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Application					
Programme			Erasmus+		
Action Type			KA220-VET - Cooperation partnerships in vocational education and training		
Call			2021		
Round			Round 1		
Context					
Field			Vocational Education and Training		
Project Title			Maritime Simulators and Training Facilities Network for Enhancing the Exchange of Good Practices and Digital Learning		
Project Acronym			MARS-NET		
Project Start Date (dd/mm/yyyy)	Project total Duration (Months)	Project End Date (dd/mm/yyyy)	National Agency of the Applicant Organisation	Language used to fill in the form	
01-11-2021	24	01-11-2023	RO01 - Agentia Nationala pentru Programe Comunitare in Domeniul Educatiei si Formarii Profesionale	English	

For further details about the available Erasmus+ National Agencies, please consult the following page: <u>https://ec.europa.eu/programmes/erasmus-plus/contact</u>

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Project Summary

Please provide short answers to the following questions, summarising the information you have provided in the rest of the application form.

Please use full sentences and clear language. In case your project is accepted, the provided summary will be made public by the European Commission and the National Agencies.

Background: Why did you apply for this project? What are the needs you plan to address?

The project mission has aiming to meet the dynamic needs of the stakeholders including students, industry and society, in parallel with the changing professional realities of the modern world from the maritime education sector, by developing a harmonized framework for teaching and research practices within the European Maritime Training and Education system, relying upon academic expertise exchange in learning by simulation methods, with an emphasis on valuing the regional partners potential for education and research, using in joint the simulator facilities and digital learning resources. The project would promote the knowledge transfer between the European Union regions, seeking to build a knowledge "bridge" between the Black Sea and Baltic Sea in areas of education and training, as follow up of previous implemented projects of the partners. The project address to the needs of complying with the STCW 95 requirement in training for partner institutions based on an enhanced future competitiveness, bringing the teaching and learning strategies on a new updated level of digitization. The project will offer an inter-regional joint framework in simulation learning system in maritime education, valuing the potential of developing skills, abilities and responsibilities of the graduates, to stimulate their insertion in the maritime international labor market. By this project, the partners will be granted with access to a larger base of educational resources and training facilities in order to share the networking expertise alongside the European space, increasing their competitiveness as international MET providers. Subsidiary the project is aiming to the need of the job market, for bringing the teaching methods in the new era of digitalization, building new and innovative video tutorials and digital training materials for simulator facilities, to offer full access in time and space for educational processes. In case of the targeted maritime students, blended learning methods and the digital tools will be applied, for enhancing the independence and autonomy of the students, for carrying out the learning process both in the classrooms but also onboard commercial vessels for cadetship. The simulating facility network will also promote harmonized courses that use simulators as: ship handling and maneuvering, engine room operation, cargo handling, safe and rescue or naval communications. Not in the last, the need for internationalization is also to be covered by offering a broad range of cooperation, valuing previous projects results.

Objectives: What do you want to achieve by implementing the project?

MARS-NET will aim to achieve a strategic network for joint partners' facilities and teaching/learning practices exchange, seeking to obtain by implementation such significant results on following directions: - training skills improvement of the trainers, by good practices exchanges on different simulators offered by the partners, implementing a digital teaching framework for hard skills achievement - harmonized methodology for training resources to be achieved (see the model attached: "Meodologie scenarii training simulator.pdf"); - dual education enhancement by developing the cadets' abilities for online training on simulator facilities, using the digital resources in their training, onboard the ships during the cadetship - adaptation of present syllabuses and simulation exercises; - building teaching resources for simulating exercises to digitize the teaching and training environment as a valuable supporting feature for "blending learning" methods enhancement, including a manu (see the attachment: "Manual tutoriale video simulator ANMB.pdf"); implementing harmonized training modules in order to value the partners' experience, facilities and good practices into the network (with an emphasis on the particular aspects of the targeted regions), continuing previous strategic partnership projects as DECOMAR, MARINE, MENTORESS or BLUE4SEAS (see the attachment: "Simulation curriculum model.pdf"); - institutional internationalization will be stimulated by organizing different meetings and dissemination events, where the achieved results will be disseminated and shared; - the academic and training exchanges between the Baltic Sea region and the South-Eastern area of Europe will be very much stimulated, contributing for harmonization of the training practices, connecting the training facilities in a common network to be jointly valued by the partners; - new research methods and research areas of knowledge will be identify, where the simulators to be involved and valued on competitive basis, within the agreed partnership; - the partners will exchange expertise in designing virtual environment and simulation scenarios for navigation and engine room onboard the ships, on simulators, using the partners software and hardware.

Implementation: What activities are you going to implement?

In the relation with the specified intellectual outputs, various activities will be conducted among the partners: - curriculum

development and harmonization according to IMO STCW rules and regulations, - innovative training programs will be implemented on sustainable basis, based on modern teaching methods by simulation and further good practices will be exchanged; - updated training and learning material development will be available for a large pool of students/teachers, implementing a joint virtual campus, - exchanges activities will be organized stimulating the internationalization across the EU, - research activities will be conducted. Overall 5 common face-to-face courses will be organized by each partner alternatively in each country, using and valuing the simulating facilities of the partners in area of navigation, marine engineering, logistics or research. The virtual campus will generate a larger participation of beneficiaries. Moreover, to disseminate the results and the project conclusions, 5 conferences will be organized, to achieve a larger impact in soundness and to attract stakeholder and potential beneficiaries into the network. The courses and the conference will be financed from the budget, in accordance with the participant number, distances and days of attendance, in compliance with Erasmus+ financial rules. Along with MARS-NET project implementation, the partners' representatives have scheduled 5 project meetings, one per each quarter of project implementation.

Results: What project results and other outcomes do you expect your project to have?

The project is mainly focused on building an efficient and effective educational network among a large pool of partners, with regional soundness, to value the simulation facilities for adopting innovative teaching and learning practices, as a definitive step toward the digitization of maritime higher education system. Subsequently, other objectives are aimed as to get competitive advantages from the good practices exchange and knowledge sharing within the network, in regard of improving the teaching skills and simulation learning methods, in respect of an updated alignment to the new tendencies in education and training processes around the European Union, providing a solid support for excellence in teaching and skills development processes. In this respect, the partners will conduct specific activities to produce 5 wider intellectual outputs, defined under a quantitative perspective (i.e. work days for manpower on categories of personnel), as following: -O1: "Building the updated pool of competencies for maritime education to improve the value of simulating facilities in maritime education": 10 course syllabuses will be harmonized to value the simulation learning methods on hard and soft skills requirements, in order to align the MET curriculum to the newest STCW standards for preparing a virtual exchange program for students and teachers; - O2: "Digital media tools to enhance the simulating teaching efficiency in maritime education" - the guidance framework will be issued, together with the summary design of most 5 relevant courses in which simulation facilities and majorly used, further selected for a "digital" detailed preparation; - O3: "Virtual digital campus for teachers, researchers and students" - a virtual network developed as a "virtual campus" will be developed for sharing the didactic materials and the digital resources, for simulating learning environment courses and classes (www.marplat.eu); - O4: "Joint scientific research partnership for building a more efficient and effective teaching and learning environment based on simulation facilities" - technical solutions for integrating the simulator within an operational network will be identified, where the students can freely access the training resources, even from onboard the ships; - O5: "Virtual webinars tools to enhance the digitization of learning materials in Maritime Higher Education" - an overall number of 250 students and 20 teachers will be virtually enrolled in digital classes, to support the developing of the digital content materials. The methodology of building the teaching materials drafted on O2 will be fulfilled, recording the online monitored web-seminars sessions, delivered in video-conference system, to the students from cadetship or from different campuses. As result of O5, the partners will make available 5 digital courses, fully covered with harmonized curriculum (O1), teaching materials (O2) and online available resources (O3), providing the hard skills for maritime providing the hard skills for maritime higher education students, in virtual manner to stimulate the cadetship dual system programs, the virtual mobility of international students and the digitization of simulating classes. Beside the intellectual outputs, 5 common face-to-face courses will be organized by each partner alternatively in each country, for a total of 30 students and 30 teachers, using and valuing the simulating facilities of the partners in area of navigation, marine engineering, logistics or research. The virtual campus will generate a larger participation of beneficiaries. To disseminate the results and the project conclusions, 5 conferences will be organized, to achieve a larger impact in soundness and to attract stakeholder and potential beneficiaries into the network.



Applicant organisation/Partner organisation

OID	Legal name	Country	Region	City	Website
E10093117	Academia Navala "Mircea cel Batran"	Romania	Sud-Est	Constanta	www.anmb.ro
E10105404	T. C. Piri Reis Universitesi	Turkey	İstanbul	Istanbul	www.pirireis.edu.tr
E10108590	Nikola Yonkov Vaptsarov Naval Academy	Bulgaria	Варна (Varna)	Varna	www.naval-acad.bg
E10090628	AKADEMIA MARYNARKI WOJENNEJ	Poland	Pomorskie	GDYNIA	www.amw.gdynia.pl
E10108901	Lietuvos aukstoji jureivystes mokykla	Lithuania		Klaipeda	http://www.lajm.lt

Is the organisation a public body?

Is the organisation a non-profit?

Type of Organisation

Main sector of activity

Higher education institution (tertiary level)

Associated persons should not be shown in PDF because of GDPR compliance.

Budget	Summary			
Project B	udget Summary			
Project Mar	nagement and Implementation		36 000	
Transnation	al Project Meetings		34 500	
Project Res	ults		58 640	
Multiplier E	vents		25 000	
Learning, T	eaching Training Activities		65 420	
Total grant			219 560	
Transnati	onal Project Meetings			
Meeting ID	Meeting Title	N° of F	articipants	Grant
1	Project Management-Kick-off Meeting	12		6 900
2	Course Models for Deck and Engine Room Watchkeeping Courses	12		6 900
3	Comparative teaching/evaluation methods in simulation didactic activities	12		6 900
4	Learning and training resources digitalization	12		6 900
5	Research potential in simulating facilities and virtual campus management	12		6 900
Total		60		34 500

Project Results

Result ID	Output Title	Category Of Staff	N° of Working Days	Grant
1	Project Results Details (1)	Teachers/Trainers/Researchers	35	2 590
1	Project Results Details (1)	Teachers/Trainers/Researchers	20	1 480
1	Project Results Details (1)	Teachers/Trainers/Researchers	20	1 480
1	Project Results Details (1)	Teachers/Trainers/Researchers	20	1 480
1	Project Results Details (1)	Teachers/Trainers/Researchers	20	1 480
2	Project Results Details (2)	Teachers/Trainers/Researchers	50	3 700
2	Project Results Details (2)	Teachers/Trainers/Researchers	30	2 220
2	Project Results Details (2)	Teachers/Trainers/Researchers	30	2 220
2	Project Results Details (2)	Teachers/Trainers/Researchers	30	2 220
2	Project Results Details (2)	Teachers/Trainers/Researchers	30	2 220
3	Project Results Details (3)	Teachers/Trainers/Researchers	50	3 700
3	Project Results Details (3)	Technicians	10	550
3	Project Results Details (3)	Teachers/Trainers/Researchers	30	2 220
3	Project Results Details (3)	Teachers/Trainers/Researchers	30	2 220
3	Project Results Details (3)	Teachers/Trainers/Researchers	30	2 220
3	Project Results Details (3)	Teachers/Trainers/Researchers	30	2 220
4	Project Results Details (4)	Teachers/Trainers/Researchers	40	2 960
4	Project Results Details (4)	Teachers/Trainers/Researchers	30	2 220
4	Project Results Details (4)	Teachers/Trainers/Researchers	30	2 220
4	Project Results Details (4)	Teachers/Trainers/Researchers	30	2 220
4	Project Results Details (4)	Teachers/Trainers/Researchers	30	2 220
5	Project Results Details (5)	Teachers/Trainers/Researchers	50	3 700

5	Project Results Details (5)	Teachers/Trainers/Researchers	30	2 220
5	Project Results Details (5)	Teachers/Trainers/Researchers	30	2 220
5	Project Results Details (5)	Teachers/Trainers/Researchers	30	2 220
5	Project Results Details (5)	Teachers/Trainers/Researchers	30	2 220
Total			795	58 640

Multiplier Events

Event ID	Event Title	Country of Venue	Local Participants	Foreign Participants	Virtual Participants	Grant
1	Dual education and digitization of maritime higher education system	Romania	30	10	0	5 000
2	Simulation environment in Maritime Education and Training (MET)	Poland	30	10	0	5 000
3	Teaching efficiency enhancement and class leadership in virtual campus management	Turkey	30	10	0	5 000
4	Simulation facilities potential for maritime scientific research	Bulgaria	30	10	0	5 000
5	Teaching and learning digital	Lithuania	30	10	0	5 000
Total			150	50	0	25 000



Learning, Teaching, Training Activities

LTT ID	Title of activities	Travel Support	Green travel	Grant for Exceptional Costs for Expensive Travel	Individual Support Grant	Inclusion Support	Linguistic Support Grant	Grant
C1	Digital exercises on shiphandling simulator – exchange of good practices and building tutorial digital courses	4 550	0	0	7 250	0	0	11 800
C2	Digital exercises on engine room simulator – exchange of good practices and building tutorial digital courses	5 025	0	0	7 540	0	0	12 565
C3	Digital exercises on cargo handling simulator – exchange of good practices and building tutorial digital courses	5 025	0	0	12 720	0	0	17 745
C4	Watchkeeping course on bridge simulator for deck cadets – blended training session on practice to virtual	4 550	0	0	6 960	0	0	11 510
C5	Watchkeeping course on engine room simulator for engine cadets – blended training session practice to virtual	4 550	0	0	7 250	0	0	11 800
Total		23 700	0	0	41 720	0	0	65 420

Budget per Participating Organisation	
Lietuvos aukstoji jureivystes mokykla (E10108901 - Lithuania)	
Project Management and Implementation	6 000
Transnational Project Meetings	6 900
Project Results	11 840
Multiplier Events	5 000
Learning, Teaching Training Activities	12 565
Total grant	42 305
Nikola Yonkov Vaptsarov Naval Academy (E10108590 - Bulgaria)	
Project Management and Implementation	6 000
Transnational Project Meetings	6 900
Project Results	11 100
Multiplier Events	5 000
Learning, Teaching Training Activities	13 190
Total grant	42 190
T. C. Piri Reis Universitesi (E10105404 - Turkey)	
Project Management and Implementation	6 000
Transnational Project Meetings	6 900
Project Results	11 470
Multiplier Events	5 000
Learning, Teaching Training Activities	12 420
Total grant	41 790
Academia Navala "Mircea cel Batran" (E10093117 - Romania)	
Project Management and Implementation	12 000
Transnational Project Meetings	6 900
Project Results	12 390
Multiplier Events	5 000
Learning, Teaching Training Activities	13 480
Total grant	49 770
AKADEMIA MARYNARKI WOJENNEJ (E10090628 - Poland)	_
Project Management and Implementation	6 000
Transnational Project Meetings	6 900
Project Results	11 840
Multiplier Events	5 000
Learning, Teaching Training Activities	13 765
Total grant	43 505

Timetable

Note that transnational project meetings, production of project results, multiplier events and learning, teaching and raining activities will be listed in this table automatically once you have created them in the dedicated section of the form. You can create other relevant activities that do not receive specific support but are funded by the Project Management and Implementation grant and add them to the table.

ID Activity Type	Starting period	End of Period	Activity Title
Learning Teaching Activities	2021-11	2021-11	Digital exercises on shiphandling simulator – exchange of good practices and building tutorial digital courses
2 Learning Teaching Activities	2021-11	2021-11	Digital exercises on engine room simulator – exchange of good practices and building tutorial digital courses
3 Learning Teaching Activities	2021-11	2021-11	Digital exercises on cargo handling simulator – exchange of good practices and building tutorial digital courses
4 Learning Teaching Activities	2021-11	2021-11	Watchkeeping course on bridge simulator for deck cadets – blended training session on practice to virtual
5 Learning Teaching Activities	2021-11	2021-11	Watchkeeping course on engine room simulator for engine cadets – blended training session practice to virtual
6 Project Results	2021-11	2022-02	Building the updated pool of competencies for maritime education to improve the value of simulating facilities in maritime education
7 Project Results	2021-11	2021-11	Digital media tools to enhance the simulating teaching efficiency in maritime education
8 Project Results	2021-11	2023-04	Virtual digital campus for teachers, researchers and students
9 Transnational Project Meeting	2021-11	2021-11	Project Management-Kick-off Meeting
10 Transnational Project Meeting	2021-11	2021-11	Course Models for Deck and Engine Room Watchkeeping Courses
Transnational 11 Project Meeting	2021-11	2021-11	Comparative teaching/evaluation methods in simulation didactic activities
12 Transnational Project Meeting	2021-11	2021-11	Learning and training resources digitalization
13 Transnational Project Meeting	2021-11	2021-11	Research potential in simulating facilities and virtual campus management
14 Multiplier Event	2021-12	2021-12	Dual education and digitization of maritime higher education system
15 Project Results	2022-02	2022-06	Joint scientific research partnership for building a more efficient and effective teaching learning environment based on simulation facilities
16 Multiplier Event	2022-04	2022-04	Simulation environment in Maritime Education and Training (MET)
17 Project Results	2022-09	2023-02	Virtual webinar tools to enhance the digitization of learning materials in Maritime Higher Education.
18 Multiplier Event	2022-10	2022-10	Teaching efficiency enhancement and class leadership in virtual campus management
19 Multiplier Event	2023-04	2023-04	Simulation facilities potential for maritime scientific research
20 Multiplier Event	2023-09	2023-09	Teaching and learning digital

Other Relevant Activities in the Timetable

Do you want to add other relevant activities not yet included in the timetable and that do not receive a specific grant but can be funded from the Project Management and Implementation grant?



Call 2021 Round 1 KA2 KA220-VET - Cooperation partnerships in vocational education and training Form ID KA220-VET-09F232FC Deadline (Brussels Time) 21 May 2021 12:00:00

No



Participating Organisations

To complete this section, you will need your organisation's identification number (OID). Since 2019, the Organisation ID has replaced the Participant Identification Code (PIC) as unique identifier for actions managed by the Erasmus+ National Agencies.

If your organisation has previously participated in Erasmus+ with a PIC number, an OID has been assigned to it automatically. In that case, you must not register your organisation again. Follow this link to find the OID that has been assigned to your PIC: <u>Organisation Registration System</u>

You can also visit the same page to register a new organisation that never had a PIC or an OID, or to update existing information about your organisation.

Academia Navala "Mircea cel Batran" (E10093117 - Romania)

Applicant organisation OID	Legal name	Country
E10093117 Applicant details	Academia Navala "Mircea cel Batran"	Romania
Legal name	Academia Navala "Mircea cel Batran"	
Country	Romania	
Region	Sud-Est	
City	Constanta	
Website	www.anmb.ro	
Profile	—	
Type of Organisation	Higher education institution (tertiary level)	

Background and experience

Please briefly present the organisation/group (e.g. its type, scope of work, areas of activity and if applicable, approximate number of paid/unpaid staff, learners and members of the group)

Mircea cel Batran Naval Academy (MBNA) is an accredited public institution of poly-technical higher education and scientific research. MBNA operates according to the Romanian law of higher education, undertaking the mission to educate and train specialists for maritime and port industry. MBNA has its foundation roots in 1872 in ancestor Fleet School, its present value being certified by the Romanian Agency for Quality in Higher Education with highest level of trust, and by different international bodies as high-quality academic institution (e.g. European University Association, IAMU, BSUN, EMSA, U-Multirank etc). MBNA is certified since 2003 in its Quality Management System by Bureau Veritas, based on ISO 9001/2008. The educational offer is focused both on academic (undergraduates and postgraduates programs) and training programs, in field of navigation, naval electro-mechanics, electric engineering, port management and operations, naval equipment and automation, sustainable development and marine environment, counting an average number of 2.500 students, 80 teaching staff core and 100 teaching associate staff. The educational programs and the training courses on vocational dimension are accredited by the national and international authorities and are developed under ISO 9001/2015 standards. MBNA has the operational capacity to provide a wide range of didactic resources for setting up and developing training courses, providing specialized staff and a rich operational endowment, consisting in classes, integrated laboratories, simulators or educational on-line resources and platforms. As academic facilities MBNA has more than 60 simulators, laboratories, offices and specialized rooms with appropriate modern equipment, a Training Ships Formation (including the Training Ship "Mircea", motorboats and training crafts), a Training Center for Seamanship and Nautical Sports, a Damage Control Center, an ITC Center, a department of microproduction and practical training, and also a modern sport complex. The research and development programs in MBNA are carried out in compliance with the general EU and national framework, covering a wide range of subjects, in field of naval equipment's and technology or maritime and port industry. MBNA has developed two major interdisciplinary research centers: Research Center in Marine Engineering and second, in Naval Engineering and Management

(https://www.anmb.ro/eng/files/cercetare/research_center.html). Most relevant results were achieved in several significant area of scientific research as navigation and maritime transports, electrical engineering and automation filed, mechanical engineering, sustainable development technologies, with a wide involvement on maritime international networks development. MBNA has been granted both with national funds (under National Plan for Research or Sectorial Initiatives) and European funds, under ESF (Cohesion Structural Funds – Human Resources Capacity), ERDF-Ro-Bg Cross Border Programme, ENPI/IPA programme, or EEA grants on Romanian-Norwegian Programme, where MBNA has been involved as lead partner or project partner in international consortium. Developing such training and research facilities for maritime body of knowledge MBNA has become a relevant educational and research institution in the Black Sea area, availing its services in applied applied research programs for naval and port industry. Counting on its laboratories, simulators and research centers as on its valuable human resources, MBNA is ready and capable to contribute in innovation and scientific research in different areas of knowledge defined by the maritime industry. On training programs, MBNA is fully acrredited by International Maritime Organization, providing specialized courses for seafarers in navigation, mechanical engineering, team management, safety, naval communication, or others, using a large complex of simulators.

What are the activities and experience of the organisation in the areas relevant for this project? What are the skills and/or expertise of key persons involved in this project?

Following up its imperative policy of internationalization, MBNA has decided to initiate this project aiming to build a strongly connected and enhanced informed community of maritime education and training institutions, where the harmonization of the curriculum and the exchange of good teaching practices in "learning by doing" philosophy to serve for building a more efficient and effective teaching and learning environment, ready to value the collective knowledge summarized about the simulation potential in teaching and research using on common basis the training facilities. MBNA is fully engaged in enlarging its training and research capabilities, accessing a wider facilities network within the proposed consortium, being totally compatible with the partners simulation resources. This alignment of simulation training and research facilities could provide a better integration of the European maritime education entities with STCW requirements. For students a greater access to international learning resources cumulated to the possibility of traveling within the virtual academic space, could improve significantly their future professional profile as graduates, well adapted to the international, multicultural and globally changing environment. MBNA has the operational capacity to provide a wide range of didactic resources for setting up and developing training courses, providing specialized staff and a rich operational endowment, consisting in integrated laboratories, simulators or educational on-line resources and platforms. As academic facilities MBNA has more than 60 simulators (NETPRO 5500 for Navigation, ERM 5000 for engine room, Cargo handling, Communication simulator, as describe in the attached document), a Training Ships Formation, a Training Center for Seamanship and Nautical Sports and a Damage Control Centre. MBNA is aiming to contribute with its expertise, knowledge and good practices to a qualitative enhancement of the educational processes within the network, as a major added value for the consortium. MBNA has expertise in building such networks as member or coordinator, being involved in similar projects, as DECOMAR (Project No: 2014-1- RO01-KA203-002916), where the first steps in harmonizing the curriculum where underpass. Also, MBNA team comprise very experienced experts in maritime training and project management, with a great experience in curriculum development and in learning resources management, able to build an efficient digitalization of maritime education and training system and having a suitable profile for conducting the planned activities, courses and training programs. The team leader, Assoc.Prof.dr.eng. Alecu TOMA has more than 20 years as academic faculty, assigned on different teaching and managerial positions and additional 10 years appointed onboard ships. As project responsible he proved an extensive expertise in implementing similar projects, being certified as trainer for navigation and cargo handling simulators. Assoc.Prof.dr.eng. Lupu Sergiu has an extensive experience as researcher and trainer on Transas intergrated simulator, being IMO certified as instructor for navigation officers. Assoc.Prof.dr.eng. Ristea Marian has an extensive experience and trainer on Transas intergrated simulator, being IMO certified as instructor for engine room, reefers and cargo handling. Assoc.Prof.dr.eng. Catalin Popa is the vicerector for international programs and has an extensive experience as project implementation expert, but also as bridge team leader and expert in curriculum designer.



	As Applicant		As Partner or Consortium Member	
Action Type	Number of project applications	Number of granted projects	Number of project applications	Number of granted projects
Higher education student and staff mobility (KA103 OLD)	1	1	0	0
Strategic Partnerships addressing more than one field (KA200)	0	0	2	0
Strategic Partnerships for higher education (KA203)	8	2	9	1
Higher education student and staff mobility between Programme and Partner countries (KA107)	3	3	0	0
Higher education student and staff mobility within programme countries (KA103)	6	6	0	0
Strategic Partnerships for adult education (KA226)	0	0	3	2
Strategic Partnerships for youth (KA227)	0	0	1	0

I understand and agree that the National Agency can use the information it has about my organisation's previous participation to assess my organisation's capacity to implement activities under this application.



Partner Organisations

Legal name	Country
T. C. Piri Reis Universitesi	Turkey
Nikola Yonkov Vaptsarov Naval Academy	Bulgaria
AKADEMIA MARYNARKI WOJENNEJ	Poland
Lietuvos aukstoji jureivystes mokykla	Lithuania
	T. C. Piri Reis Universitesi Nikola Yonkov Vaptsarov Naval Academy AKADEMIA MARYNARKI WOJENNEJ

T. C. Piri Reis Universitesi (E10105404 - Turkey)

Partner organisation details

Legal name	T. C. Piri Reis Universitesi
Country	Turkey
Region	İstanbul
City	Istanbul
Website	www.pirireis.edu.tr

Profile

Type of Organisation

Higher education institution (tertiary level)

Background and experience

Please briefly present the organisation/group (e.g. its type, scope of work, areas of activity and if applicable, approximate number of paid/unpaid staff, learners and members of the group).

Pîrî Reis University (PRU) has been founded by the support and sponsorship of the whole maritime sector (almost 10000 stakeholders), namely Turkish Chamber of Shipping (TCS), through Turkish Maritime Education Foundation (TUDEV) as a multidisciplinary Maritime University. TÜDEV, forming the core of PRU, has a very successful history of training of seafarers and EU Projects since 1993 to bring the Turkish Shipping Sector to the world class standards and to establish maritime policies and identify targets that will enhance the economic power, welfare and efficiency of the country in this area as well as to train professional personnel and opening and operating special training institutions for the interested persons to have a career or assisting the educational institutions on maritime to be opened and improve their capabilities in terms of facilities and education with a goal to promote the Turkish Shipping Industry. There are 5 faculties (Maritime, Engineering, Science and Letters, Economics and Administrative Sciences, Law), Prep School for Languages, Vocational Higher School, Simulator Training Centre, Continuous Education cCntre, Graduate School of Social Sciences, Graduate School of Science and Engineering, Technology Transfer Office, Maritime History Applied Research Centre and Maritime Law Applied Research Centre,; delivering higher education in 3 cycle degrees (BS, Ms and PhD) in 24 different programs and, associate degrees in 10 different programs. An agreement for Pîrî Reis University to provide maritime education within the framework of international standards and at the highest level had been signed in 2018 with the Qatari Emiri Armed Forces. In accordance with this agreement, in February 2019, Pîrî Reis University has started to provide 6-year educational services in the setting up, management and education and training of the Qatari Emiri Naval Forces affiliate Academy (Naval Military College), which is comprised of 4 programs. There are totally 210 permanent full time academic staff, 100 admin staff and over 4500 full time degree students including students from foreign countries. Approximately 600 professionals are attending professional development courses at the continuous vocational education centre of the university at various ranks and seniority in different times of the year. PRU through its scientific and academic background, consolidated experience in direct management of maritime scientific and vocational education and close links with stakeholders will play a major role in the project to ensure quality of the action and to set up a theoretical and practical testing of the programme. Its scientific and academic background will be also made available in building the

training programme. The consolidated links with maritime stakeholders and institutions will provide direct feedbacks to test the project products, and to disseminate and exploit the project results. It will play a key role on dissemination through its close relation with the Turkish Chamber of Shipping. The research and development programs are carried out in compliance with the general EU and national framework, covering a wide range of subjects in all fields of marine sciences, technology, engineering, law and economics and administrative sciences. Technology Transfer Office at Technopark Istanbul maintains contacts with different parts of the industry. Establishment of a new incubation center is also in progress to support researchers through dedicated mentoring and angel investors.

