FINNISH NATIONAL AGENCY FOR EDUCATION

HEI ICI PROGRAMME 2016-2018
GUIDANCE TEMPLATE ON REPORTING ELEMENTS

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REPORT TO BE FILLED IN ONLINE

This template can be used for sharing reporting content and guidance among partners and for preparing reporting content in advance. The following elements make up the content of the online reporting system.

PROJECT DETAILS

Acronym	MARIBILIS
Project name	IMPROVING MARITIME EDUCATION OF NAMIBIA WITH DOUBLE DEGREE PROGRAM OF MARITIME ENGINEERING AND WITH THE INTEGRATION OF R/V MIRABILIS AS A LIVING LAB
Coordinating HEI	Satakunta University of Applied Sciences (SAMK)

1. OVERVIEW OF PROJECT IMPLEMENTATION

Short Summary of Progress So Far

Satakunta University of Applied Sciences (SAMK) and Namibia University of Science and Technology (NUST) are partners of the MARIBILIS Project. The outcome of the project is to develop higher education competences in the field of maritime in Namibia. The work plans are structured in 4 Result Areas. SAMK is responsible for the Result Area 1 (Improved access to education and research information), Result Area 3 (Enhanced institutional capacity supporting quality of teaching and research in the field of maritime) and Result Area 4 (Strengthened role and relevance of Higher Education in development society). NUST is responsible for coordinating the Result Area 2 (Improved quality of higher education and research environment).
In each Result Area, the team members have been identified and a work plans for the various activities developed. A research proposal on corrosion in Namibian marine environment has been prepared for further discussions with other members.

Result Example(s) for Communication Purposes

The four Result Areas relate to Improved quality of higher education and research environment in the field of maritime.
The expected outputs are:

1) Result Area 1 - to produce study plans for the capacity building of the teachers of NUST and supervising officers of R/V MIRABILIS.
2) Result Area 2 - the curriculum for double degree program of maritime engine (STCW III/2) between NUST and SAMK and renewed curriculum of electricity engineering program of NUST with the integration of R/V Mirabilis as an on board training vessel and living lab.
   - It has been decided to adopt the SAMK curriculum for Marine Engineering with some improvements and to integrate the R/V MIRABILIS in the curriculum as part of the work integrated learning.
3) Result Area 3 - to model, build up and establish comprehensive quality system and administration system.
   - It has been decided that the Maritime double degree program will be audited by Finnish Maritime Authorities (TRAFI) according to the IMO / STCW regulation and the Maritime Authorities of Namibia (DMA) are invited to join the auditing process from the learning perspective point of view. Furthermore, the degree program shall go under quality system of SAMK.
4) Result Area 4 - to produce facility study and budget plan including the integration of R/V MIRABILIS.
   - It has been agreed with the Ministry of Fisheries and Maritime Resources that the vessel can be used as an onboard training vessel and living lab. NUST is preparing a Cooperation Agreement between NUST – NAMFI and MFMR of the utilization of the research vessel for learning and research purposes.

2. CONSISTENCY WITH DEVELOPMENT POLICY

National Impact of the HEI ICI project in partner countries

Namibia's Vision 2030 which spells out the country's development objectives and strategies places great emphasis on skills development across all sectors of the economy. The vision is to become a knowledge-based society. Capacity building has high priority and the Vision document anticipates a high-quality education and training system that prepares Namibia to take advantage of a changing global environment, including developments in science and technology. The MARIBILIS project will enable achieving this vision.

Alignment with Finnish Development Policy Goals

- Maritime and Fishery is a traditionally male-dominated sector and generates primarily male jobs for positions at sea. The Project team which is developing the new curricula for the double degree programme consists of male and female experts of SAMK, NUST and NAMFI. The project has core maritime expert teams and supporting teams. Out of 23 project experts 9 are female. The project has also important stakeholders; Maritime Administrations of Finland and Namibia, Ministries in both countries, Embassies of Finland and Namibia and media - and private sector companies. During the project work and professional visits in both countries we have met at least 40 - 50 professional experts who are involved and 12 – 15 of them are female in significant positions.

- During the professional trip to Rauma Finland the project teams did a benchmark visit to the Rauma Seaside Industry Park as an example of the maritime industrial ecosystem park where the private – public sector actors have developed an industrial park for heavy-duty naval industry and is located in a logistically ideal area. The park is being built right next to the port and is connected to the national railway and road networks. A nearby educational campus offers professional workforce and research, development and innovation services. Rauma Seaside Industry Park could be an idea for Walvis Bay industrial area also.

- To be able to develop the maritime cluster of Namibia it is important to improve the skills and the capacity of the people who are working in the maritime field. This matter does not concern only the masters, officers and the crew members of ships and vessels; it concerns also the certifications, the inspections, the surveys, the safety, different operators of ports; stevedoring, pilots, agents, customs, maintenance service, marine equipment companies, classification society, cargo owners, ship owners and maritime administration in all.

- The international and national recognizing of the maritime education is important to the development of the maritime and logistic oriented labour fields.

- Maritime education is exceptionally regulatory conducted internationally and nationally compared to other fields of education. And this is understandable due to liabilities that are involved in the maritime field. The international recognizing is done by the International Maritime Organization (IMO).

- STCW requires a quality system. Each country shall ensure that the education and training objectives and related standards of competence to be achieved are clearly defined and they need to identify the levels of knowledge, understanding and skills appropriate to the examinations and assessments required under the Convention.

