



MariFuture News April/May 2014

April was a demanding months as it coincided with the deadline for Erasmus + project proposal deadline. For this reason the News for April was delayed and combined with the news for May.

In line with MariFuture 2020 roadmap, see - <http://www.marifuture.org/Plans.aspx> and most recent MariFuture articles, see – <http://www.marifuture.org/Publications/Articles.aspx> several proposals were prepared by MariFuture project partners. A summary of these are as follows:

MariFuture Education and Training Proposals

1. Project Come2Sea - KA2: Cooperation and Innovation for Good Practices: Strategic Partnerships for VET)

This project is for 24 months and details can be found in the April Development paper.

Short Detail

Many studies conclude that young people not choosing the sea careers or leaving the career for land based jobs. Solution to the stated problem requires a concerted radical approach by all the corners of the maritime industry. Shipping industry needs to be an Industry of Choice (IOC) for the younger generation and shipping related companies recognised as Employers of Choice (EOC) in order to attract and keep young generation in the worldwide shipping family (Cahoon and Haugstetter, 2008). The same study also clearly stated that young group like instant social networking through online web platforms, job flexibility, fast-tracking of their careers and mentoring approach in their working environment instead of the old “authoritarian school” of thinking that prevails in the shipping industry. This project is to attract young people into seafaring profession.

Partners

1. Centre for Factories of the Future (C4FF) – UK
2. Plymouth University (PU) - UK
3. TUDEV - Turkey
4. University of Turku (UoT) - Finland
5. Maritime University of Szczecin (MUS) - Poland
6. IDEC – Greece
7. SeaTeach – Spain

2. Project SEARCh for PROsperous Maritime Opportunities (SEAPROMO) - KA2: Cooperation and Innovation for Good Practices: Strategic Partnerships for VET)

This project is for 24 months and details can be found in the April Development paper.



Short detail

The SEAPROMO project addresses the need for cooperation between VET and the world of work in the maritime sector by fostering integration of maritime working life into maritime institution-based VET and enhancing the entrepreneurial skills of the people dealing with the maritime issues. This will be achieved by the promotion of more work related activities in the intended VET programmes, including the innovative models of work placement (work experience, work shadowing, work-based learning and apprenticeships). The project team will identify and map available maritime jobs /placements and business start-up both at sea and ashore in partner countries, in order for employers and employees/trainees to take advantage of the opportunities efficiently and effectively. The main benefits of the project are to improve the attractiveness of the maritime industry, to provide increased mobility across, to foster the career guidance, to enhance the placement opportunities and to develop the entrepreneurial competences of the people at maritime and VET sectors.

Partners

1. T.C. TUZLA KAYMAKAMLIGI (Turkey)
2. TMMOB Gemi Mühendisleri Odası (Turkey)
3. TUDEV (Turkey)
4. Centre for Factories of the Future (UK)
5. Satakunta University of Applied Sciences (Finland)
6. IMSSEA (Italy)

3. Project: PICK-UP (Professional, Industrial, Competence and Knowledge UP-dating)

This project is for 24 months and details can be found in the April Development paper.

Short detail

The purpose of PICK-UP is to enhance co-operation between EU Maritime Education & Training Institutions (METs) in delivering the 2010 STCW training requirements to the 624,000 officers in the Maritime Community. This will be achieved through development of a shared online course registry, an e-learning platform and materials, and the creation of assessment centres across Europe.

One of the outputs of PICK-UP will be an Indexing exercise regarding the courses offered by the partner METs relating to the STCW 2010 amended training requirements. This indexing exercise will include areas such as: learning outcomes, teaching methods (face-to-face, e-learning, distance learning), assessment methods etc. The purpose of this Indexing is to create a course registry to be included on the PICK-UP platform. This will allow seafarers the chance to compare and contrast in detail the options for taking their STCW recertification courses online and give them a real choice about how, when and where to take their training courses. The second purpose of the Indexing is to promote the sharing of good practices between the MET partners for delivery and assessment methods for these courses.