What are the activities and experience of the organisation in the areas relevant for this project? What are the skills and/or expertise of key persons involved in this project?

The complex simulation system that is currently at Piri Reis University constitutes the very first example of its kind with its cloud based, remotely accessible, multifunctional and touchscreen operating system. The simulators have 17 simulation mediums, 7 basic simulator types, 50 different type of ships, 50 maritime geographic locations, 3000 various auxiliary vessels and objects. It is composed of different and special type simulators, ranging from the bridge to the engine room, vessel traffic system to fishing, virtual shipyard and harbour simulation to ship modelling, with training classrooms and briefing halls. The simulators in the system present a display capability that has superb resolution with the support of the most advanced and up-to-date projection system. The various sorts of ships, auxiliary objects, charts and communication systems, and maneuvering operations are utilized to create an excellent hands-on training opportunity with authentic data simulation under all kinds of sea and weather conditions, day and night. The simulators provide not only all training standards of STCW with its capabilities and facilities but also provide standards for setting the sample to maritime education. Besides powerful visual interaction there are real ship handling consoles, plotting aids, touchscreens, communication equipment, panels and circuits to give the sense of reality in the simulators. The simulator training is based on scenarios from the basic level to the most advanced and complicated level prepared by the certified specialized expert instructors in accordance with the needs and level of the training. As the scenarios are conducted by the instructors, they may test the training at any instant during the practice. The instructor can also monitor the events through the Evaluation and Assessment System and debrief the participants at the end of the each training session. The simulators have the capacity of up to 200 trainees at the same time. Cloud-based Simulators have more than 400 computers, 16 servers, 422 monitors, 38 projectors, using more than 30 configurations by means of more than 150 special equipment components. Simulators have different training mediums including; 3 FMSS (Full Mission Simulator System) bridge (360, 330 and 270 degrees field of vision), Full Mission Engine Room, LCHS (Liquid Cargo Handling Simulator), ARPA, ECDIS, GMDSS, Crane Simulator with moving platform, DP (Dynamic Positioning), Anchor Handling, Tug, Yacht, Fishing, PISCES (Potential Incident Simulation Control and Evaluation System), VTS, Model Wizard. Apart from Simulator spaces, there are 2 multifunctional classrooms, 2 multifunctional Engine Room Classrooms, 4 briefing rooms. All the system can be controlled from Main Control Room. Scenario loading and instructor intervention during the training can also be made from this Main Control Room. In the Engine Room Simulators there are control panels, touch screen monitors, command panel and circuits similar to Bridge simulators to give the real training opportunity. In the GMDSS simulator and classroom real on-board communications are implemented in the operator rooms. As Project Manager Assoc. Prof. Dr. Albayrak is former Vice Dean of Maritime Faculty and Head of International Relations of PRU and Professor at Maritime Transportation Management Department. Presently teaching at PRU Faculty of Economics and Administrative Sciences at Maritime Business Management Department. He has an extensive Naval background as a line officer (deck - communications and engine gualified) in the Navy over 30 years and mostly served in operational duties as well as a project officer for operational planning and training. As EU Projects Coordinator of TUDEV, he took part in many EU Projects as a coordinator/manager and researcher (LLP TOI Projects ; SURPASS 2009-1-TR1-LEO05-08652; M'AIDER 2009-1-NL1-LEO05-01624; EBDIG UK/09/LLP-LdV/TOI-163_262; E-GMDSS VET 142173-LLP-1-2008-1-SI; Train4Cs-II 2008-1-TR-LE



	As Applicant		As Partner or Consortium Member	
Action Type	Number of project applications	Number of granted projects	Number of project applications	Number of granted projects
Higher education student and staff mobility (KA103 OLD)	1	1	0	0
Strategic Partnerships for vocational education and training (KA202)	0	0	1	0
Strategic Partnerships for higher education (KA203)	4	2	11	3
Higher education student and staff mobility within programme countries (KA103)	6	6	0	0
Strategic Partnerships for adult education (KA226)	1	0	1	1
Strategic Partnerships for youth (KA227)	1	0	0	0

I understand and agree that the National Agency can use the information it has about my organisation's previous participation to assess my organisation's capacity to implement activities under this application.

Nikola Yonkov Vaptsarov Naval Academy (E10108590 - Bulgaria)

Partner organisation details

Legal name	Nikola Yonkov Vaptsarov Naval Academy
Country	Bulgaria
Region	Варна (Varna)
City	Varna
Website	www.naval-acad.bg
Profile	

Background and experience

Type of Organisation

Please briefly present the organisation/group (e.g. its type, scope of work, areas of activity and if applicable, approximate number of paid/unpaid staff, learners and members of the group).

Higher education institution (tertiary level)

The traditions of the Bulgarian Maritime education date back to 1881 when, by No 7 Circular Letter of 9 January 1881, the Ministry of Defence announced the establishment of a Machine School of the Fleet in Rouse for training of motormen and firemen, which was transformed in 1902 into a Fleet Machine School, the first secondary technical school in Bulgaria. On 18.06.1929 The National Assembly passed "Law of the Naval School" and in 1942 another law was passed for its transformation into "His Majesty's Naval Academy" with a 6-year course of studies. The Naval Academy obtained the first national program accreditation of its main specialties in 1998 and in 2000 it was entered in the IMO "White List" as a higher school with approved maritime education, meeting the requirements of STCW 78/95 Convention. In 2000 'Nikola Vaptsarov' Naval Academy became a founder and a regular member of the International association of Maritime Universities (IAMU) and a co-founder of the Institute of Maritime Law and Logistics at Varna Free University, the National Oceanographic Committee - a member of the intergovernmental oceanographic committee of UNESCO, as well as of the Business Incubator of High Technologies, Varna. The education is performed by two Faculties, Navigation and Engineering, and the Department for Post-Graduate Training. They are responsible for the training in the special subjects as well as for the fundamental scientific and comprehensive training in the following specialties: Navigation, Ship Power Plants, Electrical Engineering, Shipboard Radio electronics, Shipping and Port Management, Technology of Ship Repairs, River Navigation and Ocean Engineering, ICT, Cybersecurity, Mechatronics in the form regular and extramural instruction. Distance learning is in the process of being introduced. Furthermore, the Naval Academy is a venue for the successful development of activities in "Naval research center", "Center for career development ", "Center for training ship brokers and agents" run by the Charter Brokers' Institute, London. The contacts and business-like connections with counterpart higher schools and organizations in the Mediterranean and the Black Sea regions are long-standing. The Naval Academy is a holder of an inclusive charter "Erasmus" and articipates in teacher and student exchanges. For the last 3 years NVNA has conducted more than 500 students mobilities on KA1 of Erasmus+. The Naval Academy is a founder of Black Sea Association of Maritime Institutions (BSAMI) in April 2010 (together with another five higher education institutions around the Black Sea) who decided to meet the responsibility as a team to further enhance themselves as the major global center of the highest quality maritime human resources through knowledge, innovation and implementation towards the future. The total academic staff of the Naval Academy is app. 130, where the full professors are 16, the associate professors are 44 and the other PhD holders are 29. On the other hand the academic staff has maritime qualification: 9-Master on ships of 3000 gross tonnage or more; 1- Master on ships up to 500 gross tonnage; 1- Chief Engineer Officer; 6 - Watch keeping Officers; 7- Second Engineer Officers; 2 - Ship's Electrical Engineer Officers; 20 - GMDSS General Operators; 4 - First/second class Radio electronic; 5 - Maritime Security Trainers. In 2014 NVNA was audited by the Ministry of Land, Infrastructure, Transport and Tourism from Japan and recognized NVNA as a certified institution in their System of Recognition for Maritime Education and Training Institutions. In 2015 NVNA was audited successfully by EMSA.

What are the activities and experience of the organisation in the areas relevant for this project? What are the skills and/or expertise of key persons involved in this project?

According to the similarity to the other 3 partners, the "Nikola Y. Vaptsarov" Naval Academy is also focused on the newest trends of the maritime labour market, implementing the learning by simulating methods and the training digitalization since several years ago already, having an extensive experience in networking solutions for education, being partner with the application many other projects before, as a traditional partner in the Black Sea region. The "Nikola Vaptsarov" Naval Academy is focused on the newest methods of education in the field of maritime labour market, in order to increase the world quality of education and training in the maritime profession, for both civilian and military students. The NVNA have experience in development of international educational programs and their successful implementation will lead to popularization of the world maritime education idea according to established European qualification framework and IMO standards. Last three years NVNA settled its leadership position and demonstrate high level capacity for maritime staff training not only in the Black Sea region but also in all over the world. Indicator is the significant increasing number of foreign trainers and also the number of international inter-institutional agreements with not European countries. This witness the readiness of the Academy to be part of this project and also for world maritime education network establishing The academic capacity of NVNA and participation of the academy in the Centre of Excellence will contribute for sustainable development in Global Centre of Excellence for Maritime Education and Training. NVNA will support this idea with the abilities of its academic staff and associate partners. The other prove of this is the excellence training which NVNA offer to its student in the maritime domain. Multinational and multicultural education in NVNA give them great experience for their future teamwork. Participation of the Academy in this project will contribute for the development and enhancement of the academic staff but also to the learners, exchanging methods will give a different view not only on the basis of teaching methods in staff training, but also for enrichment and exchange of experience. The academic teachers and maritime instructors for the leadership topics are very experienced and have the appropriate educational means to enhance awareness of the female officers in shipping and naval defence and to close the gender gap in this specific area. NVNA has achieved an impressive complex of simulators that can be used for this project, as following: NTPRO 5000 simulator for ship handling, engine room simulator, dynamic positioning simulators for off-shore structures, virtual bridge simulator for damage control and coastal management simulator. Their participation in the project could bring an additional value in best practices sharing, but also in research studies on simulators potential, offering a great opportunity in digitalization process, due to the accumulated expertise in software simulation design. The project coordinator, Prof.dr.eng. Blagovest Belev is appointed as Scientific Secretary of Faculty of Navigation and has a significant experience of more than 20 years in project development and implementation, including under Erasmus+ KA1 and KA2 framework. His wide experience in teaching throughout a didactic carrier of 28 years, accounted along with his experience achieved onboard merchant fleet ships recommend him as a valuable team member, with a great potential in leading the curriculum harmonization and the research initiatives conducting. He has been involved in more than 10 national and international project, out of which 3 under Erasmus+ programme, being familiar with the European and regional funds rules and regulations. Between 2007 and 2011 he has been appointed for ERASMUS coordinator in NVNA. In area of research and development, he had published more than 70 paperworks and 7 books.



	As Applicant		As Partner or Consortium Member	
Action Type	Number of project applications	Number of granted projects	Number of project applications	Number of granted projects
Higher education student and staff mobility (KA103 OLD)	1	1	0	0
Strategic Partnerships for vocational education and training (KA202)	0	0	12	3
Strategic Partnerships for higher education (KA203)	2	0	17	4
Strategic Partnerships for adult education (KA204)	0	0	1	0
Higher education student and staff mobility between Programme and Partner countries (KA107)	4	1	0	0
Higher education student and staff mobility within programme countries (KA103)	6	6	0	0
Strategic Partnerships for adult education (KA226)	0	0	4	2
Strategic Partnerships for youth (KA227)	0	0	1	0

I understand and agree that the National Agency can use the information it has about my organisation's previous participation to assess my organisation's capacity to implement activities under this application.

AKADEMIA MARYNARKI WOJENNEJ (E10090628 - Poland)

Partner organisation details

Legal name	AKADEMIA MARYNARKI WOJENNEJ
Country	Poland
Region	Pomorskie
City	GDYNIA
Website	www.amw.gdynia.pl
Profile	
Type of Organisation	Higher education institution (tertiary level)

Background and experience

Please briefly present the organisation/group (e.g. its type, scope of work, areas of activity and if applicable, approximate number of paid/unpaid staff, learners and members of the group).

The Polish Naval Academy (PNA) "Heroes of Westerplatte" is a naval university supervised by the Ministry of National Defence of the Republic of Poland, with the history, uninterrupted by World War II, dating back to 1922. At present the PNA provides education for officer-cadets, commissioned officers and civilian students at first and second cycles of study (undergraduate and graduate). It also offers opportunities for professional development at specialized courses and postgraduate programs. In accordance with international agreements the PNA trains officers for naval forces of countries in Europe, North Africa, the Middle and Far East (currently Qatar, Kuwait, Saudi Arabia). International exchange significantly contributes to the rise in qualifications of the PNA staff. It also allows the students to attend lectures given by best specialists from leading scientific centers of the world. Apart from candidates to professional soldiers (midshipmen), the PNA also teaches officers and civilian students in 4 Faculties: 1. Navigation and Naval Weapons Faculty (WNiUO); 2. Mechanical and Electrical Engineering Faculty (WME); 3. Command and Naval Operations Faculty (WDiOM); 4. Humanities and Social Sciences Faculty (WNHiS). Academy has employed as teaching core staff 16 Professors, 43 Habilitated Doctors and 81 Doctors. Currently it is a state college open to the educational needs of the whole Pomeranian region. In the last years during the academic year it taught up to 8000 students, course participants and officers. At the peak, even 1500 students started their education there, and there were almost 4000 BA and MA students. At PNA students and course participants not only gain theoretical knowledge, but also practical skills, since the Academy is equipped with a large number of simulators and laboratories. The students have GMDSS, deck, marine power plants, submarine weapons, and gunnery simulators at their disposal. Currently, military students are being taught in five fields: navigation, mechanics and machine construction, mechatronics, IT science, and information systems in security. Civilian students have 13 fields to choose from: navigation, IT science, mechanics and machine construction, automatics and robotics, mechatronics, national security, internal security, information systems in security, space and satellite technologies, international relations, military in the system of public services and pedagogics. PNA is a leading research and development center for the Polish Navy, defense and maritime industry. The research problems are selected so as to shape scientific specialties of the Academy in connection with programs of development of the Polish Navy as well as with the process of technical modernization of ships, weapons systems and equipment. The Academy has unique research and development teams. Several research projects conducted at the Polish Naval Academy are focused on modern maritime and defense technologies. State policies aimed at developing ties between science and industry encourage the Academy to establish close cooperation with industrial companies. The cooperation should yields good results in transferring advanced technologies to industry. Such activities fortify the way to the most effective use economic and social potential of the Polish Naval Academy. Expertise of the scientists of Polish Naval Academy deliver measurable benefits. New solutions have to be quickly implemented. It is possible only when cooperation between science and industry in efficient. The effective cooperation between the Academy and industry is stimulated by the mechanism, created by Ministry of Science and Higher Education, of jointly undertaken R&D efforts focused on further implementation

of their results. It is only consortia composed of the representatives of those two groups that is able to be entrusted with such projects. The Academy together with other universities of technology and industrial companies actively.

What are the activities and experience of the organisation in the areas relevant for this project? What are the skills and/or expertise of key persons involved in this project?

Polish Naval Academy has a long tradition in training future seafarers on simulators. The high level of competence of the training staff is confirmed by SCTCW IMO appropriate certificates. Noteworthy is the fact that Mechanical-Electrical Faculty is the only one of the project partners with the UNITEST engine room simulator, a quite popular supplier of simulators in the world. Increasing the diversity of used simulators will enable better preparation of students for their future work what is an added value. All people involved in the project have extensive experience in working at the university in various positions. For many years, they have also participated in international projects on various levels, including issues connected with teaching and examining on various types of simulators. The possibility of direct contact and cooperation between PNA and UNITEST, which is a producer of engine room simulators, is also significant. PNA engine room simulator as well as deck simulator met the recruitments of IMO standards what is confirmed by polish marine administration. Engine room simulators located in PNA include: frigate engine room simulator (CODAG propulsion system) is based on engine room with two four-stroke medium speed engines, one gas turbine and two controllable pitch propellers; low Speed Engine Room Simulator WinGD 10X92 is based on modern, electronically controlled solutions, presently used in big-sized engine rooms (one two-stroke type main engine with fixed pitch propeller); LNG-DE3D Engine Room Simulator is based on engine room with dual fuel electric propulsion system (three diesel generators, two azimuth thrusters); HV-DE3D Engine Room Simulator is based on engine room with diesel electric propulsion system (four diesel generators, two main azimuth thrusters, one retractable and one bow thruster); PSV3D Engine Room Simulator is based on engine room with four-stroke medium speed engines and two controllable pitch propellers (two engines works with one reduction gear and propeller); ORP Kormoran is based on engine on engine room with two marine diesel engines and two electric engines. The engines drive two Voith Schneider propellers with reduction gears. The staff involved in the project implementation have an extensive experience in implementing similar programs and a suitable profile for conducting the planned activities, courses and training programmes. The team leader, Ph.D. Eng. Marcin Kluczyk is attested as simulator trainer, curriculum developer and researcher being graduate of the Faculty of Mechanics and Machine Design in the field of Operation of Ship Power Plants at the Mechanical-Electrical Faculty of the Polish Naval Academy in 2007. At the same time has started to serve as chief engineer in mechanical department on one of the Polish Armed Forces warships, which held until 2011. The next place of service was and is still the Polish Naval Academy, where he continues his scientific development. In 2018 defended doctoral dissertation by obtaining a Ph.D. in technical sciences. He is an author of over 25 reviewed publications. His knowledge of English is good (according to STANAG 6001 levels: 3 3 3 3). He was participating in project DECOMAR and MENTORESS. Had successfully completed training according to the IMO model course 6.10 and has a "certificate of training in didactics for simulators trainer and assessors".



	As Applicant		As Partner or Consortium Member	
Action Type	Number of project applications	Number of granted projects	Number of project applications	Number of granted projects
Higher education student and staff mobility (KA103 OLD)	1	1	0	0
Strategic Partnerships for higher education (KA203)	0	0	8	3
Higher education student and staff mobility within programme countries (KA103)	6	6	2	2
Strategic Partnerships for adult education (KA226)	1	0	1	0

I understand and agree that the National Agency can use the information it has about my organisation's previous participation to assess my organisation's capacity to implement activities under this application.

Lietuvos aukstoji jureivystes mokykla (E10108901 - Lithuania)

Partner organisation details

Legal name	Lietuvos aukstoji jureivystes mokykla
Country	Lithuania
Region	
City	Klaipeda
Website	http://www.lajm.lt
Profile	

Background and experience

Type of Organisation

Please briefly present the organisation/group (e.g. its type, scope of work, areas of activity and if applicable, approximate number of paid/unpaid staff, learners and members of the group).

Higher education institution (tertiary level)

Lithuanian Maritime Academy (LMA) is an accredited public institution of professional higher education training highly qualified seafarers and other specialists for the maritime industry. LMA operates according to the Lithuanian law of science and higher education, undertaking the mission to educate and train seafarers and maritime business specialists. LMA was established as a Lithuanian Maritime school in 1948. Its present value being certified by the Lithuanian Centre for Quality Assessment in Higher Education (SKVC) with highest level of trust, and by different national and international bodies as high quality academic institution (e.g. EMSA, U-Multirank, Lithuanian transport safety administration, Ranking (Reitingai, Lithuania), etc.). LMA is certified since 2001 in its Quality Management System comprising seafarers' training and professional development by Lloyd's Register Quality Assurance Lietuva according to the requirements of ISO 9001:2015 standard. LMA providing 6 study programmes on first cycle level: Marine Navigation (qualification of professional bachelor in Marine technologies, Marine Navigator), Marine Power Plant Operation (qualification of professional bachelor in Marine engineering, Marine engineer), Marine Electrical Power Plant Operation (qualification of professional bachelor in Marine engineering, Marine electrical engineer), Maritime Transport Logistics Technologies (qualification professional bachelor in Marine technologies), Port and Shipping Finance (qualification of professional bachelor in finance), Port and Shipping Management (qualification of professional bachelor in management). All educational programs are acredited by the Lithuanian Centre for Quality Assessment in Higher Education (SKVC). LMA providing academic and specialized staff and a rich operational endowment, consisting in classes, integrated laboratories, simulators or educational on-line resources and platforms. As academic facilities LMA has more than 15 simulators, 10 laboratories, workshop for metal works for practical training, facilities for physical and psychological training, offices and specialized rooms with appropriate modern equipment, a Seafarers Training Center, IT Center, and also a modern sport hall. LMA counting an average number of 1000 students and 65 teaching staff core. LMA providing more 30 units accredited seafarers training courses for more than 3 000 seafarers per year. The research and development activity in LMA are carried out in compliance with the general EU and national framework, covering a wide range of subjects, in field of marine technologies and engineering, shipping and port industry. Average of scientifical production of staff per year is aprx. 45 scientifical publications, published in national and international data bases. LMA has been granted both with national funds (under EU investment in Lithuania plans or Sectorial initiatives) and European funds, under ESF, Interreg Programme, EU Twinnings programme etc., where LMA has been involved as project leader or project partner. Developing such training and research facitilies for maritime industry LMA has become a relevant educational institution in Europa and in Baltic states, availing its services in applied research programs for shipping and port industry. Counting on its laboratories, simulatators and training centers as on its valuable human resources, LMA is ready and capable to contribute in inovation and scientific research in different areas of knowledge defined by the maritime industry.

What are the activities and experience of the organisation in the areas relevant for this project? What are the skills and/or expertise of key persons involved in this project?

LMA has decided to participate in this project aiming to build a stronger connected and enhanced informed community of maritime education and training institutions, where the harmonization of the curriculum and the exchange of good teaching practices. LMA is fully engaged in enlarging its training and research capabilities, accessing a wider facilities network within the proposed consortium, being compatible with the partners' simulation resources. This alignment of simulation training and research facilities could increase the level of research activities and provide a better integration of the European maritime education entities with STCW requirements, adding a great value to the competitive status of the network members and a much better insertion of the graduates on the maritime labour market. For students a greater access to international learning resources cumulated to the possibility of traveling within the virtual academic space, could improve significantly their future professional profile as graduates, well adapted to the international, multicultural and globally changing environment. LMA is aiming to contribute with its expertise, knowledge and good practices to a qualitative enhancement of the educational processes within the network, as a major added value for the consortium. LMA has expertise in building such networks as project leader or coordinator, being involved in similar projects, as EU Twinning project "Improvement of maritime safety regarding handling of dangerous goods at ports and coastal facilities in Turkey", No. TR 11 IB TR 02; Interreg V-A Latvia - Lithuania Programme 2014-2020 "LLI-24 LitLatHV Enhancement of the mobility and employability of Lithuanian and Latvian specialists in the field of electrical engineering and high voltage technologies" (LitLatHV) and "LLI-42 Improvement of workforce mobility and skills in Latvian-Lithuanian maritime transport sector" (LatLitNaviPort), 2020-2022 Erasmus+ programmme KA2 Cooperation for innovation and the exchange of good practices "Strategic partnership for supporting Blue Growth by enhancing Maritime HigherEducation maritime cooperation framework on marine pollution and environment protection field" (Blue4Seas), "Simulation of Sea Accidents for Effective Responses" (SeaSAFER) etc.



	As Applicant		As Partner or Consortium Member	
Action Type	Number of project applications	Number of granted projects	Number of project applications	Number of granted projects
Higher education student and staff mobility (KA103 OLD)	1	1	0	0
Adult education staff mobility (KA104)	1	0	0	0
Strategic Partnerships for vocational education and training (KA202)	1	0	4	1
Strategic Partnerships for higher education (KA203)	0	0	7	1
Higher education student and staff mobility between Programme and Partner countries (KA107)	5	5	0	0
Higher education student and staff mobility within programme countries (KA103)	6	6	0	0
Strategic Partnerships for adult education (KA226)	1	1	2	1

I understand and agree that the National Agency can use the information it has about my organisation's previous participation to assess my organisation's capacity to implement activities under this application.

Project Description

Priorities and Topics

Please select the most relevant horizontal or sectoral priority according to the objectives of your project.

VET: Improving quality assurance in vocational education and training.

If relevant, please select additional priorities according to the objectives of your project.

HORIZONTAL: Addressing digital transformation through development of digital readiness, resilience and capacity HE: Supporting digital capabilities of the higher education sector

Please explain how your chosen priorities relate to the aims and objectives of your project.

The MARS-NET project is focused on building an efficient and effective educational network including a relevant pool of partners and beneficiaries, with regional soundness, within which the simulation facilities are sought to be valued by adopting innovative teaching and learning practices, toward a progressive digitization of maritime higher education system. The maritime shipping industry use to be one of the most dynamic economic sectors, due to the constant changes of its development needs, both technologically, but also regarding the human resources skills and abilities. Consequently, the education and training of maritime officers has to follow closely the industry's trends in order to be updated with the newest competencies required by the development of maritime transportation technologies, the digitization being one of the most important resources to be valued in the perspective of a modern and adaptive learning system development. Apart from being up-to-date, maritime education and training (MET) is highly standardized because of the global nature of the related professions. The International Maritime Organization (IMO) enforced in the field of MET a convention called Standards for Training, Certification and Watchkeeping Convention and Code (STCW 95), that lists the common competencies of all maritime officers and the necessary topics to be learned by the students in order for them to be licensed as seaworthy officers. Therefore, the maritime officers are educated and trained in maritime universities and the specific curriculum carried out in these establishments have sought also to comply with the Bologna higher education requirements and their related guality standards. Thus, a tertiary level curriculum for a maritime officer (either in the domain of Navigation or Electromechanics) contains academic and vocational topics that meet the STCW requirements. That is why the European higher education study programs for maritime officers share a high degree of compatibility of the topics studied, due both to the STCW requirements and the European Higher Education Area's common practices. The digitization process will continue our efforts in harmonization of common curriculum among the partners, valuing the principles of learning by doing philosophy in maritime education and training system, based on a network of simulators, inter-connected, with a high potential not only in education, but also in research. This network could bring an additional value in internationalization efforts aimed by the partners, being a strong pillar of further strategic directions in developing a virtual e-campus among the partners, with a larger pool of beneficiaries. The education and research simulating network proposal is continuing in fact the previously implemented projects among the partners, as MARINE (Maritime network of education for the development of the maritime culture in the Black Sea basin, CBC Ro-Bg) and DECOMAR (Development of Common Curricula Modules for Merchant Marine Officers, Project No: 2014-1- RO01-KA203-002916). In these projects, the same partners have created a functional network of a common curriculum designed for maritime courses in area of Navigation and Mechanical Engineering. As a second step, implementing a full e-campus of digital resources based on a simulators network availability among the partners, could successfully complete the European universities strategy in maritime education and training system reform and reshaping, making possible a significant hike in quality and efficiency, where the academic facilities to be commonly used and valued, for the sake of a larger academic community. Moreover, other objectives are aimed for getting competitive advantages from the good practices exchange and knowledge sharing within the network, in regard of improving the didactic skills and simulation learning methods, for an updated alignment to the new tendencies in academic environment of the European Union.

Please select up to three topics addressed by your project

Digital skills and competences

New learning and teaching methods and approaches

Project Description

Please explain the context and the concrete objectives of your project.