- Each country shall ensure that the training and assessment of seafarers are administered, supervised and monitored in accordance with the provisions of section A-I/6 of the STCW Code; and those responsible for the training and assessment of competence of seafarers, are appropriately qualified in accordance with the provisions of section A-I/6 of the STCW Code for the type and level of training or assessment involved.

- SAMK in collaboration with the Embassy of Finland has arranged two maritime education framework meetings. In the meetings, Maritime Authorities of Finland (TRAFI) requested the Maritime Authorities of Namibia (DMA) and also the Ministry of Justice of Namibia to promote the development of legal and administrational environment of Namibia. After the consultation, Deputy Permanent Secretary Ms Gladice Pickering, Ministry of Justice has established a committee which prepares the needed law changes in Namibia.

- Energy Efficiency Design Index (EEDI) of ships is a new index in maritime sector increasing environment awareness. SAMK has been involved with different projects conducting survey and certification of the EEDI, thus assisting ship owners, shipbuilders and manufacturers. This knowledge has been transferred to NUST and NAMFI in the process of writing the new joint double degree program in maritime engineering of NUST and SAMK.

The Human Rights Based Approach

SAMK will place it on scale 4

- All project partners are equal in MARIBILIS. The project has mixed working teams (all partners involved). Male and female members of the project are equal and the participants are expected to respect the knowledge and experience of each member despite the gender. The age equality aspect will be met by taking student representatives into the board of the project and to the steering group.

- All representatives of the partners have equal right to participate in the collaboration work; board meetings, team meetings, round table discussions, workshop, seminars and other events and to all process work.

- All representatives of the partners and stakeholders of the project have an equal right to follow the progress of the project through the memos and minutes of the meetings, travelling reports and annual and final reports.

- All participants of the project will have the equal access to the information produced; they also have the freedom of express themselves when ever wanted. Openness in the decision –making process is guarantee with open meetings, especially the board meetings.

Gender Perspectives

On a scale from 1-5, the gender perspective is fully mainstreamed, with a score of 5.

Please describe the efforts made to integrate a gender perspective into the project, and how your project is contributing to gender equality.

- Equal opportunity will be given to all for participation in the programme irrespective of gender. This will most likely assist in increasing the number of women working directly in the fishing fleet.

Reduction of Inequality

On a scale from 1-5, project integrated the reduction of inequality, with a score of 5.

Please describe the efforts made to integrate the reduction of inequality into the project, and how your project is contributing to societal equality.

- Namibia's Vision 2030 places emphasis on eliminating social inequality and ensuring social welfare. The present project will address this by ensuring that quality education is made available to all.

Climate Sustainability

On a scale from 1-5, The Climate Sustainability has scored 4

Please describe the efforts made to integrate climate sustainability into the project, and how your project is contributing to mitigating the effects of climate change.

- Writing the Energy Efficiency Design Index (EEDI) into the new curriculum
- Corrosion research of the R/ V MIRABILIS - helping to keep the vessel sailing well and able to do the marine and fisheries research
- Finnish innovation energy efficiency tools will be implemented on RV MIRABILIS
- Special care will focus the waste management and handling of different spills
- ISO 14001 principles will be implemented

Integration of UN Sustainable Development Goals

Please specify which UN Agenda2030 Sustainable Development Goals are integrated and how they have been applied in the project - both implementation and results.
Further information on SDGs: http://www.un.org/sustainabledevelopment/sustainable-development-goals/

Namibia's Vision 2030 which spells out the country's development objectives and strategies places great emphasis on skills development across all sectors of the economy. The vision is to become a knowledge-based society. Capacity building has high priority and the Vision document anticipates a high-quality education and training system that prepares Namibia to take advantage of a changing global environment, including developments in science and technology. The MARIBILIS project will enable achieving this vision.

MARIBIA project emphasis also climate action by supporting the action of R/V MIRABILIS by integrating the vessel into the maritime engineering degree program and also to the electricity engineering program of NUST. Vessel will be utilized as an onboard training vessel and living lab. And since the vessel is used to marine and fisheries research purposes MARIBILIS project is supporting also sustainably use of oceans, seas and marine resources.

3. ACHIEVEMENT OF RESULTS DURING REPORTING PERIOD

IMPACT *(Final Report only)*

Insert the long-term impact envisaged by your project here

PROGRESS TOWARDS THE LONG-TERM IMPACT

- *Describe how the results achieved could possibly contribute to the long-term development goal mentioned in the approved project documents*
- *Describe the correspondence with institutional strategies, development objectives of the national higher education sector or within a specific subject field, and national development strategies in general. Have there been any significant changes in the project relevance during implementation?*
- *Summarize lessons learned and highlight when there is potential for wider learning, e.g. for the further development of the programme*

Recognize the involvement of others (partners, stakeholders, rights-holders) within the partner institution/sector/country and describe synergies and collaboration

OUTCOME LEVEL

Outcome of the project is to develop higher education competences in the field of maritime in Namibia

