11 Monitor developments in radar technology and their effect on racons	3	2	Updated Racon Strategy
AIS			
12 Review and update documentation on AIS (M.1371; A-124, A-126)	4	3	Revised recs.
13 Co-ordinate input to IMO, ITU, and IEC on AIS	3	3	Liaison notes, CG & NAV inputs
14 Monitor and contribute to development of AIS, including the next generation of AIS	4	3	Periodic updates

Task	Estimated number of sessions	WG	Deliverable
15 Monitor developments in the technical definition of AIS stations at IEC, satellite detection of AIS, and terrestrial long range AIS.	5	3	IEC inputs
16 Monitor developments in the use of AIS in polar regions (e.g. AIS AtoNs)	3	ALL	IALA Recommendation on e-Navigation in polar regions
Communications:			
17 Review and update IALA Maritime Radio Communications Plan	5	4	COMSAR & CG input
18 Review Recommendations and Guidelines on communications	4	4	IALA Recommendations and Guidelines
19 Co-ordinate input to ITU, IMO, and IEC on communications	4	4	CG & COMSAR inputs
20 Prepare a Guideline on establishment and operation of communications systems in polar regions	2	ALL	IALA Recommendation on e-Navigation in polar regions
21 Monitor developments in GMDSS and LRIT	3	4	Periodic updates
Architecture:			
22 Develop and maintain shore-based e-Navigation Architecture	5	5 (assisted by 2,3,4 & 6)	Periodic updates to Committee
23 Prepare Recommendations and Guidelines on e-Navigation architecture	5	5	IALA Recommendations & Guidelines
24 Co-ordinate input to IMO, ISO, and IEC on architecture	3	5	CG & NAV inputs
Information Portrayal:			
25 Prepare Recommendations and guidelines on Maritime Information Systems (in co-ordination with the VTS Committee)	5	6	IALA Rec. and inputs to NAV & CG. Liaison with IHO
26 Prepare Recommendations and guidelines on the portrayal of information	5	6	IALA Rec. and inputs to NAV & CG. IHO liaison
27 Monitor developments in ECDIS, VDR, and ENC's	3	6	Periodic updates to Committee
General:			
28 Monitor and report progress on related systems	4	2/3/4	Periodic updates

Task	Estimated number of sessions	WG	Deliverable
29 Liaise with other IALA Committees and other bodies	4	C/VC	Liaison notes, PAP
30 Prepare a combined IALA e-Navigation Plan (all Committees)	4	C/VC	PAP
31 Set up an e-mail group to coordinate work, intersessional meetings and plans using the IALA website and IALA Bulletin, where appropriate	4	C/VC	e-mail distribution

Monitoring Items

Task	Duration	Strategy Element(s)
M1 None at this time		

Deferred Items

Task	No. of sessions	Strategy Element(s)
D1 None at this time		

e-NAV Committee Work Plan

	e-NAV8	e-NAV9	e-NAV10	e-NAV11	e-NAV12	e-NAV13	e-NAV14
Task 1	X	X	X	X	X	X	X
Task 2	X	X	X				
Task 3			X	X	X	X	
Task 4				X			X
Task 5		X		X		X	
Task 6	X	X		X	X	X	
Task 7	X			X		X	X
Task 8		X			X		
Task 9		X	X		X		X
Task 10			X	X			
Task11	X			X		X	
Task 12		X		X		X	X
Task 13	X		X				X
Task 14	X	X	X			X	
Task 15	X	X		X	X		X

	e-NAV8	e-NAV9	e-NAV10	e-NAV11	e-NAV12	e-NAV13	e-NAV14
Task 16	X		X			X	
Task 17		X		X	X	X	X
Task 18	X	X		X		X	
Task 19		X		X	X		X
Task 20	X			X			
Task 21		X			X		X
Task 22	X	X	X	X		X	
Task 23	X	X	X	X	X		
Task 24			X	X		X	
Task 25	X	X		X	X		X
Task 26	X		X	X		X	X
Task 27		X		X		X	
Task 28	X		X		X		X
Task 29		X		X		X	X
Task 30	X	X			X	X	
Task 31	X		X		X		X