The purpose of this project is to lay the foundations for a digital training facilities network, mutually developed,

implemented and promoted by the partners, in order to meet the needs of all the stakeholders including students, trainers, industry and society, in parallel with the changing circumstances and expectations of the modern world from the maritime education sector. In detail, the major aim of the project is to develop a harmonized framework for teaching and research practices within the European Maritime Education System, exchanging training expertise in learning by simulation methods, with an emphasis on valuing the regional partners potential for education and research, using the simulator facilities and digital learning resources. The framework should promote the knowledge transfer between the aimed regions, seeking to build a knowledge "bridge" between the Black Sea and Baltic Sea areas of education and training, following up previous implemented projects of the partners. This effort in complying with the STCW 95 requirements and with the +European Higher Education Area imperatives in regard of future competitiveness, bringing the teaching nd learning strategies on a new updated level of digitization. Moreover, the project seeks to promote not only a common, inter-regional framework in simulation learning system in maritime education, but also to value the potential of developing practical abilities of the graduates, in order to stimulate their insertion in the maritime international labour market. By this project, the partners will be granted with access to a larger base of educational resources and training facilities in order to share the networking expertise alongside the European space, increasing their competitiveness as international MET providers. On the other perspective, considering the great potential offered by the new educational technologies and facilities, the project aims at bringing the teaching methods in the new era of digitization, building new and innovative video tutorials and digital learning materials for simulator facilities, to offer full access in time and space for educational processes. In case of the targeted maritime students, blended learning methods and the digital tools will be applied, for enhancing the independence and autonomy of the students, for carrying out the learning process both in the classrooms but also onboard commercial vessels for cadetship. The partners will contribute in this direction, offering to build a simulating facility network for education and research, where each institution will get access to the other partners simulating facilities and teaching practices for specific course of: ship handling and manoeuvrings, engine room operation, cargo handling, search and rescue or naval communications. The target group will consist of students, teachers, researchers and other stakeholders as partner universities, naval and port operators, R&D institutions or international bodies (IMO, EMSA, IAMU). The academic community to which the project is addressing is counting more than 15.000 persons, out of which approx. 10.000 students from partner universities. In addition to the academic community directly targeted by the project, an additional consistent number of academic institutions will be aligned as main beneficiaries, being selected from the partners' Erasmus+ traditional partners of the involved institutions. The project will be conducted trans-nationally into a very efficient manner, mainly because of the significant experience and strong bonds developed among the partners alongside the previous common projects, the importance of the international impact being owed to the international characteristics of the maritime sector in the business area and also in the academic side. Without its transnational dimension, the project will not be able to produce and to spread a consistent added value among the partners network and stakeholders.

How will the project meet the needs of your partnership and those of the target groups?

The project objectives are related to several of the previous projects implemented in the last 5 years, among the nominated partner universities, being an important step forward, because of its strategic orientation toward the new technologies used in education, seeking to value the research and development potential of the partner universities in maritime education and training system by using the simulation facilities on common basis, together with the new concept of using the simulators for scientific research, on tailored demand addressed by the maritime companies. In fact, the partnership among the universities had started in 2013 with MARINE project (Maritime network of education for the development of the maritime culture in the Black Sea basin, CBC Ro- Bg) when the network has been initiated and built. The cooperation has continued in field of curriculum development with DECOMAR project (Development of Common Curricula Modules for Merchant Marine Officers, Erasmus+ Project No: 2014-1-RO01-KA203-002916) and has been revived by MENTORESS project (Maritime Education Network to Orient and Retain Women for Efficient Seagoing Services, Erasmus+ Project No: 2017-1-TR01-KA203-045739), where the diversity management has been valued within the developed network. In addition to these common experiences, is important to mention that all the partners are already conducting exchanges within the network, under Erasmus+ project, KA103, for teachers and students, this project being designed to stimulate the cooperation among the universities, but using the hi-tech resources and facilities on a harmonized manner. Due to our history in cooperation, the inter-institutional teams are working very close, timely and rigorously harmonized. Several prestigious companies acting in field of maritime business, have offered their interest and have opted already for a further involvement in the initiative, as following: CMA-CGM International (France), Maersk Line (Singapore), Maersk Tankers (Singapore), Capital Management (Greece), Carisbrooke Shipping Itd (UK), Berhard

Shulte GmbH (Germany), Doehle Ltd. (Germany), Mediterranean Car-Carriers Line (Greece), Zodiac Maritime (UK). Partners have developed relations with all the nominated companies, implementing the cadetship programme under Erasmus+ programme (with an average of 140 students/year). In this perspective, the project result will contribute not only to the HEI development, learning system digitalization and to the teaching system improvement but also to the enhancement of graduates' insertion in the maritime jobs market, where the competencies, abilities and final skills are connected to the real needs express by the economic environment. If approved, by the project budget, an e-learning resource platform will be implemented, as common network to digitize the teaching/learning processes, contributing for implementing the next processes: - virtual reality: permits to implement media support to help teachers to deliver immersive learning experiences that allow learners to navigate near real-life situations in a risk-free environment based on project complex scenarios developed on simulators; -interactive videos: play to learn – allow to record the computer screen or further, the simulator projecting rooms or bring in YouTube videos, add questions and interactive elements and publish to HTML5, helping to create video learning modules for increased learner retention; -responsive eLearning: learning that moves for learners who move – permit the usage of the newly enhanced fully responsive eLearning content that works across all devices and browsers, built on simulation scenarios. It will be used also to convert legacy desktop courses to mobile learning for a mobile learning policy.

Outline the benefits of cooperating with transnational partners to achieve the project objectives.

By transnational participation, an updated and strong network of training facilities could be developed, where common basis for learning by simulation will be offered in joint by the partners, for the gain of all stakeholders, students, trainers and industry representatives. New training methods can be exchanged, helping the partners to identify the most suitable methods for overcoming the pandemic effects and not only, but stimulating the learning autonomy and learning by simulation strategies using digitization techniques. Each partner has different facilities and the network will offer the opportunity to access a larger pool of training simulators, gaining additional competitiveness in partnership. Not in the last, the international standards are due to enforce the learning by simulation methods, that can be enlarged and diversified using on commonly basis, a more diverse pool of simulators for navigation, engine room, communication, ship and cargo handling. The project development will consist in 4 major implementing directions, that could be synthesized as following: a.Learning materials updating and harmonization - the universities will share teaching and learning materials for common curriculum designed on the basis of previous common projects (i.e. DECOMAR project under Erasmus+ KA2), using the digital resources and the online platforms, in order to contribute to a virtual campus development and implementation, in fully agreement with the expressed directions under European Universities call; b. Teaching innovation development - the partners will look forward to improve the teaching skills of the faculties, to develop tutorials for simulators classes improving the digital learning environment, to implement common teaching outlines for teachers, to improve the evaluation methods on simulators, to improve the class leadership abilities and to implement a good practices network policy, using the simulator facilities in joint; c. Scientific research to value the learning by simulation facilities - the partner universities will determine the major directions in research where the simulators could be used, especially in area of coastal management, software development and human resources studies, coming to meet the economic environment need and to get effective benefits from the complex simulator facilities, very expensive financially, but not intensively used so far; d. Virtual and residential exchange programs for teachers and students to develop the project outputs and to implement the usage of new training technologies within the shared network facilities.

What outcomes, including project results when relevant, are expected during the project and on its completion?

The partners will conduct specific activities to produce 5 wider intellectual outputs, defined under a quantitative perspective as following: - O1: "Building the updated pool of competencies for maritime education to improve the value of simulating facilities in maritime education" (PRU) - 10 curriculum subjects to be harmonized - initiation phase of the project; - O2: "Digital media tools to enhance the simulating teaching efficiency in maritime education" (PNA) - where the guidance framework will be issued, together with the summary design of most 5 relevant courses in which simulation facilities and majorly used, further selected for a "digital" detailed preparation - Ship Handling and Manoeuvring, Navigational Watchkeeping, Radar Navigation, Engine Room Watchkeeping and Cargo handling courses - intermediary layout phase of the project; - O3: "Virtual digital campus for teachers, researchers and students" (MBNA) - for connecting the academic community to create the facility of sharing the didactic materials and video tutorials for simulating learning environment courses and classes – also the dual education system will be encouraging for cadets onboard the ships - the integrative phase of the project; - O4: "Joint scientific research partnership for building a more efficient and effective teaching and learning environment based on simulation facilities" (NVNA) - 4 research studies on simulating environment efficiency and effectiveness and 1 study about the higher valorisation of simulation facilities to be delivered in support of

digitization processes - analytic phase in support of project sustainability; - O5: "Virtual webinars tools to enhance the digitization of learning materials in Maritime Higher Education" (LMA) - students and teachers will be virtually enrolled in digital classes, to support the developing of the digital content materials, where online monitored web-seminars will be recorded to be further used in the joint network, as final digital resources, available for partners - the project implementation phase. For learning and teaching areas, the partner universities will organize and conduct 5 courses and training modules, in area of teaching improvement, learning by simulation methods, class leadership, digital learning resources development and implementation, student's assessment methods and procedures in simulation exercises, scenario development. On this respect, 50 teachers and 300 students will take direct benefits from physical and virtual mobility programmes and more than 8000 students and 100 teachers will get indirect benefits from course resources sharing practices within the network - the project implementation phase. To disseminate its outputs and results, the partner universities will organize 5 conferences and 5 transnational meetings and workshops, where, besides the project management issues, particular aspects of the didactic and research network development and implementation will be established and disseminated. For a good cooperation and effective communication, the steering committee shall meet 5 times, on the opportunity of the workshops and conference appointments and whenever is necessary by established interinstitutional video-conference system.

In what way is the project innovative and/or complementary to other projects already carried out by the participating organisations?

The project objectives are related to several of the previous projects implemented in the last 5 years, among the nominated partner universities, being an important step forward, because of its strategic orientation toward the new technologies used in education and training, seeks to value the joint development potential of the partner universities in maritime education and training system by using the simulation facilities on common basis, together with the new concept of using the simulators for scientific research, on tailored demand addressed by the maritime companies. In fact, the partnership among the universities had started in 2013 with MARINE project (Maritime network of education for the development of the maritime culture in the Black Sea basin, CBC Ro- Bg) when the network has been initiated and built. The cooperation has continued in field of curriculum development with DECOMAR project (Development of Common Curricula Modules for Merchant Marine Officers, Erasmus+ Project No: 2014-1-RO01-KA203-002916) and has been revived by MENTORESS project (Maritime Education Network to Orient and Retain Women for Efficient Seagoing Services, Erasmus+ Project No: 2017-1-TR01-KA203-045739), where the diversity management has been valued within the developed network. In addition to these common experiences, is important to mention that all the partners are already conducting exchanges within the network, under Erasmus+ project, KA103, for teachers and students, this project being designed to stimulate the cooperation among the universities, but using the hi-tech resources and facilities on a harmonized manner. Due to our history in cooperation, the inter-institutional teams are working very close, timely and rigorously harmonized. Several prestigious companies acting in field of maritime business, have offered their interest and have opted already for a further involvement in the initiative, as following: CMA-CGM International (France), Maersk Line (Singapore), Maersk Tankers (Singapore), Capital Management (Greece), Carisbrooke Shipping Itd (UK), Berhard Shulte GmbH (Germany), Doehle Ltd. (Germany), Mediterranean Car-Carriers Line (Greece), Zodiac Maritime (UK). Partners have developed relations with all the nominated companies, implementing the cadetship programme under Erasmus+ programme (with an average of 140 students/year). In this perspective, the project result will contribute not only to the HEI development, learning system digitalization and to the teaching system improvement but also to the enhancement of graduates' insertion in the maritime jobs market, where the competencies, abilities and final skills are connected to the real needs express by the economic environment. If approved, by the project budget, an e-learning resource platform will be implemented, as common network to digitize the training/learning processes, seeking to implement the next processes: -virtual reality: by implementing media support to help teachers to deliver immersive learning experiences that allow learners to navigate near real-life situations in a risk-free environment based on project complex scenarios developed on simulators; -interactive videos: play to learn - by recording the computer screen or further, the simulator projecting rooms or bring in YouTube videos, add questions and interactive elements and publish to HTML5, helping to create video learning modules for increased learner retention; -responsive eLearning: by using the newly enhanced fully responsive eLearning content that works across all devices and browsers, built on simulation scenarios. It will be used also to convert legacy desktop courses to mobile learning for a mobile learning policy. -power point to mobile learning: by developing power point slides into interactive eLearning format, offering access to free eLearning assets, characters, themes, quizzes and more, to deliver learning content.

How did you choose the project partners and what will they bring to the project? Does it involve organisations that have

never previously been involved in a EU-funded partnership project?

The project partners have been selected considering the common experiences gained alongside the jointly implemented projects, but also the curriculum compatibility in area of maritime education and training and the facility technical parameters. Prior to the selection process a review of institutional facilities had been carried out, with a consistent checking of the simulators' compatibility, efficiency and effectiveness in networking environment. Also, the e-campus has been implemented (www.marplat.eu), being ready to host the project objective implementation and the settlement of the virtual e- campus. Four of the existing partners were involved in the above nominated projects, but in order to enlarge the pool of direct beneficiaries on this new proposal, a new university has been called to join, namely Lithuanian Maritime Academy, from Lithuania. This universities has implemented European projects as well, having an extensive experience in Strategic Partnerships projects. Considering also the common exchanges settled among all the partners on regular basis, the consortium is ready and well prepared to transfer knowledge and to offer support for the new comers integration into the network. Moreover, on the partner's selection process the regional soundness has been considered, as the similarities from Baltic to Black Sea regions, the compatibility of the HEI in European maritime education and training being an important asset in the decision-making process. The common interest of all involved partners is to preserve the competitive level of the education processes, in compliance with STCW standards, this proposed network providing an additional value to the quality standards of the partners in relation with the maritime business environment and with the IMO standards. In terms of institutional contribution to the project, beside the proved compatibility with the designed network and its objectives, each university has the specific technical requirements, imposed by the learning by simulating imperatives, providing the students with a rich range of virtual machines: bridge simulator, engine room simulator, cargo handling simulator, ship handling simulator and GMDSS simulator. The implementation level on simulating environment is different each university to another, that fact making valuable the good practices sharing among the partners. In addition to this, several universities will make available other simulators, on remote networking model, making possible the connected remote simulation in: coastal management (NVNA), environment and pollution risks on PISCES II (MBNA, PNA, NVNA), high voltage (NVNA, PNA, MBNA), cyber defence (NVNA, PNA, PRU), refeer management (MBNA), ITcom (LMA). All these facilities, even on distance, shall be used and valued on common basis. On the other hand, the universities have the ability to look for research applications of this simulators, testing the potential of HR studies, fluid studies, structures' studies or risk management studies. Moreover, all partners are already employing high-level technologies of teaching and learning. Modern ICT equipment is proved by their laboratories, simulators, distance-learning networks, study facilities and the hardware on board the training ships, which are responding to the latest needs of the maritime industry. All these ICT means allow also a smooth communication between the partners' team members and will make very feasible the physical and the virtual exchanges of teachers and students involved in the common modules. Many of the facilities were installed at the request of the shipping companies or by their support. showing the partners' permanent interest in providing the proper competencies to their graduates for a better insertion on the labor market. Another new feature of the MARS-NET project is the solid capacity of all partners to respond effectively to the ever-changing maritime industry's requirements.

If relevant, please identify and explain the involvement of associated partners, not formally participating in the project. Please explain how they will contribute to the implementation of specific project tasks/activities or support the sharing of project results and the sustainability of the project.

Beside the formal participating partners, other institutions and companies will be involved to enhance the project impact and effect, on all its dimensions on scientific, academic, economic and social perspectives. Therefore, in order to enlarge the project impact and the dissemination pool of project results, a consistent number of universities will align as main beneficiaries to provide the sustainability of the project, as following: BSAMI (Black sea Association of Maritime Institutions Chaired by PRU: 9 universities and CPMR - Conference on Peripheral Maritime Regions/France), Odessa National Maritime University (Ukraine), University of Montenegro (Montenegro), University of Split (Croatia), University of Ljubljana (Slovenia) and French Maritime Academy (France). These universities will be invited to participate in the project conferences and also will get full access to the virtual e-campus as external users (course access on www.marplat.eu). On the other hand, several prestigious companies, acting in field of maritime business, have expressed their interest for a further involvement in the initiative, being interested to participate in project events, in our research efforts and also in the course simulation testing procedures aiming to contribute for an improvement of simulation exercises and for updating the personnel evaluation methods, following up the onboard performance. Nonetheless, the scientific research has been claimed in its importance by the maritime companies themselves aligning to the project proposal, addressing a prospective demand for research studies on different issues, as identified onboard the commercial vessels (i.e. CMA- CGM and Maersk Moller have asked for particular studies in the HR performance onboard the ships, valuing the simulators' network). All the partners will join the network providing their support in good practices exchange and connecting their facilities into an e-campus where the digital resources to be available for the joint academic community. Different scenarios on different simulators for ship handling, engine room management and cargo handling will be recorded by the selected teams and will be made available within the network to allow the students participation on distance, for simulation learning system. Also, the teachers will be instructed on harmonized basis, to use all the facilities in the network, stimulating the compatibility of the teaching methods among the partners and stimulating the exchanges between the respective involved universities. The network will be further used to set up a research framework in partnership, using the simulation as very promising environment for qualitative and quantitative research studies in HR, risk management, bridge team management, environmental issues or other identified subjects. The partners will make available gualified scientific teams to involve interested companies in this project, conceiving the opportunity as a synergistic force to bring together the academic sector, aside to the research dimension and the maritime economic sector. The partners intend to allow students from partners university to be involved in O5, participating to the virtual recorded classes and seminars. Overall, the associated partners will be involved in all foreseen activities, as following: -O1- initiation phase of the project - by providing information and their feed-back on final results; - O2 - intermediary layout phase of the project - by providing support for testing the digital format; - O3 - integrative phase of the project - granted access to the virtual campus to enlarge the dissemination; - O4 - analytic phase in support of project sustainability; - O5 project implementation phase - associated partners will definitely contribute to the "project scaling" process - they will be connected to the e-campus and will have access on the uploaded digital resources, participating to the joint effort in setting up the virtual exchanges program.

Participants

Please briefly describe how you will select and involve participants (e.g. learners, staff, etc.) in the different activities of your project.

In the general framework of the project, all partners have been awarded with Erasmus+ Charter for the 2014-2021 period and will apply for the ECHE 2021 as well. In case of a successful result of the MARS-NET application, preparations between the coordinator and the National Agency for signing the grant contract will start at the time. Once the contract initiated, all the partners will commence the selections of their national teams, as stated in the prior stage of application draft, recalling to provide the required expertise. Each team will consist in a project coordinator, an international relation officer and implementation experts on different project activities. The project coordinator is already nominated by this application and the international relations expert will be the first specialists assigned after application submission, to be able to coordinate the initial preparation at the stage of prior approval. Until the contract is signed, the partner teams will review together the project management steps, described in the preliminary Gantt chart (the timeline of the activities and results). Much attention will be paid to the physical joint activities in order to plan it into an efficient and effective way, in terms of results, target groups and impact measurement, in gualitative and guantitative perspectives. The detailed work plan, the communication plan, the risk management plan and the dissemination plan will be further elaborated by the nominated teams and approved in the first kick-off meeting. Dissemination of the Erasmus+ KA2 project's aims, funded by the European Commission, will also begin in 5 partner countries together at the time. These preliminary preparations are to be done not later than September 1st, 2020. For O5, the participants will be selected by the Erasmus+ offices on current recruitment procedures, covering all implemented courses. If more participants will apply, then the testing databasis will be enlarged. For conferences, the preliminary programme will be disseminated among the partners and the list of participants will be decided according to the proposal advanced by the organizing university considering the international experts, the partner universities members and European business community representatives.

Participants with fewer opportunities: does your project involve participants facing situations that make their participation more difficult?

Yes

How many participants would fall into this category?

400

Which types of situations are these participants facing?

Cultural differences

Geographical obstacles

Educational difficulties

How will you support these participants so that they will fully engage in all phases of the planned activities (including selection, preparation and follow-up)?

The targeted students are the cadets taking the cadetship programs onboard the commercial ships, for a period of 12 months (IMO requirements) - more than 100 students/year are enrolled on this programs from each partner university. During this period the students are in difficulty of accessing the educational resources, being in a gap of education and in full disadvantage comparing with the classic education system attendees. In order to stimulate the dual education system is compulsory to start digitizing the practical courses as well, like the targeted ones, carried on ship simulators (for bridge, engine or cargo handling). Also the digital resources could open the way of helping the tertiaty education attendees, helping the seafarers on different professional level to get access to updated training resources.

Please describe briefly how and in which activities these persons will be involved.

The students will be involved in testing the digital materials onboard the ships, within O5 activities. Also, they could support the digital material improvement offering their suggestions and feed-back on different operations on deck and engine procedures, for ship or cargo handling, accessing the O3 results.
Preparation

Please describe what will be done in preparation by your organisation/group and by your partners/group before the actual project activities take place, e.g. administrative arrangements, communication about the activities, selection of the persons, coaches, involvement of stakeholders, etc.

All partners have been awarded with Erasmus+ Charter for the 2014-2021 financial period. In case the MARS-NET application will be successful and preparations between the coordinator and the National Agency for signing the grant contract will start, all partners will commence the selections of their national teams - these teams have been already configured in the application phase, but have to be approved by each University Board upon the approval. The project coordinator has been nominated on the application form and he carried out the project proposal drafting, working with the selected team. Until the contract is signed, the partner teams will review together the project management steps described in the preliminary Gantt chart (the timeline of the activities, milestones, objectives and results). The international relations experts will be the first assigned to coordinate the initial preparation. Much attention will be paid to the physical joint activities in order to plan them in an effective way in terms of results, target groups and impact on the educational process. The detailed work plan, the communication plan and the dissemination plan will be elaborated. Dissemination of the Erasmus+ KA2 project's aims, funded by the European Commission, will also begin in 5 partner countries as in all further applications. These preliminary preparations are to be done not later than 3 days after project approval formalities. In the prior phase of project design and preparation, a radiography of the simulators facilities in each partner university will be conducted, based on the form issued by the applicant (bridge simulators, engine simulators, cargo handling simulators, communication simulators). The MBNA team will disseminate the available information and will keep it transparent for the partners via www.marplat.eu platform, as developed under DECOMAR project. Also, weekly video-conferences meetings will be organized among the partners under the coordination of Lead partner for preparation phase. The prerequisite agreed system is BigBlueButtonBN as an open source, implemented under MOODLE as plugin directory, as VTC agreed environment. The hosting servers will be provided by the Lead partner. We will avail on "Blue 4 Seas" KA203 project under implementation among the partners to meet in the administrative formula for additional application formalities and information exchanges whenever will be necessary to set up the project framework. The communication will be assured in the application phase by the responsible nominated experts involved in application process, as nominated on participant organization file description. The application team will meat via BBBbn in videoconference and also they will exchange drafts by email. The leading partner will design the project proposal draft, permanently exchanging

Management

Funds for Project Management and Implementation

Funds for "Project Management and Implementation" are provided to all Cooperation Partnerships based on the number of participating organisations and the duration of the project. The purpose of these funds is to cover diverse expenses that any project may incur, such as planning, communication between partners, small-scale project materials, virtual cooperation, local project activities, promotion, sharing of project results and other similar activities not covered by other types of funding.

A partnership may receive a maximum of 2750 EUR of "Project Management and Implementation" grant per month.

Organisation role	Grant per organisation and per month	Number of organisations	Grant
Coordinator	500	1	12 000
Partner	250	4	24 000
Total		5	36 000

Please provide detailed information about the project activities that you will carry out with the support of the grant requested under the item "Project Management and Implementation"

The detailed plan and budget of the Project was elaborated in accordance with the Erasmus+ Program Guide, Part B -Strategic Partnerships in the field of education, training and youth, pages 107-124 and the Corrigendum to the 2020 Erasmus+ Program Guide. The project is mainly focused on building an efficient and effective educational network among a large pool of partners, with regional soundness, to value the simulation facilities for adopting innovative teaching and learning practices, as a definitive step toward the digitization of maritime higher education system. Subsequently, other objectives are aimed as to get competitive advantages from the good practices exchange and knowledge sharing within the network, in regard of improving the teaching skills and simulation learning methods, in respect of an updated alignment to the new tendencies in education and training processes around the European Union, providing a solid support for excellence in teaching and skills development processes. In this respect, the partners will conduct specific activities to produce 5 wider intellectual outputs, defined under a quantitative perspective (i.e. work days for manpower on categories of personnel), as following: - O1: "Building the updated pool of competencies for maritime education to improve the value of simulating facilities in maritime education": 10 course syllabuses to be harmonized to value the simulation learning methods on hard and soft skills requirements, in order to align the MET curriculum to the newest STCW standards in order to prepare a virtual exchange program for students and teachers; - O2: "Digital media tools to enhance the simulating teaching efficiency in maritime education" - following up the O1 fulfillment, O2 has been conceived as an intermediary layout phase of the project, where the guidance framework will be issued, together with the summary design of most 5 relevant courses in which simulation facilities are majorly used, further selected for a "digitization" detailed preparation. Additionally, an evaluation methodology will be conceived; - O3: "Virtual digital campus for teachers, researchers and students" - this objective O3 represents the integrative phase of the project, conceived for connecting the academic community, students and teachers, to create and to access the virtual network developed as a "virtual campus" for sharing the didactic materials and the digital resources, for simulating learning environment courses and classes, as pre-determined and developed in O1 and O2 (www.marplat.eu); - O4: "Joint scientific research partnership for building a more efficient and effective teaching and learning environment based on simulation facilities" the O4 objective has been conceived as an analytic phase in support of project sustainability, to approach several problematic aspects regarding the learning by simulation techniques, very important to be approached within the topic of digitization of maritime higher education system, contributing to the technical solutions for integrating the simulator within an operational network, where the students can freely access the training resources, even from onboard the ships; - O5: "Virtual webinars tools to enhance the digitization of learning materials in Maritime Higher Education" - the objective O5 has been planned to be the project implementation phase, when an overall number of 250 students and 20 teachers will be virtually enrolled in digital classes, to support the developing of the digital content materials. The methodology of building the teaching materials drafted on O2 will be fulfilled, recording the online monitored web-seminars sessions, delivered in video-conference system, to the students from cadetship or from different campuses. As final result, the project stakeholders will benefit from a new network of training and simulating facilities in support of an improved training environment, where digitization to be accordingly valued.



Transnational Project Meetings

Transnational project meetings: how often do you plan to meet, who will participate in those meetings, where will they take place and what will be the goal?

Along with MARS-NET project implementation, the partners' representatives have scheduled 5 project meetings, one per each guarter of project implementation. The transnational project meetings will take place in country of each organization, in the following order: Turkey, Poland, Romania, Bulgaria and Lithuania. Each partner will appoint 3 participants for each project meeting, counting 75 participants overall for all planned meetings (including here the host university representatives). The first meeting will be the kick-off meeting of the project, where the project management plan, timeline and milestones together with the major deliverable will be reviewed, approved and enforced on tasks and responsibilities. The objectives assigned for each transnational meeting are stated as following: - Transnational Meeting 1: PRU (Turkey, Istanbul): "Project management kick-off meeting" (e.g. implementation plan, work plan, timeline, milestones and outputs under analysis and evaluation) and 1st steering committee meeting – 3 participants from each partner/2 days; -Transnational Meeting 2: PNA (Poland, Gdynia): "Course models for Deck and Engine room watchkeeping courses" (e.g. the O2 activities and objectives shall be under analysis and evaluation) and 2nd steering committee meeting – 3 participants from each partner/2 days; - Transnational Meeting 3: MBNA (Romania, Constanta): "Comparative teaching/evaluation methods in simulation didactic activities" (e.g. the O2 and O4 activities and objectives shall be under analysis and evaluation) and 3rd steering committee meeting – 3 participants from each partner/2 days; - Transnational Meeting 4: NVNA (Bulgaria, Varna): "Learning resources digitalization" (e.g. O3 concluding remarks, O3 output analysis and O4 and O5 activities and objectives shall be under analysis and evaluation) and 4th steering committee meeting - 3 participants from each partner/2 days; -Transnational Meeting 5: LMA (Lithuania, Klaipeda): "Research potential in simulating facilities and virtual campus management" (e.g. O4 and O5 activities and objectives shall be under analysis and evaluation) - 3 participants from each partner/2 days. On transnational meetings each university shall appoint 3 participants, consisting in: the executive manager (alternatively, task responsible person) and 2 implementation experts for the respective activity. Each meeting will consist in 2 days workshop, excluding the travelling days (1 day implementation plan, results accounting, progress monitoring and administrative issues; 1 day - activity design, for each respective theme and objective). The meeting agenda will be drafted by the organizing university and will follow up the project objectives and the established themes. The conference arrangements (program, topics, paperworks) and leadership will be kept by the organizing partner under the coordination of Lead partner. The participants for transnational meetings will be communicated with a deadline of 30 days in advance, by application form launched by the organizing committee. The travel and hosting services for travelling participants will be assisted by the organizing partner, in compliance with Erasmus+ rules and procedures.

