

HEI ICI Programme 2016-2020

Diaarinumero: 14/177/2018

ANNUAL REPORT 2018

To be filled in online by end of March 2019. Please find additional information on content required via the "?" signs next to the questions. Make sure the report includes all information and attachments, and is submitted before the deadline.

PROJECT DETAILS

Acronym

MARIBILIS

Project Name

IMPROVING MARITIME EDUCATION OF
NAMIBIA WITH DOUPLE DEGREE PROGRAM OF
MARITIME ENGINEERING AND WITH THE
INTEGRATION OF R/V MIRABILIS AS A LIVING
LAB

Coordinating HEI

Satakunta University of Applied
Sciences

1. OVERVIEW

2017: Short Summary of Progress during the year

Satakunta University of Applied Sciences (SAMK) and Namibia University of Science and Technology (NUST) are partners in 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 (four) Result Areas. SAMK is responsible for 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 a development society). NUST is responsible for coordinating Result Area 2 (Improved quality of higher education and research environment). In each Result Area, the team members have been identified and a work plan for the various activities developed. A research proposal on corrosion in the Namibian marine environment has been prepared for further discussions with other members.

2018: Short Summary of Progress during the year

SAMK and NUST are partners in the MARIBILIS Project. The outcome of the project is to develop higher education competences in the field of maritime in Namibia.

Capacity building actions during 2018 were the following: The teachers involved were nominated, also competence and qualification (C&Q) survey platform work was started in the fall 2018. Onboard trainer's consultation was given to the onboard training responsibility person of NUST and onboard trainer's training course for the officers of R/V MIRABILIS was held in November by SAMK. In addition ship electricity and automation training of trainers of NUST was carried out during the fall.

Curriculum work continued, NUST, NAMFI professional delegation visited Finland, at SAMK to work on the curriculum and quality and consultation of simulation learning method by learning by doing, as well as audit negotiation with TRAFICOM. All professionals visited the modern LNG cruise ship to experience the curriculum in reality.

The Maritime Engineering Double Degree program's curriculum (STCW III /2) was completed and approved by NUST senate. Ship electricity and maintenance course's content was completed and is ready to be integrated to the Electrician Engineering program of NUST.

2017: 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 at NUST and supervising officers of R/V MIRABILIS.
- 2) Result Area 2 - the curriculum for the double degree program of maritime engineering (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 onboard training vessel and living lab.
 - It has been decided to adopt the SAMK curriculum for Marine Engineering, with some improvements, and to integrate R/V MIRABILIS in the curriculum as part of the work- integrated learning.
- 3) Result Area 3 - to model, build up and establish a 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 regulations, and the Maritime Authorities of Namibia (DMA) are invited to join the auditing process from the point of view of learning perspective. Furthermore, the degree program shall be subject to the quality system of SAMK.
- 4) Result Area 4 - to produce facility study and a 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. NU

2018: Result Example(s) for Communication Purposes

See above and

- SAMK – NUST Maritime Engineering Double Degree (STCW A- III /2) was launch to the education market of Namibia during the fall 2018. 50 student applied and 17 was chosen into the program.

2. DEVELOPMENT POLICY

2017: Policy Coherence 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 this vision to be achieved.

2018: Policy Coherence in Partner Countries

No changes.

2017: 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 program, consists of male and female experts from SAMK, NUST and NAMFI. The project consists of core maritime expert teams and supporting teams. Nine of the 23 project experts are female. The project also has important stakeholders which are: the Maritime Administrations of Finland and Namibia; ministries in both countries; the Embassies of Finland and Namibia; 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 whom are females acting in significant positions.
- During the professional trip to Rauma, Finland, the project teams made a benchmark visit to Rauma Seaside Industry Park as an example of the maritime industrial ecosystem park, where private – public sector actors have developed an industrial park for the heavy-duty naval industry. This park 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 a professional workforce and research, development and innovation services. Rauma Seaside Industry Park could be an idea for Walvis Bay industrial area, too.
- To be able to develop a maritime cluster in Namibia, it

2018: Alignment with Finnish Development Policy Goals

No changes.

