



International Association of Marine Aids to Navigation and Lighthouse Authorities

Implementation of the European Code for Inland Waterways



## The IALA 'motto' and principal aims

"Successful voyages, sustainable planet"

- To harmonise standards for Aids to Navigation systems worldwide
  - To facilitate the safe and efficient movement of shipping
  - To enhance the protection of the marine environment
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## Four types of Membership

- 86 National Members (Coastal States)
- 60 Associate Members
- 132 Industrial Members
- 47 Honorary Members





# Aids to Navigation

IALA Constitution Art. 1

“A device, system or service, external to vessels, designed and operated to enhance safe and efficient navigation of individual vessels and/or vessel traffic”





# IALA Strategic Vision and Goals for 2026

## Goal 1

Ensure that aids to navigation systems and related services, including e-Navigation, Vessel Traffic Services, and emerging technologies, are harmonized through international cooperation and the provision of standards.

## Goal 2

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.





# The Maritime Buoyage Agreement

## IALA A and IALA B

During the IALA conference in November 1980 two navigation marking systems, ie the System A (red color for the left hand of the ship) and the System B (red color for the right hand of the ship), were combined into one - the IALA System.

**UNECE** Resolution No. 22 of 12 November 1982 on SIGNI – Signals and Signs on Inland Waterways, amended in 2010, take the IALA Buoyage Agreement into account.







# The Committees

The “Power House” of IALA

- AtoN Requirements and Management (ARM)
- Engineering and Sustainability (ENG)
- Vessel Traffic Services (VTS)
- e-Navigation (ENAV)





# Publications

Main result of the Committees' work

- **Standards** which can be referred to directly in IMO and other international conventions and in national maritime laws.
  - **Recommendations** which advise what should be done.
  - **Guidelines** which advise how to implement the recommendations as 'best practice'.
  - **Manuals** which provide general reference materials (NAVGUIDE; MBS; VTS Guide; IALA Dictionary).
  - **Model courses** which provide guidance on the training of VTS personnel, Aids to Navigation Managers and Aids to Navigation Technicians.
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# The Academy