Please specify the funds requested to organise the planned transnational project meetings.

Meeting ID	Leading Organisation	Meeting Title	Country of Venue	Starting Period	N° of Participants	Grant
1	Academia Navala "Mircea cel Batran" (E10093117 - Romania)	Project Management-Kick-off Meeting	Romania	2021-11	12	6 900
2	AKADEMIA MARYNARKI WOJENNEJ (E10090628 - Poland)	Course Models for Deck and Engine Room Watchkeeping Courses	Poland	2021-11	12	6 900
3	T. C. Piri Reis Universitesi (E10105404 - Turkey)	Comparative teaching/evaluation methods in simulation didactic activities	Turkey	2021-11	12	6 900
4	Nikola Yonkov Vaptsarov Naval Academy	Learning and training resources digitalization	Bulgaria	2021-11	12	6 900



(E10108590 - Bulgaria)

5	Lietuvos aukstoji jureivystes mokykla (E10108901 Lithuania)	 Research potential in simulating facilities and virtual campus management 	Lithuania	2021-11	12	6 900
Total					60	34 500

Transnational Project Meetings Budget (1)

To estimate the distances between places, please use the European Commission's distance calculator:

https://ec.europa.eu/programmes/erasmus-plus/resources/distance-calculator_en

Sending Organisation	Country of the Sending Organisation	N° of Participants	Distance Band	Grant per participant	Grant
T. C. Piri Reis Universitesi (E10105404 - Turkey)	Turkey	3	100 - 1999 km	575	1 725
Nikola Yonkov Vaptsarov Naval Academy (E10108590 - Bulgaria)	Bulgaria	3	100 - 1999 km	575	1 725
AKADEMIA MARYNARKI WOJENNEJ (E10090628 - Poland)	Poland	3	100 - 1999 km	575	1 725
Lietuvos aukstoji jureivystes mokykla (E10108901 - Lithuania)	Lithuania	3	100 - 1999 km	575	1 725

Transnational Project Meetings Budget (2)

To estimate the distances between places, please use the European Commission's distance calculator:

https://ec.europa.eu/programmes/erasmus-plus/resources/distance-calculator_en

Sending Organisation	Country of the Sending Organisation	N° of Participants	Distance Band	Grant per participant	Grant
Academia Navala "Mircea cel Batran" (E10093117 - Romania)	Romania	3	100 - 1999 km	575	1 725
T. C. Piri Reis Universitesi (E10105404 - Turkey)	Turkey	3	100 - 1999 km	575	1 725
Nikola Yonkov Vaptsarov Naval Academy (E10108590 - Bulgaria)	Bulgaria	3	100 - 1999 km	575	1 725
Lietuvos aukstoji jureivystes mokykla (E10108901 - Lithuania)	Lithuania	3	100 - 1999 km	575	1 725

Transnational Project Meetings Budget (3)

To estimate the distances between places, please use the European Commission's distance calculator: https://ec.europa.eu/programmes/erasmus-plus/resources/distance-calculator_en

Sending Organisation	Country of the Sending Organisation	N° of Participants	Distance Band	Grant per participant	Grant
Academia Navala "Mircea cel Batran" (E10093117 - Romania)	Romania	3	100 - 1999 km	575	1 725



Nikola Yonkov Vaptsarov Naval Academy (E10108590 - Bulgaria)	Bulgaria	3	100 - 1999 km 575	1 725
AKADEMIA MARYNARKI WOJENNEJ (E10090628 - Poland)	Poland	3	100 - 1999 km 575	1 725
Lietuvos aukstoji jureivystes mokykla (E10108901 - Lithuania)	Lithuania	3	100 - 1999 km 575	1 725

Transnational Project Meetings Budget (4)

To estimate the distances between places, please use the European Commission's distance calculator: https://ec.europa.eu/programmes/erasmus-plus/resources/distance-calculator en

Sending Organisation	Country of the Sending Organisation	N° of Participants	Distance Band	Grant per participant	Grant
Academia Navala "Mircea cel Batran" (E10093117 - Romania)	Romania	3	100 - 1999 km	575	1 725
T. C. Piri Reis Universitesi (E10105404 - Turkey)	Turkey	3	100 - 1999 km	575	1 725
AKADEMIA MARYNARKI WOJENNEJ (E10090628 - Poland)	Poland	3	100 - 1999 km	575	1 725
Lietuvos aukstoji jureivystes mokykla (E10108901 - Lithuania)	Lithuania	3	100 - 1999 km	575	1 725

Transnational Project Meetings Budget (5)

To estimate the distances between places, please use the European Commission's distance calculator: <u>https://ec.europa.eu/programmes/erasmus-plus/resources/distance-calculator_en</u>

Sending Organisation	Country of the Sending Organisation	N° of Participants	Distance Band	Grant per participant	Grant
Academia Navala "Mircea cel Batran" (E10093117 - Romania)	Romania	3	100 - 1999 km	575	1 725
T. C. Piri Reis Universitesi (E10105404 - Turkey)	Turkey	3	100 - 1999 km	575	1 725
Nikola Yonkov Vaptsarov Naval Academy (E10108590 - Bulgaria)	Bulgaria	3	100 - 1999 km	575	1 725
AKADEMIA MARYNARKI WOJENNEJ (E10090628 - Poland)	Poland	3	100 - 1999 km	575	1 725

Project Management

How will you ensure proper budget control and time management in your project?

MARS-NET activities are organized accurately, following up the general Project Work Plan, that will encompass the intellectual outputs, the multiplier events and the learning/training/educational activities (as described below in section G), within a respective and agreed time frame. Also, the Project's Timetable (Gantt chart) uploaded with the present application represents the distribution of all activities in time, agreed among the partners. The body responsible for the overall management of the project is the Steering Committee, that will consist of the heads of the national teams and the financial expert of the coordinator as nominated by each University Board prior to the contract enclosure. The steering committee will be invested with the authority to command and control all aspects of the project work plan, time schedule, tasks and responsibilities distribution. The project coordination of all planned activities, events or exchanging seminars will be carried out by the applicant institution, Mircea cel Batran Naval Academy. For organizational purposes of a coherent and consistent application, the MARS-NET project coordinator has been appointed Associate Professor Dr. Alecu TOMA. He will guide the application processes and will keep the communication among the partners alive, consistent and accurate. Proper budget control and time management of the project will be ensured based on a detailed, accurate and clear project work plan, accompanied by a realistic timetable and through timely decisions adopted of the steering committee at the time of implementation respectively. Reporting among the partners and from the consortium up to the National Agency will be done in due time, in order to prevent the delays that can occur. MBNA will supervise the reporting system and a Project implementation plan, a Communication plan and a quality management plan will be issued for partners acknowledgement in the first month of implementation. As stated above, the national teams will have a complementary character, missions and responsibilities. The teams will comprise both experienced teachers and experts, that will design and carry out the activities, but also administrative staff for supporting the project administration and financial matters. From within the national teams the steering trans-national committee will be assembled. It will monitor, self-evaluate and take corrective actions during the whole implementation of the Action. In general, all the procedures of the project management will be applied, as the partners are well experienced in tackling such important endeavors. Regarding the budget control, a payment table will be issued and the reporting forms will be established by the leading institution.

Please describe the tasks and responsibilities of each partner organisation in the project.

The responsible partner is nominated in the project implementation plan, as following: - Piri Reis University (PRU) for O1: "Building the updated pool of competencies for maritime education to improve the value of simulating facilities in maritime education" - initiation phase of the project; - Polish Naval Academy (PNA) for O2: "Digital media tools to enhance the simulating teaching efficiency in maritime education" - intermediary layout phase of the project - the design of most 5 relevant courses will be distinctively assigned as following: Ship Handling and Manoeuvring - MBNA, Navigational Watchkeeping - PNA, Radar Navigation - NVNA, Engine Room Watchkeeping - PRU and Cargo handling courses - LMA - the project development phase; - Romanian Naval Academy (MBNA) for O3: "Virtual digital campus for teachers, researchers and students" - the integrative phase of the project; - Bulgarian Naval Academy (NVNA) for O4: "Joint scientific research partnership for building a more efficient and effective teaching and learning environment based on simulation facilities" - analytic phase in support of project sustainability: - Lithuanian Maritime Academy (LMA) for O5: "Virtual webinars tools to enhance the digitization of learning materials in Maritime Higher Education" - the project implementation phase. The learning/training activities organized to use and value the simulating facilities of the partners are assigned as following: - Romanian Naval Academy (MBNA) for C1 "Digital exercises on ship handling simulator exchange of good practices and building tutorial digital courses"; - Polish Naval Academy (PNA) for C2 "Digital exercises on engine room simulator - exchange of good practices and building tutorial digital courses"; - Lithuanian Maritime Academy (LMA) for C3 "Digital exercises on cargo handling simulator - exchange of good practices and building tutorial digital courses"; - Bulgarian Naval Academy (NVNA) for C4 "Watchkeeping course on bridge simulator for deck cadets blended training session on practice to virtual"; - Piri Reis University (PRU) for C5 "Watchkeeping course on engine room simulator for engine cadets - blended training session practice to virtual". In the project management plan, each partner shall organize a conference and a transnational meeting, to provide the participants with an equal access to the knowledge pool and to further assure a symmetric access to the administrative tools, granted with equal dissemination opportunities. Regarding the task operational management, each national team will appoint an international relations expert who'll be responsible for the cooperation and communication tasks that accompany every milestone's

accomplishment. Regarding the operational management on current objectives, each national team will assign its executive manager to monitor the tasks assignment and the targets achievement, according to the project implementation plan. The executive manager will delegate particular tasks to the team members, but preserving ultimately this responsibility. For dissemination and public information about the objectives, target groups and results of the project a PR expert will be assigned to each team to monitor and work on these matters. From the operational perspective each national team will have weekly meetings in order to assess the current results and to plan in detail the accomplishment of each activity generated from the project's master plan. Then, the national teams' opinions will be shared among the partners by the international relations experts. There will be also direct physical meetings of the teams during the planned workshops, intensive study programs and joint training events. the national teams' opinions will be shared among the partners by the international relations experts.

How will the progress, quality and achievement of project activities be monitored? What qualitative and quantitative indicators will you use to measure the quality of the project's results?

The guality of the project's activities and results will be ensured by the use of guality assurance procedures for projects, which are established according to each partner's quality management system, compliant with ISO 9001:2015 (i.e. each partner involved has prior implemented the QMS on institutional level with full international accreditation). Quantitative measures and expression of the results accounting shall be applied in respect of project transparency, accountability and efficient and legal implementation. These procedures include the structure of the specific management actions, the management of possible conflicts and crisis, assessment of the progress, performance indicators, internal evaluation procedures, monitoring and reporting means, etc. Monitoring and internal evaluation will be distributed to two levels: first, the national teams will be responsible for their individual tasks (or part of a larger activity) and secondly, the steering committee will assess the overall progress, with a respective follow up action plan. Monitoring of individual teams' activities will be done on a weekly basis. The progress of the entire project will be done monthly by the steering committee. Nevertheless, if some unexpected problems occurred, immediate corrective measures would be taken. Evaluation Processes, which are enhancement-oriented and focus on the strengths and weaknesses of a programme or an institution, usually resulting in recommendations for improvement. Accreditation approaches which evaluate whether a programme or an institution meets a certain standard, usually leading to a yes/no decision. Audits which focus on the assessment of the internal quality assurance system of an institution by underlining its strengths and weaknesses. The programs and institutions will be assessed separately. Program assessment will apply more content-based indicators while HEI assessments have a systemic approach and focus on internal quality management structures. Cost-efficiency indicators will be jointly used alongside the project implementation, based on the agreed indicators, expressed, calculated and interpreted as following: Participants' Satisfaction (Scale of 1-100) - reflect the grade of that participants' expectations are met. This requires a combination of conformity KPI to the established requirements, producing satisfaction and real needs fulfillment. It will be determined by the end of each mobility, based on online questionnaire, of which results will be quarterly analyzed by the steering committee. Students' Satisfaction Index is an index comprising hard measures of students' behavior and soft measures of students' opinions or feelings. Index is weighted based on how important each value is in determining students overall satisfaction. Includes measures such as unsatisfactory about administrative issues (30%), financing availability (15%), evaluations results (15%), supervisor evolution grade (20%), complaints rate (20%). Exchange access index that will be calculated as the average amount allocated for each participant in mobility program alongside one year (i.e. total amount spent for exchanges over the number of participants) offering a vivid image of the access index in terms of the intensity of mobilities total number of participants in exchanges. Mobility intensity ratio that will be calculated as the ration between the total number of participants in mobility programs over the total number of Alliance community members, offering a vivid image of the intensity of exchange program in relation with total number of participants in exchanges. Cost Performance Index, calculated as Earned Value/Actual Cost, as quarterly reported alongside the project implementation phases. Project Schedule Performance calculated as Earned Value/Planned Value, as quarterly reported by the institutional coordinators and by the work packages responsible experts.

Please give information about the involved staff, as well as the timing and frequency of the monitoring activities.

According to the established work plan, a logical framework of the MARS-NET activities will be elaborated. All activities, as described in section G - Implementation, will have a correspondent logical framework matrix in which the objectively verifiable indicators will be firmly established. As usual, the indicators will be specified in terms of quantity, quality, timing, target group and place (QQTTP). Also, the sources of verification for these indicators will rely on both internal quality audits and external assessment of the impact from the stakeholders/third parties. For example, considering one training

course organized in the project, the QQTTP performance indicators will be: how many students and teaching staff will participate; how well the learning outcomes are achieved (assessed by final tests); their duration and period (e.g. 5 days, last week of November); target group - the 3rd year students of the partners and the specialty teachers; place (e.g. Polish Naval Academy). The quality of the project's activities and results will be ensured by the use of quality assurance procedures for project, which will be established according to each partner's guality management system, compliant with ISO 9001:2015. These procedures include the structure of the specific management actions, the management of possible conflicts and crisis, assessment of the progress, performance indicators, internal evaluation procedures, monitoring and reporting means. Monitoring and internal evaluation will be distributed to two levels: first, the national teams will be responsible for their individual tasks (or part of a larger activity) and then the steering committee will assess the overall progress. Monitoring of individual teams' activities will be done on a weekly basis. The progress of the entire project will be done monthly by the steering committee. Nevertheless, if some unexpected problems occurred, immediate corrective measures will be taken. Quality assessment of activities will include: number of students trained, student assessment, number of modules with e-learning, number of module with project-based teaching method, flipped classroom activities. Each partner will involve the internal quality management structures to be part of the evaluation procedure, where specialized experts will support the quality management policy application and an objective quality assessment as described.

What are your plans for handling risks which could happen during the project (e.g. delays, budget, conflicts, etc.)?

MARS-NET activities are organized in a general Project Management Plan that encompasses the intellectual outputs, the multiplier events and the educational activities within a time frame, with a high respect for Risk Management, according to ISO 9001/2015 guality standards. Subsidiary to Management Plan, the Project's Timetable (Gantt chart), which represents the distribution of all activities in time will be closely monitored and revised/updated as required, including in respect for risk management. In this respect, the leading institutions, MBNA, will develop and implement upon the partners agreement, the Risk Management Plan, where the most important risk factors and their impact, will be identified and guantified, mentioning the action scenarios for project continuity assurance, the partner/responsible persons and the resources allocated. In case of delays, the leading partner will report the situation to the National Agency, with the respective proposal for rescheduling, canceling or switching in online version, if the case, when possible. In case of budget delays or payment incidents the responsible partner shall cover any waiving liability, with the prior notification of the leading partners and the National Agency. All the payment and accounting forms will be duly recorded and archived to the leading partners location. If any other conflicts arisen, then the Erasmus+ Guide Programme Rules shall be applied, with the prior respect of mutual litigation positive solving. The Steering Committee shall decide when a partner is not fulfilling its obligations, to dismiss it out from the project and to split the tasks among the remaining partners. All obligations and liabilities are due to be covered up to date by the responsible partners, according with the program rules and with the financial terms agreed in the financing contracts and partnership agreement. All parties have prior agreed upon this risk arrangements. The body responsible for the overall risk management of the project is a Steering Committee that will consist of the heads of the national teams and the financial and implementation experts of the leading partner. The steering committee will be vested with the authority to command and control all aspects of the management plan including in regard of risk scenarios. Proper budget control and time management of the project will be ensured by a detailed and clear work plan accompanied by a realistic timetable and through timely decisions of the steering committee. Reporting among the partners and from the consortium up to the National Agency will be done in due time in order to prevent the delays/risks that can occur. As stated above, the national teams will have complementary character. They will comprise experienced staff that will design the activities, but also administrative staff for the project management. From within the national teams the steering trans-national committee will be assembled. It will monitor, self-evaluate and take corrective actions during the whole implementation of the Action. In general, all the procedures of the project management will be applied, as the partners are well experienced in tackling such important endeavors. Cost Performance Index, calculated as Earned Value/Actual Cost, will be reported quarterly during the project implementation, for each work package, in order to check for risk corrections. Project Schedule Performance calculated as Earned Value/Planned Value, is guarterly reported by the partners for each work packages to identify possible risks. The Schedule Performance Index (total authorized duration versus actual project duration) will be monitored in particular for each work package to determine implementation risks. Alignment to Strategic Business Goals will be benchmarked in respect of monitoring the project management efficiency.

Please explain how will the project activities lead to the achievement of the project objectives and delivery of the planned results?

The project will be implemented following up with accuracy the project management plan, Gantt chart, the risk management plan, the communication plan, in compliance with the projected intellectual outputs, with the learning/teaching activities and with the events planned. For each activity quantitative and qualitative measurements will be applied, in respect of project transparency, accountability, efficient and legal implementation. The applied procedures will be harmonized among the partners, including the structure of the specific management actions, the management of possible conflicts and crisis, assessment of the progress, performance indicators, internal evaluation procedures, monitoring and reporting means, etc. Monitoring and internal evaluation will be distributed to two levels: first, the national teams will be responsible for their individual tasks (or part of a larger activity) and secondly, the steering committee will assess the overall progress, with a respective follow up action plan. Monitoring of individual teams' activities will be done on a weekly basis. The progress of the entire project will be done monthly by the steering committee. If risks will occurred, immediate corrective measures would be taken. The partner academic communities and, consequently, the agreed stakeholders of the project, will get access to the joint partners' facilities and teaching/learning practices, seeking to achieve in partnership, the next objectives: - to improve the training skills of the trainers, by good practices exchanges on different simulators offered by the partners, seeking the build and to implement the digital teaching framework for hard skills achievement; - to enhance the cadets' abilities within physical and virtual exchanges, practicing their skills on different simulator facilities by distance learning, using the digital resources in their training, onboard the ships for dual education enhancement; - to build teaching and training tutorials for simulating exercises in order to enhance the teaching environment digitalization - an additional feature for "blending learning" methods enhancement; - to implement harmonized common courses/modules in order to value the partners' experience, facilities and good practices (with an emphasis on the particular aspects of the targeted regions), continuing previous projects implemented among the partners as DECOMAR, MARINE, MENTORESS or BLUE4SEAS; - to organize different dissemination events, where the achieved results to be shared; - to facilitate academic exchanges between the Baltic Sea region and the South-Eastern area of Europe, in respect of harmonizing the training practices and to connect the training facilities in a common network to be jointly valued by the partners; - to identify research methods and research areas of knowledge, where the simulators to be involved and valued on competitive basis, within the agreed partnership; - to share expertise in designing virtual environment and scenarios for navigation and engine room onboard the ships, on simulators, using the partners software and hardware.

How will you communicate and cooperate with your partners?

As previously tested during the regular collaboration activities, the cooperation and communication strategy among the partners will rely upon the already established channels, that will even grow according to the new cooperation tasks, namely by phone, email or vide-conference, initiated on weekly basis. Moreover, as the contact persons of the partners are related to the international programmes offices (Erasmus+ Offices), the communication network could be considered as already functional. Nonetheless, as the coordinator and the partners have experience in European-funded projects, a communication plan will be implemented for this specific project, as part of the partnership agreements that will be signed if the project is selected for funding. Each national team will have a project implementation expert who will be responsible for the cooperation and communication tasks, that accompany every milestone's accomplishment. Regarding the links with the other stakeholders (management authority, third parties involved - like shipping companies or national maritime authorities, etc.), each national team will assign its executive manager to maintain them. This representative can then delegate particular tasks to the team members, but preserving ultimately this responsibility. Dissemination and public information about the objectives, target groups and results of MARS-NET are also very important issues. Taking in account the experience of the partners, the networks with the peer universities and the national media are in place. Still, for MARS-NET project, a PR expert will be assigned to each team to monitor and work on these matters. From the operational perspective on inter-communication and coordination, each national team will have weekly meetings in order to assess the current results and to plan in detail the accomplishment of each activity generated from the project's master plan. Then, the national teams' opinions will be shared among the partners by the international relations experts, also weekly, based on the video-conference implemented system. There will be also direct physical meetings of the teams during the planned workshops, intensive study programmes and joint training events. As the consortium consists of 5 partners, there are 5 meetings foreseen to be organized, each one in each country of the participants. Due to the duration of the proposed project (24 months), a face-to-face meeting at every 4 months is considered to balance very well its results with the costs. The delegations attending these meetings will count up to 3 persons. They will generally consist of

the head of each national team, the implementation experts (depending on each workshop theme) and the international relations experts. In conclusion, cooperation and communication plan will set the specific individual tasks for the national teams' members and also the activities' distribution in time. This operational plan will be considered as a part of the overall leadership and project management processes of MARS-NET.

Have you used or do you plan to use eTwinning, School Education Gateway, EPALE or the Erasmus+ Project Results Platform for preparation, implementation or follow-up of your project? If yes, please describe how.

The partners have planned to use actively the Erasmus+ platforms, as following: - Erasmus+ Project Results Platform has been used as an inspirational ideas environment, very useful in the project preparation phase, where details about HEI digitalization actions could be consulted to suggest further activities and good practices implementation (i.e. large projects implementation as Generation Data, IStart or DataSet); - EPALE shall be used as public information environment where the specific educational resources could be disseminated and the planned activities and its results could be advertised; - School Education Gateway could be a useful environment to promote the syllabus and the edited course in leadership in order to promote it and to facilitate the output spreading.



Production of Project Results

Do you plan	to produce	project	results in	your project?
		10.01000		J J

Yes

Project Result	ts Summary				
Result ID	Leading Organisation	Result Title	Starting Period	Ending Period	Grant
1	T. C. Piri Reis Universitesi (E10105404 - Turkey)	Building the updated pool of competencies for maritime education to improve the value of simulating facilities in maritime education	01-11-2021	01-02-2022	8510
2	AKADEMIA MARYNARKI WOJENNEJ (E10090628 - Poland)	Digital media tools to enhance the simulating teaching efficiency in maritime education	01-11-2021	01-11-2021	12580
3	Academia Navala "Mircea cel Batran" (E10093117 - Romania)	Virtual digital campus for teachers, researchers and students	01-11-2021	01-04-2023	13130
4	Nikola Yonkov Vaptsarov Naval Academy (E10108590 - Bulgaria)	Joint scientific research partnership for building a more efficient and effective teaching learning environment based on simulation facilities	01-02-2022	01-06-2022	11840
5	Lietuvos aukstoji jureivystes mokykla (E10108901 - Lithuania)	Virtual webinar tools to enhance the digitization of learning materials in Maritime Higher Education.	01-09-2022	01-02-2023	12580

Erasmus+

Project Results Details (1)	
Result ID	1
Result Title	Building the updated pool of competencies for maritime education to improve the value of simulating facilities in maritime education
Result Leading Organisation	T. C. Piri Reis Universitesi (E10105404 - Turkey)
Result Description (including: needs analysis, target groups, elements of innovation, expected impact and transferability potential)	O1 "Building the updated pool of competencies for maritime education to improve the value of simulating facilities in maritime education" is meant to be the initiation phase of the project, where the partners shall jointly study the common curriculum identifying the hard and soft skills required into the new technological context, adapted to STCW - IMO standards for maritime HEI education. The partners will identify, the most relevant courses, that use the simulation facilities, seeking to develop hard skills for graduates. Once agreed, these courses will be developed in their content based on simulation facilities utilization, to improve the learning process and digitization of maritime education, but more focused on practical side of maritime profession. Due to the fact that the maritime students are obliged to follow up a cadetship stage of at least 12 months onboard commercial ships, the developed digital materials will be feasible as solution for dual learning system and this objective will facilitate the delivering innovation for the most "sensitive" professional courses from maritime HEI curriculum – referred to the practical "hard skills" respectively. Therefore, based on this harmonized curriculum, the partners can join their forces into a significant and large effort to design those digital resources that could assure the learning process for "hard skills" courses onboard the ships, in using the simulators for mimetic training technique, on real conditions onboard. As results of O1, 10 course syllabuses to be harmonized for selected STCW courses, to value the simulation learning methods on hard and soft skills requirements, in order to align the MET curriculum to the newest STCW standards (i.e. continuing the DECOMAR and MARINE projects results), in order to prepare a virtual exchange programme for students and teachers, for the following courses: Ship Handling and Maneuvering, Cargo handling, Navigational Watchkeeping, Engine Room Watchkeeping, Radar Navigation, Maritime Search and Rescue, Coastal Na
Result Type	Course / curriculum - Design and development
Please describe the division of work, the tasks leading to the production of the result and the applied methodology	Along MARS-NET O1 implementation, 10 syllabuses will be harmonized for selected STCW courses, to value the simulation learning methods, in order to align the MET curriculum to the newest STCW requirements, as following: Ship Handling and Maneuvering, Cargo handling, Navigational Watchkeeping, Engine Room Watchkeeping, Radar Navigation, Maritime Search and Rescue, Coastal Navigation, Naval Machines and Equipment,

Naval Communications, Celestial Navigation. Further, during O5, five of these courses will be detailed on digital resources to be jointly delivered by virtual campus. This curriculum will facilitate the joint dual education implementation onboard the commercial vessels, during the compulsory cadetship of 12 months - the partners will practically design a virtually semester, that could be implemented online. The innovative solution of this project is related to the simulations facilities valorization - so far, there is no technical solution to instruct the students online on this special courses that use the simulators even courses are compulsory subjects for cadets, according to STCW. From The kick-off meeting will provide a vivid picture of work division, each partner will be responsible for 2 chosen syllabuses. Once delivered, the syllabuses will be uploaded on project platform for consultations (ww.marplat.eu). The curriculum shall be further applied in the O5 for the sake of internationalization and exchange enhancement among the partners as in O2, O3 and O4 where the network will be implemented. Prior to the harmonization process, for a good projection of the syllabuses in adjusted manner to the maritime market requirements, the economic entities will be consulted for their feed-back/advisory data, in defining the learning outcomes, course goals and students' competencies (knowledge, abilities, skills). During O1, milestone M1 is established by the end of the 3rd month, when the harmonized syllabuses will by delivered among the partners. In attachment we have posted a model of applied syllabuses for specific training activities on simulators, to be implemented in joint by the partners, for all selected courses.