2017: Describe How Human Rights Based Approach Has Been Applied

- All project partners are equal in MARIBILIS. The project has mixed working teams (all partners involved). The male and female members of the project are equal, and the participants are expected to respect the knowledge and experience of each member, irrespective of gender. The age equality aspect will be met by taking student representatives onto the board of the project and to the steering group.
- All representatives of the partners have an equal right to participate in the collaboration work: board meetings, team meetings, round table discussions, workshops, seminars and other events and in 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, travel reports, and annual and final reports.
- All participants of the project will have equal access to the information produced; they also have the freedom to express themselves whenever they wish. Openness in the decision-making process is guaranteed with open meetings, especially in board meetings.

2018: Describe How Human Rights Based Approach Has Been Applied

- specify how the human rights based approach has been applied in the project - both implementation and results: Explain how human rights principles have been applied (non-discrimination/ equality participation/inclusion, accountability, transparency)
 - o Scale 4
 - o There was non-discrimination, team members are treated equally. A student was selected to serve on the steering board. All Partners' representatives have equal right to participate in the project activities.
 - Capacity building and sharing experiences can have positive effects on right to education, right to information or another depending on the subject field of the network- please elaborate
 - o Scale 4
 - o The capacity of NUST staff was strengthened through workshops and trainings.
 - o Information on the new programme was published in the local newspapers, as well as the NUST website for wider dissemination..
 - Stakeholders and their roles, relations and capacities are mapped out and the duty bearers, right holders and responsible actors are identified
 - o Scale 5
 - o The involved stakeholders have been engaged in discussion, in order to secure support for the implementation of the programme. All relevant Partners are aware of their roles and responsible actors such as the Namibia Student Financial Assistance Fund (NSFAF) have been briefed about the Programme and the required support

2017: Describe Project's Approaches to Gender Perspective

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

2018: Describe Project's Approaches to Gender Perspective

No changes.

2017: Describe Project's Approach to Reduction of Inequality

- Namibia's Vision 2030 places the 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.

2018: Describe Project's Approach to Reduction of Inequality

No changes.

2017: Describe Project's Efforts towards Climate Sustainability

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

2018: Describe Project's Efforts towards Climate Sustainability

No changes.

2017: Integration of UN 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 this vision to be achieved.

The MARIBIA project puts an emphasis also on climate action, supporting the operations of R/V MIRABILIS by integrating the vessel into the maritime engineering degree program and also to the electricity engineering program of NUST. The vessel will be utilized as an on-board training vessel and living lab. And since the vessel is used for research purposes in the marine and fisheries fields, the MARIBILIS project also supports the sustainable use of oceans, seas and marine resources.

2018: Integration of UN Sustainable Development Goals

No changes.

3. RESULTS

Planned Outcome of the Project

- The outcome of the project is to develop higher education competences in the field of maritime in Namibia

PROGRESS TOWARDS THE OUTCOME IN 2017

- Professional Visit and Kick-Off meeting in Rauma 3 – 8.6.2017, Finland and the visit to Rauma Seaside Industry Park and Rauma Marine Constructions (RMC) Ltd. In the Kick-Off meeting the board, the steering group, the student representatives, the budget and the self-finance portions and work plans were decided upon.

- The 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 the Finnish Embassy and SAMK, NUST and NAMFI. Maritime Education Framework meetings were held with the following Ministries: the Ministry of Fisheries and Marine Resources, Work and Transport, Justice, Higher Education, and the Directorate of Maritime Affairs (DMA)

Meetings with important Stakeholders: University of Namibia, NAMPORT, Walvis Bay Office of the Mayor, and the Marine and Fisheries Research Center NatMIRC.

- A two-day project seminar in Walvis Bay and professional visits to R/V MIRABILIS and the Namibia Maritime and Fisheries Institute.

- It has been agreed that the SAMK Maritime Degree Program curriculum is the foundation document of the Maritime Engineering Double Degree Program of SAMK and NUST.