PROGRESS TOWARDS THE OUTCOME

- Professional Visit and Kick Off meeting in Rauma 3 – 8.6.2017, Finland and the visit to Rauma Seaside Industrial Parka and RMC Ltd. In the Kick Off meeting the board, the steering group, the student representatives, the budget and the self-finance portions and workplans were agreed.
- Project Cooperation Agreement is ready to be accepted by SAMK. The agreement is now in the legal office of NUST
- Professional Visit to Namibia (14. – 27.10.2017); Official Launch and Media Event of the project was arranged in cooperation with Finnish Embassy and SAMK ,NUST and NAMFI, Maritime Education Framework meetings with following Ministries; Ministry of Fisheries and Marine Resources, Work and Transport, Justice, Higher Education, Directorate of Maritime Affairs DMA
  Meetings with important Stakeholders; University of Namibia, NAMPORT, Walvis Bay Office of the Mayor and Marine and Fisheries Research Center NatMIRC.
- Two days project seminar in Walvis Bay and professional visits to R/V MIRABILIS and Namibia Maritime and Fisheries Institute.
- It has been agreed that the SAMK Maritime Degree Program's curriculum is the basement document of the Maritime Engineering Double Degree Program of SAMK and NUST.
- First draft of the results time Schedule done
- SAMK Maritime engineering curriculum delivered in August 2018
- First draft of Implementation plan of the degree program and responsibilities of each Institute done
- Auditing of the Maritime Double Degree Program negotiation (28.11.2017) with Finnish Maritime Authorities (TRAFI)
- Maritime Education Framework online meeting (29.11.2017) with Finnish Maritime authorities (TRAFI). The Ministry of Justice of Republic of Namibia and Namibia Maritime Authorities (DMA) and NUST attended. The Ministry of Fisheries and Maritime Resources, Ministry of Work and Transportation, The Ministry of Higher Education and NAMFI were excused. The meeting was arranged by MFA Finland and Embassy of Finland, Windhoek

EXPECTED RESULTS / OUTPUTS

RESULTS ACHIEVED PER RESULT AREA 1: Improved access to higher education and research information

Activity 1.1. Identification of the people involved

- Identification of the persons involved was finalised at the Kick Off meeting in Rauma 5.6.2017

Activity 1.2. Evaluating the existing and needed expertise

- The persons involved will evaluate and document the present degrees skills and the needed degrees and skills according to STCW and to the common comprehensive quality system of SAMK, NUST and NAMFI with guidance of the team leader.
- This is planned to be finalized by May 2018

Activity 1.3.Personal study plans

- Personal study plans will be written for the persons involved with the guidance of the team leader.
- This is planned to be done by June 2018

Activity 1.4.Transition plan implementation

- The action plans with the timetables how the studies will be arranged and done will be made.
- This is scheduled to be done by August – September 2018

Activity 1.5.Evaluation and feedback

- The persons involved will process how their have achieved their personnel study goals and targets.

- This is planned to be done by March 2020

Output 1.1 Produced developed study plans for the capacity building of the teachers of NUST and NAMFI and for the officers (to become responsible supervising officers) of R/V MIRABILIS.

Quantitative indicator; Number of teachers and officers trained
- Final Results expected in March 2020

Quality indicator; How the skills are improved and approved
- Final Results expected in March 2020

RESULTS ACHIEVED PER RESULT AREA 2: Improved quality of higher education and research environment

Activity 2.1.: Identification of the involved team members, related industrial representatives, stakeholders
- The team members were identified for curriculum development and research activities in June 2017.

Activity 2.2.: Evaluating the present curricula with comparison, for common status quo understanding
- It was decided to develop a double degree programme in marine engineering in partnership with SAMK.
- NUST received and reviewed the SAMK curriculum for marine engineering.
- Detailed discussions were held between NUST and SAMK experts at Windhoek and Walvis Bay during October 2017.
- The present curricula of SAMK were compared with the curricula developed under the MARIBIA project.
- Since the present curricula contained most of the elements identified in the MARIBIA project, it was decided to adopt the SAMK curriculum for Marine Engineering with some improvements.
- The courses which can be handled by NUST/NAMFI were identified.
- Evaluation of Lecturers of NUST/NAMFI handling these courses will be done.
- Schedule for various activities was drawn.

Activity 2.3.: Assessing how the R/V MIRABILIS can be integrated; consultation with industry
- Orientation /training under supervision of SAMK experts was organised in R/V MIRABILIS.
- It was decided to integrate the R/V MIRABILIS in the curriculum as part of the work integrated learning.
- Corrosion in marine environment and operation/maintenance of ship electrical engineering systems were identified as areas for improvement in the curriculum for the Namibian context.
- In collaboration with RV Mirabilis staff, Ministry of Fisheries and Marine Resources (Namibia) and RMC Shipyard staff it has been decided to have as a priority focus the problem of sea water pipe corrosion.
- A research proposal on investigation of corrosion in Namibian marine environment was prepared and sent to the Finnish partners for their review/participation.

Activity 2.4.: Writing the new common double degree for maritime engine (STCW III/2) curriculum
- To be implemented in the following year

Activity 2.5.: Transition plan implementation
- To be implemented in the final year

Quantitative indicator; one comprehensive double degree curriculum for maritime engine (STCW III/2) of SAMK and NUST and one renewed electricity engineering degree curriculum of NUST designed.

Double Degree Curriculum for maritime engine (STCW III/2)

- A double degree programme in marine engineering in partnership with SAMK under development.
- A renewed electricity engineering degree curriculum of NUST designed.
- Electrical engineering curriculum can be enlarged with an optional part of ship electricity and industrial automation maintenance.
- RV Mirabilis can be integrated to NUST electrical engineering program as a training vessel for students. Training record book has to be done for it. SAMK will be responsible for the training record book.

Quality indicator; How the curricula are improved and approved; new teaching methods, new modules ready, new pedagogical processes.

