



Commissioners of
IRISH LIGHTS

Navigation
and Maritime
Services



IALA STANDARD

S1020

MARINE AIDS TO NAVIGATION DESIGN AND
DELIVERY

Edition 1.0
May 2018

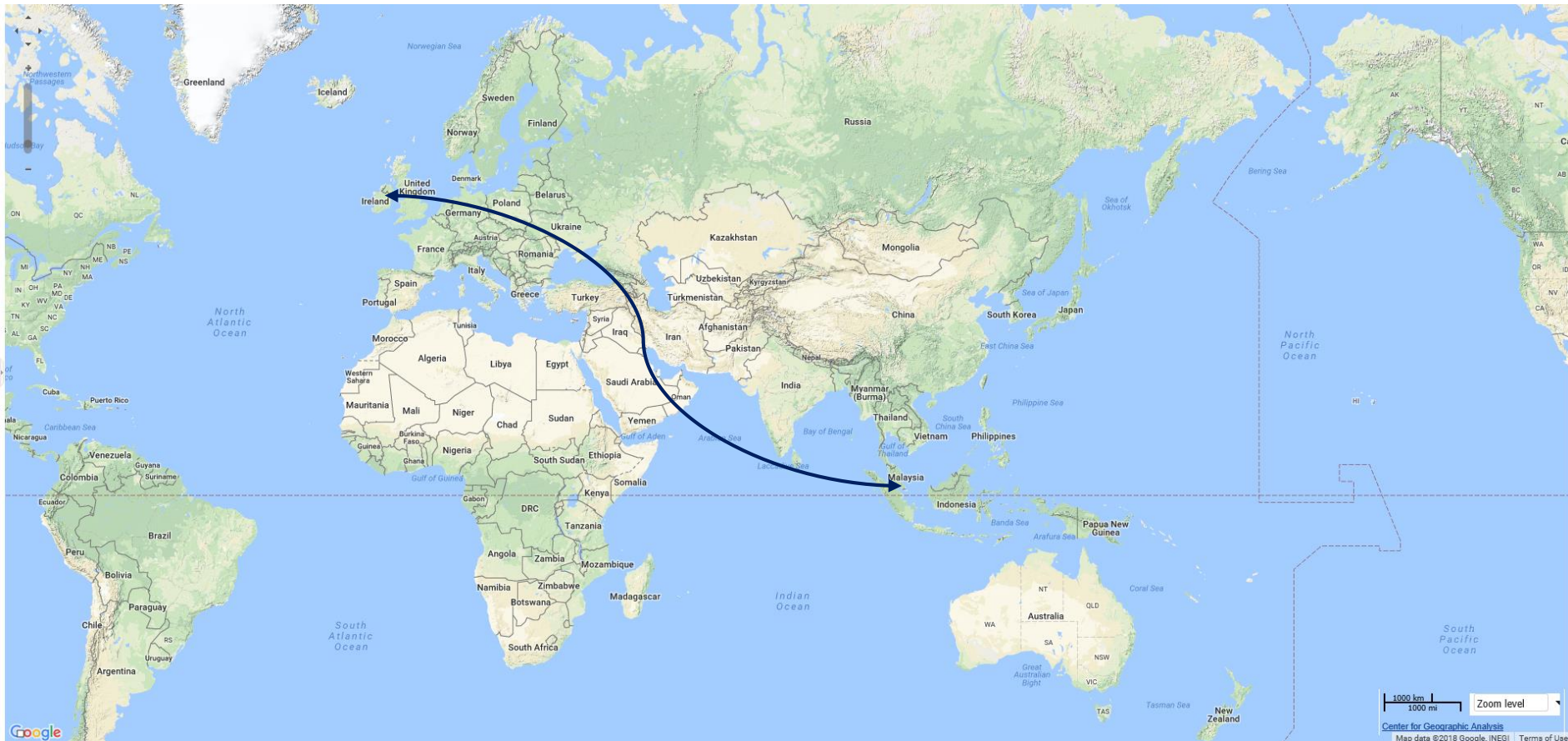
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International Association of Marine Aids to Navigation and Lighthouse Authorities
Association Internationale de Signalisation Maritime

IALA Standards in Focus

Kuala Lumpur
Malaysia

24th February 2020

Ireland and Malaysia



**My Home in Ireland is 11,000 Kilometres away from Malaysia.
We are joined together today by IALA.**

Ireland and Malaysia

If you want a
Taste of Ireland
KL has an Irish
Football Club.



It's Great to be Back in KL

- 1982 - I've changed!
- Navigation has changed
- KL and Port Kelang have changed



- IALA has changed

Kuala Lumpur – This Week

- This week in KL will (all going well) mark the final IALA change of status to an Intergovernmental Organisation
- 200 Delegates from 56 Countries will complete the Final Act of the Diplomatic Convention
- Thank You – Malaysia – Terima Kasih
- A great moment for IALA

IALA Standards

An IALA Standard is a part of a framework, the implementation of which by all coastal states will harmonise Marine Aids to Navigation worldwide.

