IALA WEBPAGE ON TESTBEDS

Seamus Doyle
A testbed is a platform for trialling development projects.

Testbeds generally involve rigorous, transparent and replicable testing of scientific theories, innovative solutions, computational tools and new technologies.

IALA Guideline 1107
Testbed function

- e-Navigation testbeds allow for early identification and assessment of new system functionality, operational usability, areas of enhancements, identification of weaknesses and socio-technical impact.

- Testbeds should not be limited or restricted by current architecture, data structures or procedures.

- There are testbeds that, while being not directly identified as e-navigation testbeds, are nevertheless relevant to e-navigation.

IALA Guideline 1107
Sharing of information

As e-navigation evolves from concept to operational reality, the importance of testbeds continues to grow.

Testbed managers are encouraged to share results (including interim and final reports) of testbeds with the maritime community through IALA.

IALA Guideline 1107
Sharing of information

- IALA will post testbed findings, including an executive summary and description as provided by the testbed manager at http://www.iala-aism.org/products-projects/e-navigation/testbedsprojects/.

- This information can be used to inform on ongoing and prospective testbeds.

- Sharing benefits everyone.
WELCOME TO THE E-NAVIGATION PORTAL

This IALA web portal is intended to host information regarding e-navigation, in particular information on test beds, portrayal examples, demonstration software and IALA conferences on the topic.
Sharing of information on the IALA website,

Here you can find more specific testbeds and info about these. Request for changes and input of new material: please contact contact@iala-aism.org.
IALA TESTBEDS GUIDELINE

Download
IALA Guideline No. 1107 on The Reporting of Results of e-Navigation Testbeds 2013

TEMPLATE FOR POSTING INFORMATION

Make sure the following minimum information is present:

1. Submitting Organization
2. Point-of-Contact
   - name
   - e-mail address
3. Brief Description (PP Pres or 1-2 page info paper)
   - Display type (such as RADAR, ECDIS, ECS or Head-up display)
4. Functional Capabilities (types of data à information content)
5. Intended Purpose (including benefits)
6. Portrayal examples (means or methods of portrayal)
   - good examples
   - lessons-learned
   - some concerns
7. Last edited (date)

Send information by e-mail to contact@iala-aism.org.
Name of testbed: ACCSEAS – Accessibility for Shipping, Efficiency Advantages and Sustainability
Location of testbed: North Sea Region, Europe
Time period: April 2012 – February 2015
Status: Completed
Contact person(s): Alwyn Williams Alwyn.Williams@glag-rrnav.org (Project coordinator)
Web site: http://www.accseas.eu
Organisation(s):
- General Lighthouse Authorities of UK and Ireland;
- Chalmers University of Technology, Sweden;
- Danish Maritime Authority;
- Federal Waterways and Shipping Administration, Germany;
- Rijkswaterstaat, Ministerie Infrastructuur en Milieu, The Netherlands;
- Swedish Maritime Administration;
- Norwegian Coastal Administration;
- SSPA Sweden AB;
- Flensburg University of Applied Sciences, Germany;
- NHL Hogeschool Leeuwarden, Maritiem Instituut Willem Barentsz, The Netherlands
- World Maritime University.
Research Program: EU INTERREG IVb North Sea Region Programme
CONCLUSIONS AND RECOMMENDATIONS

CONCLUSIONS

The ACCSEAS project started by looking at the challenges to maritime accessibility in the North Sea Region. In particular, the impact of increasing traffic density and larger ships in reduced sea-space was considered and explored. As a result of this work, the solutions detailed earlier in this report were proposed in the ACCSEAS Baseline and Priorities Report, first published end of 2013. Now in its third edition, it covers the IMO’s work on the Sustainable Maritime Transport System and the Strategic Implementation Plan (SIP) for the e-Navigation concept that underpins all the solutions in ACCSEAS.

As shown in the previous chapters, each solution has been able to demonstrate its ability to improve spatial awareness or information integrity for both the mariner and shore-based authorities.

Improved Spatial Awareness

Improving the spatial awareness of the mariner and shore-based authorities will allow those users to get a better understanding of the current situation around them. The Baseline and Priorities Report highlighted the potential issue of increased traffic in tighter shipping lanes created by windfarms, particularly in the southern North Sea. There will be an increased reliance on ship systems to navigating through these areas to ensure that the risk of collision and grounding remain low.

Through demonstrating e-Navigation services such as the Tactical Route Exchange, No-go Areas and the Augmented Reality Head-up Display, ACCSEAS has shown that solutions can be developed that will allow users either to receive information they cannot yet get or is more difficult to obtain. This information will enable the mariner, and shore-based authorities, to understand their immediate and near future environment in a more clear and intuitive way. The demonstrations have shown that users are enthusiastic about the improved view of the environment that the ACCSEAS solutions provide.

By improving the spatial awareness, the users of the Region will gain a better understanding of how to traverse the Region with more confidence, efficiency and safety. This can only serve to gradually increase accessibility in the North Sea Region.

Improved Information Integrity
PUBLICATIONS

REPORTS

- ACCSEAS Baseline and Priorities Report v3
- ACCSEAS e-Navigation Architecture Report
- ACCSEAS Final Report
- ACCSEAS Legacy Report
- ACCSEAS Route Topology Model
- ACCSEAS Training Needs Analysis Report
- Use of Simulators in e-Navigation Training and Demonstrations Report
- Service Description: Maritime Cloud
- Service Description: Maritime Safety Information/Notice to Mariners Service
- Service Description: Multi-Source Positioning Service
- Service Description: No-Go Area Service
- Service Description: Tactical Exchange of Intended Routes
- Service Description: Tactical Route Suggestion
- Service Description: Vessel Operations Co-ordination Tool
- Service Description: Inter-VTS Exchange Format
- S-100 Product Description on Maritime Safety Information/Notice to Mariners Service
- R-Mode Feasibility Study: MF-DGPS Transmissions
- R-Mode Feasibility Study: AIS Transmissions (Part 1)
- R-Mode Feasibility Study: AIS Transmissions (Part 2)
- R-Mode Feasibility Study: Combined DGNSS, AIS and eLoran
- ACCSEAS First Conference Report
- ACCSEAS Second Conference Report
- ACCSEAS Final Conference Report

COMMUNICATION MATERIAL (VIDEOS ON YOUTUBE)

- ACCSEAS Official Film
- ACCSEAS GPS Jaming Trial: https://youtube.com/CNAeG-QQ-9E
Information made easy

Search for car keys

Results: 1 match – look behind the sofa
CATEGORIES

This is the publications intro.

RECOMMENDATIONS

These documents represent the highest level of IALA documentation (they would relate to a ‘standard’ in
IALA Guideline 1107

CONTENTS

1. INTRODUCTION .................................................................
2. SCOPE OF THE GUIDELINE .............................................
3. TESTBEDS .................................................................
4. PLANNING OF TESTBEDS ..............................................
   4.1. Consideration when planning an e-navigation testbed...
   4.2. Designing a testbed ..............................................
   4.3. Planning of tests ................................................
   4.4. Analysis of results of test cases ..................
5. HARMONISATION OF REPORTING OF TESTBED RESULTS ...
6. ACRONYMS .................................................................

ANNEX A EXAMPLES OF FACTORS TO BE TAKEN INTO ACCOUNT WHEN PLANNING TESTS AND TEST CASES ....................
ANNEX B REPORTING TEMPLATE ........................................

List of Tables

Table 1 Example test description ........................................
Table 2 Example sub-set test description ..............................
Email to Audrey at: Contact @iala-aism.org

31 January 2017
Harmonisation and Sharing go together