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Erasmus + KA2 Cooperation for innovation and the exchange of good practices **Capacity Building in the field of Higher Education**

Proposals 2019 - EAC/A03/2018

Project Grant Agreement N. **586221**

Project acronym: **NePREv**

Full title: **Setting up a multidisciplinary joint master degree dedicated to the Next Production Revolution**

Progress of Work Packages

YEAR 1-2-3

<p>WP/Task/Deliverable: WP9/D9.14</p> <p>Planned Date: 15/11/2020 Due Date: 15/11/2022</p> <p>Nr. pages: 27 Dissemination Level: Institution</p>	<p>Partner responsible: POLITO Person Responsible: Prof. Pierluigi Leone Author: Pierluigi Leone, Sonja Sechi, Laura Rietto</p> <p>Document version: 1 Reviewed/supervised by: POLITO, POLIMI, CS, OBREAL, ENIT, ISGIS, FSJEGJ, ENIGA</p>
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History of revisions

Rev N	Description	Author	Review	Date
0	Draft	POLITO	Draft creation	09/04/2020
1	Draft	POLITO	Contents integration, revision of the Partners needed on their respective parts	09/10/2020
2	Draft	POLITO	Review	13/07/2021



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Executive summary

The deliverable collects all scientific project activities as well as the final monitoring of the project.

Introduction

This deliverable represents the collection of activities by highlighting all the tangible outputs of the project.

Scientific Monitoring

WP n./Title	WP1 - Assessment of existing curricula in Tunisian and European Universities related with NPR
WP Leader	ENIGA
Author(s)	Pierluigi Leone
Reporting Period	15/11/2019 – 15/02/2020

	Title of Tasks	Short description of activity delivered ¹	End of task [dd/mm/yyyy] (as indicated in the activity Plan)	Status (delivered, ongoing, planned, cancelled, readdress)
Current Status	Task 1.1: Identification of existing curricula and courses	The task has collected the information from project partners about existing Master related to NPR and single courses. Given the broad meaning of NPR, only those courses really showing an innovative perspective have been collected and mentioned.	15/02/2020	Achieved
Current Status	Task 1.2: Building taxonomy of existing courses	A taxonomy of courses has been built based on focal areas (Industry 4.0, Renewable Energy, Management of innovation & entrepreneurship) and different learning methods (Traditional, Participative, Learning by doing).	15/02/2020	Achieved

¹ Please include a description of the activities really performed, avoiding to cut and paste what reported in the proposal.

		Overall, a major gap is identified in Management of innovation & entrepreneurship while there is a positive contribution of learning by doing that could be enforced by new equipment bought in the framework of the project.		
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	Title of Deliverables	Specific and measurable indicators as indicated in the LFM	Specific and measurable indicators really produced	Delivery Date [dd/mm/yyyy] (as indicated 1.4)	Real Delivery Date [dd/mm/yyyy]	Status (achieved, partially achieved, not yet achieved)
Current Status	Del 1.1: List of existing curricula and courses	Type: Report <ul style="list-style-type: none"> Report of existing curricula and courses 	Twenty masters fully analysed related with NPR. 30 single courses related with NPR topics. A review of the results was done after the meeting with NEO on April 2021.	15/02/2020	14/05/2021	Achieved
Current Status	Del 1.2 Taxonomy of existing of courses	Type: Report <ul style="list-style-type: none"> Analysis of existing curricula and courses. Elaboration of a taxonomy. Reporting. 	About 40% of existing single courses related with Industry 4.0, slightly less than 40% related with Renewable Energy and only about 20% related with Management of innovation & entrepreneurship. More than	15/02/2020	15/03/2020	Achieved



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			60% of courses with learning by doing activities.			
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Deviation of working or time schedule and technical corrective action	No significant deviation to describe
Past or expected bottlenecks	
Working plan for the next 6 months	Achieved
Additional comments and suggestions	

WP n./Title	WP2 - Assessment of skills and competences requirements
WP Leader	ISGI
Reporting Period	15/11/2019 – 15/02/2020