IALA standards cover technology and services and are non-mandatory.

Provisions in Standards can be Normative or Informative

Recommendation - specifies what practices should be carried out in Order to comply with that Recommendation, and may be referenced, in full or in part, in an IALA Standard.

Guideline - describes how to implement practices normally specified in a Recommendation.

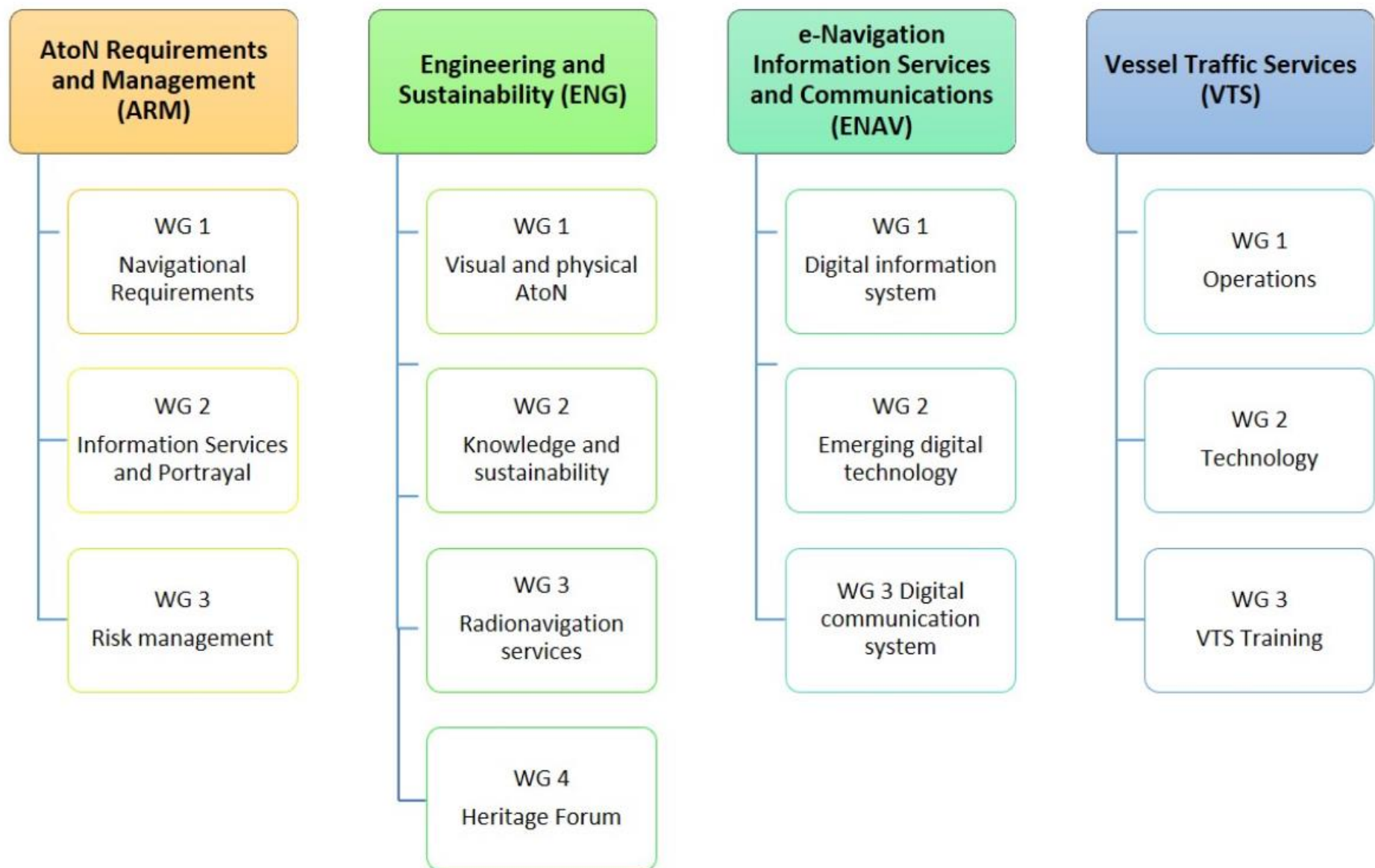
Standards are Non Mandatory - However

- **Normative** provisions are those with which it is necessary to conform in order to claim compliance to the Standard.
- **Informative** provisions are those which specify additional desirable practices but with which it is not necessary to conform in order to claim compliance to the Standard.