Result Production Start Date (dd-mm-yyyy)	01-11-2021
Result Production End Date (dd-mm-yyyy)	01-02-2022
Result Languages	English
Result Media	Internet , Social Media , Paper Brochures , Website , Text
Result Participating Organisations	Academia Navala "Mircea cel Batran" (E10093117 - Romania), Nikola Yonkov Vaptsarov Naval Academy (E10108590 - Bulgaria) , AKADEMIA MARYNARKI WOJENNEJ (E10090628 - Poland), Lietuvos aukstoji jureivystes mokykla (E10108901 - Lithuania)



Project Results Budget (1)

Result ID	Organisation	Managers	Teachers / Trainers / Researchers	Technicians	Administrative staff / Volunteers	Grant
1	T. C. Piri Reis Universitesi (E10105404 - Turkey)	0	2590	0	0	2590
2	Academia Navala "Mircea cel Batran" (E10093117 - Romania)	0	1480	0	0	1480
3	Nikola Yonkov Vaptsarov Naval Academy (E10108590 - Bulgaria)	0	1480	0	0	1480
4	AKADEMIA MARYNARKI WOJENNEJ (E10090628 - Poland)	0	1480	0	0	1480
5	Lietuvos aukstoji jureivystes mokykla (E10108901 - Lithuania)	0	1480	0	0	1480
Total		0	8510	0	0	8510



Result ID	Organisation	Country of the Organisation	Category Of Staff	N° of Working Days	Grant per Day	Grant
1	T. C. Piri Reis Universitesi (E10105404 - Turkey)	Turkey	Teachers/Trainers/Researchers	35	74	2590
Total				35		



Result ID	Organisation	Country of the Organisation	Category Of Staff	N° of Working Days	Grant per Day	Grant
1	Academia Navala "Mircea cel Batran" (E10093117 - Romania)	Romania	Teachers/Trainers/Researchers	20	74	1480
Total				20		



Result ID	Organisation	Country of the Organisation	Category Of Staff	N° of Working Days	Grant per Day	Grant
1	Nikola Yonkov Vaptsarov Naval Academy (E10108590 - Bulgaria)	Bulgaria	Teachers/Trainers/Researchers	20	74	1480
Total				20		



Result ID	Organisation	Country of the Organisation	Category Of Staff	N° of Working Days	Grant per Day	Grant
1	AKADEMIA MARYNARKI WOJENNEJ (E10090628 - Poland)	Poland	Teachers/Trainers/Researchers	20	74	1480
Total				20		



Result ID	Organisation	Country of the Organisation	Category Of Staff	N° of Working Days	Grant per Day	Grant
1	Lietuvos aukstoji jureivystes mokykla (E10108901 - Lithuania)	Lithuania	Teachers/Trainers/Researchers	20	74	1480
Total				20		

Erasmus+

Project Results Details (2)	
Result ID	2
Result Title	Digital media tools to enhance the simulating teaching efficiency in maritime education
Result Leading Organisation	AKADEMIA MARYNARKI WOJENNEJ (E10090628 - Poland)
Result Description (including: needs analysis, target groups, elements of innovation, expected impact and transferability potential)	The O2 is following up the O1 fulfillment and has been conceived as an intermediary layout phase of the project, where the guidance framework for the project will be issued, together with the summary design of most 5 relevant courses in which simulation facilities are used. The major deliverables of O2 are the following ones: - 1 guide for best practices in modelling the digital course content to exchange good practices in building the digital materials, as to be forth commonly used in exchange programmes implemented among the partners; - 1 evaluation/assessment guide for simulation courses in maritime education will be conceived to facilitate the common practices implementation on hard skills courses, solving a great issue faced among the partners in reference to the simulation facility usage 5 common harmonized seminar digital materials will be jointly conceived, as selected by the partners from the harmonized courses pool from O1, keeping close to those course where the simulators are most intensively used - digital course materials to be prepared to facilitate the virtual Erasmus+ exchanges. In case of dual learning and distance learning study programmes, the partners will produce in support of this objective, as models, several samples of digital materials, using the simulators, to enhance the learning process based on digital resources onboard the ships. A number of video tutorial video materials for simulating classes instructions will be prepared, as following: • min. 5 video tutorials for Ship Handling and Maneuvering course (Navigation simulator) – MBNA; • min. 5 video tutorials for Navigational Watchkeeping course (Navigation simulator) – PNA; • min. 5 video tutorials for Radar Navigation course (Navigation simulator) – NVNA; • min. 5 video tutorials Engine Room Watchkeeping course (Engine Room Simulator) – PRU; • min. 5 video tutorials Cargo handling course (Cargo handling Simulator) – LMA. AMW will coordinate the process and will be increased by enlarging the beneficiaries to other partner unive

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innovative element, prior to simulation exercises, the students will

be able to access the digital tutorial to become familiar with the learning environment even on distance (i.e. cadetship onboard commercial vessels). Also, in lack of physical access to the respective simulators, the students can practice by gaming the simulation scenarios, comparing it with onboard facilities. Therefore, the partners will make available not only a singular type of simulation scenarios, but a wider range of tutorials will be available to the students, using different types of simulators from one partner to another, on a common integrated network, more comprehensive than singular solutions. In regard of course materials, the partners will create harmonized teaching materials for 6 selected courses, as the most relevant in using intensively the simulation facilities, in compliance with STCW regulations and standards. The partners will agree upon a common format of learning material, more friendly to the students perceptions (i.e. digital presentations or Prezi tutorials).

Learning / teaching / training material - Audiovisual material

The partners will produce digital seminar materials for 5 selected courses and offering in support of digitization 25 video scenarios as samples and models, for most relevant simulating classes, using the common simulators. In conclusion, merging all these imperative steps in digitization design phase, the objective O2 will be focused on the following results: - 5 common harmonized seminar materials - where the simulators are used (based on digital presentations) - digital course materials to be prepared to facilitate the virtual Erasmus+ exchanges. In support of teachers and students preparation a number of video tutorial video materials for simulating classes instructions will be prepared, as following: • min. 5 video tutorials for Ship Handling and Maneuvering course (Navigation simulator) - MBNA; • min. 5 video tutorials for Navigational Watchkeeping course (Navigation simulator) - PNA; • min. 5 video tutorials for Radar Navigation course (Navigation simulator) - NVNA; • min. 5 video tutorials Engine Room Watchkeeping course (Engine Room Simulator) -PRU; • min. 5 video tutorials Cargo handling course (Cargo handling Simulator) - LMA. Based on this guidance framework, the digital-media instructing tutorials for teachers and cadets will be enriched and the learning process efficiency and effectiveness in simulating environment is expected to be improved. Additionally, an evaluation methodology will be conceived to facilitate the common practices implementation on hard skills courses, solving a great issue faced among the partners in reference to the simulation facility usage. To exchange good practices in building the digital materials, as to be forth commonly used in exchange programmes among the partners, a guide for modelling the digital course content will be drafted, harmonizing the best practices and issuing models to be adopted by the partners. In case of dual learning and distance learning study programmes, the partners will produce in support of this objective, as models, several samples of digital materials, using the

Result Type

Please describe the division of work, the tasks leading to the production of the result and the applied methodology



	simulators, to enhance the learning process based on digital resources onboard the ships. The leading partner will lead the joint tasks in order assure the achievement of the projected deliverables. The partners have agreed upon milestone M2- by the end of the 14th month the testing tutorials and guidance will be delivered and uploaded on online platform www.marplat.ro
Result Production Start Date (dd-mm-yyyy)	01-11-2021
Result Production End Date (dd-mm-yyyy)	01-11-2021
Result Languages	English
Result Media	Video , Sound , Interactive Resource , Website
Result Participating Organisations	Academia Navala "Mircea cel Batran" (E10093117 - Romania) , T. C. Piri Reis Universitesi (E10105404 - Turkey) , Nikola Yonkov Vaptsarov Naval Academy (E10108590 - Bulgaria) , Lietuvos aukstoji jureivystes mokykla (E10108901 - Lithuania)



Project Results Budget (2)

Result ID	Organisation	Managers	Teachers / Trainers / Researchers	Technicians	Administrative staff / Volunteers	Grant
1	AKADEMIA MARYNARKI WOJENNEJ (E10090628 - Poland)	0	3700	0	0	3700
2	Academia Navala "Mircea cel Batran" (E10093117 - Romania)	0	2220	0	0	2220
3	T. C. Piri Reis Universitesi (E10105404 - Turkey)	0	2220	0	0	2220
4	Nikola Yonkov Vaptsarov Naval Academy (E10108590 - Bulgaria)	0	2220	0	0	2220
5	Lietuvos aukstoji jureivystes mokykla (E10108901 - Lithuania)	0	2220	0	0	2220
Total		0	12580	0	0	12580



Result ID	Organisation	Country of the Organisation	Category Of Staff	N° of Working Days	Grant per Day	Grant
1	AKADEMIA MARYNARKI WOJENNEJ (E10090628 - Poland)	Poland	Teachers/Trainers/Researchers	50	74	3700
Total				50		



Result ID	Organisation	Country of the Organisation	Category Of Staff	N° of Working Days	Grant per Day	Grant
1	Academia Navala "Mircea cel Batran" (E10093117 - Romania)	Romania	Teachers/Trainers/Researchers	30	74	2220
Total				30		



Result ID	Organisation	Country of the Organisation	Category Of Staff	N° of Working Days	Grant per Day	Grant
1	T. C. Piri Reis Universitesi (E10105404 - Turkey)	Turkey	Teachers/Trainers/Researchers	30	74	2220
Total				30		



Result ID	Organisation	Country of the Organisation	Category Of Staff	N° of Working Days	Grant per Day	Grant
1	Nikola Yonkov Vaptsarov Naval Academy (E10108590 - Bulgaria)	Bulgaria	Teachers/Trainers/Researchers	30	74	2220
Total				30		



Result ID	Organisation	Country of the Organisation	Category Of Staff	N° of Working Days	Grant per Day	Grant
1	Lietuvos aukstoji jureivystes mokykla (E10108901 - Lithuania)	Lithuania	Teachers/Trainers/Researchers	30	74	2220
Total				30		

Erasmus+

Project Results Details (3)	
Result ID	3
Result Title	Virtual digital campus for teachers, researchers and students
Result Leading Organisation	Academia Navala "Mircea cel Batran" (E10093117 - Romania)
Result Description (including: needs analysis, target groups, elements of innovation, expected impact and transferability potential)	The O3 objective represents the integrative phase of the project, conceived for connecting the academic community, students and teachers, to create and to access the virtual network developed as a "virtual campus" for sharing the didactic materials and the digital resources, for simulating learning environment courses and classes, as pre-determined and developed in O1 and O2. The platform is already functional (www.marplat.eu), being designed in previous projects (DECOMAR, MARINE and MENTORESS) being presently opened to all the partners. The virtual platform will enhance the dual education system and distance learning possibilities for maritime students, encouraging the soft skills development for cadets, during the cadetship stages, onboard the ships. Thus, the students will be permanently connected to the teachers and will have access to the learning materials, having the best opportunity in learning by doing onboard the ship, exchanges in a dynamic manner, good practices with their instructors and teachers. The O3 will consist in the following results: - 1 virtual network for teachers/experts/, where the teachers will be connected peer-to-peer with their colleagues in the partner campuses, by forum, sharing the teaching practices and research ideas. A virtual collaborative e-campus for teachers and esearchers, where the academics to be connected peer-to-peer with their colleagues in the partner campuses, by forum dialogue, sharing the teaching practices and research laboratories and infrastructure facilities where each partner will be able to provide information about the own research infrastructure and the conditions under which research laboratories and infrastructure could be available for interested persons/researching groups, among the partners 1 virtual campus for students where digital resources will be available to be accessed by the students during the cadetship, in order to facilitate the learning process and hard skills development during the internship in support of dual education expressione

on marplat.eu, for work placement mentorship on each course, to facilitate the exchange hard skills during the cadetship (the partners will use MOODLE online platform and BBB-BigBlueButton BN open source with MOODLE plugins directory facility, adopted as online videoconference software) - each partner will be responsible for mentoring one course resources, as assigned in O2. The innovation consists in the genuine idea of an e-campus set up, that will comprise not only the learning materials distribution environment, but also the research infrastructure sharing portal and the peer-to-peer researching forum where to coagulate the entire academic community of the partner universities. The impact is concerning almost 12000 foreseen target audience, but also interested companies for knowledge or engineering transfer in MET education and scientific research. Is import to achieve a common teaching and research environment, where the partners to get access to a larger pool of facilities and resources. The transfer will also comprise the partners network in larger circle of cooperation, contributing to the academic sharing point settlement.

Open / online / digital education - E-learning course / module

MBNA will design, build and implement a virtual e-campus for teachers and researchers, where the academics to be connected peer-to-peer with their colleagues in the partner campuses, by forum dialogue, sharing the teaching practices and research results in maritime area of knowledge and not only, using MODDLE environment (see on: www.marplat.eu and on: www.adl.anmb.ro). The partners will contribute by sharing on the online platform, in their area responsibility, the respective drafted learning materials, video-tutorials and digital resources, or other useful resources as identified being useful for the project effectiveness. The partners will make available their research facilities, sharing information to the interested parties and enhancing the teachers/researchers access to the implemented collaborative e-campus. The virtual campus for students where digital resources will be available to be accessed by the students during the cadetship, in order to facilitate the learning process and hard skills development during the internship in support of dual education enhancement. Therefore, 5 courses shall to be uploaded on the platform for international students, available to facilitate the dual education system for cadets onboard the ships each partner will be responsible for one course, as assigned in O2: • for Ship Handling and Maneuvering course (Navigation simulator) - responsible partner will be MBNA; • for Navigational Watchkeeping course (Navigation simulator) - responsible partner will be PNA; • for Radar Navigation course (Navigation simulator) - responsible partner will be NVNA; • for Engine Room Watchkeeping course (Engine Room Simulator) - responsible partner will be PRU; • for Cargo handling course (Cargo handling Simulator) - responsible partner will be LMA. The video conference system will be implemented on www.marplat.eu, for

Result Type

Please describe the division of work, the tasks leading to the production of the result and the applied methodology

each of the developed courses, to facilitate the joint online courses/seminars/training (the partners will use MOODLE online platform and BBB-BigBlueButton BN open source with MOODLE plugins directory facility, adopted as online videoconference software) - then, each partner will be responsible for mentoring one course resources, as assigned in O2 and above. The video conference system will be implementation on marplat.eu, for work placement mentorship on each course, to facilitate the exchange hard skills during the cadetship (the partners will use MOODLE online platform and BBB-BigBlueButton BN open source with MOODLE plugins directory. MBNA will allocate the central server for the network and each partner agrees to allocate an institutional hosting space for the designed virtual campus. MBNA will set up the security protocols, but each partner will be assign to manage the security protocol on institutional level. The accessing protocols and enrollment policy will be agreed upon MBNA coordination, upon "sing up" and "sing in" protocols. The partners will manage the accessing protocols and enrollment policy on institutional level. The leading partner will lead the joint tasks in order assure the achievement of the projected deliverables. The partners have agreed upon milestone M2 established by Gantt diagram, respectively: by the end of the 15th month the virtual campus hard and soft systems - will be launched (M3) and by the end of the 18th month - the virtual campus will be uploaded and launched (M4).

Result Production Start Date (dd-mm-yyyy)	01-11-2021
Result Production End Date (dd-mm-yyyy)	01-04-2023
Result Languages	English
Result Media	Internet , Network , Website
Result Participating Organisations	T. C. Piri Reis Universitesi (E10105404 - Turkey), Nikola Yonkov Vaptsarov Naval Academy (E10108590 - Bulgaria), AKADEMIA MARYNARKI WOJENNEJ (E10090628 - Poland), Lietuvos aukstoji jureivystes mokykla (E10108901 - Lithuania)



Project Results Budget (3)

Result ID	Organisation	Managers	Teachers / Trainers / Researchers	Technicians	Administrative staff / Volunteers	Grant
1	Academia Navala "Mircea cel Batran" (E10093117 - Romania)	0	3700	550	0	4250
2	T. C. Piri Reis Universitesi (E10105404 - Turkey)	0	2220	0	0	2220
3	Nikola Yonkov Vaptsarov Naval Academy (E10108590 - Bulgaria)	0	2220	0	0	2220
4	AKADEMIA MARYNARKI WOJENNEJ (E10090628 - Poland)	0	2220	0	0	2220
5	Lietuvos aukstoji jureivystes mokykla (E10108901 - Lithuania)	0	2220	0	0	2220
Total		0	12580	550	0	13130



Result ID	Organisation	Country of the Organisation	Category Of Staff	N° of Working Days	Grant per Day	Grant
1	Academia Navala "Mircea cel Batran" (E10093117 - Romania)	Romania	Teachers/Trainers/Researchers	50	74	3700
2	Academia Navala "Mircea cel Batran" (E10093117 - Romania)	Romania	Technicians	10	55	550
Total				60		



Result ID	Organisation	Country of the Organisation	Category Of Staff	N° of Working Days	Grant per Day	Grant
1	T. C. Piri Reis Universitesi (E10105404 - Turkey)	Turkey	Teachers/Trainers/Researchers	30	74	2220
Total				30		



Result ID	Organisation	Country of the Organisation	Category Of Staff	N° of Working Days	Grant per Day	Grant
1	Nikola Yonkov Vaptsarov Naval Academy (E10108590 - Bulgaria)	Bulgaria	Teachers/Trainers/Researchers	30	74	2220
Total				30		



Result ID	Organisation	Country of the Organisation	Category Of Staff	N° of Working Days	Grant per Day	Grant
1	AKADEMIA MARYNARKI WOJENNEJ (E10090628 - Poland)	Poland	Teachers/Trainers/Researchers	30	74	2220
Total				30		


Result ID	Organisation	Country of the Organisation	Category Of Staff	N° of Working Days	Grant per Day	Grant
1	Lietuvos aukstoji jureivystes mokykla (E10108901 - Lithuania)	Lithuania	Teachers/Trainers/Researchers	30	74	2220
Total				30		

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	Project Results Details (4)	
	Result ID	4
	Result Title	Joint scientific research partnership for building a more efficient and effective teaching learning environment based on simulation facilities
	Result Leading Organisation	Nikola Yonkov Vaptsarov Naval Academy (E10108590 - Bulgaria)
	Result Description (including: needs analysis, target groups, elements of innovation, expected impact and transferability potential)	The O4 objective has been conceived as an analytic phase in support of project sustainability, to bring into the light several problematic aspects regarding the learning by simulation, very important to be approached within the topic of digitization of maritime higher education system. The partners will seek to reflect by scientific research, carried on interdisciplinary manner, the most relevant didactic parameters arose in relation with virtual learning management system regarding the virtual class leadership models, evolution methods for simulation classes, virtual scenarios development or bridge team management techniques using the simulators. In these studies, the partners will bring not only an accurate scientific approach, but also the companies experience and the student's perceptions related to these matters. The research will also contribute in determining the technical solutions for integrating the simulator within an operational network, where the students can freely access the training resources, even from onboard the ships. The major results of this objective will be the following ones: - 4 research studies on simulating environment efficiency and effectiveness for maritime education and training; - 1 research study in regard of higher valorization of simulation facilities – connecting solution of simulating facilities of partners (academic network of simulators) (MBNA). The studies will bring innovative solutions to building a more efficient and effective teaching and learning environment based on simulation facilities, available for any interested entity, even teacher, researcher, student, company or institution. As this research area is still very poor approached on international level, the project could contribute to the enlargement of knowledge in the field of simulation processes, mostly focused on training programmes for maritime education sector. The innovative contributions could comprise effective studies on simulator conducted classes methods, using the virtual and digital environment.
	Result Type	Studies / analysis - Research study / report
	Please describe the division of work, the tasks leading to the production of the result and the	On this output, 4 research studies on simulating environment efficiency and effectiveness for maritime education and training on the next topics will be delivered, each university being responsible

the next topics will be delivered, each university being responsible for one research direction, as identified in the project kick-off

applied methodology

meeting and further stated in the project implementation plan, following the next topics: -class leadership and methods to overcome the limits of virtual education - responsible partner will be PRU; - evaluation methods for students on learning by simulating environment - responsible partner will be PNA; - virtual scenarios development - responsible partner will be NVNA; leadership studies on bridge team management using the simulators - responsible partner will be LMA; - research study in regard of higher valorization of simulation facilities - connecting solution of simulating facilities of partners (academic network of simulators) - responsible partner will be MBNA. The studies will be presented on project conferences and will be further published in open access international journals for dissemination. Result Production Start Date (dd-mm-yyyy) 01-02-2022 Result Production End Date (dd-mm-yyyy) 01-06-2022 English

Internet, Paper Brochures, Text File, Publications

Result Participating Organisations

Result Languages

Result Media

Academia Navala "Mircea cel Batran" (E10093117 - Romania), T. C. Piri Reis Universitesi (E10105404 - Turkey), AKADEMIA MARYNARKI WOJENNEJ (E10090628 - Poland), Lietuvos aukstoji jureivystes mokykla (E10108901 - Lithuania)



Project Results Budget (4)

Result ID	Organisation	Managers	Teachers / Trainers / Researchers	Technicians	Administrative staff / Volunteers	Grant
1	Nikola Yonkov Vaptsarov Naval Academy (E10108590 - Bulgaria)	0	2960	0	0	2960
2	Academia Navala "Mircea cel Batran" (E10093117 - Romania)	0	2220	0	0	2220
3	T. C. Piri Reis Universitesi (E10105404 - Turkey)	0	2220	0	0	2220
4	AKADEMIA MARYNARKI WOJENNEJ (E10090628 - Poland)	0	2220	0	0	2220
5	Lietuvos aukstoji jureivystes mokykla (E10108901 - Lithuania)	0	2220	0	0	2220
Total		0	11840	0	0	11840



Result ID	Organisation	Country of the Organisation	Category Of Staff	N° of Working Days	Grant per Day	Grant
1	Nikola Yonkov Vaptsarov Naval Academy (E10108590 - Bulgaria)	Bulgaria	Teachers/Trainers/Researchers	40	74	2960
Total				40		



Result ID	Organisation	Country of the Organisation	Category Of Staff	N° of Working Days	Grant per Day	Grant
1	Academia Navala "Mircea cel Batran" (E10093117 - Romania)	Romania	Teachers/Trainers/Researchers	30	74	2220
Total				30		



Result ID	Organisation	Country of the Organisation	Category Of Staff	N° of Working Days	Grant per Day	Grant
1	T. C. Piri Reis Universitesi (E10105404 - Turkey)	Turkey	Teachers/Trainers/Researchers	30	74	2220
Total				30		



Result ID	Organisation	Country of the Organisation	Category Of Staff	N° of Working Days	Grant per Day	Grant
1	AKADEMIA MARYNARKI WOJENNEJ (E10090628 - Poland)	Poland	Teachers/Trainers/Researchers	30	74	2220
Total				30		



Result ID	Organisation	Country of the Organisation	Category Of Staff	N° of Working Days	Grant per Day	Grant
1	Lietuvos aukstoji jureivystes mokykla (E10108901 - Lithuania)	Lithuania	Teachers/Trainers/Researchers	30	74	2220
Total				30		

Erasmus+

Project Results Details (5)	
Result ID	5
Result Title	Virtual webinar tools to enhance the digitization of learning materials in Maritime Higher Education.
Result Leading Organisation	Lietuvos aukstoji jureivystes mokykla (E10108901 - Lithuania)
Result Description (including: needs analysis, target groups, elements of innovation, expected impact and transferability potential)	The objective O5 has been planned to be the project implementation phase, when an overall number of 250 students and 20 teachers will be virtually enrolled in digital classes, to support the developing of the digital content materials. The methodology of building the teaching materials drafted on O2 will be fulfilled, recording the online monitored web-seminars sessions, delivered in videoconference system, to the students from cadetship or from different campuses. This teaching activities will use the simulating scenarios sharing online the practical exercises on simulators, and will be recorded to be further used in the joint network, as final digital resources, available for partners, in joint Virtual webinars applications for teachers and students - to be delivered to the virtual auditorium, recorded to be implemented, via www.marplat.eu platform. Each course will be assigned to a partner as specified in O2. As result of O5, the partners will make available 5 digital courses, fully covered with harmonized curriculum (O1), teaching materials (O2) and online available resources (O3), valuing the hard skills developing imperative for maritime higher education students, in virtual manner to stimulate the cadetship dual system programs, the virtual mobility of international students and the digitization of simulating classes. Already, as presented in attachment, the leading partner has drafted the methodology for training the trainers in designing the simulation exercises, on various type of simulators (navigation, engine room, communication, cargo handling).
Result Type	Learning / teaching / training material - Audiovisual material
Please describe the division of work, the tasks leading to the production of the result and the applied methodology	LMA as responsible partner will coordinate the students enrollment and teachers assignments for virtual activities managed within the virtual campus environment. The campus accessing rights will be attributed by each partner in compliance with the enrollment policy set on O3. The responsible teachers will be assigned by each partner, in compliance with the attributed tasks. The server management and technical support for this objective has been set up during O3 and will be provided by MBNA. The tasks and responsibilities assumed during the course management are assigned as following: - Ship Handling and Maneuvering (using the Navigation simulator) – the responsible partner for course management will be MBNA – for this course 10 students x 5 partners = 50 students to be instructed fall/spring semester, 7 courses+ 7 seminars to be recorded; - Navigational Watchkeeping (using the Navigation simulator) – the responsible

	partner for course management will be PNA – for this course 10 students x 5 partners = 50 students to be instructed fall/spring semester, 7 courses+ 7 seminars to be recorded; - Radar Navigation course (using the Navigation simulator) – the responsible partner for course management will be NVNA – for this course 10 students x 5 partners = 50 students to be instructed fall/spring semester, 7 courses+ 7 seminars to be recorded; - Engine Room Watchkeeping (using the Engine Room Simulator) – the responsible partner for course management will be PRU – for this course 10 students x 5 partners = 50 students to be instructed fall/spring semester, 7 courses+ 7 seminars to be recorded; - Cargo handling (using the Cargo handling Simulator) – the responsible partner for course management will be LMA – for this course 10 students x 5 partners = 50 students to be instructed fall/spring semester, 7 courses+ 7 seminars to be recorded; - Cargo handling (using the Cargo handling Simulator) – the responsible partner for course management will be LMA – for this course 10 students x 5 partners = 50 students to be instructed fall/spring semester, 7 courses+ 7 seminars to be recorded.
Result Production Start Date (dd-mm-yyyy)	01-09-2022
Result Production End Date (dd-mm-yyyy)	01-02-2023
Result Languages	English
Result Media	Internet , Interactive Resource , Network , Website
Result Participating Organisations	Academia Navala "Mircea cel Batran" (E10093117 - Romania) , T. C. Piri Reis Universitesi (E10105404 - Turkey) , Nikola Yonkov Vaptsarov Naval Academy (E10108590 - Bulgaria) , AKADEMIA MARYNARKI WOJENNEJ (E10090628 - Poland)



Project Results Budget (5)

Result ID	Organisation	Managers	Teachers / Trainers / Researchers	Technicians	Administrative staff / Volunteers	Grant
1	Lietuvos aukstoji jureivystes mokykla (E10108901 - Lithuania)	0	3700	0	0	3700
2	Academia Navala "Mircea cel Batran" (E10093117 - Romania)	0	2220	0	0	2220
3	T. C. Piri Reis Universitesi (E10105404 - Turkey)	0	2220	0	0	2220
4	Nikola Yonkov Vaptsarov Naval Academy (E10108590 - Bulgaria)	0	2220	0	0	2220
5	AKADEMIA MARYNARKI WOJENNEJ (E10090628 - Poland)	0	2220	0	0	2220
Total		0	12580	0	0	12580



Result ID	Organisation	Country of the Organisation	Category Of Staff	N° of Working Days	Grant per Day	Grant
1	Lietuvos aukstoji jureivystes mokykla (E10108901 - Lithuania)	Lithuania	Teachers/Trainers/Researchers	50	74	3700
Total				50		



Result ID	Organisation	Country of the Organisation	Category Of Staff	N° of Working Days	Grant per Day	Grant
1	Academia Navala "Mircea cel Batran" (E10093117 - Romania)	Romania	Teachers/Trainers/Researchers	30	74	2220
Total				30		



Result ID	Organisation	Country of the Organisation	Category Of Staff	N° of Working Days	Grant per Day	Grant
1	T. C. Piri Reis Universitesi (E10105404 - Turkey)	Turkey	Teachers/Trainers/Researchers	30	74	2220
Total				30		



Result ID	Organisation	Country of the Organisation	Category Of Staff	N° of Working Days	Grant per Day	Grant
1	Nikola Yonkov Vaptsarov Naval Academy (E10108590 - Bulgaria)	Bulgaria	Teachers/Trainers/Researchers	30	74	2220
Total				30		



Result ID	Organisation	Country of the Organisation	Category Of Staff	N° of Working Days	Grant per Day	Grant
1	AKADEMIA MARYNARKI WOJENNEJ (E10090628 - Poland)	Poland	Teachers/Trainers/Researchers	30	74	2220
Total				30		

Multiplier Events

Do you plan to include multiplier events in your project?