The team members of the project are taking steps forward to achieve the quality indicators as follows:

- The experts of NUST will conduct the writing process of the new curricula. The workshops and check-up meetings will be arranged by the team leader.
- The timelines of the different results and activities were done in the second seminar 24.10.2017. The writing work of the curriculum will start in 2018 and the first draft must be done by the end of February 2018. The responsible persons are Toni Haapanen and Riitta Tempakka (SAMK), Rajaram Swaminathan (NUST) and David Hamupembe (NAMFI).
- SAMK curriculum was put on excel and it was used as a basement document for sharing the responsibilities who teaches what.
- The team will use the writing process as a tool to produce the detailed teaching plans. Monitoring meetings will be arranged by the team leader to assess the progress.

RESULTS ACHIEVED PER RESULT AREA 3: Enhanced Institutional capacity supporting quality of teaching and research

Activity 3.1.Identification of the persons involved

- Identification of the persons involved will be done by SAMK, NUST and NAMFI was done in the Kick off meeting in Rauma 5.6.2017

Activity 3.2.Evaluation of the present quality and student administration systems

- The evaluation of the quality and student administration systems of SAMK, NUST and NAMFI was done already during the MARIBIA project and now that evaluation results can be used as basement knowledge to update the information for the purposes of common double degree program.
- It has been found that the Maritime Engineering Double Degree program will go under the Quality system of SAMK. But the quality systems of NUST and its affiliate partner NAMFI will need to be on quality level that Finnish Maritime Authorities can approve.

Activity 3.3.Comparison of the quality and the student administration system

- The comparison of the quality systems of SAMK, NUST and NAMFI was already done in MARIBIA project and now that knowledge can be used for the purposes of developing a one common quality and student administration system for double degree purposes.
- The quality system of NUST affiliate partner NAMFI must be approved on a level that can be approved by Finnish Maritime Authorities.

Activity 3.4. Compose the on common comprehensive quality and student administration system

- It has been found that common comprehensive quality and administration system is not needed but the quality systems of NUST and SAMK and also the quality system of NUST's affiliate partner NAMFI must be on a level that they can be approved by Finnish Maritime Authorities.

Activity 3.5. Transition plan implementation

- To be implemented in the next and final year

Quantitative indicator; one comprehensive quality system and administration system modelled and established.

- It has been agreed that the partners of the project do no need one comprehensive quality system, but the quality systems of each party must be on a level that they can be approved by Finnish Maritime Authorities.

Quality indicator; new improved quality assurance mechanisms modelled and established.

- It was discussed that each partner will have a Finnish Maritime Authorities approved quality system at the end of the project.

RESULTS ACHIEVED PER RESULT AREA 4: Strengthened role and relevance of HE in development of society

Activity 4.1. Identification of the people involved

- Identification of the persons involved was done by SAMK, NUST and NAMFI in the Kick Off meeting in Rauma 5.6.2017

Activity 4.2. Evaluation of the facilities of SAMK, NUST and NAMFI and R/V Mirabilis according the STCW

- The first evaluation was already done in the MARIBIA project 2013 – 2015. Now the evaluation needs to be up dated to see what is the situation in SAMK, NUST and NAMFI now and how the use and the costs of R/V Mirabilis as living lab and on board training vessel will be taken under consideration. Also the utilization of each other's facilities (simulations, labs, soft wares) as possible effective way shall be done in the double degree program.
- The work was continued in October 2017 with a visit to R/V MIRABILIS

Activity 4.3. Facility plan and budget for the needed teaching facilities

- The existing facilities (for example labs, simulations, soft wares) and the costs of using the R/V Mirabilis as living lab and on board training vessel must documented and calculated and concerned how they will be utilized effectively for double degree and electricity degree purposes.
- The work will continue during February – May 2018

Activity 4.4. Transition plan implementation

- The team leader will conduct the process of the evaluation and budget calculations with online, physical meetings and workshops.
- The work will continue after activities 1 – 3 during September 2018 – April 2019.

Quantitative indicator; one comprehensive facility study and budget plan done

- It was agreed with Ministry of Fisheries and Maritime Resources in the meeting 16.10.2017 that R/V MIRABILIS can be used as an onboard vessel and living lab. The vessel can be integrated into the Maritime Engineering Double Degree program of NUST and SAMK and corrosion research can be done also during the year 2017 – 2019 by SAMK and NUST researchers.
- The facilities of NAMFI, NUST and R/V Mirabilis were inspected by Finnish teaching and research Experts. The electricity labs of NUST were found to be on a very good level. Engine labs were found to be a gap at NUST. The existing labs were mainly meant for the use of metal works.
- The discussions were opened how the facilities will be utilized effectively for double degree and electricity degree purposes.

Quality indicator; how the facilities will be improved

- The discussions can take place after activities 1 -3 are completed.

Changes in Operational Environment

- The University of Namibia (UNAM) is developing similar maritime education (started spring 2017). This has raised some confusion and political talks among the stakeholders.
- The economic situation in Namibia is more difficult than earlier. National budget cuts have also affected education sector.
- Namibia has established a whitelisting committee to help the country in the whitelisting process to achieve the international recognition by International Maritime Organization (IMO) for its maritime administration and education. The committee has two sub committees justice and education. Dr Samuel John; NUST is a member of the education sub-committee.
- The Ministry of Justice has established a committee to reform the national laws and acts needed for the development of maritime education and administration.

Impacts of the Project in Partner Institutions So Far

- The needs assessment which was conducted by NUST clearly indicates the need to develop Marine Engineering programme in Namibia. Efforts towards developing the programme in Marine Engineering will also contribute towards the inclusion of Namibia in the white list. NUST Senate has approved the proposal to develop a double degree programme in Marine engineering in partnership with SAMK.
- NAMPORT, City of Walvis Bay, Ministry of Fisheries and Marine Resources, Ministry of Justice, Ministry of Higher Education and Namibia Maritime Authorities has expressed their support for the maritime education development work and also to the work done to open up the importance to understand the maritime education's national and international framework, in the meetings held during the professional visit 14. – 27.10.17,
- The Ministry of Justice has established a committee to reform the national laws and acts needed for the development of maritime education and administration.