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PICK_UP will include face-to-face assessment, as many countries and companies do not currently accept e-assessment certificates, hence the creation of the PICK-UP 'Assessment Centres' in UK, Belgium, Portugal, Bulgaria, Malta, Slovenia and Turkey to validate the e-learning PICK-UP courses.

Partners

1. Centre for Factories of the Future (UK)
2. Escola Superior Náutica Infante D. Henrique (Portugal)
3. Nicola Vaptsarov Naval Academy (Bulgaria)
4. TUDEV (Turkey)
5. Antwerp Maritime Academy (Belgium)
6. Mediterranean Maritime Research and Training Centre Coop (Malta)
7. Spinaker (Slovenia)

EXTREME FACTORIES PLUS - KA2 Knowledge Alliances

This project is for 24 months. Details can be found in the MariFuture April 2014 Development Paper.

Short Detail

ExtremeFactories+ aims at having a positive impact on both confidence and skills of European youth by enabling a platform where: i) higher education students can be mentored and trained in skills required to develop an effective entrepreneurial attitude. Some of the contents that will be provided are: Creativity Techniques, Design Thinking, Creative problem solving, New business models, etc. These contents will be implemented using novel techniques (such as gamification) and in novel formats (such as videos or interactive presentations); ii) real enterprises (big or small) and students meet together, so the companies can provide students with first-hand knowledge about the real needs of the market, reducing the high risk of technology push business ideas. Companies can also use the platform to launch innovation challenges to the students and to establish incentives for those who solve them and iii) educators and mentors in entrepreneurial skills can use as a support of their daily teaching activity, from which they can stimulate students to collaborate in real business contexts and follow-up all the process, from the ideation of a start-up/business idea to its implementation or launch to the market.

Partners

1. INNOPOLE / Spain
2. C4FF / UK
3. ATB /Germany
4. Vaibmu /Finland
5. TUDEV/ Turkey
6. University Coventry / UK



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7. Kaptanoglu Shipping/Turkey
8. Off-Grid/UK
9. GOTTRAINING/Spain

iSHIP - KA2 Knowledge Alliances

This project is for 24 months. Details can be found in the MariFuture April 2014 Development Paper.

Short Detail

iSHIP project will deliver new & multidisciplinary Maritime Entrepreneurship Transport, Trade & Shipping Course responding directly to the needs of companies, while stimulating entrepreneurial mind-sets & facilitating the co-creation of knowledge between all involved actors. Since, the content & quality of maritime transport, trade & shipping education & training are varied throughout Europe efforts are necessary in order to initiate a more uniform & Curricula across Member-States that reflect the real needs of the market. In order to achieve this goal, iSHIP will tackle three approaches: i) facilitate mutual exchange of academic & business knowledge; ii) open access to the business world to prepare graduate-students from HEI for the world of work in the Maritime Industry andn iii) support the sustainability of the project through the implementation of 15 internship schemes for graduate students, in sector companies for a period of 2 months.

Partners

1. INNOVA - Portugal
2. Piri Reis University - Turkey
3. University of Turku - Finland
4. KTK - Finland
5. C4FF – United Kingdom
6. INNOVAMAR - Spain
7. HSW - Germany
8. SM2 - Italy
9. Kaptanoglu Shipping - Turkey

MariFuture R&D Proposals

IdealPort - Horizon 2020

This is a multi-million project lasting 36 months. Details can be found in the MariFuture April 2014 Development Paper.

Short Detail

IdealPort is an e-maritime solution which integrates the ship-port operations by putting more emphasis on port/waterway community system and linking the port/waterway operations to



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navigation and propulsion systems with a view to improve safety of shipping and, reducing fuel consumption and GHGs.