- Inaugurated January 2012
- Independently funded

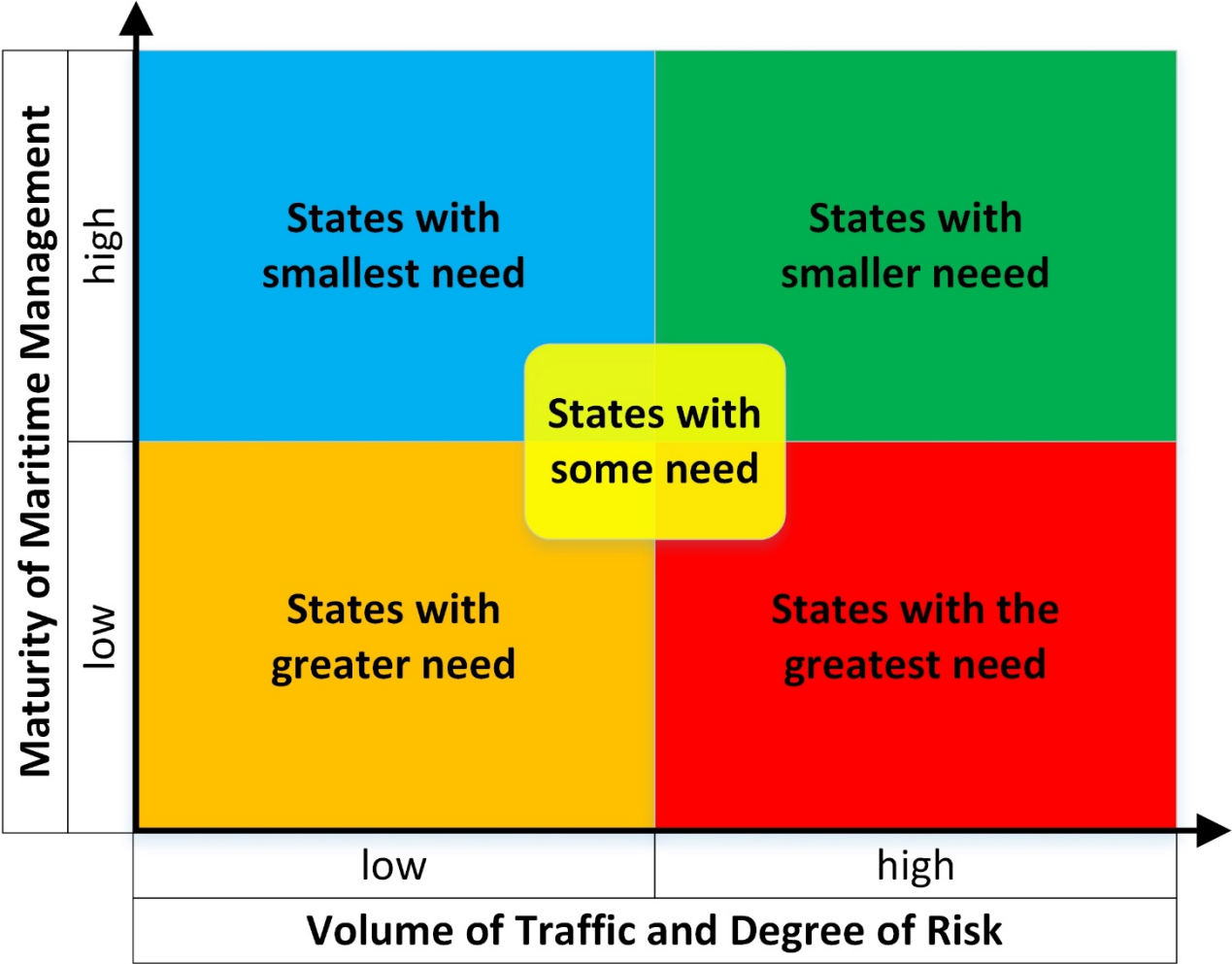
## *Functions:*

- *Capacity Building*
- *Education and training*
- *Research and development*



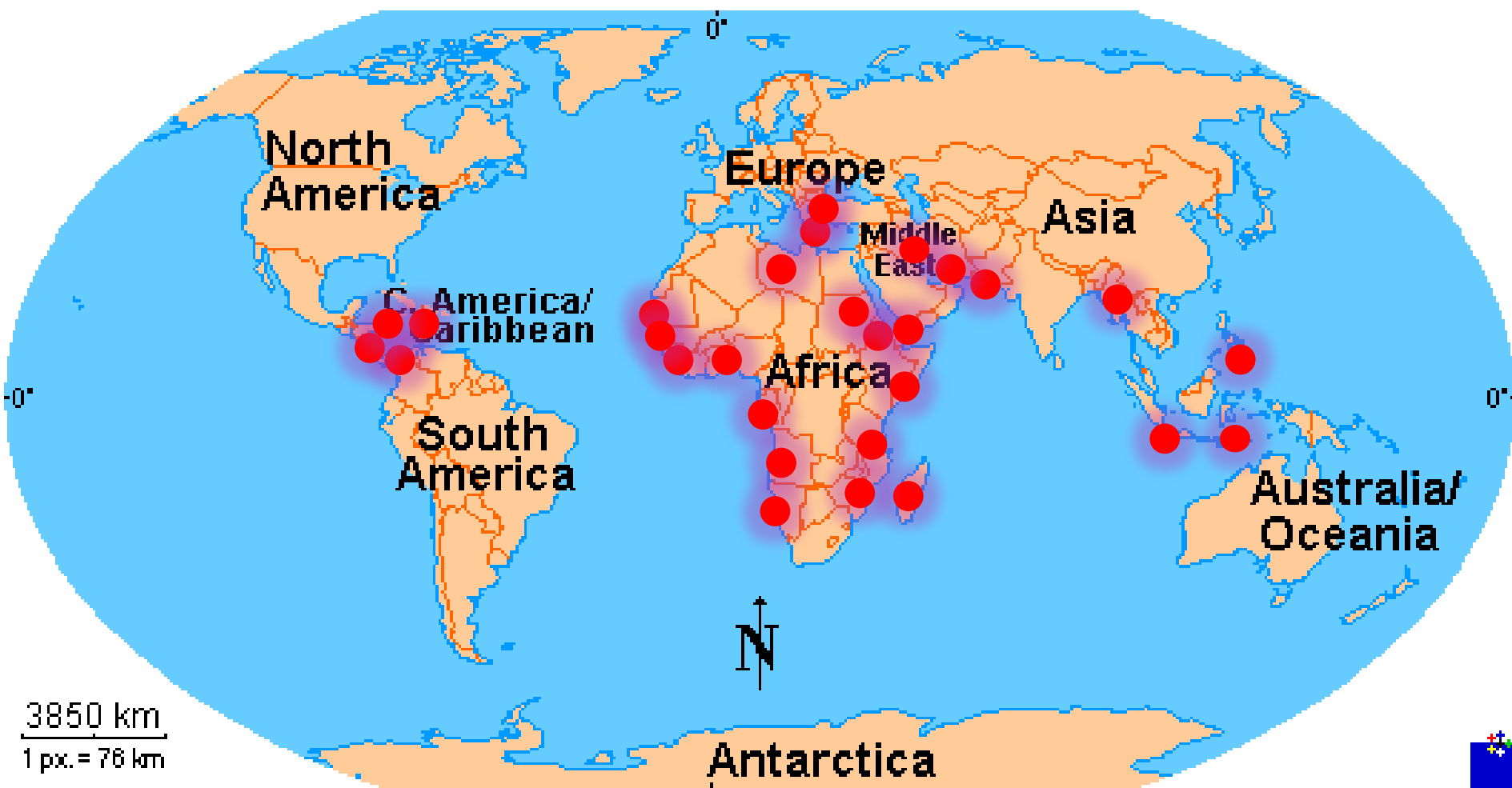


# Assessment of Need - 154 Coastal States





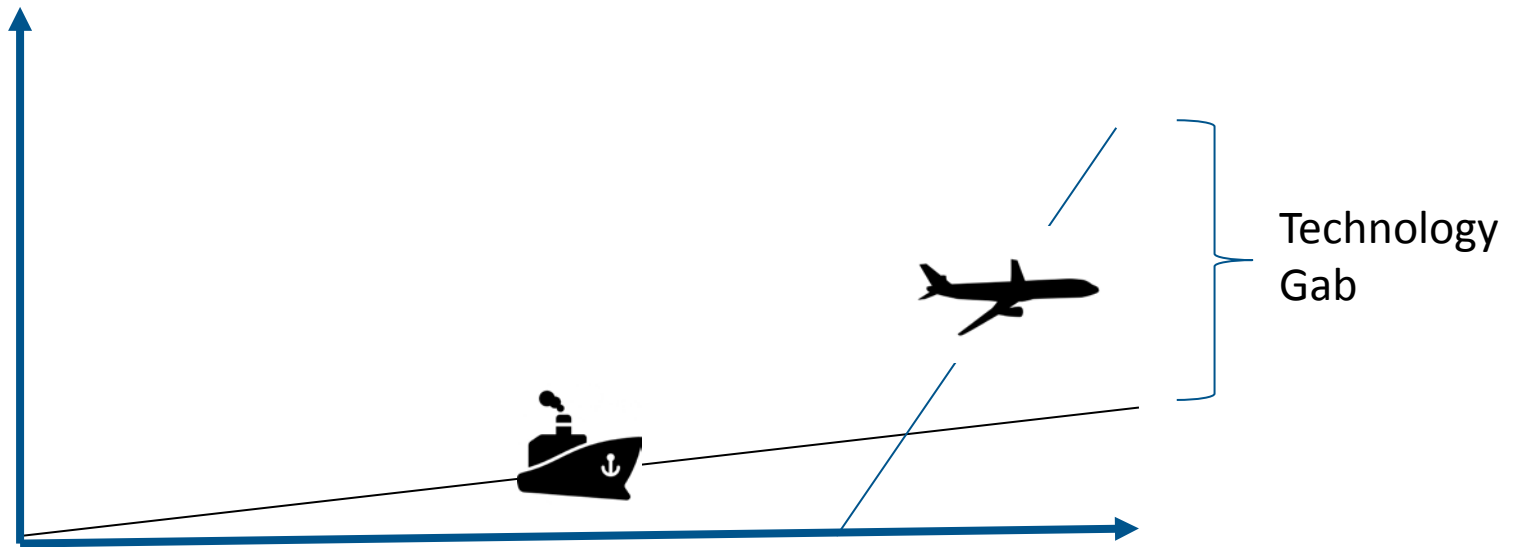
# Those in greatest need





# Mind the Gab

The Maritime domain into the digital age





# Shore services and connectivity

Communications, harmonised data models, positioning







# Vessel Traffic Service (VTS)

Operational safety and efficiency benefits from e-Navigation development

IALA Recommendation V-120 of June 2001 (2013) on VTS in Inland Waters and

UNECE, ITC Resolution No. 58 OCT 2004 Guidelines and Criteria for VTS on Inland Waterways





# IWT and autonomous ships

Legal and operational challenges and opportunities for shore authorities





QUESTIONS?

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