- The first draft of the results time Schedule is ready

- SAMK Maritime engineering curriculum delivered in August 2018

- First draft of Implementation plan of the degree program and responsibilities of ea

PROGRESS TOWARDS THE OUTCOME IN 2018

- The curriculum for double degree in Marine Engineering was developed and discussed with the relevant stakeholders of NUST.

- The double degree programme has been approved by NUST senate and submitted to the Namibia Qualification Authority (NQA) for accreditation.

- An assessment of the MIRABILIS vessel was done and research areas identified.

- A Training of Trainers (ToT) on Ship Electrical Systems and Ship Automation was conducted by SAMK at Walvis Bay, Namibia.

Planned Results of the Project

1) Improved Access to Higher education and research information

2) Improved quality of higher education and research environment

3) Enhanced Institutional capacity supporting quality of teaching and research

4) Strengthened role and relevance of HE in development of society

2017 RESULTS UNDER 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 finalized at the Kick-Off meeting in Rauma on 5.6.2017

Activity 1.2. Evaluating the existing expertise and further expertise required

- The persons involved will evaluate and document the present degree skills and the degrees and skills needed 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 made.

- This is scheduled to be done by August – September 2018

Activity 1.5. Evaluation and feedback

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

- This is planned to be done by March 2020

Output 1.1 Study plans produced and developed 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

2018 RESULTS UNDER RESULT AREA 1: Improved access to higher education and research information

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

Quality indicator; How the skills are improved and approved

- The teachers involved are nominated / Nov 2018

- Competence and Qualification (C&Q) survey platform work was started Sep 2018

- Onboard Trainer's training course for the Officers of R/V MIRABILIS, Nov 2018

- Onboard Trainer's consultation was given to the Onboard Training responsibility person Mr Antony Apata, NUST by Captain Kai Raikunen, SAMK, Nov 2018

- Ship Electricity and Automation Training of Trainers of NUST (TOT) , by SEO Jarno Laine, WinNova, Nov 2018

2017 RESULTS UNDER RESULT AREA 2: Improved quality of higher education and research environment

Activity 2.1.: Identification of the team members involved, 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 program 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. 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 carried out. The schedule for various activities was drawn up. Activity 2.3.: Assessing how R/V MIRABILIS can be integrated; consultation with industry .Orientation/training under supervision of SAMK experts was organized on R/V MIRABILIS. It was decided to integrate R/V MIRABILIS in the curriculum as part of the work-integrated learning. Corrosion in the marine environment and operation/maintenance of a ship's electrical engineering systems were

2018 RESULTS UNDER RESULT AREA 2: Improved quality of higher education and research environment

Output indicator 2.1

New teaching methods, curricula, study programmes, modules and quality assurance mechanisms (number/%)

- The Maritime Engineering Double Degree program's curriculum (STCW III /2) was finalized Nov 2018

- The implementation plan of the Double Degree program was finalized Nov 2018.
- The curriculum was discussed with the stakeholders of NUST, Nov 2018
- Ship Electricity and Maintenance course's content is ready to be integrated to the Electrician Engineering program of NUST.
- Corrosion Research of the sea water pipes of R/V MIRABILIS was done by the NUST and SAMK, fall 2018.
- Orientation/ training under supervision of SAMK experts was organized on R/ V MIRABILIS, Nov 2018.
- The MOU of the integration of the R/V MIRABILIS as an onboard training vessel between Ministry of MFMR and NUST is prepared not signed.
- The board of NUST has difficulties to do a subcontract with NUST of the implementation of DD.
- Board of NAMFI wants to be an equal partner with SAMK and NUST. This not possible due the law of University of Applied Sciences in Finland. From the Finnish point of view the DD agreement can only be made between higher education institutes.
- DMA (Department of Maritime Authorities under Ministry of Work and Transportation) of has not prepared the draft of bilateral agreement as they have promised Feb 2018.
- Ministry of Foreign Affairs of Finland (Now 2018) Inspector Janne Koivu, South and West South Department of Africa, MFA told that Finland do not want bilateral agreement between the countries in this matter. The MOU between TRAFICOM, Finland and DMA, Namibia is possible.
- Deputy Director Ingrid Tjizo Ministry of International Relation and Cooperation was nominated as member of board of MARIBILIS project is helping to solve the problem.
- SAMK is preparing the DD partnership agreement with NUST and expects NUST to do the subcontract agreement with NAMFI.
- SAMK can sign a MOU between NUST and NAMFI, but DD Partnership Agreement must be only signed between NUST and NAMFI. Later if NAMFI is officially recognized as higher institute organization the DD in Maritime Engineering partnership agreement can be rewritten and signed by three equal partners.
- The Permanent Secretary Mr Moses, MFMR has been very difficult to reached by the Management of NUST. This delays the activities of the project.