	Title of Tasks	Short description of activity delivered ²	End of task [dd/mm/yyyy] (as indicated in the activity Plan)	Status (delivered, ongoing, planned, cancelled, readdress)
Current Status	Task 2.1: Organization and implementation of a Strategy Forum Workshop	<p>The International Forum for Next Production Revolution (NPR) has been organized at ISGIS on February 19th, 2020 with the participation of about 250 participants between professors (30), industrials (20), researchers (20), students (160) and NePRev members (20).</p> <p>Important Industrials have assisted to the forum from food industry (Triki group), ceramic industry (Cartago Ceramic Group), petrochemical industry (Groupe chimique), TIC (Sfax technopark, CRNS), Automobile industry (SAMM, ACTIA), recycling industry, oil industry, renewable energy (GPC), (STEG).</p>	15/02/2020	Delivered

² Please include a description of the activities really performed, avoiding to cut and paste what reported in the proposal.

Current Status	Task 2.2: Preparation of the Strategic Education Agenda	<p>This activity sets the background, perspectives and an action plan for capacity building in NPR for Tunisia and for the Master in NPR by involving local stakeholders gathered during the Strategy Forum Workshop.</p> <p>All the feedback collected were used to design the Master in NPR as foreseen by the NePRev project. Stakeholders will be contacted to contribute and comment once the Master will be designed and will be involved for students' traineeship and final thesis.</p>	15/02/2020	Delivered
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	Title of Deliverables	Specific and measurable indicators as indicated in the LFM	Specific and measurable indicators really produced	Delivery Date [dd/mm/yyyy] (as indicated 1.4)	Real Delivery Date [dd/mm/yyyy]	Status (achieved, partially achieved, not yet achieved)
Current Status	Del 2.1: Strategy Forum Workshop	<p>Type: Event</p> <ul style="list-style-type: none"> Organization of the Strategy Forum Workshop. 	The International Forum for Next Production Revolution (NPR) has been organized at ISGIS on February 19th, 2020. 250 participants have assisted between professors (30), industrials (20), researchers (20), students (160) and NePRev members (20).	15/02/2020	19/02/2020	Achieved
Current Status	Del 2.2 Strategic Education Agenda	<p>Type: Report</p> <ul style="list-style-type: none"> Report about the Strategic Education Agenda 	High level feedback from Tunisian stakeholder about the challenges and	15/02/2020	22/06/2020	Achieved



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			opportunities of NPR for Tunisian and required skills for new job. Feedback came from Festo Tunisia, SAMM Test & Automation, Career center at ISGIS, ENIT & former Minister of Higher Education in Tunisia, Union of Small and Medium Industries – UPMI, center for innovation, transfer and entrepreneurship at Sfax university, Green Power Company, Tunisia Africa Business Council, General Director of Innovation at the Ministry of Industry, General Director of the Agency for the Promotion of Industry and Innovation (APII), Vice-Président UTICA, Poulina Group Holding (PGH), SKF Tunisia & Leoni Tunisia			
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Deviation of working or time schedule and technical corrective action	No significant deviation to describe
Past or expected bottlenecks	
Working plan for the next 6 months	Achieved
Additional comments and suggestions	

WP n./Title	WP3 - Design and development of a Master in the Next Production Revolution
WP Leader	POLITO
Author(s)	Pierluigi Leone
Reporting Period	15/11/2019 – 15/08/2020

	Title of Tasks	Short description of activity delivered ³	End of task [dd/mm/yyyy] (as indicated in the activity Plan)	Status (delivered, ongoing, planned, cancelled, readdress)
Current Status	Task 3.1: Definition of a Master in the Next Production Revolution	<p>Based on activities done in WP1, WP2, WP4 and WP5, a Master in the Next Production Revolution has been designed at the Université de Tunis El Manar - Ecole Nationale d'Ingénieurs de Tunis.</p> <p>The Master in NPR is organized in four semesters. A total number of 15 <i>Unité d'enseignement</i> (UE) plus the Master Thesis have been designed. The <i>Unité d'enseignement</i> includes specific <i>Elément constitutif d'UE (ECUE)</i> that are 40 in total. The total number of credits is 120.</p>	15/05/2020	Achieved

³ Please include a description of the activities really performed, avoiding to cut and paste what reported in the proposal.

