



M'AIDER PROJECT

Maritime Aids Development for Emergency responses

Partner Meetings

INSIDE:

Identification of Training Needs

Scenarios for full mission simulators and e-learning platform

The M'AIDER project has successfully ended. This newsletter reports the progress made after the first newsletter published in March 2010. The project partners worked hard after the kick off meeting and completed all their tasks successfully. The project addressed the aspects of human error related to emergency situations by preparing 10 scenarios for the full mission simulator and 9 scenarios chosen were developed for training purposes in the e-learning platform. The scenarios included collisions, near-misses and groundings. The M'AIDER project is considered systematic and novel for the training of young cadets and seafarers.

There have been 5 partners meetings hosted by several of the M'aider partners. Partner tasks were set in these partner meetings. It was a key element of the project to research the accident database of partner countries. In parallel, a questionnaire was developed to validated this database findings and to find the most frequently occurring accidents related to emergencies at sea.

Those two tasks were finalised and presented in reports. Based on these reports,

the scenarios related to emergency situations were chosen accordingly. Methods and methodologies were decided in parallel taking into consideration how the course materials will be developed, considering the limitations in both the full mission simulators and the e-learning platform. The developed scenarios were tested in both full mission simulators and the e-learning platform by end-users and the required changes were made to ensure the course meets the project's objectives. Several dissemination activities have taken place to promote the M'aider project. This has Involved promoting the project at a variety of conferences and events as well as publishing articles, papers, leaflets and newsletters.



Education and Culture DG

Lifelong Learning Programme

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CONTRACTOR: Maritime Institute Willem Barentsz **CO-ORDINATOR:** Centre For Factories of the Future

PARTNERS: TUDEV Institute of Maritime Studies; Lithuanian Maritime Academy; Strathclyde University; IDEC S.A.; Spinaker d.o.o



PARTNER MEETINGS

The 2nd Partner meeting was hosted by Strathclyde University in Scotland in June 2010. The partner meeting was held in parallel with the HPAS 2010 "Human Performance At Sea" conference. The project was presented at the conference and was well received by the delegates.



Figure 1: Hosting university of HPAS 2010 conference

The 3rd Partner meeting was hosted by MIWB (Maritime Institute of Willem Barentsz) in Terschelling, Netherlands. The project tasks were reviewed by partners with further tasks assigned to the partners. During the meeting, the main discussions were centred around the design and development of the scenarios for both the full mission simulators and the e-learning platform.



Figure 2: M'aider team attended the 3rd partner meeting in Netherlands

The 4th Partner meeting was held in Klaipeda, Lithuania and was hosted by the Lithuanian Maritime Academy (LMA). Project activities to date were discussed and reviewed, with the next steps in the project discussed. The main focus of activity of the meeting was to review both the full mission simulator and e-learning platform accident scenarios.



Figure 3: Member of M'aider team attended to 4th partner meeting

The 5th Partner meeting was held in Netherlands in parallel with the final conference at MIWB. All partners made a presentations regarding their contributions to the project. The conference audience directed several questions to the project partners. The final scenarios for both the full mission simulator and the e-learning platform were presented to the audience, with positive feedback received. The M'aider partners are very keen for the course to continue to be disseminated around the world to Maritime Education and Training (MET) institutions.

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Identification of Training Needs

A through research was carried to identify the most frequent shipping accidents using the Maritime Accident Investigation Database (MAIB), Bahamas Maritime Authority and Hong Kong Maritime Accident Investigation Board, focusing on the human factors that caused the accidents. In parallel, a comprehensive questionnaire was developed to identify the most frequent shipping accidents. The main aim of the questionnaire was to identify the gaps in seafarer's maritime education and training, related to emergency scenarios and their knowledge of the required safety regulations and rules at sea. The main subject area included identifying the seafarers' knowledge and understanding of the International Regulations for Avoiding Collisions at Sea (COLREGS), Bridge Simulation Training (BST) and Bridge Recourse Management (BRM).

A copy of both reports are available upon request from project contractor, Prof. Capt. Stephan Cross: cross@mi.nhl.nl or Dr. Martin Ziarati: martin.ziarati@c4ff.co.uk.

As a result of the research and questionnaire, the following scenarios were chosen and scenarios developed for both the full mission simulator and e-learning platform:

Collision scenarios:

- 1 – Scot Isles – Wadi Halfa
- 2 – Arctic Ocean – Maritime Lady
- 3 – Sunny Blossom with wreck of Maritime Lady
- 4 – Norwegian Dream – Ever Decent
- 5 – CSCL Hamburg – Lian Hua Feng (only available on bridge simulators)
- 6 – Lykes Voyager – Washington Senator
- 7 – Hyundai Dominion – Sky Hope

Near-miss scenarios:

- 8 – Maersk Dover – Apollonia / Maersk Vancouver
- 9 – Costa Atlantica – Grand Neptune

Grounding scenario:

- 10 – Maersk Kendal

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Scenarios for Full Mission Simulators and E-learning Platform

The selected scenarios were developed for training in the full mission simulator. Each scenario was piloted in the full mission simulators with the relevant trainees. The total simulation time for each scenario was run at least 40 times to validate the exercise. The minimum requirements for the students to undertake the M'aider course is given below:

- Undertaken two years of maritime education and training
- Awareness and Knowledge of radar applications
- Knowledge of the COLREGS rules and regulations.

It is not necessary for the students to have undertaken sea service.

For the full mission training programme, the training process is carried in four stages. The first stage involves preparing the students with briefings, the second stage is the simulation activity, the third stage is the debriefing (and informal evaluation), whilst the fourth stage is the formal assessment process. The results are presented to students inline with the assessment criteria set for the course.

Similarly, the scenarios are simulated in the e-learning platform. The platform includes a set of animated videos with an assessment element included in the web based platform. dent will be able to learn from accidents at anytime in anywhere and will undertake the relevant assessment to measure their own performance.



Figure 4: A picture from Full Mission Simulator training

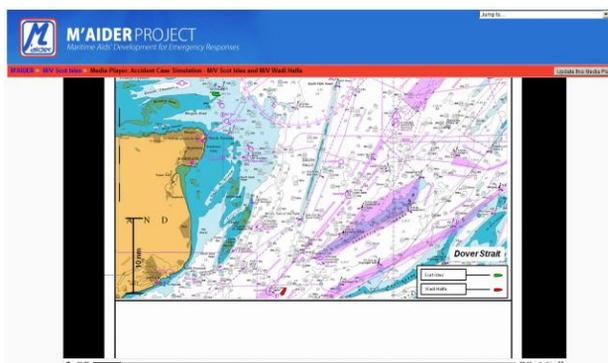


Figure 5: A picture from M'aider e-learning platform



Figure 6: A picture from M'aider e-assessment platform

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