Impacts of the Project in Finland

- Corrosion research work will be done in cooperation with Rauma Maritime Construction Oy. The results will benefit the maritime technology solutions in the future.
- Wärtsilä Ship Power has an interest in Africa markets. In the Walvis Bay region especially on the ship maintenance service markets.

- SAMK has a developed a maritime education development consultant service product for the education export purposes. The experience of SAMK via development work in Namibia has been transferred also to the South Africa education markets.
- The personal contact net is essential when working in Namibia or South Africa.
- The Finnish Embassy's support, assistance and authority services have been very important since the maritime education is so regulatory conducted concerning 5 different ministries.

4. SUSTAINABILITY

Sustainability

The double degree programme in Marine Engineering will continue to be offered after the end of the project. Students in Namibia will be enrolled for the programme and course fees will be levied which will ensure continuation of the programme without external support.

How has Sustained Support for Activities been ensured in the Institutions?

- Vice-Chancellor of NUST and Managing Director of SAMK are in the board of MARIBILIS project and help with important stakeholders if necessary.
- RDI office of SAMK offers financial and secretarial assistance
- Vice-Chancellor's Office / Project Services Unit of NUST offers financial and administrative support to NUST
- Technical assistant of SAMK offers MOODLE environment assistance to SAMK, NUST and NAMFI

5. COMPLEMENTARITY

Complementarity and Links with Other Donors

None

Links with other HEI ICI projects

- ICI project MARINE RESEARCH CAPACITY DEVELOPMENT IN NAMIBIA (MARINAM) 2012 – 2015
- HEI ICI project Improving the Maritime Education of Namibia (MARIBIA) project 2013 - 2015

Links to Educational Export

SAMK is applying EU funding in cooperation with three Universities from South Africa (NMU, CPUT, DUT) and Hohchschule Wisma, Germany and Southampton Solent University, UK in the field of maritime / ERASMUS + 2018 /KA2 – Cooperation for innovation and the exchange of good practices – Capacity Building in the field of Higher Education.

Cooperation with non-academic stakeholders

1) Private Sector
   - Rauma Maritime Construction Oy, Finland, research cooperation
   - Image Sotft Oy, Finland, simulator cooperation
   - Logomatic Ltd, Denmark, ship maintenance software cooperation
   - Transas Ltd, Russia, simulator cooperartion
   - NAMPORT (Port operator in Walvis Bay, Namibia), educational cooperation
   - Port of Rauma, Finland, benchmark cooperation

2) Public Sector
   - Ministry of Fisheries and Marine Resources, Namibia, educational cooperation (NAMFI is under the MFMR ministry) R/V MIRABILIS cooperation

- Ministry of Works, Transport and Communication, Directorate of Maritime Affairs, marine education framework cooperation, whitelisting, marine administration cooperation
- Ministry of Justice, marine education framework cooperation / laws and acts
- Ministry of Higher Education, Training and Innovation, educational cooperation, NUST is under MHE
- Directorate of Maritime Affairs, Walvis Bay under Ministry of Works, Transport and Communication, Namibia
- Embassy of Finland, Windhoek, assistance cooperation, authority services
- Embassy of Namibia, Helsinki, assistance cooperation, Embassy is monitoring the MARIBILIS project
- Rauma Seaside Industrial Park, benchmarking cooperation
- Walvis Bay City, educational cooperation
- Marine and Fisheries Research Center NatMIRC under Ministry of Fisheries and Marine Resources, Namibia, R/V MIRABILIS cooperation
- Finnish Maritime Authorities, TRAFI educational / auditing / consultant cooperation
- Namibia Maritime Authorities , DMA, marine administration, whitelisting and maritime education framework cooperation

3) NGO's, Associations
Walvis Bay Corridor Group, educational cooperation

The relationship between NUST and the relevant stakeholders is quite good and stakeholders have demonstrated good commitment towards the project.

6. PROJECT MANAGEMENT

Project Management and Division of Tasks

Project Board:
The role of the project board is to monitor the project progress and to support the cooperating HEIs, approve the annual project plans and budgets, approve the annual progress reports and annual financial progress reports and the final reports and changes in the project experts.

Project Steering Group:
The team leaders, the student representatives (NUST, SAMK and NAMFI) and the project manager will form the project steering group. The role of the steering group is to help the Project Manager to monitor the progress of each result areas and keep up the good cooperation working spirit among the partners HEIs.

Project Manager:
Role and responsibilities: Reporting to EDUFI and to Board of the project. Project Manager is the chairman of the steering group and secretary of the project board. The Project Manager in charge of the project design and quality, budget, processes and liaison to other participating organizations

Team leaders:
Each team leader is responsible of the progress work and the output of the result area. Team leader will report of the progress of the result area to the project manager.

Teams
The project has mixed (NUST, NAMFI SAMK) teams. Each team member is nominated by the partners of the project. The teams are:
1) Result area 1. team = Capacity building team
2) Result area 2. team = Curriculum team

3) Result area 3. team = Quality team
4) Result area 4. team = Facility and budget team

Maritime education audit

Maritime education bases on the regulations set by the International Convention on Standards of Training, Certification and Watch keeping for Seafarers (STCW). The external auditing and accordance with the IMO (International Maritime Organization) rules guarantee the quality of training and continuous development and progress.