		<p>New and updated courses has been designed for the other partner Universities including 33 courses in focal areas of 16 « Industry 4.0 », 8 in «Renewable Energy », and 9 in « Management of innovation & entrepreneurship ».</p>		
<p>Current Status</p>	<p>Task 3.2: Accreditation of the Master in the Next Production Revolution</p>	<p>The Master foreseen in the NePRev project – classified as ‘Mastère de Recherche’, has been submitted to the Ministère de l'Enseignement Supérieur et de la Recherche Scientifique de la Tunisie for Accreditation on March 15, 2021. The title of the Master is ‘Next Production Revolution’. The master foresees a total number of 20 students per year that could be increased at 25 students. The Master has been accredited on June 2021 and start in academic year 2021/2022. New and updated courses have been approved at partners universities and will start on academic year 2021/2022 as well.</p> <p>In the framework of the Master application, the description of the new Lab with equipment purchased in the framework of the project has been provided; furthermore, links with industrial stakeholders (Majesteye, Logidas, Flat6Lab) and international organizations (Projects partners including Politecnico di Torino, Politecnico di Milano, Centrale Supelec, Obreal) is reported. It is also reported the application of ENIT as member in the association T.I.M.E. (Top International Managers in Engineering) which is an associated partner of the project.</p>	<p>15/08/2020</p>	<p>Achieved</p>

	Title of Deliverables	Specific and measurable indicators as indicated in the LFM	Specific and measurable indicators really produced	Delivery Date [dd/mm/yyyy] (as indicated 1.4)	Real Delivery Date [dd/mm/yyyy]	Status (achieved, partially achieved, not yet achieved)
Current Status	Del 3.1: Definition of a Master in the Next Production Revolution	<p>Type: Report</p> <ul style="list-style-type: none"> List of new courses. Definition of the Master in NPR and new/updated courses (1 Master and >25 new and updated courses) Blended learning in courses (>80%) 	<p>The deliverable has been splitted into Part I and Part II.</p> <p>Part I includes the full Master in NPR designed and submitted for approval by ENIT. A Master in the Next Production Revolution has been designed at ENIT. The Master in NPR is organized in four semesters. A total number of 15 Unité d'enseignement (UE) plus the Master Thesis has been designed. The Unité d'enseignement includes specific Elément constitutif</p>	15-05-2020	14-05-2021	<p>Part I – Achieved</p> <p>Part II - Achieved</p>

			<p>d'UE (ECUE) that are 40 in total. The total number of credits is 120. 12 out of 15 courses of Master include blending learning pedagogical methods.</p> <p>Part II includes updated courses designed and submitted for approval by ENIGA, ISGIS, FSJEGJ.</p>			
Current Status	Del 3.2 Accreditation of a Master in the Next Production Revolution and new courses	<p>Type: Service/Product</p> <p>Type: Report</p> <ul style="list-style-type: none"> • Accreditation of the Master and new course 	<p>The Master in NPR has been submitted for accreditation. It was approved on June 2021.</p> <p>Single new courses are designed and internally approved.</p> <p>The Master and courses will start on Academic year 2021/2022.</p>	15-08-2020	14-05-2021	Achieved



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Deviation of working or time schedule and technical corrective action	With respect to the project proposal, the accreditation has been delayed due to specific window of applications from the Tunisian Government. Delay was also in the preparation of single updated courses. In this case, a higher effort in the first project phase has been devoted to administrative issues for equipment purchase, etc...
Past or expected bottlenecks	
Working plan for the next 6 months	
Additional comments and suggestions	

WP n./Title	WP4 - Design and development of a teaching lab in NPR
WP Leader	OBREAL
Author(s)	Pierluigi Leone
Reporting Period	15/11/2019 – 15/08/2020

	Title of Tasks	Short description of activity delivered ⁴	End of task [dd/mm/yyyy] (as indicated in the activity Plan)	Status (delivered, ongoing, planned, cancelled, readdress)
Current Status	Task 4.1: Design of a teaching lab in NPR	The activity has involved a deep analysis of lab equipment for the Master and new courses developed within NePReV project. The analysis has been complex since project partners belong to different scientific background areas and NPR is a new topic at international levels with small companies that are able to supply proper equipment. With respect to the initial plan of equipment, in terms of typologies, the final choice has been fully in line. All partners have launched and closed the tenders. The purchase procedure needs to be concluded.	15/05/2020	Achieved

⁴ Please include a description of the activities really performed, avoiding to cut and paste what reported in the proposal.