Yes

Multiplier Events Summary

Event ID	Leading organisation	Event Title	Starting period	Ending period	Grant
1	Academia Navala "Mircea cel Batran" (E10093117 - Romania)	Dual education and digitization of maritime higher education system	2021-12- 15	2021-12- 16	5000.0
2	AKADEMIA MARYNARKI WOJENNEJ (E10090628 - Poland)	Simulation environment in Maritime Education and Training (MET)	2022-04- 14	2022-04- 15	5000.0
3	T. C. Piri Reis Universitesi (E10105404 - Turkey)	Teaching efficiency enhancement and class leadership in virtual campus management	2022-10- 13	2022-10- 14	5000.0
4	Nikola Yonkov Vaptsarov Naval Academy (E10108590 - Bulgaria)	Simulation facilities potential for maritime scientific research	2023-04- 13	2023-04- 14	5000.0
5	Lietuvos aukstoji jureivystes mokykla (E10108901 - Lithuania)	Teaching and learning digital	2023-09- 13	2023-09- 14	5000.0
					25000.0

Grant support for multiplier events can only be asked for if the project intends to produce substantial project results. Other sharing and promotion activities will be supported via the Project Management and Implementation grant.

Event ID	1
Event Title	Dual education and digitization of maritime higher education system
Event Leading Organisation	Academia Navala "Mircea cel Batran" (E10093117 - Romania)
Country of Venue	Romania
	The E1 conference is organized by the applicant partner, MBNA, in Constanta, Romania, as the first event of the project, factually initiating the project implementation plan and joint actions. The focus theme of the E1 event is the academic versus vocational perspective in Maritime Education and Training processes, seeking to reveal the specificity of the standardization processes according to STCW, but in those formal and informal limits of academic requirements. The target group consist in relevant representatives coming from maritime academic system, maritime business entities and also
Event	from maritime training centers. The minimum public comprised in the project budget counts 30 local
Description	and 10 international participants. Several papers shall be presented and published as result of this
(Including: Targets groups	event, to disseminate the project objectives and outputs. The conference should be advertised by press media and by social media platforms, to achieve the targeted group of audience up to 1000 persons
and objectives)	(academics, students, researchers, business representatives, specialists, experts or other interested public entities). MBNA will look forward to produce respective dissemination materials and to conduct the public information campaign, where the project objectives, activities and outputs to be promoted. The organizer will take care to identify and to invite the suitable participants, in compliance with the conference theme and objectives. The organizer will have under its responsibility all administrative aspects of the event proper coordination, carrying out the specific operational tasks toward a successful event, evenly involving the project partners and the targeted stakeholders.



Event Start	
Date (dd-mm-	2021-12-15
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Event End Date (dd-mm-yyyy)	2021-12-16
Project Results Covered	Project Results Details (1) Project Results Details (2)
Event other Participating Organisations	T. C. Piri Reis Universitesi (E10105404 - Turkey) Nikola Yonkov Vaptsarov Naval Academy (E10108590 - Bulgaria) AKADEMIA MARYNARKI WOJENNEJ (E10090628 - Poland) Lietuvos aukstoji jureivystes mokykla (E10108901 - Lithuania)

Multiplier Events Budget

Event ID	1
Organisation	Academia Navala "Mircea cel Batran" (E10093117 - Romania)
Country of the Organisation	Romania
Local Participants	30
Foreign Participants	10
Participants in virtual events	0
Grant per Local Participant	100.0
Grant per Foreign Participant	200.0
Grant per Participant in virtual events	15
Grant	5000.0

Event ID	2
Event Title	Simulation environment in Maritime Education and Training (MET)
Event Leading Organisation	AKADEMIA MARYNARKI WOJENNEJ (E10090628 - Poland)
Country of Venue	Poland
Event Description (Including: Targets groups and objectives)	The E2 conference is organized by the Polish Naval Academy, in Gdynia, Poland. The focus theme of the E2 event is the analysis of the simulation environment potential, role and impact in Maritime Education and Training (MET) system on international level, considering both academic standards and STCW requirements and professional restrictions. The target group consist in relevant representatives coming from maritime academic system, maritime business entities and also from maritime training centers. Here also shall be invited the companies that are involved in software production for simulators or other related facilities for digital or virtual learning environment (Transas, DNV, Korlsberg and others). The minimum public comprised in the project budget counts 30 local specialists and 10 international participants, but not limited to. Several workpapers shall be presented and published as result of this event, to disseminate the project objectives and outputs accordingly. The conference should be advertised by press media and by social media platforms, to achieve the targeted group of audience up to 1000 persons (academics, students, researchers, business representatives, specialists, experts or other interested public entities). PNA will look forward to produce jointly the respective



dissemination materials and to conduct the public information campaign, where the project objectives, activities and outputs to be promoted. The organizer shall take care to identify and to invite the suitable participants, in compliance with the conference theme and objectives. The organizer will have under its responsibility all administrative aspects of the event proper coordination, carrying out the specific operational tasks toward a successful event (hosting, accomodation, protocols, event infrastructure and facilities), evenly involving the project partners and the targeted stakeholders.

Event Start Date (dd-mm- yyyy)	2022-04-14
Event End Date (dd-mm-yyyy)	2022-04-15
Project Results Covered	Project Results Details (1) Project Results Details (3) Project Results Details (4)
Event other Participating Organisations	Academia Navala "Mircea cel Batran" (E10093117 - Romania) T. C. Piri Reis Universitesi (E10105404 - Turkey) Nikola Yonkov Vaptsarov Naval Academy (E10108590 - Bulgaria) Lietuvos aukstoji jureivystes mokykla (E10108901 - Lithuania)

Multiplier Events Budget

Event ID	2
Organisation	AKADEMIA MARYNARKI WOJENNEJ (E10090628 - Poland)
Country of the Organisation	Poland
Local Participants	30
Foreign Participants	10
Participants in virtual events	0
Grant per Local Participant	100.0
Grant per Foreign Participant	200.0
Grant per Participant in virtual events	15
Grant	5000.0

Event ID	3
Event Title	Teaching efficiency enhancement and class leadership in virtual campus management
Event Leading Organisation	T. C. Piri Reis Universitesi (E10105404 - Turkey)
Country of Venue	Turkey
Event Description (Including: Targets groups and objectives)	The E3 event is organized by PRU in Tuzla, Turkey and is approaching the innovative matters and issues of class leadership features and particularities in simulating environment, in order to enhance the didactic methods and to update the teaching efficiency and effectiveness in the simulator classes, using not just the learning resources modern format, but also the trainers skills and abilities, adjusted to the new trends in MET. The target group consist in relevant representatives coming from maritime academic system, maritime business entities and also from maritime training centers. Several

significant soft developers or simulators producers, could attend for a consistent representation. Keeping the attendance ration stated by the budget restrictions, the minimum public comprised in the project budget will count 30 local specialists and 10 international participants, but not limited to. Several studies or market analysis shall be presented and finally published, as result of this event, to disseminate the project objectives and outputs accordingly. The conference should be advertised by press media and by social media platforms, to achieve the targeted group of audience up to 1000 persons (academics, students, researchers, business representatives, specialists, experts or other interested public entities). PRU will look forward to produce jointly the respective dissemination materials and to conduct the public information campaign, where the project objectives, activities and outputs to be promoted especially in the economic area of maritime and port businesses. The organizer shall take care to identify and to invite the suitable participants, in compliance with the conference theme and objectives. The organizer will have under its responsibility all administrative aspects of the event proper coordination, carrying out the specific operational tasks toward a successful event (hosting, accomodation, protocols, event infrastructure and facilities), evenly involving the project partners and the targeted stakeholders.

Event Start Date (dd-mm- yyyy)	2022-10-13
Event End Date (dd-mm-yyyy)	2022-10-14
	Project Results Details (1)
Project Results	Project Results Details (2)
Covered	Project Results Details (4)
	Project Results Details (3)
Event other Participating Organisations	Academia Navala "Mircea cel Batran" (E10093117 - Romania) AKADEMIA MARYNARKI WOJENNEJ (E10090628 - Poland) Nikola Yonkov Vaptsarov Naval Academy (E10108590 - Bulgaria) Lietuvos aukstoji jureivystes mokykla (E10108901 - Lithuania)

Multiplier Events Budget

Event ID	3
Organisation	T. C. Piri Reis Universitesi (E10105404 - Turkey)
Country of the Organisation	Turkey
Local Participants	30
Foreign Participants	10
Participants in virtual events	0
Grant per Local Participant	100.0
Grant per Foreign Participant	200.0
Grant per Participant in virtual events	15
Grant	5000.0

Event ID	4
Event Title	Simulation facilities potential for maritime scientific research
Event Leading	Nikola Yonkov Vaptsarov Naval Academy (E10108590 - Bulgaria)

Organisation Country of Bulgaria Venue The E4 conference is organized by the Nikola Y. Vaptsarov Naval Academy, in Varna, Bulgaria. The focus theme of the E6 event is the analysis of the simulation environment potential, for scientific

Event Description (Including: Targets groups

research. The conference will aim to provide innovative solutions to building research network using the simulation facilities, available for any interested entity, even teacher, researcher, student, company or institution. As this research area is still very poor approached on international level, the conference could contribute to the enlargement of knowledge in the field of simulation processes, mostly focused on training programmes for maritime education sector. The presented papers could comprise effective studies on maritime human resources, risk management in ship and cargo handling, coastal management, integrated maritime management, bridge team leadership, simulation software or other related subjects. The target group consist in relevant representatives coming from maritime academic system, maritime business entities and also from maritime research centers. The minimum public comprised in the project budget counts 30 local and 10 international participants, but not limited to. Several workpapers shall be presented and published as result of this event, to disseminate the project objectives and outputs accordingly. The conference should be advertised by press media and by social and objectives) media platforms, to achieve the targeted group of audience up to 1000 persons (academics, students, researchers, business representatives, specialists, experts or other interested public entities). NVNA will look forward to produce jointly the respective dissemination materials and to conduct the public information campaign, where the project objectives, activities and outputs to be promoted. The organizer shall take care to identify and to invite the suitable participants, in compliance with the conference theme and objectives. The organizer will have under its responsibility all administrative aspects of the event proper coordination, carrying out the specific operational tasks toward a successful event (hosting, accomodation, protocols, event infrastructure and facilities), evenly involving the project partners and the targeted

Event Start 2023-04-13 Date (dd-mmуууу) Event End Date 2023-04-14 (dd-mm-yyyy) Project Results Project Results Details (2) Covered Project Results Details (4) Academia Navala "Mircea cel Batran" (E10093117 - Romania) Event other T. C. Piri Reis Universitesi (E10105404 - Turkey) Participating AKADEMIA MARYNARKI WOJENNEJ (E10090628 - Poland) Organisations Lietuvos aukstoji jureivystes mokykla (E10108901 - Lithuania)

Multiplier Events Budget

Event ID	4
Organisation	Nikola Yonkov Vaptsarov Naval Academy (E10108590 - Bulgaria)
Country of the Organisation	Bulgaria
Local Participants	30
Foreign Participants	10
Participants in virtual events	0
Grant per Local Participant	100.0



Grant per Foreign Participant	200.0
Grant per Participant in virtual events	15
Grant	5000.0

Multiplier Events Details

Event ID	5
Event Title	Teaching and learning digital
Event Leading Organisation	Lietuvos aukstoji jureivystes mokykla (E10108901 - Lithuania)
Country of Venue	Lithuania
Event Description (Including: Targets groups and objectives)	The E5 event is organized by Lithuanian Maritime Academy, in Klaipeda, Lithuania, and is approaching the innovative matters and issues of teaching and learning digital resources, used and valued by the Maritime Education and Training institutions (MET). The target group consist in relevant representatives coming from maritime academic system, maritime business entities and also from maritime training centers. This event will bring a great opportunity of sharing best practices in teaching or in learning content design and development. Keeping the attendance ratio as limited by the budget restrictions, the minimum public comprised in the project budget will count 40 local and 10 international participants not limited to. Several studies shall be presented in order to disseminate the project objectives and its outputs accordingly. The conference should be advertised by press media and by social media platforms, to achieve the targeted group of audience up to 1000 persons (academics, students, researchers, business representatives, specialists, experts or other interested public entities). LMA will look forward to produce jointly the respective dissemination materials and to conduct the public information campaign, where the project objectives, activities and outputs to be promoted especially in the economic area of maritime and port businesses. The organizer shall take care to identify and to invite the suitable participants, in compliance with the conference theme and objectives. The organizer will have under its responsibility all administrative aspects of the event proper coordination, carrying out the specific operational tasks toward a successful event (hosting, accomodation, protocols, event infrastructure and facilities), evenly involving the project partners and the targeted stakeholders.
Event Start Date (dd-mm- yyyy)	2023-09-13
Event End Date (dd-mm-yyyy)	2023-09-14
Project Results Covered	Project Results Details (2) Project Results Details (3) Project Results Details (5)
Event other Participating Organisations	Academia Navala "Mircea cel Batran" (E10093117 - Romania) T. C. Piri Reis Universitesi (E10105404 - Turkey) Nikola Yonkov Vaptsarov Naval Academy (E10108590 - Bulgaria) AKADEMIA MARYNARKI WOJENNEJ (E10090628 - Poland)

Multiplier Events Budget

Event ID	5
Organisation	Lietuvos aukstoji jureivystes mokykla (E10108901 - Lithuania)

Country of the Organisation	Lithuania
Local Participants	30
Foreign Participants	10
Participants in virtual events	0
Grant per Local Participant	100.0
Grant per Foreign Participant	200.0
Grant per Participant in virtual events	15
Grant	5000.0



Learning, Teaching, Training Activities

Do you plan to include learning, teaching or training activities in your project? Yes

Activities Summary

In case you plan to include learning, teaching or training activities please encode them here.

ID	Activity Title	Leading Organisation	Country of venue	Start period	N° of Participants	N° of Accompanying Persons	Total Grant
C1	Digital exercises on shiphandling simulator – exchange of good practices and building tutorial digital courses	Academia Navala "Mircea cel Batran" (E10093117 Romania)	Romania	2021-11	20	0	11800.0
C2	Digital exercises on engine room simulator – exchange of good practices and building tutorial digital courses	AKADEMIA MARYNARKI WOJENNEJ (E10090628 Poland)	Poland	2021-11	20	0	12565
СЗ	Digital exercises on cargo handling simulator – exchange of good practices and building tutorial digital courses	Lietuvos aukstoji jureivystes mokykla (E10108901 Lithuania)	Lithuania	2021-11	20	0	17745
C4	Watchkeeping course on bridge simulator for deck cadets – blended training session on practice to virtual	Nikola Yonkov Vaptsarov Naval Academy (E10108590 Bulgaria)	Bulgaria	2021-11	20	0	11510.0
C5	Watchkeeping course on engine room simulator for engine cadets - blended training session practice	T. C. Piri Reis Universitesi (E10105404 Turkey)	Turkey	2021-11	20	0	11800.0



to virtual

Background Information

How will these learning, teaching or training activities help achieving your project objectives?

The learning and teaching activities planned consist in promoting extensive and intensive study programmes to value the common experience achieved by the partners in field of teaching by simulators, aiming to harmonize the practices. First 3 modules are focused on exchange of good practices in simulating teaching techniques and the last 2 modules are designed to practice the drafted guidance and to test the digital materials on students, together with the evaluation procedure. Beside the virtual campus activities, the face-to-face courses will offer the opportunity of physical exchange of ideas on the spot, using the real simulators but in comparison with the online techniques. The teachers will also be able to work on hard skills designed in O1 and O2 and will be able to exchange ideas on O3 functionality. New research ideas could come up during these meeting to be valued in O4, the F- 2-F activities facilitating the research network creation. Also, the project will contribute in peer-to-peer networking development, bringing together experienced teachers from each partner.

How will you select, prepare and support participants and ensure their safety? Please describe the practical arrangements including training, teaching or learning agreements, if applicable.

The organizing institution will deal, on its own assumed responsibility, with all safety measures required in order to provide a safe working environment for the participants. On each event the participant will be kept also to enclose an insurance for travel purposes. On the other hand, the organizing institution will provide support to the participants, for accommodation, shuttle/ transfer services, domestic transportation and other inquired services, as required, on convenient terms with the restriction of resources availability. During the events the organizing partner will be responsible for guest safety carrying out all respective arrangements. The selection of participant teachers and students will be carried out applying the internal procedure of each partner, with a prior notification (i.e.by application form), of organizing partner. The risk management will be carried out according to quality management system ISO-9001/2015, where the risk factors are identified and the action procedures and responsible persons are stipulated. For each activity (i.e. courses) the partners will sign individual training agreement, according to exchange settlements under Erasmus+ procedures and agreements, where the training program and the objectives will be advertise on the partners websites timely, for the sake of proper transparency and accountability.

Please also describe the arrangements for recognition or validation of the learning outcomes of the participants in learning, teaching or training activities. Will your project make use of European instruments like Europass, ECVET, Youthpass, ECTS etc. or any national instruments/certificates?

As all partners are awarded with the European Higher Education Charter, the Europass and ECTS will be used for recognition and validation of the learning outcomes. The teachers will receive certificates of qualification in maritime leadership on simulating environment (bridge and engine specialties) that will count in annual personal evaluation file as professional skills refreshing course. The students will receive certificates of qualification in ship maneuvering and engine room watchkeeping, proving the hard skills achievement. The ECTS recognition regulations will be applied for students (2 ECTS/module = 50 learning/preparation hours, out of which 30 physical training hours), according to EU rules and to the institutional procedures. For virtual classes, on those 5 harmonized courses that will be uploaded in the virtual campus (O5), certificates will be issued for students and also ECTS credits recognition procedure will be applied, considering the respective credit number specified in the syllabus. For each activity (i.e. courses) the partners will sign individual training agreement, according to exchange settlements under Erasmus+ procedures and agreements, where the training program and the objectives will be stipulated with accuracy.

Activity Details (Digital exercises on shiphandling simulator – exchange of good practices and building tutorial digital courses)

In this section, you are asked to provide details about this specific activity. The section consists of two parts: Activity Details and Groups of Participants.

In the first part (Activity Details) you are asked to provide information about the planned activity as a whole, to define the activity's lead organisation, and to list the other participating organisations. The lead organisation is typically the one hosting the activity in its premises. In case you decide to organise the activity outside of the lead organisation's premises,

you must respect the detailed rules provided in the Programme Guide and you need to provide an explanation for this choice as part of the activity description. The other participating organisations are all project partners who will send their participants to take part in the activity. Adding a partner organisation to the list of participating organisations will allow you to ask funding for their participants in the second part of this section.

In the second part (Groups of Participants) you are asked to provide some details about the participants who will take part in this activity. The main purpose of this section is to calculate the budget that the project will receive for the participants' travel, individual support and other expenses. The participants are organised in groups for easier calculation. Each group and its budget are linked to their sending organisation.

LTT ID C1

Activity Title

Digital exercises on shiphandling simulator – exchange of good practices and building tutorial digital courses

The activity consists in a training module for teachers at MBNA's ship handling and navigation simulator (see in attachment the simulator description). The course includes technical aspects of teaching that have a direct relation with the maritime simulator world. The course involves conventional teaching and training methods, participative training techniques (such as task solving, both individually and in groups), simulation exercises involving 'role playing'. The participants from each partner should be specialized teachers/trainers in Navigation domain, which are familiarized with this type of simulator and understand the main working principles, its features and limitations. In addition, participants should have basic knowledge of computer systems and IMO Regulations. The qualification and experience of the instructor will play an important role just as its application to any course. Although, it is not only understood but implied as well, a seafaring background is a must. However, a seafaring background alone cannot be considered sufficient. What is necessary is an aptitude for maritime simulator training - an aptitude to pass on the knowledge. The goal of the activity is exchange of good practices between professionals regarding use of navigational simulator in teaching activities, tips and tricks, scenario editing, students' evaluation. Each participant will be invited to share his/her work experience with the simulator of the organization they come from. The objective is to develop a sensitive instructor who fully understands the personality of a seafarer, the importance of simulation in maritime training, and pedagogy skill in order to impart sound and practical training to the maritime students. In terms of results of the activity, it is envisaged that the participants will have achieved a conceptual understanding of the importance of maritime education and simulator training with a view of the human element in shipping and special working environment on board a ship. In addition, this course would also assist in giving the participants an understanding into the psychology of learning in order to design and conduct simulator-based training programmes, including exercises and detailed briefing and debriefing.

Activity Description (including profile of participants per organisation, goals and results of the activity)



Country of Venue	Romania
Start period	2021-11
End period	2021-11
Duration (days)	5
Participating Organisations	E10105404, E10108590, E10108901, E10090628

Activity Budget

Budget Items	Grant
Travel Support	4 550
Green Travel Support	0
Exceptional Costs for Expensive Travel	0
Individual Support	7 250
Inclusion Support	0
Linguistic Support	0
Total Activity Grant	11 800



Summary of Groups of Participants

In the following table, please define the groups of participants who will require funding to participate in this activity. Participants who do not require funding (for example local participants) do not need to be specified in this part.

To request funds for participants in this group, please complete the information below.

Please note that there are two categories of persons who can be funded: people directly taking part in the planned activity (always referred to as participants) and accompanying persons. Accompanying persons include teachers or other staff travelling together with pupils, as well as assistants supporting participants with special needs.

Grant rates for Individual Support are different for participants and accompanying persons. Therefore, you need to specify the requested duration for Individual Support separately for the two categories of persons. At the same time, grants for travel are the same for participants and accompanying persons. Therefore, for travel you should add together all persons requiring a grant.

Finally, please be aware that in case later on you decide to modify the information about the activity (e.g. its duration or number of participants), the modification will not be automatically reflected for the different groups of participants and different budget items. Therefore, please make sure that all budget requests are correct before submitting your application.

Group ID	Sending organisation	Type of participant	Number of participants	Number of accompanying persons	Duration of activity excluding travel	Green travel	Distance bands	Travel days	Total duration	Grant
1	AKADEMIA MARYNARKI WOJENNEJ (E10090628 - Poland)	Learners	5	0	5		500 - 1999 km	2	7	3405
2	Lietuvos aukstoji jureivystes mokykla (E10108901 - Lithuania)	Learners	5	0	5		500 - 1999 km	2	7	3405
3	Nikola Yonkov	Learners	5	0	5		100 - 499 km	0	5	2350.0



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Vaptsarov Nava Academy	l						
(E10108590 -							
Bulgaria)							
T. C. Piri Reis Universitesi (E10105404 - Turkey)	Learners	5	0	5	100 - 499 km 1	6	2640.0



Group 1

Group Budget Summary

Budget Items	Grant
Travel Support	1 375
Green Travel Support	0
Exceptional Costs for Expensive Travel	0
Individual Support	2 030
Inclusion Support	0
Total Activity Grant	3 405

To estimate the distances between places, please use the European Commission's distance calculator: <u>https://ec.europa.eu/programmes/erasmus-plus/resources/distance-calculator_en</u>

Travel support

Green travel	
Distance Band	500 - 1999 km
Exceptional costs for expensive travel	0
N° of Participants	5
Grant per Participant	275
Total Travel Grant	1 375

Individual support

Please note that additional individual support for up to two travel days may be requested if the participants are required to travel on the day before or after the activity and three days in case of green travel.

Type of participant	Learners
N° of Participants	5
Duration per Participant (days)	7
Grant per Participant	406,000
Total (for Participants)	2 030,00
N° of Accompanying Persons	0
Duration per Accompanying Person (days)	0
Grant per Accompanying Person	0
Total (for Accompanying Persons)	0
Total Individual Support Grant	2 030

Inclusion Support

Number of participants	
Number of participants for inclusion support	0
Inclusion support for organisations	0

Group 2

Group Budget Summary

Budget Items	Grant
Travel Support	1 375
Green Travel Support	0
Exceptional Costs for Expensive Travel	0
Individual Support	2 030
Inclusion Support	0
Total Activity Grant	3 405

To estimate the distances between places, please use the European Commission's distance calculator: https://ec.europa.eu/programmes/erasmus-plus/resources/distance-calculator_en

Travel support

Green travel	
Distance Band	500 - 1999 km
Exceptional costs for expensive travel	0
N° of Participants	5
Grant per Participant	275
Total Travel Grant	1 375

Individual support

Please note that additional individual support for up to two travel days may be requested if the participants are required to travel on the day before or after the activity and three days in case of green travel.

Type of participant	Learners
N° of Participants	5
Duration per Participant (days)	7
Grant per Participant	406,000
Total (for Participants)	2 030,00
N° of Accompanying Persons	0
Duration per Accompanying Person (days)	0
Grant per Accompanying Person	0

Total (for Accompanying Persons)	0
Total Individual Support Grant	2 030

Inclusion Support

Number of participants	
Number of participants for inclusion support	0
Inclusion support for organisations	0

Group 3

Group Budget Summary

Budget Items	Grant
Travel Support	900
Green Travel Support	0
Exceptional Costs for Expensive Travel	0
Individual Support	1 450
Inclusion Support	0
Total Activity Grant	2 350

To estimate the distances between places, please use the European Commission's distance calculator: <u>https://ec.europa.eu/programmes/erasmus-plus/resources/distance-calculator_en</u>

Travel support

Green travel	
Distance Band	100 - 499 km
Exceptional costs for expensive travel	0
N° of Participants	5
Grant per Participant	180
Total Travel Grant	900

Individual support

Please note that additional individual support for up to two travel days may be requested if the participants are required to travel on the day before or after the activity and three days in case of green travel.

Type of participant	Learners
N° of Participants	5
Duration per Participant (days)	5

Grant per Participant	290,000
Total (for Participants)	1 450,00
N° of Accompanying Persons	0
Duration per Accompanying Person (days)	0
Grant per Accompanying Person	0
Total (for Accompanying Persons)	0
Total Individual Support Grant	1 450

Inclusion Support

Number of participants	
Number of participants for inclusion support	0
Inclusion support for organisations	0

Group 4

Group Budget Summary

Budget Items	Grant
Travel Support	900
Green Travel Support	0
Exceptional Costs for Expensive Travel	0
Individual Support	1 740
Inclusion Support	0
Total Activity Grant	2 640

To estimate the distances between places, please use the European Commission's distance calculator: https://ec.europa.eu/programmes/erasmus-plus/resources/distance-calculator_en

Travel support

Green travel	
Distance Band	100 - 499 km
Exceptional costs for expensive travel	0
N° of Participants	5
Grant per Participant	180
Total Travel Grant	900

Individual support

Please note that additional individual support for up to two travel days may be requested if the participants are required to travel on the day before or after the activity and three days in case of green travel.

Type of participant	Learners
N° of Participants	5
Duration per Participant (days)	6
Grant per Participant	348,000
Total (for Participants)	1 740,00
N° of Accompanying Persons	0
Duration per Accompanying Person (days)	0
Grant per Accompanying Person	0
Total (for Accompanying Persons)	0
Total Individual Support Grant	1 740

Inclusion Support

Number of participants	
Number of participants for inclusion support	0
Inclusion support for organisations	0

Activity Details (Digital exercises on engine room simulator – exchange of good practices and building tutorial digital courses)

In this section, you are asked to provide details about this specific activity. The section consists of two parts: Activity Details and Groups of Participants.