The double degree program of Maritime Engine according to Curriculum for engine (STCW III /2) of SAMK and NUST will be written and implemented in cooperation between the two key partners. The degree program will be audited by Finnish Transport Safety Agency (TRAFI).

Responsibilities of the participating HEIs

The responsibilities of SAMK, supported by WinNova, are to be the facilitator and tutor of the project taking also care of the project management. The experts of SAMK will also train the teachers of NUST and NAMFI into the Wärtsilä ship engine and into the electric system of the research vessel. NUST organises dual degree programme along with SAMK. SAMK, NUST and NAMFI will make available required staff resources for the programme. Together the partners will conduct courses relevant for the programme. NUST will participate in the Research programmes along with SAMK utilising the vessel R/V MIRABILIS and participate along with SAMK in the Electrical Engineering programs. The staff resources and facilities available in NUST will be utilised for the Electrical Engineering program. NUST's and SAMK's responsibility is in the academic research and writing and also theoretic studies of engineering. NAMFI's role is to represent the practical maritime skills especially in southern ocean areas and skills of fisheries.

Internal Quality Assurance and Monitoring Progress

NUST holds internal meetings every second week, to discuss progress of activities. The Project Services Unit (PSU) of the Namibia University of Science and Technology provides substantial administrative support to the project. The PSU monitors and evaluates the activities of the project and ensures Donor requirements adherence. The Project Manager collects inputs from other team members and compiles the report, which is reviewed by PSU and submitted to SAMK.

SAMK holds internal meetings when Project Manager finds it necessary. SAMK uses work pair meetings according to timelines of Results and Activities. The RDI Finance department offers financial and assistance and provides substantial administrative support to the project.

Procurements

Procurement of Namibia maritime education consultant from consultant Clive Kambogarera. Mr Kambogarera has worked on the field of maritime education for 20 years and knew the maritime education framework of Namibia very well as well as the educational processes, facilities and staff members of NAMFI.

- The procurement from Länsirannikon Koulutus Oy Ltd is under the budget line.
- The procurement from Namibian Maritime and Fisheries Institute is under the budget line.
- The procurement process of R/V MIRABILIS simulator software and SERTICA Ship Maintenance software will start during the year 2018.
- The procurement process of ship simulator software will start during the year 2018.

7. PROJECT VISIBILITY

Communication and Dissemination

- A communication plan has been developed for the project. It outlines the objectives, target groups, activities, type of information to be disseminated and communication channels to be used to disseminate the information. Additionally, a website is under development, which will also be used as a mode of communication.
- The main dissemination was executed during the year 2017 with the MARIBILIS project launch event 18.10.2017 in Namibia and with the personal meetings with important stakeholders in Namibia 14.10 – 27.10.2017

Dissemination Events and Seminars

The Official Launch and Media Event of the MARIBILIS project was held on the 18.10.2017 with attendance of the main media of Namibia;

1) Namibia Broadcasting Corporation (NBC) – TV
2) Republikein
3) Namibia Press Agency (NAMPA)
4) Freelance Environmental Journalist

Programme of the Launch and Media Event of the MARIBILIS project

PROGRAMME

The Launch of

"Improving Maritime Education of Namibia with Double Degree Program of Maritime Engineering and with the Integration of R/V MIRABILIS as a Living Laboratory" [MARIBILIS]

Director of Ceremonies Mr Tobias Nambala Deputy Director, NAMFI

Date: 18 October 2017

Time: 14:00

Venue: Namibia University of Science and Technology Hotel School
Corner Beethoven & Brahms Street, Windhoek West, entrance in Beethoven Street

14:00	Introductions	Ms Meri-Maija Marva Project Manager of MARIBILIS-project
14:30	Welcome Remarks	Ms Johanna Unha-kaprali Deputy Head of Mission
14:40	The future of Maritime Education of Namibia and the Cooperation between SAMK, NUST and NAMFI	Dr Tjama Tjivikua Vice-Chancellor
14.55	Cooperation Greetings from Finland online	President Juha Kämäri President and CEO, Satakunta University of Applied Sciences, Faculty of Logistics and Maritime Technology, SAMK
15.05	The importance of Blue Economy of Namibia	Ministry of Fisheries and Marine Resources **or** Ministry of Higher Education *tbc*
15:15	Launch of MARIBILIS	Minister of Fisheries and Marine

Resources *tbc*

15.15 Vote of Thanks Dr Samuel John
16.15 Refreshments

The persons involved with the Launch and Media Event were:

EMBASSY OF FINLAND
Deputy Head of Mission Johanna Unha – Kaprali, Embassy of Finland, Windhoek
Trainee Sanna Järvinen, Embassy of Finland, Windhoek

MFMR
Permanent Secretary: Dr. Moses Maurihungirire
Deputy Director: Graca D'Almeida

MFMR Directorate of Operations, Walvis Bay
Marine Superintendent Theophilus S.P. Kamberuka

Ministry of Works and Transport
Mr. Theo Shipopyeni, Senior Ship Surveyor, The Directorate of Maritime Affairs within the Ministry of Works and Transport, Walvis Bay Namibia
Control Administration Officer Ms Lelly Saima Uukule The Directorate of Maritime Affairs within the Ministry of Works and Transport, Windhoek Namibia,