The Content of Standards Can Change

- Standards are approved or amended at a General Assembly
- Recommendations are approved or amended at Council
- Council 70 (December 2019) approved amendments to 5 Recommendations
 - Port Traffic Signals
 - Vessel Traffic Services
 - Sustainability
 - Responsible Design, Operation & Maintenance
 - Provision of Maritime Services

IALA Committees – The Engineeroom of Harmonised Standards



IALA – Working in the Engineerroom

- PAP 39 – 19th February
- VTS48 – 2nd March
- ARM11 – 9th March
- ENAV25 – 16th March
- Heritage Seminar – 25th April
- ENG11 – 27th April
- VTS-ENAV Symposium – 25th May
- Council 71 – 2nd June
- LAP and LAPEX

S1010: MARINE AIDS TO NAVIGATION PLANNING AND SERVICE REQUIREMENTS

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Scope	Number	Title	Compliance
Aids to Navigation Planning	R1001	The IALA Maritime Buoyage System	Yes
	E-111	Port Traffic Signals	Yes
	O-113	The Marking of Fixed Bridges and Other Structures over Navigable Waters	Yes
	O-139	The Marking of Man-Made Offshore Structures	Yes
Levels of Service	R0130(O-130)	Categorisation and Availability Objectives for Short Range Marine Aids to Navigation	Yes
Risk Management	R1002	Risk Management for Marine Aids to Navigation and Related Services	Yes
	R1015	Marking of Hazardous Wrecks	Yes
	R1016	Mobile Marine Aids to Navigation (MAtoN)	Yes
Quality Management	O-132	Quality Management for Aids to Navigation Authorities	Yes
	O-118	The Recording of Aids to Navigation Positions	Yes
S1010 Compliance			100%

S1020: MARINE AIDS TO NAVIGATION DESIGN AND DELIVERY

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Scope	Number	Title	Compliance
Visual Aids to Navigation	R0108(E-108)	The Surface Colours used as Visual Signals on Marine Aids to Navigation	Yes
	E-110	Rhythmic Characters of Lights on Aids to Navigation	Yes
	R0201(E200-1)	Marine Signal Lights - Colours	Yes
	R0106(E-106)	The Use of Retro-reflecting Material on Marine Aids to Navigation Marks within the IALA Maritime Buoyage System	Yes
	O-104	Off Station Signals for Major Floating Aids	Yes
Range and Performance	R0202(E-200-2)	Marine Signal Lights - Calculation, Definition and Notation of Luminous Range	Yes
	E-200-3	Marine Signal Lights – Terms of Measurement	Yes
	R0204(E-200-4)	Marine Signal Lights – Determination and Calculation of Effective Intensity	Yes
S1020 Compliance			100%

S1030: RADIO NAVIGATION SERVICES

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Scope	Number	Title	Compliance
Radar and Radar Positioning	R-101	Marine Radar Beacons (racons)	Yes
Augmentation Services	R-115	The Provision of Maritime Radionavigation Services in the Frequency Band 283.5-315 kHz in Region 1 and 285-325 kHz in Region 2 and 3	Yes
	R-121	The Performance and Monitoring of DGNSS Services in the frequency band 283.5-325KHz	Yes
S1030 Compliance			100%

S1040: VESSEL TRAFFIC SERVICES

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Scope	Number	Title	Compliance
VTs Implementation	V-119	The Implementation of Vessel Traffic Services	N/A
VTs Operations	V-127	Operational Procedures for Vessel Traffic Services	N/A
VTs Data and Information Management	V-125	The Use and Presentation of Symbology at a VTs Centre	N/A
	R1014	Portrayal of VTs Information	N/A
VTs Communications	R1012	VTs Communications	N/A
VTs Technologies	V-128	Operational and Technical Performance of VTs Systems	N/A
VTs Auditing and Assessing	R1013	Auditing and Assessing Vessel Traffic Services	N/A
S1040 Compliance			#DIV/0!

S1050: TRAINING AND CERTIFICATION

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Scope	Number	Title	Compliance
Training and Assessment	R0141(E-141)	Training and Certification of AtoN Personnel	Yes
	R0103(V-103)	Training and Certification of VTS Personnel	N/A
Accreditation, Competency, Certification and Revalidation	O-149	Accreditation of Training Organisations	Yes
S1050 Compliance			100%

S1060: DIGITAL COMMUNICATION TECHNOLOGIES

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Scope	Number	Title	Compliance
Wide and Medium Bandwidth Systems	R1007	VDES for Shore Infrastructure	Yes
	A-123	The Provision of the Shore Based Automatic Identification System (AIS)	Yes
S1060 Compliance			100%

S1070: INFORMATION SERVICES

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Scope	Number	Title	Compliance
Data Models and Data Encoding	e-NAV-144	Harmonised Implementation of Application Specific Messages (ASM)	Yes
	R0147(e-NAV-147)	Product Specification Development and Management	Yes
	V-145	The Inter-VTS Exchange Format (IVEF) Service	N/A
S1070 Compliance			100%

Need Some Help?



ARM Committee



ENAV Committee

Need Some Help?



ENG Committee



VTS Committee

Or Call in The A Team!



MR OMAR FRITS ERIKSSON

Dean, IALA Deputy Secretary-General



MRS GERARDINE DELANOYE

Programme Manager

The IALA World Wide Academy

Enabling National Authorities to meet their States' obligations under the UNCLOS and SOLAS conventions.

The WWA is there to help you meet the IALA Standards



MR KEVIN GREGORY

Senior Advisor



MR JACQUES MANCHARD

Senior Advisor

Ireland and Malaysia



If you are local and here for a while go to a GAA match – you won't regret it!



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