In the first part (Activity Details) you are asked to provide information about the planned activity as a whole, to define the activity's lead organisation, and to list the other participating organisations. The lead organisation is typically the one hosting the activity in its premises. In case you decide to organise the activity outside of the lead organisation's premises, you must respect the detailed rules provided in the Programme Guide and you need to provide an explanation for this choice as part of the activity description. The other participating organisations are all project partners who will send their participants to take part in the activity. Adding a partner organisation to the list of participating organisations will allow you to ask funding for their participants in the second part of this section.

In the second part (Groups of Participants) you are asked to provide some details about the participants who will take part in this activity. The main purpose of this section is to calculate the budget that the project will receive for the participants' travel, individual support and other expenses. The participants are organised in groups for easier calculation. Each group and its budget are linked to their sending organisation.

LTT ID	C2
Activity Title	Digital exercises on engine room simulator – exchange of good practices and building tutorial digital courses
Activity Description (including profile of participants	The activity consists in a training module for teachers at PNA's
per organisation, goals and results of the activity)	engine
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	teaching
	world. 7

room simulator. The course includes technical aspects of ng that have a direct relation with the maritime simulator world. The course involves conventional teaching and training methods, participative training techniques (such as task solving, both individually and in groups), simulation exercises involving 'role playing'. The participants from each partner should be specialized teachers/trainers in Naval Electromechanics domain, which are familiarized with this type of simulator and understand the main working principles, its features and limitations. In addition, participants should have basic knowledge of computer systems and IMO Regulations. The gualification and experience of the instructor will play an important role just as its application to any course. Although, it is not only understood but implied as well, a seafaring background is a must. However, a seafaring background alone cannot be considered sufficient. What is necessary is an aptitude for maritime simulator training - an aptitude to pass on the knowledge. The goal of the activity is exchange of good practices between professionals regarding use of engine room simulator in teaching activities, tips and tricks, scenario editing, students' evaluation. Each participant will be invited to share his/her work experience with the simulator of the organization they come from. The objective is to develop a sensitive instructor who fully understands the personality of a seafarer, the importance of simulation in maritime training, and pedagogy skill in order to impart sound and practical training to the maritime students. In terms of results of the activity, it is envisaged that the participants will have achieved a conceptual understanding of the importance of maritime education and simulator training with a view of the human element in shipping and special working environment on board a ship. In addition, this course would also assist in giving the participants an understanding into the psychology of learning in order to design and conduct simulator-based training programmes, including exercises and detailed briefing and debriefing.

Country of Venue	Poland
Start period	2021-11
End period	2021-11
Duration (days)	5
Participating Organisations	E10093117, E10105404, E10108590, E10108901

Activity Budget

Budget Items	Grant
Travel Support	5 025
Green Travel Support	0
Exceptional Costs for Expensive Travel	0
Individual Support	7 540



Inclusion Support	0
Linguistic Support	0
Total Activity Grant	12 565



Summary of Groups of Participants

In the following table, please define the groups of participants who will require funding to participate in this activity. Participants who do not require funding (for example local participants) do not need to be specified in this part.

To request funds for participants in this group, please complete the information below.

Please note that there are two categories of persons who can be funded: people directly taking part in the planned activity (always referred to as participants) and accompanying persons. Accompanying persons include teachers or other staff travelling together with pupils, as well as assistants supporting participants with special needs.

Grant rates for Individual Support are different for participants and accompanying persons. Therefore, you need to specify the requested duration for Individual Support separately for the two categories of persons. At the same time, grants for travel are the same for participants and accompanying persons. Therefore, for travel you should add together all persons requiring a grant.

Finally, please be aware that in case later on you decide to modify the information about the activity (e.g. its duration or number of participants), the modification will not be automatically reflected for the different groups of participants and different budget items. Therefore, please make sure that all budget requests are correct before submitting your application.

Group ID	Sending organisation	Type of participant	Number of participants	Number of accompanying persons	Duration of activity excluding travel	Green travel	Distance bands	Travel days	Total duration	Grant
1	Academia Navala "Mircea cel Batran" (E10093117 - Romania)	Learners	5	0	5		500 - 1999 km	2	7	3405
2	Lietuvos aukstoji jureivystes mokykla (E10108901 - Lithuania)	Learners	5	0	5		100 - 499 km	0	5	2350.0
3	Nikola Yonkov	Learners	5	0	5		500 - 1999 km	2	7	3405



4

Vaptsarov Nava	al						
Academy							
(E10108590 -							
Bulgaria)							
T. C. Piri Reis							
Universitesi	Learners	5	0	5	500 - 1999 km 2	7	3405
(E10105404 -	Learners	5	0	5	500 - 1995 Km Z	7	5405
Turkey)							



Group 1

Group Budget Summary

Budget Items	Grant
Travel Support	1 375
Green Travel Support	0
Exceptional Costs for Expensive Travel	0
Individual Support	2 030
Inclusion Support	0
Total Activity Grant	3 405

To estimate the distances between places, please use the European Commission's distance calculator: <u>https://ec.europa.eu/programmes/erasmus-plus/resources/distance-calculator_en</u>

Travel support

Green travel	
Distance Band	500 - 1999 km
Exceptional costs for expensive travel	0
N° of Participants	5
Grant per Participant	275
Total Travel Grant	1 375

Individual support

Please note that additional individual support for up to two travel days may be requested if the participants are required to travel on the day before or after the activity and three days in case of green travel.

Type of participant	Learners
N° of Participants	5
Duration per Participant (days)	7
Grant per Participant	406,000
Total (for Participants)	2 030,00
N° of Accompanying Persons	0
Duration per Accompanying Person (days)	0
Grant per Accompanying Person	0
Total (for Accompanying Persons)	0
Total Individual Support Grant	2 030

Inclusion Support

Number of participants	
Number of participants for inclusion support	0
Inclusion support for organisations	0

Group 2

Group Budget Summary

Budget Items	Grant
Travel Support	900
Green Travel Support	0
Exceptional Costs for Expensive Travel	0
Individual Support	1 450
Inclusion Support	0
Total Activity Grant	2 350

To estimate the distances between places, please use the European Commission's distance calculator: <u>https://ec.europa.eu/programmes/erasmus-plus/resources/distance-calculator_en</u>

Travel support

Gre	en travel	
Dist	ance Band	100 - 499 km
Exc	eptional costs for expensive travel	0
N°	of Participants	5
Gra	nt per Participant	180
Tota	al Travel Grant	900

Individual support

Please note that additional individual support for up to two travel days may be requested if the participants are required to travel on the day before or after the activity and three days in case of green travel.

Type of participant	Learners
N° of Participants	5
Duration per Participant (days)	5
Grant per Participant	290,000
Total (for Participants)	1 450,00
N° of Accompanying Persons	0
Duration per Accompanying Person (days)	0
Grant per Accompanying Person	0

Total (for Accompanying Persons)	0
Total Individual Support Grant	1 450

Inclusion Support

Number of participants	
Number of participants for inclusion support	0
Inclusion support for organisations	0

Group 3

Group Budget Summary

Budget Items	Grant
Travel Support	1 375
Green Travel Support	0
Exceptional Costs for Expensive Travel	0
Individual Support	2 030
Inclusion Support	0
Total Activity Grant	3 405

To estimate the distances between places, please use the European Commission's distance calculator: <u>https://ec.europa.eu/programmes/erasmus-plus/resources/distance-calculator_en</u>

Travel support

Green travel	
Distance Band	500 - 1999 km
Exceptional costs for expensive travel	0
N° of Participants	5
Grant per Participant	275
Total Travel Grant	1 375

Individual support

Please note that additional individual support for up to two travel days may be requested if the participants are required to travel on the day before or after the activity and three days in case of green travel.

Type of participant	Learners
N° of Participants	5
Duration per Participant (days)	7

Grant per Participant	406,000
Total (for Participants)	2 030,00
N° of Accompanying Persons	0
Duration per Accompanying Person (days)	0
Grant per Accompanying Person	0
Total (for Accompanying Persons)	0
Total Individual Support Grant	2 030

Inclusion Support

Number of participants	
Number of participants for inclusion support	0
Inclusion support for organisations	0

Group 4

Group Budget Summary

Budget Items	Grant
Travel Support	1 375
Green Travel Support	0
Exceptional Costs for Expensive Travel	0
Individual Support	2 030
Inclusion Support	0
Total Activity Grant	3 405

To estimate the distances between places, please use the European Commission's distance calculator: https://ec.europa.eu/programmes/erasmus-plus/resources/distance-calculator_en

Travel support

Green travel	
Distance Band	500 - 1999 km
Exceptional costs for expensive travel	0
N° of Participants	5
Grant per Participant	275
Total Travel Grant	1 375

Individual support

Please note that additional individual support for up to two travel days may be requested if the participants are required to travel on the day before or after the activity and three days in case of green travel.

Type of participant	Learners
N° of Participants	5
Duration per Participant (days)	7
Grant per Participant	406,000
Total (for Participants)	2 030,00
N° of Accompanying Persons	0
Duration per Accompanying Person (days)	0
Grant per Accompanying Person	0
Total (for Accompanying Persons)	0
Total Individual Support Grant	2 030

Inclusion Support

Number of participants	
Number of participants for inclusion support	0
Inclusion support for organisations	0

Activity Details (Digital exercises on cargo handling simulator – exchange of good practices and building tutorial digital courses)

In this section, you are asked to provide details about this specific activity. The section consists of two parts: Activity Details and Groups of Participants.

In the first part (Activity Details) you are asked to provide information about the planned activity as a whole, to define the activity's lead organisation, and to list the other participating organisations. The lead organisation is typically the one hosting the activity in its premises. In case you decide to organise the activity outside of the lead organisation's premises, you must respect the detailed rules provided in the Programme Guide and you need to provide an explanation for this choice as part of the activity description. The other participating organisations are all project partners who will send their participants to take part in the activity. Adding a partner organisation to the list of participating organisations will allow you to ask funding for their participants in the second part of this section.

In the second part (Groups of Participants) you are asked to provide some details about the participants who will take part in this activity. The main purpose of this section is to calculate the budget that the project will receive for the participants' travel, individual support and other expenses. The participants are organised in groups for easier calculation. Each group and its budget are linked to their sending organisation.

LTT ID	C3
Activity Title	Digital exercises on cargo handling simulator – exchange of good practices and building tutorial digital courses
Activity Description (including profile of participants	The activity consists in a training module for teachers at I MA

per organisation.	goals and results of the activity)	
po		

cargo handling simulator (Klaipede, Lithuania). The course includes technical aspects of teaching that have a direct relation with the maritime simulator world. The course involves conventional teaching and training methods, participative training techniques (such as task solving, both individually and in groups), simulation exercises involving 'role playing'. The participants from each partner should be specialized teachers/trainers in Logistics/Navigation domain, which are familiarized with this type of simulator and understand the main working principles, its features and limitations. In addition, participants should have basic knowledge of computer systems and IMO Regulations. The gualification and experience of the instructor will play an important role just as its application to any course. Although, it is not only understood but implied as well, a seafaring background is a must. However, a seafaring background alone cannot be considered sufficient. What is necessary is an aptitude for maritime simulator training - an aptitude to pass on the knowledge. The goal of the activity is exchange of good practices between professionals regarding use of cargo (liquid or solid) handling simulator in teaching activities, tips and tricks, scenario editing, students' evaluation. Each participant will be invited to share his/her work experience with the simulator of the organization they come from. The objective is to develop a sensitive instructor who fully understands the personality of a seafarer, the importance of simulation in maritime training, and pedagogy skill in order to impart sound and practical training to the maritime students. In terms of results of the activity, it is envisaged that the participants will have achieved a conceptual understanding of the importance of maritime education and simulator training with a view of the human element in shipping and special working environment on board a ship. In addition, this course would also assist in giving the participants an understanding into the psychology of learning in order to design and conduct simulator-based training programmes, including exercises and detailed briefing and debriefing.

Country of Venue	Lithuania
Start period	2021-11
End period	2021-11
Duration (days)	5
Participating Organisations	E10093117, E10105404, E10108590, E10090628

Activity Budget

Budget Items	Grant
Travel Support	5 025
Green Travel Support	0
Exceptional Costs for Expensive Travel	0

Individual Support	12 720
Inclusion Support	0
Linguistic Support	0
Total Activity Grant	17 745



Summary of Groups of Participants

In the following table, please define the groups of participants who will require funding to participate in this activity. Participants who do not require funding (for example local participants) do not need to be specified in this part.

To request funds for participants in this group, please complete the information below.

Please note that there are two categories of persons who can be funded: people directly taking part in the planned activity (always referred to as participants) and accompanying persons. Accompanying persons include teachers or other staff travelling together with pupils, as well as assistants supporting participants with special needs.

Grant rates for Individual Support are different for participants and accompanying persons. Therefore, you need to specify the requested duration for Individual Support separately for the two categories of persons. At the same time, grants for travel are the same for participants and accompanying persons. Therefore, for travel you should add together all persons requiring a grant.

Finally, please be aware that in case later on you decide to modify the information about the activity (e.g. its duration or number of participants), the modification will not be automatically reflected for the different groups of participants and different budget items. Therefore, please make sure that all budget requests are correct before submitting your application.

Group ID	Sending organisation	Type of participant	Number of participants	Number of accompanying persons	Duration of activity excluding travel	Green travel	Distance bands	Travel days	Total duration	Grant
1	Academia Navala "Mircea cel Batran" (E10093117 - Romania)	Staff	5	0	5		500 - 1999 km	2	7	5085
2	AKADEMIA MARYNARKI WOJENNEJ (E10090628 - Poland)	Staff	5	0	5		100 - 499 km	0	5	3550.0
3	Nikola Yonkov Vaptsarov Naval	Staff	5	0	5		500 - 1999 km	2	7	5085



4

Academy (E10108590 - Bulgaria)							
T. C. Piri Reis Universitesi (E10105404 - Turkey)	Staff	5	0	5	500 - 1999 km 2	7	4025



Group 1

Group Budget Summary

Budget Items	Grant
Travel Support	1 375
Green Travel Support	0
Exceptional Costs for Expensive Travel	0
Individual Support	3 710
Inclusion Support	0
Total Activity Grant	5 085

To estimate the distances between places, please use the European Commission's distance calculator: https://ec.europa.eu/programmes/erasmus-plus/resources/distance-calculator_en

Travel support

Green travel	
Distance Band	500 - 1999 km
Exceptional costs for expensive travel	0
N° of Participants	5
Grant per Participant	275
Total Travel Grant	1 375

Individual support

Please note that additional individual support for up to two travel days may be requested if the participants are required to travel on the day before or after the activity and three days in case of green travel.

Type of participant	Staff
N° of Participants	5
Duration per Participant (days)	7
Grant per Participant	742,000
Total (for Participants)	3 710,00
N° of Accompanying Persons	0
Duration per Accompanying Person (days)	0
Grant per Accompanying Person	0
Total (for Accompanying Persons)	0
Total Individual Support Grant	3 710

Inclusion Support

Number of participants	
Number of participants for inclusion support	0
Inclusion support for organisations	0

Group 2

Group Budget Summary

Budget Items	Grant
Travel Support	900
Green Travel Support	0
Exceptional Costs for Expensive Travel	0
Individual Support	2 650
Inclusion Support	0
Total Activity Grant	3 550

To estimate the distances between places, please use the European Commission's distance calculator: <u>https://ec.europa.eu/programmes/erasmus-plus/resources/distance-calculator_en</u>

Travel support

Gre	en travel	
Dist	ance Band	100 - 499 km
Exc	eptional costs for expensive travel	0
N°	of Participants	5
Gra	nt per Participant	180
Tota	al Travel Grant	900

Individual support

Please note that additional individual support for up to two travel days may be requested if the participants are required to travel on the day before or after the activity and three days in case of green travel.

Type of participant	Staff
N° of Participants	5
Duration per Participant (days)	5
Grant per Participant	530,000
Total (for Participants)	2 650,00
N° of Accompanying Persons	0
Duration per Accompanying Person (days)	0
Grant per Accompanying Person	0

Total (for Accompanying Persons)	0
Total Individual Support Grant	2 650

Inclusion Support

Number of participants	
Number of participants for inclusion support	0
Inclusion support for organisations	0

Group 3

Group Budget Summary

Budget Items	Grant
Travel Support	1 375
Green Travel Support	0
Exceptional Costs for Expensive Travel	0
Individual Support	3 710
Inclusion Support	0
Total Activity Grant	5 085

To estimate the distances between places, please use the European Commission's distance calculator: <u>https://ec.europa.eu/programmes/erasmus-plus/resources/distance-calculator_en</u>

Travel support

Green travel	
Distance Band	500 - 1999 km
Exceptional costs for expensive travel	0
N° of Participants	5
Grant per Participant	275
Total Travel Grant	1 375

Individual support

Please note that additional individual support for up to two travel days may be requested if the participants are required to travel on the day before or after the activity and three days in case of green travel.

Type of participant	Staff
N° of Participants	5
Duration per Participant (days)	7

Grant per Participant	742,000
Total (for Participants)	3 710,00
N° of Accompanying Persons	0
Duration per Accompanying Person (days)	0
Grant per Accompanying Person	0
Total (for Accompanying Persons)	0
Total Individual Support Grant	3 710

Inclusion Support

Number of participants	
Number of participants for inclusion support	0
Inclusion support for organisations	0

Group 4

Group Budget Summary

Budget Items	Grant
Travel Support	1 375
Green Travel Support	0
Exceptional Costs for Expensive Travel	0
Individual Support	2 650
Inclusion Support	0
Total Activity Grant	4 025

To estimate the distances between places, please use the European Commission's distance calculator: https://ec.europa.eu/programmes/erasmus-plus/resources/distance-calculator_en

Travel support

Green travel	
Distance Band	500 - 1999 km
Exceptional costs for expensive travel	0
N° of Participants	5
Grant per Participant	275
Total Travel Grant	1 375

Individual support

Please note that additional individual support for up to two travel days may be requested if the participants are required to travel on the day before or after the activity and three days in case of green travel.

Type of participant	Staff
N° of Participants	5
Duration per Participant (days)	7
Grant per Participant	530,000
Total (for Participants)	2 650,00
N° of Accompanying Persons	0
Duration per Accompanying Person (days)	0
Grant per Accompanying Person	0
Total (for Accompanying Persons)	0
Total Individual Support Grant	2 650

Inclusion Support

Number of participants	
Number of participants for inclusion support	0
Inclusion support for organisations	0

Activity Details (Watchkeeping course on bridge simulator for deck cadets – blended training session on practice to virtual)

In this section, you are asked to provide details about this specific activity. The section consists of two parts: Activity Details and Groups of Participants.

In the first part (Activity Details) you are asked to provide information about the planned activity as a whole, to define the activity's lead organisation, and to list the other participating organisations. The lead organisation is typically the one hosting the activity in its premises. In case you decide to organise the activity outside of the lead organisation's premises, you must respect the detailed rules provided in the Programme Guide and you need to provide an explanation for this choice as part of the activity description. The other participating organisations are all project partners who will send their participants to take part in the activity. Adding a partner organisation to the list of participating organisations will allow you to ask funding for their participants in the second part of this section.

In the second part (Groups of Participants) you are asked to provide some details about the participants who will take part in this activity. The main purpose of this section is to calculate the budget that the project will receive for the participants' travel, individual support and other expenses. The participants are organised in groups for easier calculation. Each group and its budget are linked to their sending organisation.

LTT ID	C4
Activity Title	Watchkeeping course on bridge simulator for deck cadets – blended training session on practice to virtual
Activity Description (including profile of participants	The activity consists in a training module for students organized at

	Nikola Yonkov Vaptsarov Naval Academy in Varna, Bulgaria. The course is addressed to the navigation students, and will use the virtual simulator for navigation (Transas-Wärtsilä NETPRO 5500). During this course, the teachers will apply the innovative teaching techniques as determined in C1, C2 and C3. Also, comparison among the scenario version efficiency will be conducted. The students will test the f2f exercises but also the virtual online scenarios, the teachers having the opportunity to compare the results and the enhance the educational processes. Also, the course is necessary to only to enhance the learning process but it is is critical in order to identify the best methods in evaluation, to certify the competence of the student. For this analysis the students will face different levels of complexity simulator exercises designed for deck cadets, with and without the computer-based assessment system applied. The teaching session will be recorded and analyzed in comparison with digital samples produced in O2 objective. The participants from each partner should be students from Navigation study programme in the 3rd or 4th year of study which already had contact with marine simulator and are familiar with the basic operations. The goal of the activity is to put into practice achievements from C1 and C3 activities (Digital exercises on navigation and cargo handling simulators – exchange of good practices and building tutorial digital courses) by testing the teaching materials effectiveness and the assessment system of the ship handling and navigation simulator using deck cadets, after they are briefed about the competences pursued, exercise's objectives and the expected course of actions. The course will contribute in support of 01, 02, 03 and 04 intellectual outputs, serving as a solid sample of traditional teaching session transformation into a digital environment resource.
Country of Venue	Bulgaria
Start period	2021-11
End period	2021-11

Duration (days)

Participating Organisations

E10093117, E10105404, E10090628, E10108901

Activity Budget

Budget Items	Grant
Travel Support	4 550
Green Travel Support	0
Exceptional Costs for Expensive Travel	0
Individual Support	6 960
Inclusion Support	0
Linguistic Support	0
Total Activity Grant	11 510

5



Summary of Groups of Participants

In the following table, please define the groups of participants who will require funding to participate in this activity. Participants who do not require funding (for example local participants) do not need to be specified in this part.

To request funds for participants in this group, please complete the information below.

Please note that there are two categories of persons who can be funded: people directly taking part in the planned activity (always referred to as participants) and accompanying persons. Accompanying persons include teachers or other staff travelling together with pupils, as well as assistants supporting participants with special needs.

Grant rates for Individual Support are different for participants and accompanying persons. Therefore, you need to specify the requested duration for Individual Support separately for the two categories of persons. At the same time, grants for travel are the same for participants and accompanying persons. Therefore, for travel you should add together all persons requiring a grant.

Finally, please be aware that in case later on you decide to modify the information about the activity (e.g. its duration or number of participants), the modification will not be automatically reflected for the different groups of participants and different budget items. Therefore, please make sure that all budget requests are correct before submitting your application.

Group ID	Sending organisation	Type of participant	Number of participants	Number of accompanying persons	Duration of activity excluding travel	Green travel	Distance bands	Travel days	Total duration	Grant
1	Academia Navala "Mircea cel Batran" (E10093117 - Romania)	Learners	5	0	5		100 - 499 km	0	5	2350.0
2	AKADEMIA MARYNARKI WOJENNEJ (E10090628 - Poland)	Learners	5	0	5		500 - 1999 km	2	7	3405
3	Lietuvos aukstoji	Learners	5	0	5		500 - 1999 km	2	7	3405



4

jureivystes mokykla (E10108901 - Lithuania)							
T. C. Piri Reis Universitesi (E10105404 - Turkey)	Learners	5	0	5	100 - 499 km 0	5	2350.0



Group 1

Group Budget Summary

Budget Items	Grant
Travel Support	900
Green Travel Support	0
Exceptional Costs for Expensive Travel	0
Individual Support	1 450
Inclusion Support	0
Total Activity Grant	2 350

To estimate the distances between places, please use the European Commission's distance calculator: <u>https://ec.europa.eu/programmes/erasmus-plus/resources/distance-calculator_en</u>

Travel support

Green travel	
Distance Band	100 - 499 km
Exceptional costs for expensive travel	0
N° of Participants	5
Grant per Participant	180
Total Travel Grant	900

Individual support

Please note that additional individual support for up to two travel days may be requested if the participants are required to travel on the day before or after the activity and three days in case of green travel.

Type of participant	Learners
N° of Participants	5
Duration per Participant (days)	5
Grant per Participant	290,000
Total (for Participants)	1 450,00
N° of Accompanying Persons	0
Duration per Accompanying Person (days)	0
Grant per Accompanying Person	0
Total (for Accompanying Persons)	0
Total Individual Support Grant	1 450

Inclusion Support

Number of participants	
Number of participants for inclusion support	0
Inclusion support for organisations	0

Group 2

Group Budget Summary

Budget Items	Grant
Travel Support	1 375
Green Travel Support	0
Exceptional Costs for Expensive Travel	0
Individual Support	2 030
Inclusion Support	0
Total Activity Grant	3 405

To estimate the distances between places, please use the European Commission's distance calculator: https://ec.europa.eu/programmes/erasmus-plus/resources/distance-calculator_en

Travel support

Green travel	
Distance Band	500 - 1999 km
Exceptional costs for expensive travel	0
N° of Participants	5
Grant per Participant	275
Total Travel Grant	1 375

Individual support

Please note that additional individual support for up to two travel days may be requested if the participants are required to travel on the day before or after the activity and three days in case of green travel.

Type of participant	Learners
N° of Participants	5
Duration per Participant (days)	7
Grant per Participant	406,000
Total (for Participants)	2 030,00
N° of Accompanying Persons	0
Duration per Accompanying Person (days)	0
Grant per Accompanying Person	0

Total (for Accompanying Persons)	0
Total Individual Support Grant	2 030

Inclusion Support

Number of participants	
Number of participants for inclusion support	0
Inclusion support for organisations	0

Group 3

Group Budget Summary

Budget Items	Grant
Travel Support	1 375
Green Travel Support	0
Exceptional Costs for Expensive Travel	0
Individual Support	2 030
Inclusion Support	0
Total Activity Grant	3 405

To estimate the distances between places, please use the European Commission's distance calculator: <u>https://ec.europa.eu/programmes/erasmus-plus/resources/distance-calculator_en</u>

Travel support

Green travel	
Distance Band	500 - 1999 km
Exceptional costs for expensive travel	0
N° of Participants	5
Grant per Participant	275
Total Travel Grant	1 375

Individual support

Please note that additional individual support for up to two travel days may be requested if the participants are required to travel on the day before or after the activity and three days in case of green travel.

Type of participant	Learners
N° of Participants	5
Duration per Participant (days)	7

Grant per Participant	406,000
Total (for Participants)	2 030,00
N° of Accompanying Persons	0
Duration per Accompanying Person (days)	0
Grant per Accompanying Person	0
Total (for Accompanying Persons)	0
Total Individual Support Grant	2 030

Inclusion Support

Number of participants	
Number of participants for inclusion support	0
Inclusion support for organisations	0

Group 4

Group Budget Summary

Travel Support 900
Green Travel Support 0
Exceptional Costs for Expensive Travel 0
Individual Support 1 450
Inclusion Support 0
Total Activity Grant 2 350

To estimate the distances between places, please use the European Commission's distance calculator: https://ec.europa.eu/programmes/erasmus-plus/resources/distance-calculator_en

Travel support

Green travel	
Distance Band	100 - 499 km
Exceptional costs for expensive travel	0
N° of Participants	5
Grant per Participant	180
Total Travel Grant	900

Individual support

Please note that additional individual support for up to two travel days may be requested if the participants are required to travel on the day before or after the activity and three days in case of green travel.

Type of participant	Learners
N° of Participants	5
Duration per Participant (days)	5
Grant per Participant	290,000
Total (for Participants)	1 450,00
N° of Accompanying Persons	0
Duration per Accompanying Person (days)	0
Grant per Accompanying Person	0
Total (for Accompanying Persons)	0
Total Individual Support Grant	1 450

Inclusion Support

Number of participants	
Number of participants for inclusion support	0
Inclusion support for organisations	0

Activity Details (Watchkeeping course on engine room simulator for engine cadets – blended training session practice to virtual)

In this section, you are asked to provide details about this specific activity. The section consists of two parts: Activity Details and Groups of Participants.