Ministry of Justice
Deputy Permanent Secretary Ms Gladice Pickering

NAMPORT
Marine Manager: Patrick Nawaseb
Port Captain: Lukas Kufuna

NUST:
The Vice-Chancellor, Prof. Tjama Tjivikua
Dean, Dr Samuel John, Faculty of Engineering
Dr. Rajaram Swaminathan, Faculty of Engineering
Prof. Dick Groot, Faculty of Engineering
Lecturer, Mechanical Engineering Andrew Zulu, Faculty of Engineering
Lab Technician: Mining & Process Engineering Jacqueline Kurasha, Faculty of Engineering
Project Analyst, Ms Victoria Shipanga, Project Services Unit, Office of the vice-Chancellor

NAMFI:
Director Cornelius Bundje
Deputy Director Tobias Nambala

SAMK:
Project Manager, MSc (Econ.) Meri-Maija Marva, Faculty of Logistics and Maritime Technology
Captain, Master Mariner, Maritime Expert Heikki Koivisto, Faculty of Logistics and Maritime Technology
Senior Lecturer, Logistics, MSc (Eng), MBA Riitta Tempakka, Faculty of Logistics and Technology

NTA:
Director Amon Haufiku

MEDIA:

1) Namibia Broadcasting Corporation (NBC) – TV
2) Republikein
3) Namibia Press Agency (NAMPA)
4) Freelance Environmental Journalist

Publications and Articles

https://economist.com.na/29431/education/research-miracle-as-mirabilis-sails-into-maribilis-marine-research-project/
https://www.linkedin.com/pulse/maribilis-project-logo-competition-daniel-pemphero-mgawi
http://www.nbc.na/news/project-broaden-namibias-maritime-education-and-training-launched.13677
https://www.namibiansun.com/news/maritime-studies-at-nust2017-10-31
http://www.nust.na/sites/default/files/newsletter/27%20October%202017.pdf

8. TRAININGS AND MOBILITY

Number of Trainings	
Workshops (short term	6
Contact Trainings and Courses	
Online Trainings and Courses	

Number of Participants				
	Online Training		Contact Training	
	Female	Male	Female	Male
BA Students				
MA Students				
PhD Students				
Staff	4	19		
Non-university Professionals				
Total No of Participants				

Description on Trainings and Workshops

Please give brief description of above trainings with topics, participants and locations.

1. **Workshop in SAMK Maritime Campus and Seaside Industrial Park, Rauma Finland 6.6.2017**
   Content: Introducing the simulator center of SAMK and benchmarking visit to Rauma Seaside Industrial Park

   Participants:

   SAMK
   - Lecturer, BSc (Eng.) Toni Haapanen,
   - Senior Lecturer, Dr (Tech.) Jarmo Hautaniemi,

- Lecturer, Captain, Master Mariner, Maritime Expert Heikki Koivisto,
- Senior Lecturer, BSc (Eng.) electricity and automation, Jarno Laine
- Project Manager, Training Manager, MSc (Econ.) Meri-Maija Marva,
- Senior Lecturer, Logistics MSc (Tech.) Riitta Tempakka,

NUST

- Dr Samuel John, Dean of Faculty of Engineering,
- Dr Rajaram Swaminathan, Head of Department: Mechanical & Marine Engineering.
- Ms Victoria Shipanga, Project Analyst: Project Services Unit, Office of the Vice-Chancellor.
- Ms Mariana Nuule, Financial Administrator, Project Services Unit, Office of the Vice-Chancellor.

NAMFI

- Deputy Director, Captain Tobias Nambala
- FINNISH NATINAL AGENCY FOR EDUCATION (EDUFI) participating as an observer
- Executive Authority, Ms Kaija Pajala

2. Workshop in NUST Campus, Windhoek 17.10.2017

Content: Introduction of the MARIBILIS Project; Processes, administration and result areas, teams and targets and outcomes of the project

Participants:

NUST

- Dr Samuel John, Dean of Faculty of Engineering, liaison with other participating organizations
- Dr Rajaram Swaminathan, Head of Department: Mechanical & Marine Engineering
- Mr Andrew Zulu, Deputy Head of Department: Mechanical & Marine Engineering
- Mr Gideon Gope, Senior Lecturer: Electrical & Computer Engineering
- Dr Dick Groot, Deputy Head of Department & Associate Professor : Hydrometallurgy: Mining & Process Engineering
- Jacqueline Kurasha, Lecturer: Mining & Process Engineering
- Ms Victoria Shipanga, Project Analyst: Project Services Unit
- Ms Mariana Nuule, Financial Administrator, Project Services Unit

SAMK

- Lecturer, Captain, Master Mariner, Maritime Expert Heikki Koivisto
- Project Manager, Training Manager, MSc (Econ.) Meri-Maija Marva
- Senior Lecturer, Logistics MSc (Tech.) Riitta Tempakka

3. Two days workshop / seminar in Walvis Bay 23. – 24.10.2017

Content: Introduction of the MARIBILIS project and familiarization of the partners' experts including the officers of R/V MIRABILIS and sharing the curriculum implementation responsibilities among the partners (first draft), familiarization of the R/V MIRABILIS' and NAMFI' facilities

Participants:

Monday 23.10

- Director Cornelius Bundje NAMFI, Namibia Maritime and Fisheries Institute
- Captain Vilho Hango, R/V MIRABILIS, Directorate of Operation, Ministry of Fisheries and Marine Resources
- First Officer Werner Hamwaalwa, R/V MIRABILIS, Directorate of Operation, Ministry of Fisheries and Marine Resources
- Selestino Tjipita, 3rd Engineerm R/V MIRABILIS, Directorate of Operation, Ministry of Fisheries and Marine Resources

