 Input paper: ARM3-4.3.7

Input paper for the following Committee(s): check as appropriate Purpose of paper:

**X** ARM **□** ENG **□** PAP **X** Input

**X** ENAV **X** VTS **X** Information

Agenda item [[1]](#footnote-1) ENAV-17 agenda items 3, 4, 9, 10, 11, 12 and 13

VTS-40 agenda items 4, 8, 9 and 10

ARM- agenda items

Technical Domain / Task Number ENAV - TD #1, TD#2, TD#3, TD#4, TD#5

VTS - TD #1, TD#2, TD#3

ARM - TD #1, TD #3

Author(s) / Submitter(s) ACCSEAS Project North Sea Area  
 on behalf of the participating organisations, Pieter Paap (NL)

Legacy Report of the ACCSEAS Project

# Summary

The EU Interreg IV/B project ACCSEAS ended successfully with the 3rd Annual ACCSEAS Conference in February 2015 in Rotterdam (NL).

The project focussed over a period of 3 years (2012-2015) on regional accessibility and safety of navigation issues, studied the developments on short and long term as a result of the foreseen decrease of manoeuvrable space (increasing intensity and diversity of shipping, scale enlargement and alternative utilization of the sea - e.g. windfarms), its effects on shipping routes and eventual consequences for competent authorities responsible for the management of shipping from shore, as well as the development of potential candidate services and applications under the flag of the e-navigation concept (taking into account relevant IMO developments and decisions, IALA’s Strategy, Recommendations and Guidelines).

The ACCSEAS project partnership consisted of eleven organizations in Denmark, Germany, Netherlands, Norway, Sweden and the UK:

* General Lighthouse Authorities, United Kingdom
* Chalmers University of Technology, Sweden
* Danish Maritime Authority, Denmark
* Federal Waterways & Shipping Administration, Germany
* Rijkswaterstaat, Ministry Infrastructure & the Environment, Netherlands
* Swedish Maritime Administration, Sweden
* Norwegian Coastal Administration, Norway
* SSPA Sweden
* Flensburg University of Applied Science, Germany
* NHL Hogeschool, Leeuwarden, Maritime Institute Willem Barentsz, Netherlands
* World Maritime University, Sweden

ACCSEAS, in its capacity as a regional testbed, developed and/or tested and demonstrated candidate e-navigation solutions and services, such as

* Maritime Cloud
* Maritime Safety Information / Notice to Mariners Service
* Multi-Source Positioning Service
* No-Go Area Service
* Tactical Exchange of Intended Routes
* Tactical Route Suggestion
* Vessel Operations Co-ordination Tool
* Inter-VTS Exchange Format

ACCSEAS delivered a number of Reports concerning

* baselines and priorities on the foreseen developments in the North Sea Region
* a potential e-navigation architecture for the North Sea Region
* the potential use of a Route Topology Model
* Training Needs Analysis
* the use of Simulators in e-Navigation Training and Demonstrations
* R-Mode Feasibility Studies as a back-up for GNSS.

The results, conclusions, proposals and recommendations of the ACCSEAS project are summarized in a comprehensive *Legacy Report including a Sustainable Plan for future work* (list of 87 items). In general terms the ACCSEAS Legacy can be defined in Organizational, Substantial and Material.

## Purpose of the document

* To disseminate the outcome of the ACCSEAS project to the international organizations involved in the development and implementation of the e-navigation concept;
* To inform the IALA Committees and its members concerning work and the Legacy of the ACCSEAS project;
* IALA members to benefit from the results, conclusion and recommendations of ACCSEAS as an example of a regional approach towards the further development and implementation of   
  e-navigation as a concept and potential candidate solutions, services and applications;
* To draw the attention of the IALA Committees to specific identified and highlighted Future Work items (FW-..) reflected in Annex C of the Legacy Report (Plan for Sustainable Work) directly or indirectly liaised to the approved IALA’s Strategy, Goals (2014-2026), relevant Technical Domains and current tasks of the Committee Work Programmes (2014-2018);
* To contribute substantially to the work of IALA in general and to the fulfilment of the IALA Committee Working Programs specifically.