The project includes the demonstration of new operational solutions for the evacuation of large passenger ships, new and improved systems for the surveillance, monitoring and integrated management of port operations. The project makes cost effective use of the EGNSS, pilotage and guidance and will demonstrate how risk of accidents and incidents in port can be reduced. The system will minimise both delays and turn-around times. The solution also provides the foundation for the deployment of autonomous and actively guided ships. It verifies IMO's EEDI and all the related certificates before the vessel enters or leaves the port. Inputs to EU and international bodies are expected. The project will significantly reduce the number of fatalities and accidents and incidents in ports and waterway.

Partners:

1. VTEK Bilişim ve İletişim Teknolojileri - Turkey
2. Centre for Factories of the Future - UK
3. Satakunta University - Finland
4. TUDEV - Turkey
5. Port of Rauma - Finland
6. Malta Maritime Pilots - Malta
7. Malta Freeport - Malta
8. Transas Mediterranean SAS - France
9. Harwich Haven Port - UK
10. Regs4ships Ltd - UK
11. MakroShipping - Turkey
12. Assan Port – Iskenderun - Turkey

LeanShip - Horizon 2020

This is a multi-million project lasting 36 months. Details can be found in the MariFuture April 2014 Development Paper.

Short Detail

The project, by monitoring the power output of Engine main shaft as well as wind strength and direction together with strength and direction of the sea currents, offers a feasible solution for optimisation the overall engine fuel consumption and engine exhaust emissions. The core of the proposed solution is low maintenance and affordable off-the-shelf retrofit solutions as all equipment for such installation have already been found and tested. LeanShip offers a demonstration facility to show new and improved propulsion means and vessel configurations that include the entire drive train and the propeller optimisation for all types of vessels. In summary the LeanShip solution includes a novel torque and speed measurement, a series of lasers and transducers to measure sea and air conditions as well as an engine management and performance system. The project also involves new technologies such new Variable Geometry Turbochargers allowing also supersonic flows and use of water coolers as a means making the engines more and less adiabatic. LeanShip is a non-intrusive system and



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is free from vendor solutions. The LeanShip is ready for optimisation, testing and for exploitation

Partners

1. Centre for Factories of Future (Maritime Division) – United Kingdom
2. IMSSEA-FAIMM - Italy
3. TUDEV - Turkey
4. Southampton Solent University – United Kingdom
5. Satakunnan ammattikorkeakoulu - Finland
6. FT Genoa Tankers - Italy
7. Costa Crociere - Italy
8. Kaptanoglu Shipping - Turkey
9. Easy Marine - Italy
10. Transas Marine International AB - Sweden
11. Maritime University of Szczecin - Poland
12. International Propeller Club - Port of Genoa - Italy
13. Optima Shipbrokers Ltd - Greece

Lean Optimal

Horizon 2020

This is a multi-million project lasting 36 months. Details can be found in the MariFuture April 2014 Development Paper.

Short Detail

Lean Optimal addresses a critical barrier to manufacturing enterprises and their value chains successfully meeting the challenges arising from ‘the uncertainties of continuously and rapidly-changing market conditions and increasingly shorter time-to-market requirements’. Meeting these challenges requires predicting and managing successfully the increasing levels of internal process, product, and supply and demand variability arising from these market factors.

The proposed autonomous system, through its detailed control networks, will enable rapid responses to changing product, process and demand uncertainty and change.

Lean Optimal by providing means of managing the sources, levels and effects of variability will overcome the uncertainties problems.

The focus on lean based process optimisation will create an opportunity to optimise the cost, quality and delivery performance and the intended ICT solutions will enable enterprise-wide lean practices to be adopted by an increasing number of small manufacturing enterprises.

Partners

1. Centre For Factories of the Future - UK



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2. ATB - GER
3. InnoPole - ES
4. TUDEV - TR
5. Newton Montgomery - UK
6. Armbruster - GER
7. TPV D.D - SLO
8. InnoLab (including CadcaMation) - SWISS
9. Adiks Shipyards - TR
10. Ctools - UK
11. Fundació CIM - ES
12. HSG-IMIT - GER
13. Micro Electronica - RO
14. Coventry University - UK