Output indicator 2.2

New collaboration initiatives, (joint) publications or dissemination events (number/%)

- Launch of the DD in Maritime Engineering in Namibia, fall 2018.

2017 RESULTS UNDER 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 was carried out by SAMK, NUST and NAMFI in the Kick-Off meeting in Rauma on 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 the results of that evaluation can be used as a foundation for updating the information for the purposes of the common double degree program.

- It has been found that the Maritime Engineering Double Degree program will be subject to the SAMK's Quality system. But the quality systems of NUST and its affiliate partner NAMFI will need to be on a quality level that Finnish Maritime Authorities can approve.

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

- A comparison of the quality systems of SAMK, NUST and NAMFI was already carried out in the MARIBIA project, and that data can now be used for the purposes of developing a common quality and student administration system for double degree purposes.

- The quality system of NUST's affiliate partner NAMFI must be approved on a level that can be approved by Finnish Maritime Authorities.

Activity 3.4. Compose one common comprehensive quality and student administration system

- It has been found that no common comprehensive quality and administration system is needed, but the quality systems of

2018 RESULTS UNDER RESULT AREA 3: Enhanced Institutional capacity supporting quality of teaching and research

- Maritime Framework negotiation in the Embassy of Finland, Windhoek Feb 2018.
- Negotiation with Maritime Authorities of Finland and Namibia, Feb - May 2018
- Negotiation and the draft of MOU between NUST MFMR of the integration of R/V MIRABILIS as on board training vessel, Fall 2018

- The Auditing pre material work, Sep – Dec 2018
- The Partnership Agreement of the DD is not signed due to that some important administrative is not agreed between the partners.

Output indicator 3.2

New mechanisms/tools created for management (number/%)

- Deputy Director Ingrid Tjizo Ministry of International Relation and Cooperation was nominated as member of board of MARIBILIS project to help to solve the problem with partnership agreement and auditing of the DD in Maritime Engineering program.

2017 RESULTS UNDER 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 carried out 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 to the STCW - The first evaluation was already done in the MARIBIA project in 2013 – 2015. Now the evaluation needs to be updated to check the situation in SAMK, NUST and NAMFI now, and how the use and the costs of R/V Mirabilis as a living lab and on-board training vessel will be taken into consideration. Consideration of how each other's facilities (simulations, labs, software) will be utilized effectively 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 required teaching facilities - The existing facilities (for example labs, simulations, software) and the costs of using R/V Mirabilis as living lab and on-board training vessel must be documented and calculated and it should be considered as to 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 -

2018 RESULTS UNDER RESULT AREA 4: Strengthened role and relevance of HE in development of society

Result Area 4 (Strengthened role and relevance of Higher Education in a development society) / Facility and budgeting of the Facilities

- The Integration negotiation of R/V MIRABILIS as on board training vessel, between NUST and MFMR started during the fall 2018.
- Pre inspector visit of SAMK of the facilities of NUST and NAMFI were done Nov 2018 during the professional visit of SAMK.
- NAMFI had some difficulties with the idea of the SAMK pre inspection so it was decided to arrange a meeting to discuss of the implementation plan and NAMFI's role into it instead in NAMFI.

2017: 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 the education sector.
- Namibia has established a whitelisting committee to help the country in the whitelisting process to achieve international recognition by the 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.