- Paulus Tashiya, Chief Engineer R/V MIRABILIS, Directorate of Operation, Ministry of Fisheries and Marine Resources
- Director Steven Ambabi, Directorate of Operation, Ministry of Fisheries and Marine Resources
- Superintendent Theophilus Kamberuka
- Maritime Education Consultant, Captain Clive Kambogagera, Walvis Bay, Namibia
- Dr Samuel John, Dean of Faculty of Engineering, NUST
- Dr Rajaram Swaminathan, Head of Department: Mechanical & Marine Engineering, NUST
- Dr Andrew Zulu, Deputy Head of the Department: Mechanical& Marine Engineering (degree) , NUST
- Associate Professor: Metallurgy Engineering Dick Groot, Department of Mining and Process Engineering, NUST
- Lecturer: Electrical and Computer Engineering, Gideon Gope, Lab Technician: Mining & Process, The Department of Electrical and Computer Engineering, NUST
- Lab Technician: Mining & Process Engineering Jacqueline Kurasha, Department of Mining and Process Engineering, NUST
- Head of the Department, Mechanical David Hamupembe, NAMFI
- Principal Lecturer, Dr (Tech.) Sauli Ahvenjärvi, SAMK
- Lecturer, BSc (Eng.) Toni Haapanen, SAMK
- Senior Lecturer, Dr (Tech.) Jarmo Hautaniemi, SAMK
- Lecturer, Captain, Master Mariner, Maritime Expert Heikki Koivisto, SAMK
- Senior Lecturer, BSc (Eng.) electricity and automation, Jarno Laine ; WINNOVA
- Project Manager, Training Manager, MSc (Econ.) Meri-Maija Marva, SAMK
- Senior Lecturer, Logistics MSc (Tech.) Riitta Tempakka, SAMK

Tuesday 24.10

- Captain Vilho Hango, R/V MIRABILIS, Directorate of Operation, Ministry of Fisheries and Marine Resources
- First Officer Werner Hamwaalwa, R/V MIRABILIS, Directorate of Operation, Ministry of Fisheries and Marine Resources
- Maritime Education Consultant, Captain Clive Kambogagera, Walvis Bay, Namibia
- Dr Samuel John, Dean of Faculty of Engineering, NUST
- Dr Rajaram Swaminathan, Head of Department: Mechanical & Marine Engineering, NUST
- Dr Andrew Zulu, Deputy Head of the Department: Mechanical& Marine Engineering (degree) , NUST
- Associate Professor: Metallurgy Engineering Dick Groot, Department of Mining and Process Engineering,
- Lecturer: Electrical and Computer Engineering, Gideon Gope, Lab Technician: Mining & Process, The Department of Electrical and Computer Engineering, NUST
- Lab Technician: Mining & Process Engineering Jacqueline Kurasha, Department of Mining and Process Engineering, NUST
- Director Cornelius Bundje NAMFI, Namibia Maritime and Fisheries Institute
- Principal Lecturer, Dr (Tech.) Sauli Ahvenjärvi, SAMK
- Lecturer, BSc (Eng.) Toni Haapanen, SAMK
- Senior Lecturer, Dr (Tech.) Jarmo Hautaniemi, SAMK
- Lecturer, Captain, Master Mariner, Maritime Expert Heikki Koivisto, SAMK
- Senior Lecturer, BSc (Eng.) electricity and automation, Jarno Laine ; WINNOVA
- Senior Lecturer, Logistics MSc (Tech.) Riitta Tempakka, SAMK

4. Workshop in NUST 31.10
   Content: Familiarization of the NUST School of Engineering facilities
   Participants:

- Dr Samuel John, Dean of Faculty of Engineering, NUST
- Dr Rajaram Swaminathan, Head of Department: Mechanical & Marine Engineering, NUST
- Dr Andrew Zulu, Deputy Head of the Department: Mechanical& Marine Engineering (degree) , NUST
- Associate Professor: Metallurgy Engineering Dick Groot, Department of Mining and Process Engineering, NUST
- Principal Lecturer, Dr (Tech.) Sauli Ahvenjärvi, SAMK
- Lecturer, BSc (Eng.) Toni Haapanen, SAMK
- Senior Lecturer, Dr (Tech.) Jarmo Hautaniemi, SAMK
- Senior Lecturer, BSc (Eng.) electricity and automation, Jarno Laine ; WINNOVA

Number of Mobility Actions

	Female	Male
BA Students		
MA Students		
PhD Students		
Staff	4	8

Describe Mobility of Students and Staff

1. Professional visit to Finland 3. – 8.6.2017
   - Sending country. Namibia
   - Receiving country: Finland
   - Less than one week
   - Female 2
   - Men 3
2. Professional visit to Namibia 14.10 – 31.10.2017
   - Sending country: Finland
   - Receiving country: Namibia
   - 14 / Days 3 persons, 9 days / 4 persons
   - Female 2
   - Men 5

9. LESSONS LEARNED

Challenges and Good Practices

You may also provide any information that may be useful for other projects to know, or also try.

- Cultural differences between Finnish and African Partners.
- The personal contact net is essential when working in Namibia or South Africa.
- The Finnish Embassy's support, assistance and authority services have been very important since the maritime education is so regulatory administered and audited concerning 5 different ministries.
- Fear of changes is important to understand and is understandable in humanity.

10. OTHER ISSUES

In this section, you can present all other questions that have arisen and achievements made during the project and within the or in the margins of the HEI ICI project.

ATTACHMENTS NEEDED

1. Financial Progress Report
2. Accounts extract
3. Mobility reports of staff and students