## Related documents

# ACCSEAS Legacy Report, including a sustainable plan for future Work, final version 1.8, issued 13th may 2015;

# All related ACCSEAS reports and documents (published on [www.accseas.eu](http://www.accseas.eu)).

# References

1. IALA Strategy 2014-2026
2. ENAV Committee Working Programme 2014-2018
3. VTS Committee Working Programme 2014-2018
4. IALA Strategy Paper on the future delivery of VTS in a rapidly changing domain (approved C60)
5. ARM Committee Working Programme 2014-2018
6. IMO Strategic Implementation Plan (SIP) for e-navigation
7. IMO MSC/95/22 and Annexes 17 and 22

# Action requested of the Committees

The **ENAV Committee** is requested to:

1. note and study the ACCSEAS Legacy Report and other ACCSEAS Reports as they relate to the work of the Committee;
2. consider insertion, where appropriate, the relevant identified future work items (reflected and highlighted in ANNEX C to the ACCSEAS Legacy Report)[[2]](#footnote-2) - as they relate to the work of IALA - into the Work Programme Task Register 2014-2018 with an assignment to the proper Committee Working Groups, specifically the numbers FW-1, FW-5, FW-14 (mapping), FW-15, FW-35, FW-38, FW-39, FW-40, FW-44, FW-46, FW-48, FW-49, FW-50, FW-54, FW-55, FW-59, FW-60, FW-61, FW-67, FW-68, FW-70, FW-71, FW-72, and FW-74.
3. prioritize these future works in accordance with the outcome and decisions of IMO MSC95 (unplanned output actions for the HLAP biennium 2016-2017 and 2018-2019), the IALA Strategy 2014-2026 and the IALA Roadmap for e-navigation (under development of the Committee).

The **VTS Committee** is requested to:

1. note and study the ACCSEAS Legacy Report and other ACCSEAS Reports as they relate to the work of the Committee;
2. consider insertion, where appropriate, the relevant identified future work items (reflected and highlighted in ANNEX C to the ACCSEAS Legacy Report)3 as they relate to the work of IALA into the Work Programme 2014-2018 with an assignment to the proper Committee Working Groups, specifically the numbers FW-1, FW-10, FW-31, FW-37, FW-59, FW-61, FW-78,   
   FW-81 and FW-82
3. prioritize these future works in accordance with the outcome and decisions of IMO MSC95 (unplanned output actions for the HLAP biennium 2016-2017 and 2018-2019), the IALA Strategy 2014-2026 and the IALA Strategy Paper on the future delivery on VTS in a rapidly changing maritime domain (as approved by IALA Council 60).

The **ARM Committee** is requested to:

1. note and study the ACCSEAS Legacy Report and other ACCSEAS Reports as they relate to the work of the Committee;
2. consider insertion, where appropriate, the relevant identified future work items (reflected and highlighted in ANNEX C to the ACCSEAS Legacy Report)3 as they relate to the work of IALA into the Work Programme 2014-2018 with an assignment to the proper Committee Working Groups, specifically the numbers FW-1, FW-10, FW-13, FW-37, FW-55, FW-59, FW-60,
3. prioritize these future works in accordance with the outcome and decisions of IMO MSC95 (unplanned output e-navigation actions for the HLAP biennium 2016-2017 and 2018-2019) and the IALA Strategy 2014-2026.

1. Leave open if uncertain [↑](#footnote-ref-1)
2. Although the Future Work items reflected in the ANNEX C of the Legacy Report in many cases references to the North Sea Region (area of attention for ACCSEAS) in general most of the Future Work items may also be applicable for other sea areas world-wide. This is in accordance with the IALA Strategy (and Goals) 2014-2026 and justifies the request for insertion of these items into the Working Programs of the Committees mentioned. [↑](#footnote-ref-2)