ENAV20-11.11.1

**Draft Deliverable D.1.10**

**Strategy for Future Digital Communications**

# DOCUMENT STATUS

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## Document History

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## Review

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# Introduction

In WP1 of EfficienSea 2, IALA leads Task 1.3: Coordinating standardization of solutions. IALA manages the work In Task 1.3, preparing reports and deliverables in conjunction with the other members of the Task Group (CIRM, UKHO).

# Document

Deliverable D.1.10 – Digital Communications Strategy – is attached.

Digital Communications in the Maritime Environment 2017-2030

The e-Navigation concept will increase the efficiency, safety and security of voyage planning and information in the maritime sector. e-Navigation is dependent on applications which provide mariners with the data they need in a more secure and efficient manner. These applications require communication technologies that can provide the necessary capacity for bidirectional ship-ship and ship-shore, including ship-satellite communication.

The vision for digital communications in the maritime environment is:

*Secure, effective, seamless communications to support maritime applications.*

To achieve the vision, four core strategic challenges have been identified:

1. Assessing operational requirements
2. Ensuring existing and developing digital maritime communications technologies interact effectively and seamlessly
3. Evaluating the suitability of different technologies to address the requirements
4. Providing communication options and implementing infrastructure to support digital maritime communications.

A number of response actions will be undertaken to address these core strategic challenges.

**1 Requirements**

* 1. Defining obligations for service provision (mandatory requirements)
  2. Identifying preferred / additional services
  3. Identifying geographic service area

**2 Technologies**

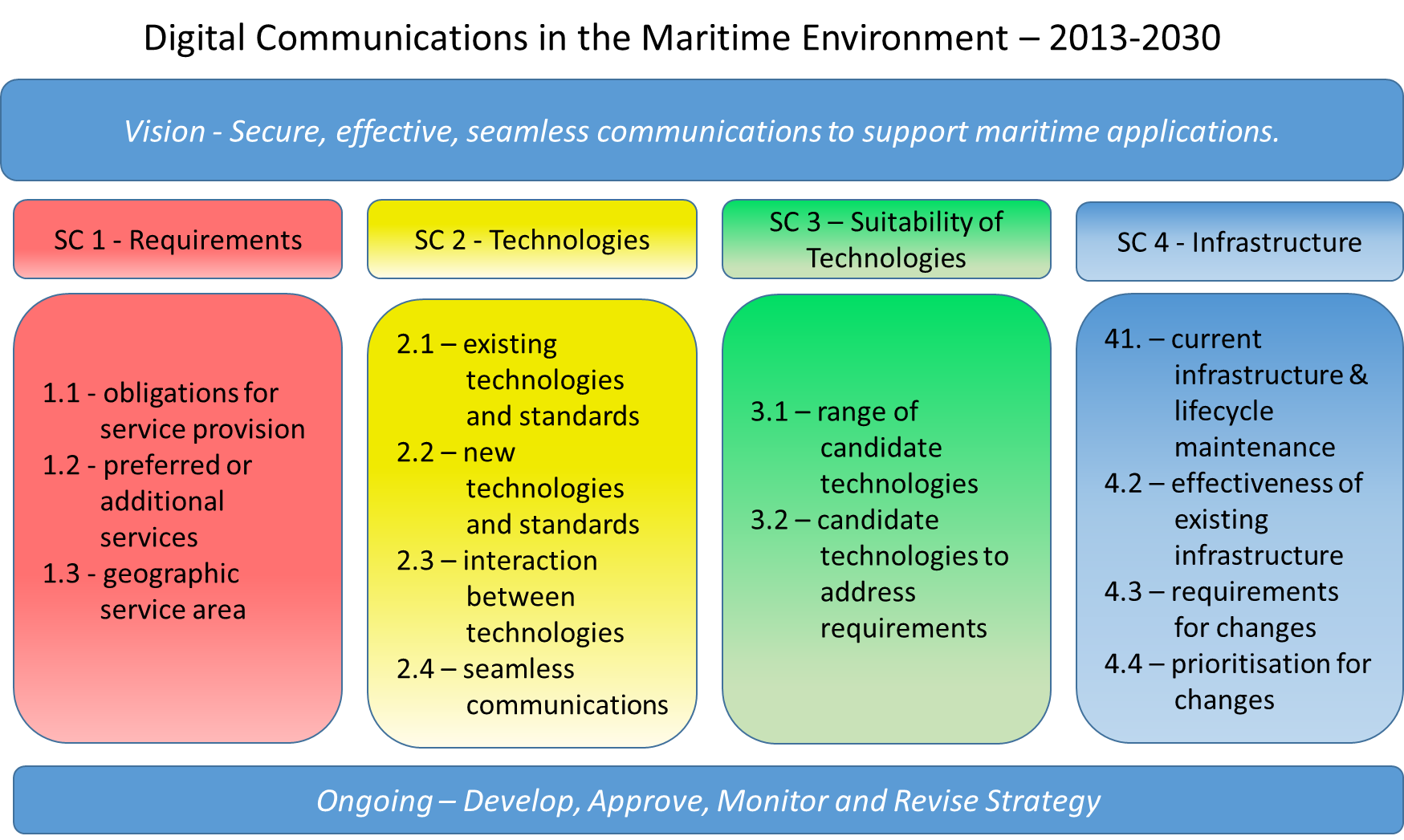
* 1. Identifying existing technologies and standards
  2. Identifying developing technologies and standards
  3. Identifying level of interaction between technologies
  4. Confirming process to enable seamless communications

**3 Suitability of Technology**

* 1. Confirming range of candidate technologies
  2. Matching candidate technologies to requirements

**4 Infrastructure**

* 1. Inventory of current / existing infrastructure and life-cycle maintenance cycles
  2. Effectiveness of current / existing infrastructure
  3. Identification of requirements for infrastructure to support new / developing technologies
  4. Prioritising update / implementation of infrastructure.



Implementation - Digital Communications in the Maritime Environment – 2017-2030

2017

2018-2019

2020-2021

2022-2023

2024-2025

2026-2027

2028-2029

2030+

Ongoing - Develop, Approve, Monitor, and Revise Strategy

SC 1 - Requirements

SC 2 - Technologies

SC 3 – Suitability

of Technologies

SC 4 - Infrastructure

SC 3a – Suitability

of Technologies