Current Status	Task 4.2: Building and start-up of the teaching lab	Tenders have been launched and closed from all Tunisian partners. The purchase procedure needs to be concluded and then the installation activity will be started.	15/08/2020	Planned
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	Title of Deliverables	Specific and measurable indicators as indicated in the LFM	Specific and measurable indicators really produced	Delivery Date [dd/mm/yyyy] (as indicated 1.4)	Real Delivery Date [dd/mm/yyyy]	Status (achieved, partially achieved, not yet achieved)
Current Status	Del 4.1: Design and purchasing of a teaching lab in NPR	Type: Service/Product Type: Report <ul style="list-style-type: none"> List of equipment 	The deliverable includes the list of equipment already included in the bids.	15-05-2020	15-05-2020	Achieved
Current Status	Del 4.2 Installation, test and start-up of a teaching lab in NPR	Type: Service/Product Type: Report <ul style="list-style-type: none"> New lab facilities. New Labs (>8 including both NPR and IT Labs)) 	To be done	15-08-2020		Not yet achieved

Deviation of working or time schedule and technical corrective action	The planning of equipment purchase has been aligned with Master and course design. In addition, COVID 19 pandemia has delayed some activities especially at administrative level for preparing tenders.
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Past or expected bottlenecks	
Working plan for the next 6 months	Finalize the purchase of equipment, install and start-up.
Additional comments and suggestions	

WP n./Title	WP5 - Staff training about key courses and lab equipment
WP Leader	PoliMI
Author(s)	Pierluigi Leone
Reporting Period	15/05/2020 – 15/11/2022

	Title of Tasks	Short description of activity delivered ⁵	End of task [dd/mm/yyyy] (as indicated in the activity Plan)	Status (delivered, ongoing, planned, cancelled, readdress)
Current Status	Task 5.1: Organization of a program of training for teachers and staff	The project includes two training programs. A first training was organized and designed to be delivered in Autumn 2020. Originally the training program was intended to take place in Milan during one week of an intensive “in-presence” session; however, in light of the coronavirus outbreak it was decided to adopt a remote training modality to minimize the impact of delays and to help prevent the spread of the virus. The specific format to be adopted for the training program involves synchronous webinars delivered online by appointed trainers. Despite the circumstances that motivated the format change, the new format brings unanticipated benefits including flexibility for both trainers and trainees in terms of	15/09/2020	Ongoing

⁵ Please include a description of the activities really performed, avoiding to cut and paste what reported in the proposal.

		<p>location and time, as well as the possibility to reach a larger audience and to count with the presence of a wider array of trainers. The list of training modules to be included in the program was drafted primarily taking into consideration the contents of WP1, WP2 and especially WP3, which reflects the main educational needs of the Tunisian consortium partners, including the Master Degree to be activated at ENIT as well as the series of single courses planned to be offered during the next years at ENIGA, ISGIS and FSJEGJ. Additionally, a number of modules were dedicated to sharing the European partners' perspectives on the development of innovation ecosystem models based on partnerships between universities and the private sector. Considering this variety of topics, the training modules can be grouped into three main categories:</p> <ol style="list-style-type: none"> 1) Curriculum Development modules, which aim to support directly the preparation of activities and materials for teaching and research; 2) General Contents modules, which provide general contents related to the three main disciplines to be used as reference material; and 3) Ecosystem Building modules, which relay the experiences from the European partners in building innovation ecosystems. 4) As a complement to these modules, a number of massive online open courses (MOOCs) is also made available to the trainees that wish to enroll and take part. With this structure, the training program is able to address the requirements expressed by the Tunisian consortium partners. 		
Current Status	Task 5.2: Delivery of a training session	The first training program was scheduled to take place between October 12th and November 25th, during which the following 24 modules were addressed:	15/09/2020	Ongoing