In the first part (Activity Details) you are asked to provide information about the planned activity as a whole, to define the activity's lead organisation, and to list the other participating organisations. The lead organisation is typically the one hosting the activity in its premises. In case you decide to organise the activity outside of the lead organisation's premises, you must respect the detailed rules provided in the Programme Guide and you need to provide an explanation for this choice as part of the activity description. The other participating organisations are all project partners who will send their participants to take part in the activity. Adding a partner organisation to the list of participating organisations will allow you to ask funding for their participants in the second part of this section.

In the second part (Groups of Participants) you are asked to provide some details about the participants who will take part in this activity. The main purpose of this section is to calculate the budget that the project will receive for the participants' travel, individual support and other expenses. The participants are organised in groups for easier calculation. Each group and its budget are linked to their sending organisation.

LTT ID	C5
Activity Title	Watchkeeping course on engine room simulator for engine cadets – blended training session practice to virtual
Activity Description (including profile of participants	The activity consists in a training module for students organized at

per organisation, goals and results of the activity)	PRU in Istanbul, Turkey. The course is addressed to the engine students - electromechanics specialty, and will use the simulator for engine room. During this course, the teachers will apply the innovative teaching techniques as determined in C1, C2 and C3. Also, comparison among the scenario version efficiency will be conducted. The students will test the f2f exercises but also the virtual online scenarios, the teachers having the opportunity to compare the results and the enhance the educational processes. Also, the course is necessary to only to enhance the learning process but it is is critical in order to identify the best methods in evaluation, to certify the competence of the student. For this analysis the students will face different levels of complexity simulator exercises designed for deck cadets, with and without the computer-based assessment system applied. The goal of the activity is to put into practice achievements from C4 learning activity ("Evaluation methodology of simulation exercises") by testing the assessment system of the simulator using engine cadets, after they are briefed about the competences pursued, exercise's objectives and the expected course of actions. The participants from each partner should be students from Electromechanics study programme in the 3rd or 4th year of study which already had contact with maritime simulator and are familiar with the basic operations onboard the ships, in the engine room watchkeeping. The teaching session will be recorded and analyzed in comparison with digital samples produced in O2 objective. The goal of the activity is to put into practice achievements from C1 and C3 activities (Digital exercises on engine room watchkeeping and cargo handling simulators – exchange of good practices and building tutorial digital courses) by testing the teaching materials effectiveness and the assessment system of the ship handling and navigation simulator using deck cadets, after they are briefed about the competences pursued, exercise's objectives and the expect
Country of Venue	Turkey
Start period	2021-11
End period	2021-11

Start period	2021-11
End period	2021-11
Duration (days)	5
Participating Organisations	E10093117, E10108590, E10090628, E10108901

Activity Budget

Budget Items	Grant
Travel Support	4 550
Green Travel Support	0



Exceptional Costs for Expensive Travel	0
Individual Support	7 250
Inclusion Support	0
Linguistic Support	0
Total Activity Grant	11 800



Summary of Groups of Participants

In the following table, please define the groups of participants who will require funding to participate in this activity. Participants who do not require funding (for example local participants) do not need to be specified in this part.

To request funds for participants in this group, please complete the information below.

Please note that there are two categories of persons who can be funded: people directly taking part in the planned activity (always referred to as participants) and accompanying persons. Accompanying persons include teachers or other staff travelling together with pupils, as well as assistants supporting participants with special needs.

Grant rates for Individual Support are different for participants and accompanying persons. Therefore, you need to specify the requested duration for Individual Support separately for the two categories of persons. At the same time, grants for travel are the same for participants and accompanying persons. Therefore, for travel you should add together all persons requiring a grant.

Finally, please be aware that in case later on you decide to modify the information about the activity (e.g. its duration or number of participants), the modification will not be automatically reflected for the different groups of participants and different budget items. Therefore, please make sure that all budget requests are correct before submitting your application.

Group ID	Sending organisation	Type of participant	Number of participants	Number of accompanying persons	Duration of activity excluding travel	Green travel	Distance bands	Travel days	Total duration	Grant
1	Academia Navala "Mircea cel Batran" (E10093117 - Romania)	Learners	5	0	5		100 - 499 km	1	6	2640.0
2	AKADEMIA MARYNARKI WOJENNEJ (E10090628 - Poland)	Learners	5	0	5		500 - 1999 km	2	7	3405
3	Lietuvos aukstoji	Learners	5	0	5		500 - 1999 km	2	7	3405

4

jureivystes mokykla (E10108901 - Lithuania)								
Nikola Yonkov Vaptsarov Nav Academy	al Learners	5	0	5	100 - 499 km	0	5	2350.0
(E10108590 - Bulgaria)	Leamers	5	0	5	100 - 433 Km	0	5	2000.0



Group 1

Group Budget Summary

Budget Items	Grant
Travel Support	900
Green Travel Support	0
Exceptional Costs for Expensive Travel	0
Individual Support	1 740
Inclusion Support	0
Total Activity Grant	2 640

To estimate the distances between places, please use the European Commission's distance calculator: <u>https://ec.europa.eu/programmes/erasmus-plus/resources/distance-calculator_en</u>

Travel support

Green travel	
Distance Band	100 - 499 km
Exceptional costs for expensive travel	0
N° of Participants	5
Grant per Participant	180
Total Travel Grant	900

Individual support

Please note that additional individual support for up to two travel days may be requested if the participants are required to travel on the day before or after the activity and three days in case of green travel.

Type of participant	Learners
N° of Participants	5
Duration per Participant (days)	6
Grant per Participant	348,000
Total (for Participants)	1 740,00
N° of Accompanying Persons	0
Duration per Accompanying Person (days)	0
Grant per Accompanying Person	0
Total (for Accompanying Persons)	0
Total Individual Support Grant	1 740

Inclusion Support

Number of participants	
Number of participants for inclusion support	0
Inclusion support for organisations	0

Group 2

Group Budget Summary

Budget Items	Grant
Travel Support	1 375
Green Travel Support	0
Exceptional Costs for Expensive Travel	0
Individual Support	2 030
Inclusion Support	0
Total Activity Grant	3 405

To estimate the distances between places, please use the European Commission's distance calculator: https://ec.europa.eu/programmes/erasmus-plus/resources/distance-calculator_en

Travel support

Green travel	
Distance Band	500 - 1999 km
Exceptional costs for expensive travel	0
N° of Participants	5
Grant per Participant	275
Total Travel Grant	1 375

Individual support

Please note that additional individual support for up to two travel days may be requested if the participants are required to travel on the day before or after the activity and three days in case of green travel.

Type of participant	Learners
N° of Participants	5
Duration per Participant (days)	7
Grant per Participant	406,000
Total (for Participants)	2 030,00
N° of Accompanying Persons	0
Duration per Accompanying Person (days)	0
Grant per Accompanying Person	0

Total (for Accompanying Persons)	0
Total Individual Support Grant	2 030

Inclusion Support

Number of participants	
Number of participants for inclusion support	0
Inclusion support for organisations	0

Group 3

Group Budget Summary

Budget Items	Grant
Travel Support	1 375
Green Travel Support	0
Exceptional Costs for Expensive Travel	0
Individual Support	2 030
Inclusion Support	0
Total Activity Grant	3 405

To estimate the distances between places, please use the European Commission's distance calculator: <u>https://ec.europa.eu/programmes/erasmus-plus/resources/distance-calculator_en</u>

Travel support

Green travel	
Distance Band	500 - 1999 km
Exceptional costs for expensive travel	0
N° of Participants	5
Grant per Participant	275
Total Travel Grant	1 375

Individual support

Please note that additional individual support for up to two travel days may be requested if the participants are required to travel on the day before or after the activity and three days in case of green travel.

Type of participant	Learners
N° of Participants	5
Duration per Participant (days)	7

Grant per Participant	406,000
Total (for Participants)	2 030,00
N° of Accompanying Persons	0
Duration per Accompanying Person (days)	0
Grant per Accompanying Person	0
Total (for Accompanying Persons)	0
Total Individual Support Grant	2 030

Inclusion Support

Number of participants	
Number of participants for inclusion support	0
Inclusion support for organisations	0

Group 4

Group Budget Summary

Travel Support 900
Green Travel Support 0
Exceptional Costs for Expensive Travel 0
Individual Support 1 450
Inclusion Support 0
Total Activity Grant 2 350

To estimate the distances between places, please use the European Commission's distance calculator: https://ec.europa.eu/programmes/erasmus-plus/resources/distance-calculator_en

Travel support

Green travel	
Distance Band	100 - 499 km
Exceptional costs for expensive travel	0
N° of Participants	5
Grant per Participant	180
Total Travel Grant	900

Individual support

Please note that additional individual support for up to two travel days may be requested if the participants are required to travel on the day before or after the activity and three days in case of green travel.

Type of participant	Learners
N° of Participants	5
Duration per Participant (days)	5
Grant per Participant	290,000
Total (for Participants)	1 450,00
N° of Accompanying Persons	0
Duration per Accompanying Person (days)	0
Grant per Accompanying Person	0
Total (for Accompanying Persons)	0
Total Individual Support Grant	1 450

Inclusion Support

Number of participants	
Number of participants for inclusion support	0
Inclusion support for organisations	0



Special Costs

In this section, you may request budget for types of expenses that are funded based on their actual cost. For more detailed information on what can be supported, please consult the Programme Guide or request advice from your National Agency.

Inclusion Support

ID Total	Organisation	Country of the Organisation	N° of Participants eligible for costs under inclusion	real Description and Justification	Requested Grant (EUR) ,00
Exce	ptional Cost	S			
ID	Organisation	Country of the Organisation	Description and Justification	Expected real cost (100%)	Requested Grant (80%)
Tota					,00



Follow-up

Impact

What is the expected impact of the project on the participants, participating organisations, target groups and other relevant stakeholders?

The new innovative approach of the MARS-NET project lies in the uniqueness of this educational network, aiming at the harmonization of teaching practices, valuing the modern facilities of simulators on the basis of digitalization adoption in the maritime education and training, building an international network of learning and teaching resources. The Action will set a formal and coherent design of 10 common syllabuses and implementation of 5 joint courses in maritime higher education establishments, using the learning by simulation techniques, additionally supported and enriched by a digital environment availability for education performance enhancement. On the other perspective, considering the great potential offered by the new educational technologies and facilities, the project is aiming the bring the teaching methods in the new era of digitization, building new and innovative video tutorials and digital materials for teaching session on simulating facilities, to offer full access in time and space to the education processes, in case of the maritime students, using blending learning methods and the digital tools for enhancing the independence and autonomy of the students carrying out the learning process during the cadetship onboard the ships. Together with the other intellectual outputs, the research and education activities are foreseen to have a great importance and impact on the field-specific priorities and the horizontal ones, as well on future strategic European-level enhancement of employment for European maritime higher education system. As it is planned to integrate these education and research results in the next accredited curricula of the partners, this will increase permeability of the maritime students and teachers within a large region of Europe. Thus it is expected that the Erasmus+ mobilities among the partners to boost, as education background is identical and recognition is complete for the future study programmes. In this context, the project is coming to support the most recent initiative of the partners who have applied for the European University call, under Maritime European HEI consortium - MENTORUS. The main impact on the participants would be the building of digital resources and networking of good practices in the maritime study programmes, based on simulators usage both in education and research, by the means of increasing the coherence of their traversal competences, the use of English language as the "lingua franca" for merchant marine officers and the high degree of ICT- based education and training. Expected impact for the future consists in the logical project's follow- ups which would be the expansion of the common syllabus to joint study programmes and also the building of research. Last but not least, the MARS-NET results can eventually offer the possibility of starting consistent joint degree study programmes between the partners in line with future European University implementation. Therefore, the partners will contribute offering to build a simulating facility network for education and research, where each institution will get access to the other partners simulating facilities and teaching practices. The target group in formed both by the students, teachers and other stakeholders (i.e. maritime, naval and port operation companies, R&D institutions, international bodies as IMO, EMSA). The academic community to which the project is addressing is counting more than 15.000 persons from the partner universities, out of which approx. 9.800 students, but in addition to the network human resources a consistent number of additional universities will align as project beneficiaries, as selected from the partners' Erasmus+ traditional partners (MBNA and his partners have enclose IIAs with similar partners from Croatia, Slovenia, Montenegro, France, Spain, Greece, Finland, Germany, etc).

What is the desired impact of the project at the local, regional, national, European and/or international levels?

The main desired impact at all levels is to enhance the innovative dimension of the new developments in the European Higher Education Area setting up the premises for an integrated European Maritime University, according to the European Joint University strategy. The experience of the involved participants in Digi-MEd project will provide a higher multiple compatibility of maritime study programmes in terms of competencies, quality, teaching means and techniques, use of English language, ICT and digital resources, cultural blending, etc. Thus, the personal and professional development of both the attending teachers and students will follow clear European-like trends. The partners have implemented similar projects in the past (i.e. DECOMAR, MARINE and MENTORESS) and have applied with a broader project to European University call, anticipating a higher multidisciplinary integration of the educational processes. The project is considered to meet closely the European Higher Education Area's goals and to be an "icebreaker" of national and even European constraints. If successful, MARS-NET could stand as a living example of integrated education and training for other universities in Europe, with an immediate effect on the employment rate of European HEI graduates in the maritime industry and naval security & defense systems. Also, the relevant stakeholders and mainly the European naval and port operators, will effectively benefit from the unified competencies of the partners' graduates gaining

additional performance from the identical education & training outcomes. Promoting the digitization and research initiatives in maritime education system, done mainly during the multiplier events and supported by the virtual network and a proper dissemination of results, the project will record a significant impact on the local, regional, national and European levels, especially focused as first step in the Black Sea and Baltic Sea areas, but with a great potential of spreading in Mediterranean area as well, using the strong partnerships developed by the partners with similar European universities. Moreover, as the maritime industry has an inherent high level of internationalization and because all the partners are members in major global maritime education associations, the good practices drawn from MARS-NET could act a starting stage for other European/global maritime universities and employers for the development of similar study programs and labour market strategies, respectively. Not in the last, the present Corona virus spreading has proven the viability and potential impact of the present application, overcoming the major problems faced from this point of view, by the students and by the maritime universities as following: - the students are kept onboard the ships for longer periods of time due to their compulsory training stages on cadetship and they imperatively need access to the simulation classes online, in cloud by accesing digital resources; - the maritime universities are demanding digital resources for practical courses as well, in order to facilitate the dual education system even for maritime students; - the shipping companies need special connection between hard skills of the students, demanding online training for their employees and cadets; the maritime universities have to bring the simulating facilities (as very valuable and expensive facilities) into the scientific research, for proper empirical maritime studies; - the harmonized curriculum can help the universities to implement a common semester to stimulate the Erasmus+ exchanges for study among the partners and not only - also virtual exchanges via virtual campus shall be stimulated as innovative part of the project; - the virtual platform can be used by the partners but also by other interested parties, involved in maritime field for a better connection of the academic communities in relation with the job market and shipping companies.

How will you measure the previously mentioned impacts?

As the impact of the project is distributed on several dimensions, the assessment will also be done accordingly, as follows: - the level of the traversal competencies in maritime leadership developed by simulation teaching techniques will be compared by the means of previous recordings of the partners or collected as feedback from the maritime industry satisfaction evaluation (i.e. feedback from the maritime companies under ISO 9001-2015 requirements); - the research initiatives could open new research directions neglected so far, described in quantitative (no. of articles, no. of further application for research funds in joint projects) and qualitative indicators (diversification of academic facilities usage and intensive exploitation); - the impact on quality of MET will be measured through the study programme's evaluations and institutional evaluations of the partners from national quality assurance agencies or European agencies (like the EUA-European Universities Association, International Association of Maritime Universities - IAMU or European Maritime Security Angency - EMSA); - the number of mutual/regional cooperation MET and research actions of the partners, in conjunction with the maritime industry and management. - consequently, increase of institutional presence and prestige in their respective countries and Europe as a whole. From quantitative perspective the next indicators shall be applied: students' Satisfaction Index is an index comprising hard measures of students' behavior and soft measures of students' opinions or feelings. Index is weighted based on how important each value is in determining students overall satisfaction includes measures such as unsatisfactory about administrative issues (30%), financing availability (15%), evaluations results (15%), supervisor evolution grade (20%), complaints rate (20%); - exchange access index that will be calculated as the average amount allocated for each participant in mobility program alongside one year (i.e. total amount spent for exchanges over the number of participants) offering a vivid image of the access index in terms of the intensity of mobilities total number of participants in exchanges; - mobility intensity ratio that will be calculated as the ration between the total number of participants in mobility programs over the total number of Alliance community members, offering a vivid image of the intensity of exchange program in relation with total number of participants in exchanges. Cost Performance Index, calculated as Earned Value/Actual Cost, as quarterly reported alongside the project implementation phases - this index is a measure of cost efficiency, determined by dividing the value of the project work actually performed - the earned value, as guarterly reported by the institutional coordinators, by the actual costs allocated to accomplish the earned value (as guarterly reported by the financial departments). - Project Schedule Performance calculated as Earned Value/Planned Value, as quarterly reported by the institutional coordinators and by the work packages responsible experts - the Schedule Performance Index is the ratio of total original authorized duration versus total final project duration and will be calculated in particular for each work package throughout the implementation; - alignment to Strategic Business Goals as a reflection of the project management metrics benchmark regarding the efficiency of project management - it will measure the alignment of the WP operational goals to the project's strategic goals, being determined through a survey of

an appropriate mix of project management experts/executives, selected teachers and selected students, from each partner (i.e. minimum 20 persons/partner/category) - Likert scale from 1-10 shall be used to rate the statement "we are aligned with the project's strategic objectives".

Sharing, Promotion and Use of the Project's Results

You are requested to make plans for the sharing and promotion of your project results. Please provide answers to the questions below.

What will be the target groups of your sharing and promotion activities inside and outside your partnership? Please define in particular your target audience(s) at local/regional/national/European/international level and motivate your choice.

The dissemination and exploitation plan will be elaborated by the Steering Committee of MARS-NET and will consist of specific activities for each partner according to the timetable of the project's activities. Specific tasks from the Annex II -Dissemination and Exploitation of Results - of the Erasmus+ Programme Guide will also be implemented. Indeed, the dissemination is to be done inside the consortium and even at the level of partner's internal information. Speaking of external dissemination, the main ideas of dissemination will be: a) the increased gender gap awareness and measures in order to cope better with the European maritime officers' needed competencies for a smoother insertion on the labor market and b) the synergistic character of the project, which started from a previous common background of the partners and aims to generalize its objectives to a larger extent and higher degree of European inter-operability through follow-up projects. The target audience will comprise first of all the maritime education and training stakeholders: shipping companies that recruit graduates from the partners, naval national authorities, European professional associations the partners are members in. Secondly, the higher education authorities in each country will be made aware of the project's results mainly in terms of quality of education. The social partners of the consortium members (ONGs, local authorities, media, etc.) will also be invited to give feedback to the project's objectives and results. All disseminated material will be free of any reproduction constraints and will have open access. As the executive body of the partnership, the Steering Committee will closely monitor dissemination of results among the partners. Each national work team has in its structure a public information/PR expert who will link the activities and results of the project to the external environment. According to the previous rich experience in the PR area of the partners, human and material resources are to be balanced with the expected impact on the third parties. The most effective means of dissemination will be the ICT ones (MARS-NET's website hosted on www.marplat.eu, partners' websites, facebook pages, etc.). Periodically, printed materials and DVDs will be issued to the participants of the partner's habitual events (scientific conferences, Open Doors days, articles for local/national media).

Which activities will you and your partner carry out in order to share the results of your project beyond your partnership?

Internal dissemination among the partners will be carried out monthly and at every biannual meetings of the Steering Committee. External dissemination will use multiple channels of transmission. The applicant (PRU) will establish a project's portal which will be hosted/linked to all of the partners' websites. The partners have already set up a maritime education online portal by the means of a cross border European structural funds project (www.marplat.eu). As that portal should be also sustainable and is designed to be developed in the future and to add new members, the learning results obtained from MARS-NET can be shared by the partnership's members and other authorized participants through the portal, which has a great capability of expansion. During the public educational or research events organized by the partners, brochures, leaflets, DVDs and project's promotional materials will be offered. The informational impact is maximized this way. All partners are well connected to the local and national media in their countries, that is why dissemination will also be done by articles in newspapers, magazines, press releases and conferences. The international associations in which the partners are part (IAMU - International Association of Maritime Universities and BSAMI - Black Sea Association of Maritime Institutions) and their annual conferences will also be informed about the project's results. For the final solutions identified abount connecting the simulators in cloud or about the digital resources posted and available on marplat.eu virtual campus, the IAMU and BSAMI members will be informed. Also IMO - International Maritime Organization will be notify in this respect, promoting the valuable results of the virtual campus implementation in respect of soft and hard skills development for maritime cadets, in compliance with STCW requirements, but adapted to the new distance interaction new approach due to the pandemic trends.

Who will be responsible for the sharing and promotion activities within your partnership and which specific expertise do

they have in this area? What resources will you make available to allow for the proper implementation of your sharing and promotion plans?

The Project's steering committee, as the executive board of the partnership, will be responsible for the overall dissemination of the results and outcomes. In general, dissemination activities will follow the accomplishment of the intellectual outputs, but will especially be taken care of during the multiplier events, when the local/national media will participate alongside the invited attendees. At the each partner's level, the national work team will assign a PR/public information specialist who will carry out the specific dissemination activities. The resources employed for dissemination will fall into 2 categories: partners' own funds and a part of the grant allocated to the project management and implementation. These will be used for editing and printing the information leaflets, brochures, banners, roll-ups, etc., according to the European Visibility Manual's procedures.

Erasmus+ has an open access requirement for all materials developed through its projects. If your project is producing tangible project results, please describe how you intend to ensure free access for the public to a digital form of this material. If you intend to put any limitation on the use of the open licence, please specify the reasons, extent and nature of this limitation.

As previously described, all intellectual outputs and concrete deliverables will be available for public and unrestricted access. The main results/activities of the MARS-NET Action will be published on the dedicated portal of the project, the websites of the partners and their facebook pages and will be open to all visitors. The learning outcomes, the research studies and other specialty results will be available for the registered stakeholders on the project's virtual network, hosted on the applicant's portal dedicated to maritime education and training (MET).

How will you ensure that the project results will remain available and will be used by others?

The partner academies/university are living organisms, so the project gained experience will definitely be shared, applied and expanded. As any intellectual outcome of their personnel is under their legal jurisdiction, obviously the project results will remain as property of the partner institutions and will be used until new requirements for their transformation will emerge. As presented before, the results are intended to form the nucleus of future common modules or future joint degree study programmes among the partners. The research initiatives resulted from the research network settlement in regard of simulators facilities will be valued among the partners at the time in compliance with the project implementation rules. Exploitation of results will continue after the project's completion because the education and research network will be implemented in the future formally accredited curriculum and future actions of the partners. Moreover, the program results will be also sustainable due to the expansion of exchanges among the partners. All teachers and students involved in the project actions will follow the maritime education and training milestones set by MARS-NET.

If relevant, please provide any other information you consider appropriate to give a full understanding of your sharing and promotion plan and its expected impact (e.g. how you have identified which results are most relevant to share and promote; how you will ensure the involvement of all partners; how you see synergies with other stakeholders, etc.)

Dissemination of the MARS-NET project will include all its results (curriculum, methodologies, manuals, digital learning materials, studies, research ideas, other materials). Nonetheless, it will be focused on the activities with the greatest impact on the main target groups - the students, the teachers/researchers and the maritime/Navy stakeholders. Therefore, the 5 workshops (as multiplier events) will be granted with the highest attention. On the other hand, the capabilities of the MARS-NET portal in terms of dedicated database, synchronous or asynchronous interactive lessons and social media, digital resources or the research studies will be fully employed in the dissemination processes, due to the virtual network's high degree of penetration to the members of the target groups.

Sustainability

Frasmus+

What are the activities and results that will be maintained after the end of the EU funding, and how will you ensure the resources needed to sustain them?

After the end of the EU funding and completion of the project's objectives, the curriculum will be updated on the base of simulator's network adoption among the partners, with a common academic facility endowment, that could be presented for the upcoming accreditation coming from the national quality assurance agencies and from international bodies. Thus, the research and education network in MET using the simulators, for navigation and maritime engineering and management specializations will be self-sustainable, without any extra funding needs. By the contrary, taking in account the new and more effective syllabus in the maritime related occupations, the partnership foresees an increase of the



interest from the maritime industry's side to assist financially the development of new MET facilities. Bringing into the attention the research potential of the simulators, the partners will continue to develop studies involving high profiled companies interested in HR studies, risk management studies, environmental studies, software development and so on. In this terms, the project could bring an additional value to the project, grounding the basis for common research division of the partners in research by simulating techniques. Another sustainable result will consist of the increases in number of Erasmus+ student and staff mobilities among the partners and to economic agents. These, too, will be co-financed through the Erasmus+ programme, Key Action 1.



Annexes

The maximum size of a file is 15 MB and the maximum total size is 100 MB. The maximum number of all attachments is 100.

Declaration on Honour

Please download the Declaration on Honour, print it, have it signed by the legal representative, and attach it here.

File Name	File Size (kB)
DOH -Declaration_on_honour_MARSNET.pdf	1686
Total Size (kB)	1686

Mandates

Please download the Mandates, have them signed by the legal representatives and attach them here. Please ensure that mandates are valid before submitting them to the National Agency. Mandates shall be provided at the latest before the signature of the grant agreement.

File Name	File Size (kB)
MAN -Mandate _PNA_signed.pdf	523
MAN -Mandate_NVNA_signed.pdf	1913
MAN -Mandate_LMA_signed.pdf	656
MAN -MarSNET PRU Mandate.pdf	148
Total Size (kB)	3241

Other Documents

Please attach any other relevant documents. Please use clear file names. If you have any additional questions, please contact your National Agency. You can find their contact details <u>here</u>

File Name	File Size (kB)
OTH -Manual tutoriale video simulator_ANMB.pdf	3186
OTH -Meodologie scenarii training simulator.pdf	337
OTH -Simulation curriculum model.pdf	283
OTH -Descriere simulator integrat ANMB.pdf	375
Total Size (kB)	4183
Total Size (kB)	9111



Checklist

Before submitting your application form to the National Agency, please make sure that:

It fulfills the eligibility criteria listed in the Programme Guide.

 \checkmark All relevant fields in the application form have been completed.

You have chosen the correct National Agency of the country in which your organisation is established. Currently selected NA is: RO01 - Agentia Nationala pentru Programe Comunitare in Domeniul Educatiei si Formarii Profesionale

Please also keep in mind the following:

Mandates of each partner to the applicant, signed by both parties, should be submitted <u>latest before the signature of the grant agreement.</u> If the application is approved for funding, signed mandates will be considered as a condition for signature of the grant agreement.

The documents proving the legal status of the applicant must be uploaded in the Organisation Registration System, here: <u>Organisation Registration System</u>

The grant exceeds 60 000 EUR. If the applicant organisation is not a public body or an international organisation, please do not forget to upload the necessary documents to give proof of your financial capacity in the Participant Portal (for more details, see the section "Selection Criteria" in Part C of the Programme Guide).

Call 2021 Round 1 KA2 KA220-VET - Cooperation partnerships in vocational education and training Form ID KA220-VET-09F232FC Deadline (Brussels Time) 21 May 2021 12:00:00

History

Version	Submission time (Brussels time)	Submitted by	Submission ID	Submission status
1	21/05/2021 10:53:21	POPA Catalin	1264349	Failed
2	21/05/2021 10:51:12	POPA Catalin	1263927	Failed
3	21/05/2021 10:55:49	POPA Catalin	1264814	Failed
4	21/05/2021 11:01:09	POPA Catalin	1266064	Published
5	21/05/2021 10:58:26	POPA Catalin	1265332	Failed
6	21/05/2021 10:52:12	POPA Catalin	1264117	Failed
7	21/05/2021 10:57:05	POPA Catalin	1265052	Failed
8	21/05/2021 11:00:11	POPA Catalin	1265717	Failed
9	21/05/2021 10:54:26	POPA Catalin	1264559	Failed
10	21/05/2021 11:00:42	POPA Catalin	1265907	Failed