2018: Changes in Operational Environment

The risks of the project are shared in three groups; Contextual, programmatic and institutional risks. The main risks are involve with nature (the economy of Namibia is very depending on natural resources), commitment of the important stakeholders (e.g. ministries) of the project, brain drains and and cultural / institutional difference among the actors of the project.

The risks that can influence the project are as follows:

Contextual Risks

- Change of focus in national development planning caused by natural disaster
- Problems in co-ordination between concerned ministries
- No interest by students in maritime engine education programme
- Other ports are built in the regions that reduce marine activity in Namibia

Programmatic Risks

- Government pulls out of programme

- Mirabilis not operational
 - Other HEIs are setting up competing Marine Engineering programmes in the country
- Institutional Risks
- Brain drain students
 - Brain drain staff
 - Lack of synergy between the Institutions
 - Slow coordination within and between the relevant Ministries may affect the project negatively, as this may slow down the implementation.
 - The funding provided through the project is not adequate to cover all key activities, especially the research component, and thus this may hinder the successful implementation of the project.

2017: Impacts of the Project in Partner Institutions So Far

- The needs assessment conducted by NUST clearly indicates the need to develop the Marine Engineering program in Namibia. Efforts towards developing the program in Marine Engineering will also contribute towards the inclusion of Namibia in the white list. The NUST Senate has approved the proposal to develop a double degree program in Marine Engineering in partnership with SAMK.
- NAMPORT, the City of Walvis Bay, the Ministry of Fisheries and Marine Resources, the Ministry of Justice, the Ministry of Higher Education and Namibia Maritime Authorities have expressed their support for the maritime education development work, and also for the work done to reveal the importance of understanding the national and international framework of maritime education, 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 as required for the development of maritime education and administration.

2018: 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 efforts of getting Namibia on the white list, which will benefit the country at large. NUST Senate has approved the implementation of a double degree programme in Marine Engineering in partnership with SAMK. The Programme attracted a lot of applications and it was commenced in January 2019.

2017: Impacts of the Project in Finland

- Corrosion research work will be done in cooperation with Rauma Maritime Construction Ltd. The results will benefit the maritime technology solutions in the future.
- Wärtsilä Ship Power has an interest in Africa markets, in particular in the Walvis Bay region, in the ship maintenance service markets.
- SAMK has developed a maritime education development consultant service product for education export purposes. The experience of SAMK via development work in Namibia has been transferred also to the South Africa education markets.

2018: Impacts of the Project in Finland

- The understanding of the cultural differences and challenges of developing country is increased.
- The importance of the good functionality of the administration is learned.
- The appreciation of the Finnish official administration is high.

4. SUSTAINABILITY

2017: How has the sustainability of achievements been ensured?

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

2018: How has the sustainability of achievements been ensured?

The double degree programme in Marine Engineering will continue to be offered even beyond the project's life cycle. 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. Furthermore, the Namibia Student Financial Assistance Fund and the Maritime cluster of Namibia will be approached to sponsor students for the programme. The Programme is well

received by the Stakeholders and, strong support has been pledged from the government and Marine Sector.

DD in Maritime Education will be a degree program of SAMK's as long as Namibia is not white listed country by IMO. The DD program can even continue after the listing if both parties SAMK and NUST and also NAMFI will so agree and this is approved by the maritime authorities of Namibia and the Ministry of Higher Education of Namibia.

2017: How has Sustained Support for Activities been Ensured in the Institutions?

- The Vice-Chancellor of NUST and the Managing Director of SAMK are on the board of the MARIBILIS project. They have helped with important stakeholders when necessary.
- The RDI office at SAMK offers financial and secretarial assistance
- The Vice-Chancellor's Office / Project Services Unit of NUST offers financial and administrative support to NUST
- The Technical assistant at SAMK offers MOODLE environment assistance to SAMK, NUST and NAMFI
- The Finnish Embassy's support, assistance and authority services have played a very important role, since maritime education is conducted in such a regulatory way, concerning 5 different ministries.

2018: How has Sustained Support for Activities been Ensured in the Institutions?