		14 for Curriculum Development, 3 for General Contents, and 7 for Ecosystem Building. A total of 13 MOOCs were also offered to participants willing to enroll and benefit from the contents.		
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	Title of Deliverables	Specific and measurable indicators as indicated in the LFM	Specific and measurable indicators really produced	Delivery Date [dd/mm/yyyy] (as indicated 1.4)	Real Delivery Date [dd/mm/yyyy]	Status (achieved, partially achieved, not yet achieved)
Current Status	Del 5.1: Organization of a program of training for teachers and staff	Type: Report <ul style="list-style-type: none"> List of trainers, trainees, courses, logistics 	The first training program was scheduled to take place between October 12th and November 25th, during which the following 24 modules were addressed: 14 for Curriculum Development, 3 for General Contents, and 7 for Ecosystem Building. A total of 13 MOOCs were also offered to participants willing to enroll and benefit from the contents. The trainers in charge of the modules were selected among faculty staff and industrial practitioners. The criteria for trainer	15-06-2020	30-01-2021	Achieved

			<p>selection are based on their knowledge and experience related to the three main disciplines related to the project as evidenced by their activities, publications, position, etc. A total of 19 trainers joined the training program. The trainees to benefit from the training program were selected according to their interest and motivation. Given the change of delivery format, a wider group of participants was sought by distributing a survey to gauge interest in the training program.</p>			
Current Status	Del 5.2 Delivery of the training	<p>Type: Report</p> <p>Type: Event</p> <ul style="list-style-type: none"> • Numbers of people involved • Quality assessment of the training 	<p>Originally, the training program was meant to have an audience of 20 trainees, 5 from each Tunisian Partner Institution (ENIGA, ENIT, FSJEGJ, ISGIS). The change in modality from presential to remote has allowed for the</p>	15-09-2020	30-01-2021	Achieved



			<p>possibility of reaching a wider group of participants beyond the constraints imposed, albeit unintentionally, by a series of selection criteria. An initial survey was shared with the key staff from each of the five Tunisian consortium partners involved in the project in order to gauge interest in the training program and individual proposed training modules. The survey reached a total of 155 respondents who showed interest in the program. A total of 68 trainees participated in the training program, out of which 26 had accumulated the minimum number of attendance marks required for the awarding of certificates of attendance. By the end of the training program it was possible to obtain feedback about the</p>			
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			planning and delivery by reaching out to trainers and by circulating a survey among trainees. A number of trainers denoted their desire for a more active participation among the trainees during the training sessions. In contrast, the trainees offered a series of improvement suggestions which seemed to indicate that they might not have been engaged to the degree the trainers desired due to having had a traditional face-to-face approach with only one-way communication.			
Current Status	Del 5.3 Organization of a program of training for teachers and staff	Type: Report <ul style="list-style-type: none"> List of trainers, trainees, courses, logistics 		15-06-2021		Planned
Current Status	Del 5.4 Delivery of the training session	Type: Report Type: Event <ul style="list-style-type: none"> Numbers of people involved 		15-09-2021		Planned

		<ul style="list-style-type: none"> Quality assessment of the training 				
Current Status	Del 5.4 Lessons learned from the training	Type: Report <ul style="list-style-type: none"> Quality assessment of the trainings 		15-11-2022		Planned

Deviation of working or time schedule and technical corrective action	Activities are set on schedule
Past or expected bottlenecks	
Working plan for the next 6 months	A next training session will be designed in the next months with the best arrangement for the Project considering the COVID-19 pandemia.
Additional comments and suggestions	

WP n./Title	WP6 - Actuation of the Master in NPR
WP Leader	ENIT
Author(s)	Pierluigi Leone
Reporting Period	15/11/2020 – 15/11/2022

	Title of Tasks	Short description of activity delivered ⁶	End of task [dd/mm/yyyy] (as indicated in the activity Plan)	Status (delivered, ongoing, planned, cancelled, readdress)
Current Status	Task 6.1: Actuation of the Master in NPR	This activity will start in September 2021	15/11/2022	planned
Current Status	Task 6.2: Monitoring of the Master in NPR	This activity will start in September 2021	15/11/2022	planned
Current Status	Task 6.3: Joint master and internationalization	This activity will start in September 2021	15/11/2022	planned

⁶ Please include a description of the activities really performed, avoiding to cut and paste what reported in the proposal.

