

Deliverable D1.10

Strategy for Future Digital Communications

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Organisation in
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Document Status

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1.2 Document History

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1.3 Reviewers

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1 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).

2 Document

This document, EfficienSea2 Deliverable D.1.10 – Digital Communications in the Maritime Environment 2017 – 2030 presents a strategy for maritime communications.

3 Background

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.

4 Strategy

The vision for digital communications in the maritime environment is:

Secure, effective, seamless communications within navigable waters 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 securely, effectively and seamlessly.
3. Evaluating the suitability of different technologies to address operational 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.

4.1 Requirements

- 1.1 Defining obligations for service provision (mandatory requirements).
- 1.2 Identifying preferred / additional services.
- 1.3 Identifying geographic service area.

4.2 Technologies

- 2.1 Identifying existing technologies and standards.
- 2.2 Identifying developing technologies and standards.
- 2.3 Identifying level of interaction between technologies.
- 2.4 Confirming process to enable seamless communications.

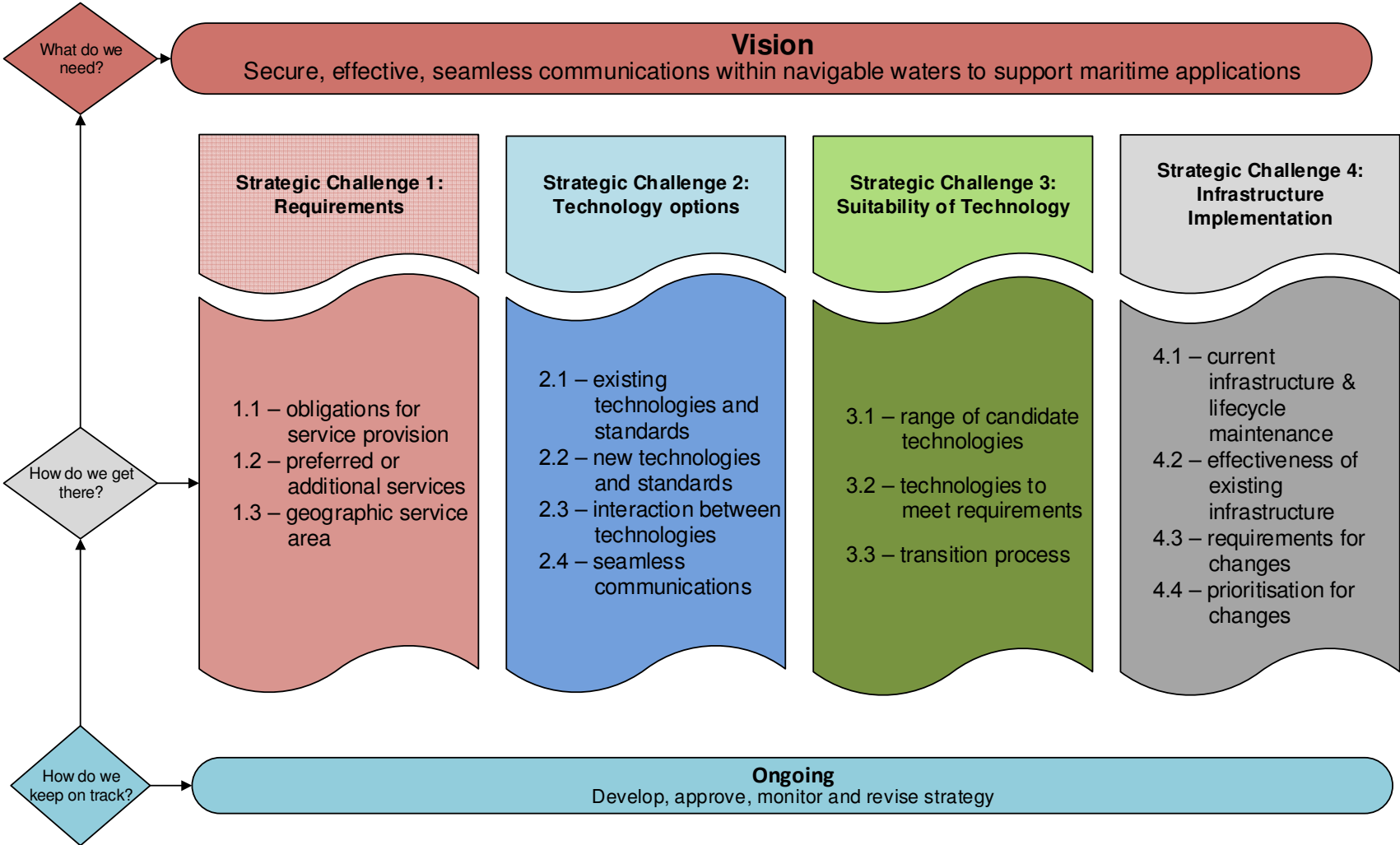
4.3 Suitability of Technology

- 3.1 Confirming range of candidate technologies.
- 3.2 Matching candidate technologies to requirements.
- 3.3 Determining process to transition to candidate technologies.

4.4 Infrastructure

- 4.1 Inventory of current / existing infrastructure and life-cycle maintenance cycles.
- 4.2 Effectiveness of current / existing infrastructure.
- 4.3 Identification of requirements for infrastructure to support new / developing technologies.
- 4.4 Prioritising update / implementation of infrastructure.

Digital Communications in the Maritime Environment – 2017-2030



Implementation - Digital Communications in the Maritime Environment 2017-2030