- The Dean of School of Engineering of NUST as assistant of Vice Chancellor and the Dean of Faculty of Logistics and Maritime Technology of SAMK are on the board of the MARIBILIS project. They have helped with important stakeholders when necessary.
- The RDI office at SAMK offers financial and secretarial assistance
- The Vice-Chancellor's Office / Project Services Unit of NUST offers financial and administrative support to NUST
- The Technical assistant at SAMK offers MOODLE environment assistance to SAMK, NUST and NAMFI
- The Finnish Embassy's support, assistance and authority services have played a very important role, since maritime education is conducted in such a regulatory way, concerning 5 different ministries.

5. COMPLEMENTARITY

2017: Complementarity and Links with Other Donors

None

2018: Complementarity and Links with Other Donors

The Embassy of Finland, Windhoek has contacted the Permanent Secretary of Ministry of Fisheries and Marine Resources.

The Embassy of Finland has provide negotiation venue and online connection when needed.

2017: 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

2018: 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
- Maritime Education is so different from other educations due the importance of the framework and for example the on board training that synergies are hard to find.

2017: Links to Educational Export

SAMK is applying for EU funding in cooperation with three Universities from South Africa (NMU, CPUT, DUT) and Hochschule 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.

2018: Links to Educational Export

SAMK in cooperation with Nelson Mandela University (NMU), Cape Peninsula University of Technology (CPUT), Durban University of Technology (DUT), SA and Hochschule Wismar, Germany and Solent University, UK got ERASMUS + 2018 / KA2 funding for one million euros to develop the maritime education of the consortium (2018 – 2021).

SAMK has developed following projects after ICI and HEI ICI programs :

Namhub

https://www.theseus.fi/bitstream/handle/10024/116542/2016_B_11_SAMK_NAMHUB_loppurapo_sequence=1

Namurban- <https://smarturbanbusiness.samk.fi/namurban/>

MTCC – Namport as a regional West Africa Center

http://mtccafrica.jkuat.ac.ke/?page_id=78

SMEAisle –

<https://smarturbanbusiness.samk.fi/smeaisle/>

2017: Cooperation with Non-academic Stakeholders

1) Private Sector: Rauma Maritime Construction Oy, Finland, research cooperation, Image Soft Oy, Finland, simulator cooperation ,Logomatic Ltd, Denmark, ship maintenance software cooperation ,Transas Ltd, Russia, simulator cooperation, 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, Namibia, Ministry of Works, Transport and Communication, Directorate of Maritime Affairs, marine education framework cooperation, whitelisting, marine administration cooperation, Namibia, Ministry of Justice, marine education framework cooperation / laws and Acts, Namibia, Ministry of Higher Education, Training and Innovation, educational cooperation, NUST is under MHE, Namibia, 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; the Embassy is monitoring the MARIBILIS Project, Rauma Seaside Industry Park, benchmarking cooperation, Finland, Walvis Bay City, educational cooperation, Namibia, Marine and Fisheries Research Center NatMIRC under Ministry of Fisheries and Marine Resources, Namibia, R/V MIRABILIS cooperation, Namibia, Finnish TRAFI, auditing, DMA auditing, Walvis Bay Corridor Group

2018: Cooperation with Non-academic Stakeholders

1) 1) Private Sector

A good relationship has been established with relevant stakeholders and they have demonstrated good commitment towards the project. Notably, The Namibian Ports Authority (NAMPORT) has been involved in the project and two members of the Steering board are employees of NAMPORT. NAMPORT also joined the Namibian visit to Finland in May 2018.

- Rauma Maritime Construction Oy, Finland, research cooperation

- Image Soft Oy, Finland, simulator cooperation

- Logomatic Ltd, Denmark, ship maintenance software cooperation

- Transas Ltd, Russia, simulator cooperation

- NAMPORT (Port operator in Walvis Bay, Namibia), educational cooperation

- Port of Rauma, Finland, benchmark cooperation

2) Public Sector

• The Ministries involved are the Ministry of Fisheries and Marine Resources (MFMR), Ministry of Justice (Moj), and Ministry of Works and Transport (MWT).