	Title of Deliverables	Specific and measurable indicators as indicated in the LFM	Specific and measurable indicators really produced	Delivery Date [dd/mm/yyyy] (as indicated 1.4)	Real Delivery Date [dd/mm/yyyy]	Status (achieved, partially achieved, not yet achieved)
Current Status	Del 6.1: Start on the Master in NPR	Type: Report Type: Service/product <ul style="list-style-type: none"> Presentation of the Master 		15-11-2020		Not yet achieved
Current Status	Del 6.2: Monitoring of the Master in NPR	Type: Report <ul style="list-style-type: none"> Quality assessment of different courses Quality assessment of students from industrial companies (where students do their training) Students enrolled in the master and new/updated courses (>120) Traineeship/MSc Thesis in cooperation with Industries (>30%) 		15-11-2022		Not yet achieved
Current Status	Del 6.3: Internationalization of the Master in NPR and Joint Master Agreement	Type: Service/product <ul style="list-style-type: none"> Number of MoUs 		15-11-2022		Not yet achieved



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Deviation of working or time schedule and technical corrective action	
Past or expected bottlenecks	
Working plan for the next 6 months	
Additional comments and suggestions	

WP n./Title	WP7 – Project Quality and Evaluation
WP Leader	FSJEGJ
Author(s)	Pierluigi Leone
Reporting Period	15/11/2019 – 15/11/2022

	Title of Tasks	Short description of activity delivered ⁷	End of task [dd/mm/yyyy] (as indicated in the activity Plan)	Status (delivered, ongoing, planned, cancelled, readdress)
Current Status	Task 7.1: Setting of the quality evaluation process	The quality plan has been set including the different methods that will be deployed to check the status of the project. The external quality evaluator has been appointed.	15/02/2020	Achieved
Current Status	Task 7.2: Quality evaluation	Surveys have been done for the training and meetings.	15/11/2022	Ongoing

⁷ Please include a description of the activities really performed, avoiding to cut and paste what reported in the proposal.

	Title of Deliverables	Specific and measurable indicators as indicated in the LFM	Specific and measurable indicators really produced	Delivery Date [dd/mm/yyyy] (as indicated 1.4)	Real Delivery Date [dd/mm/yyyy]	Status (achieved, partially achieved, not yet achieved)
Current Status	Del 7.1: Quality and Evaluation Plan	Type: Report	The work illustrates the main methods used for quality checks.	15-02-2020	08-04-2020	Achieved
Current Status	Del 7.2: Mid-Term evaluation report	Type: Report <ul style="list-style-type: none"> Positive opinion about the training session (>80%) 	Survey for training revealed a positive impact of the training as shown in deliverable D5.2	15-05-2021	15-05-2021	Achieved
Current Status	Del 7.3: Final evaluation report	Type: Report <ul style="list-style-type: none"> Positive opinion about the training session (>80%) 		15-11-2022		

Deviation of working or time schedule and technical corrective action	The activity has been delayed especially the appointment of the external quality expert due to major administrative measures that was necessary to undertake. As an example, PoliTO had to anticipate money for the enrolment of the external quality expert and this took some delay.
Past or expected bottlenecks	
Working plan for the next 6 months	



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Additional comments and
suggestions

WP n./Title	WP8 - Dissemination and exploitation
WP Leader	CS
Author(s)	Pierluigi Leone
Reporting Period	15/11/2019 – 15/11/2022

	Title of Tasks	Short description of activity delivered ⁸	End of task [dd/mm/yyyy] (as indicated in the activity Plan)	Status (delivered, ongoing, planned, cancelled, readdress)
Current Status	Task 8.1: Drawing up of Dissemination & Exploitation strategy	The Dissemination and Exploitation has been prepared by identifying targets, tools and phases. In particular, website and social media will be used as tool to involve stakeholders along the whole project duration. Conferences and workshops have been identified in order to carry out specific actions to selected targets. Some measurable impacts have been identified including analytics of social media, followers and number of posts.	15/02/2020	Achieved
Current Status	Task 8.2: Implementing a multimedia dissemination strategy	A logo of the project has been designed with selection of best suited colors, used font, etc... A website has been designed including: Mission (the goals of the NePReV project), Partners and Stakeholders involved, People (list of	15/11/2022	Ongoing

⁸ Please include a description of the activities really performed, avoiding to cut and paste what reported in the proposal.