• The MFMR has agreed to avail the R/V Mirabilis to the project team when required.

• NAMFI (Affiliate partner) is the key player in the project and has continued to provide the necessary support and maintain the good cooperation.

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

-12 other stakeholders

3) NGOs, Associations

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

6. MANAGEMENT

2017: Project Management and Division of Tasks

Project Board: The role of the project board is to monitor 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 regard to 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 area and to maintain a good cooperation working spirit among the partner HEIs. Project

Manager: Role and responsibilities: Reporting to EDUFI and to the project Board. The Project Manager is the chairman of the steering group and secretary of the project board. The Project Manager is in charge of the project design and quality, budget, processes and liaison with other participating organizations. Team leaders: Each team leader is responsible for the progress work and output of the result area. The team leader will report to the project manager on the progress of the result area. Teams The project has mixed teams (NUST, NAMFI SAMK). Each team member is nominated by the partners of the project. The teams are: 1) Capacity building 2) Curriculum team 3) Quality team 4) Facility and budget

2018: Project Management and Division of Tasks

There has been changes in the members of the board. The members are now:

- 1) Vice-Chancellor, Prof. Tjama Tjivikua, assisted by Dr Samuel John, NUST
- 2) Acting Director, Tobias Nambala, NAMFI
- 3) Permanent Secretary, Dr Moses Ministry of Fisheries and Marine Resources, Windhoek
- 4) Deputy Director, Ingrid Tjizo; Bilateral Affairs, Ministry of International Relations and Cooperation, Windhoek
- 5) Deputy Director, Patrick Silishebo, Maritime Safety and Security, DMA, Ministry of Works and Transport, Walvis Bay
- 6) Senior Ship Surveyor Theo Shipopyeni, DMA, Ministry of Works and Transport, Walvis Bay
- 7) Marine Manager Patrick Nawaseb, NAMPORT, Walvis Bay
- 8) Port Captain, Lukas Kufuna. NAMPORT, Walvis Bay
- 9) Dean, Chairman of the Board, Jaana Vase, SAMK, Faculty of Logistics and Maritime Technology, SAMK
- 10) Project Manager, Secretary of the Board, Meri-Maija Marva, SAMK

Within NUST a system of Coordinators and Managers is developed, whereby the Coordinator is responsible for administrative reporting and management (including communication and cooperation with partners and other stakeholders), whereas the Manager executes the activities according to the plan from a technical perspective. The Project Services Unit thus facilitates high level implementation of the project, to ensure donor compliance. Communication is done via emails and official letters. NUST uses an Integrated Tertiary Software (ITS) for Financial administration. Number of board meetings: 5.

2017: Internal Quality Assurance and Monitoring Progress

NUST holds internal meetings every second week, to discuss the progress of activities. The Project Services Unit (PSU) of 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 adherence to Donor requirements. 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 at the Project Manager's discretion. SAMK uses work-pair meetings according to the timelines of Results and Activities. The RDI Finance department offers financial and other assistance and provides substantial administrative support to the project.

2018: Internal Quality Assurance and Monitoring Progress

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No changes in SAMK.

2017: Procurement

Procurement of Namibia maritime education consultant Clive Kambogarera. Mr Kambogarera has worked in the field of maritime education for 20 years and knows 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 budgeted sum.
- The procurement from the Namibian Maritime and Fisheries Institute is under the budgeted sum.
- The procurement process of R/V MIRABILIS simulator software and SERTICA Ship Maintenance software will start during 2018.
- The procurement process of ship simulator software will start during 2018.

2018: Procurement
No procurement has done yet.