		<p>people involved in the project), News and Events (International Forum for Next Production Revolution in Sfax is published), Subscription form.</p> <p>Three social media have been activated: Facebook page https://www.facebook.com/neprev, Twitter https://twitter.com/neprev, LinkedIn group https://www.linkedin.com/groups/13872167/.</p> <p>The video promo will be designed in next weeks to include the contents of the designed master.</p>		
Current Status	Task 8.3: Papers and conferences	<p>The project was presented during an open session during the KoM at Enit on February 19th and the Stakeholder forum in Sfax on February 20th, 2020. (D2.1 & D2.2).</p> <p>PoliTO has published a paper entitled “Solar Hydrogen from North Africa to Europe through Greenstream: a simulation-based analysis of blending scenarios and production plant sizing” in International Journal of Hydrogen Energy with the following acknowledgment “This work has no specific funding support, however the Authors wish to thank the European Commission and the European Education and Culture Executive Agency for funding the Erasmus + project Enbrain – Building capacity in Renewable and Sustainable Energy in Libya (586221-EPP-1_2017_1_IT-EPPKA2-CBHE-JP) and the Erasmus + project Neprev - Setting up a multidisciplinary joint master degree dedicated to the Next Production Revolution in Tunisia (609702-EPP-</p>	15/11/2022	Ongoing

		<p>1-2019-1-IT-EPPKA2-CBHE-JP). These two projects have certainly strengthen the idea of the Authors about a fruitful cooperation between Europe and North African countries about renewable and sustainable energy”.</p> <p>PoliMI has participated to the 7th International Conference on Higher Education Advances (HEAd’21), Title: "An inclusive overview of Learning Factories around the globe" and 11th Conference on Learning Factories (CLF 2021), Title: "Development of a pilot introductory course to Smart Maintenance based on open source software using Google Colab".</p> <p>Enit has participated to the SMART Tunisia Fair, Presentation of the NePREv project, February 20 th, 2020</p>		
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	Title of Deliverables	Specific and measurable indicators as indicated in the LFM	Specific and measurable indicators really produced	Delivery Date [dd/mm/yyyy] (as indicated 1.4)	Real Delivery Date [dd/mm/yyyy]	Status (achieved, partially achieved, not yet achieved)
Current Status	Del 8.1: Dissemination and Exploitation Plan	Type: Report	8 conferences identified in the first year of the project. Social media identified and website released.	15-02-2020	30-06-2020	Achieved
Current Status	Del 8.2: Project website and social networks	Type: Service/Product <ul style="list-style-type: none"> • Social Media accounts • Numbers of social media posts • Posts analytics 	Project website has been created as well as social media accounts: Website	15-05-2020	30-09-2020	Achieved

		<ul style="list-style-type: none"> Access to website 	www.neprev.com Facebook page https://www.facebook.com/neprev Twitter https://twitter.com/neprev LinkedIn group https://www.linkedin.com/groups/13872167/			
Current Status	Del 8.3: Video promo	Type: Service/Product <ul style="list-style-type: none"> Views of video promo 	The video promo needs to be designed.	15-11-2020		Ongoing
Current Status	Del 8.4: Papers and conferences	Type: Report Type: Service/Product <ul style="list-style-type: none"> Number of papers and conferences 		15-11-2022		Ongoing

Deviation of working or time schedule and technical corrective action	
Past or expected bottlenecks	



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Working plan for the next 6 months	
Additional comments and suggestions	

WP n./Title	WP9 - Operative and financial management of the project
WP Leader	POLITO
Author(s)	Pierluigi Leone
Reporting Period	15/11/2019 – 15/11/2022

	Title of Tasks	Short description of activity delivered ⁹	End of task [dd/mm/yyyy] (as indicated in the activity Plan)	Status (delivered, ongoing, planned, cancelled, readdress)
Current Status	Task 9.1: Operative and financial management	<p>The grant agreement has been signed and all partners received a copy on Jan 20th, 2020. The final rules of the project has been first explained during a virtual meeting hel on Dec.5th 2019 and then during the kick-off meeting held on February 18th, 2020. The February 18th, 2020 at the National Engineering School of Tunis (ENIT). The NEO of Tunisia was present.</p> <p>The partnership agreement is a multi-lateral document that was signed by the latest partner on May 14th, 2020. So fa, a meeting in presence has been organized in Tunis (KoM) before the Covid pandemia. All the other meetings has been organized as virtual meeting as detailed above.</p>	15/11/2022	Ongoing

⁹ Please include a description of the activities really performed, avoiding to cut and paste what reported in the proposal.

Current Status	Task 9.2: Performing of plenary and virtual meetings	<ul style="list-style-type: none"> December 5th, 2019 - Virtual Meeting, D9.7 - Plenary February 18th, 2020 - KOM In presence in Tunis, D9.1 - Plenary February 19th, 2020 - Stakeholder forum In presence in Sfax May 26th, 2020 with Enit and Politecnico di Milano. Virtual Meeting July 6th, 2020 - Virtual Meeting. D9.8 – Plenary September 18th, 2020 - First mid-term meeting in Milan, D9.2 January 15th and April 8th, 2021, Third virtual meeting (with Tunisian Partners and Plenary), D9.9 	15/11/2022	Ongoing
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	Title of Deliverables	Specific and measurable indicators as indicated in the LFM	Specific and measurable indicators really produced	Delivery Date [dd/mm/yyyy] (as indicated 1.4)	Real Delivery Date [dd/mm/yyyy]	Status (achieved, partially achieved, not yet achieved)
Current Status	Del 9.1: Kick off meeting	Type: Event Type: Report	The kick of meeting was performed on February 18th, 2020 at ENIT in Tunis.	15/02/2020	18/02/2020	Achieved
Current Status	Del 9.2: First mid-term meeting in Milan	Type: Event Type: Report	The First mid-term meeting in Milan was organized as a virtual meeting on September 18 th , 2020	15/09/2020	28/09/2020	Achieved
Current Status	Del 9.3: Second mid-term meeting in Paris	Type: Event Type: Report	The Second mid-term meeting in Paris was organized as a virtual meeting on May 21 th , 2020	15/02/2021	21/05/2021	Achieved

Current Status	Del 9.4: Third mid-term meeting in Turin	Type: Event Type: Report		15/09/2021		
Current Status	Del 9.5: Forth mid-term meeting in Jendouba	Type: Event Type: Report		15/02/2022		
Current Status	Del 9.6: Final meeting in Tunis	Type: Event Type: Report		15/11/2022		
Current Status	Del 9.7: Virtual Meeting	Type: Event Type: Report	First virtual meeting on December 5th, 2019	15.03.2020	05.12.2019	Achieved
Current Status	Del 9.8: Virtual Meeting	Type: Event Type: Report	Second virtual meeting on July 6th, 2020	15.07.2020	06.07.2020	Achieved
Current Status	Del 9.9: Virtual Meeting	Type: Event Type: Report	Third virtual meeting on January 15 th and April 8th, 2021	15.03.2021	08.04.2021	Achieved
Current Status	Del 9.10: Virtual Meeting	Type: Event Type: Report		15.07.2021		

Current Status	Del 9.11: Virtual Meeting	Type: Event Type: Report		15.03.2022		
Current Status	Del 9.12: Virtual Meeting	Type: Event Type: Report		15.07.2022		
Current Status	Del 9.13: Project Management Handbook	Type: Report	Report bringing guidelines for project management	15.02.2020	15.02.2020	Achieved
Current Status	Del 9.14: Progress of Work Packages	Type: Report <ul style="list-style-type: none"> • Number of meetings • Attendees to the meeting • Budget and timing of activities 	This deliverable	15.11.2020	15.11.2020	Achieved
Current Status	Del 9.15: Progress of Work Packages	Type: Report <ul style="list-style-type: none"> • Number of meetings • Attendees to the meeting • Budget and timing of activities 		15.11.2021		
Current Status	Del 9.16: Progress of Work Packages	Type: Report <ul style="list-style-type: none"> • Number of meetings • Attendees to the meeting • Budget and timing of activities 		15.11.2022		



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		<ul style="list-style-type: none"> • Research projects about the NPR (>2) • MoU (>5) • Industrial projects/prototypes (>3) • Patents (>2) • New start-ups (>2) 				
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Deviation of working or time schedule and technical corrective action	
Past or expected bottlenecks	
Working plan for the next 6 months	
Additional comments and suggestions	