7. VISIBILITY

2017: 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 on 18.10.2017 in Namibia, and with meetings with important stakeholders in Namibia on 14.10 – 27.10.2017

2018: 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. A website has also been developed by NUST and is being updated with Projects' news and other relevant documents. The website may be accessed through this link; <http://maribilis.nust.na/>

2017: 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>

2018: Publications and Articles

None

8. MOBILITY

Mobility Actions

	Female	Male
BA Students	0	0
MA Students	0	0
PhD Students	0	0
Staff	4	8
Total	4	8

2017: Describe Mobility Actions

- Professional trip of Heikki Koivisto and Toni Haapanen, SAMK 11. – 22.2.2018 Sending Country Finland, receiving country Namibia, 11 days, 2 males.
 - Professional trip of Namibia delegation to Finland, 17.5. – 23.5.2018, Sending country Namibia, receiving country Finland, 7 days, 6 males
 - Professional trip of Kai Raikunen and Jarno Laine to Namibia, 24.10 – 9.11.2018, sending country Finland, receiving country Namibia, 17 together days, 2 males
 - Professional trip of Riitta Tempakka, Toni Haapanen and Heikki Koivisto, 1.11. – 11.11.2018, sending country Finland, receiving country Namibia, 10 days 2 males, 1 female.
 - 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
- Mobility Actions

	Female	Male
BA Students	0	0
MA Students	0	0
PhD Students	0	0
Staff	1	11
Total	1	11

2018: Describe Mobility Actions

- Professional trip of Heikki Koivisto and Toni Haapanen, SAMK 11. – 22.2.2018 Sending Country Finland, receiving country Namibia, 11 days, 2 males.
- Professional trip of Namibia delegation to Finland, 17.5. – 23.5.2018, Sending country Namibia, receiving country Finland, 7 days, 6 males
- Professional trip of Kai Raikunen and Jarno Laine to Namibia, 24.10 – 9.11.2018, sending country Finland, receiving country Namibia, 17 together days, 2 males
- Professional trip of Riitta Tempakka, Toni Haapanen and Heikki Koivisto, 1.11. – 11.11.2018, sending country Finland, receiving country Namibia, 10 days 2 males, 1 female.

9. LESSONS LEARNED

2017: Challenges and Good Practices

- Cultural differences between Finnish and African Partners.
- The personal contact network 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 conducted in such a regulatory way, concerning 5 different ministries.
- A personal contact network is essential when working in Namibia or South Africa.
- It is important to understand fear of changes, and is understandable in humanity.

2017: Challenges and Good Practices

2018: Since the maritime education is so regulatory conducted it would be so important that the Ministries involve in Namibia would understand their importance role in the framework.

10. OTHER ISSUES

2017: Questions or Comments?

2018: Questions or Comments?

11. USE OF FUNDS

	€
Approved budget 2017-2020	874929
Total MFA Funding	699943
Total Self Financing:	174985
	€
Overall expenditure of Finnish HEIs	157759
Overall expenditure of Foreign HEIs	30194
Total expenditure	187953

HEI ICI Programme 2017 used funding		Total €
Total MFA Funding Used 2017	- 150362,76	150362 €
Total Self Financing Used 2017	-37590,69	37590 €
Total		187952 €

€

Total Funds Transferred to 2018	79513
	€
Overall expenditure of Finnish HEIs 2018	158738
Overall expenditure of Foreign HEIs 2018	55343
Total expenditure	214081

HEI ICI Programme 2018 used funding		Total €
Total MFA Funding Used 2018	-	169511 €
Total Self Financing Used 2018	-	44570 €
Total		214081 €

	€
Total Funds Transferred to 2019	270665

2018 Financial Progress Report

[FINAL HEI ICI MARIBILIS report 2018 SAMK and NUSTx.xlsx](#) (Liitetty 1.4.2019 klo 14.47)

2018 Accounts Extract for Coordinating HEI

[General Ledger Maribilis 2018.pdf](#) (Liitetty 28.3.2019 klo 15.24)

2018 Mobility Reports of Staff and Students

[HEI ICI Travel reports Maribilis 2018.pdf](#) (Liitetty 29.3.2019 klo 16.03)

Trainings and events Excel

[MARIBILIS Training events NUST and SAMK.pdf](#) (Liitetty 25.3.2019 klo 17.51)

Project-specific Results Framework

[MARIBILIS_Result_Areas_2019.xlsx](#) (Liitetty 30.3.2019 klo 12.14)
