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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

<p>WP/Task/Deliverable: WP9/T9.1/D9.14</p> <p>Planned Date: 15/11/2020 Due Date: 15/11/2020</p> <p>Nr. pages: 33 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	Final	POLITO		31/12/2020



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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 first year activities by highlighting all the tangible outputs of the project.

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Scientific Monitoring

MONITORING PLAN

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 and single courses related to NPR. Given the broad meaning of NPR, only those courses really showing an innovative perspective have been collected and mentioned.	15/02/2020	Concluded

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

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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). 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.	15/02/2020	Concluded		
	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.	15/02/2020	Expected 31/10/2020	In review
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 60% of courses with learning by doing activities.	15/02/2020	Expected 31/10/2020	In review

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<p>Deviation of working or time schedule and technical corrective action</p>	<p>Some delay to tuning methodology for analysis.</p>
<p>Past or expected bottlenecks</p>	
<p>Working plan for the next 6 months</p>	<p>Review of collected data.</p>
<p>Additional comments and suggestions</p>	

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WP n./Title	WP2 - Assessment of skills and competences requirements
WP Leader	ISGI
Author(s)	Pierluigi Leone
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 in Sfax on February 19th, 2020 with the participation of about 250 people between professors (30), industrials (20), researchers (20), students (160) and NePREv members (20). Important industry 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
Current Status	Task 2.2: Preparation of the Strategic Education Agenda	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.	15/02/2020	Delivered

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	<p>All the feedback collected were used to design the Master in NPR as foreseen by the NePreV project. Stakeholders have been contacted to host students' traineeship and final thesis.</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 2.1: Strategy Forum Workshop	<p>Type: Event</p> <ul style="list-style-type: none"> Organization of the Strategy Forum Workshop. 	<p>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).</p>	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 	<p>High level feedback from Tunisian stakeholder about the challenges and opportunities of NPR for Tunisian and required skills for new job. Feedback came from Festo Tunisia, SAMM Test & Automation, Career center at ISGIS, ENIT &</p>	15/02/2020	22/06/2020	Achieved

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			<p>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</p>			
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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	

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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	Based on activities done in WP1, WP2, WP4 and WP5, a Master in the Next Production Revolution is going to be designed at the Université de Tunis El Manar - Ecole Nationale d'Ingénieurs de Tunis (ENIT). New and updated courses will be also designed for the other partner Universities.	15/05/2020	Ongoing
Current Status	Task 3.2: Accreditation of the Master in the Next Production Revolution	Accreditation procedures are under assessment and organization is ongoing to submit required documents	15/08/2020	Ongoing

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

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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 3.1: Definition of a Master in the Next Production Revolution	Type: Report <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%) 	Ongoing	15-05-2020	Expected 31/12/2020	Not yet achieved
Current Status	Del 3.2 Accreditation of a Master in the Next Production Revolution and new courses	Type: Service/Product Type: Report <ul style="list-style-type: none"> Accreditation of the Master and new course 	Ongoing	15-08-2020	Expected 31/12/2020	Not yet achieved

Deviation of working or time schedule and technical corrective action	<p>With respect to the project proposal, the accreditation has been delayed due to the specific window for applications set by the Tunisian Government. Master definition and new courses will be finalized after training session.</p> <p>Delay was also in the preparation of new & updated courses. In this case, a higher effort in the first project phase has been devoted to administrative issues for equipment purchase, management, etc...</p>
Past or expected bottlenecks	

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<p>Working plan for the next 6 months</p>	<p>Finalization of courses definition and application for accreditation.</p>
<p>Additional comments and suggestions</p>	

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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 involves a first screening of possible suppliers for equipment and choice of suitable typologies to match budget constraint and educational goals.	15/05/2020	Ongoing
Current Status	Task 4.2: Building and start-up of the teaching lab	Early analysis of tendering schemes.	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 	Not reached	15-05-2020	Planned 30/03/2021	not yet 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)) 	Not reached	15-08-2020	Planned 15/08/2021	not yet achieved

Deviation of working or time schedule and technical corrective action	Some delay was accumulated due to several causes. The planning of equipment purchase is aligned with Master and course design, however, COVID 19 pandemia has delayed some activities especially at administrative level for preparing tenders.
Past or expected bottlenecks	
Working plan for the next 6 months	Finalize lab design and launching of tenders.
Additional comments and suggestions	

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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	A first training is under delivery phase. 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 necessary to adopt a remote training modality. 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 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	15/09/2020	Achieved

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		<p>the Tunisian consortium partners, including the Master Degree to be activated at ENIT as well as the series of single courses offered 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, institutions, and the private sector.</p>		
<p>Current Status</p>	<p>Task 5.2: Delivery of a training session</p>	<p>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 enrol and benefit from the contents.</p>	<p>15/09/2020</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)
<p>Current Status</p>	<p>Del 5.1: Organization of a program of training for teachers and staff</p>	<p>Type: Report</p> <ul style="list-style-type: none"> List of trainers, trainees, courses, logistics 	<p>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</p>	<p>15-06-2020</p>	<p>Expected 31/12/2020</p>	<p>not yet achieved</p>



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			<p>total of 13 MOOCs were also offered to participants willing to enrol and benefit from the contents. The trainers in charge of the modules were selected among faculty staff and industrial practitioners.</p> <p>The criteria for trainer 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 – with respect to the number initially considered in the proposal time - was sought by distributing a survey to gauge interest in the training program.</p>			
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<p>Current Status</p>	<p>Del 5.2 Delivery of the training</p>	<p>Type: Report 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 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 four 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</p>	<p>15-09-2020</p>	<p>Expected 31/12/2020</p>	<p>not yet achieved</p>
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			<p>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 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.</p>			
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		

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Current Status	Del 5.4 Delivery of the training session	Type: Report Type: Event <ul style="list-style-type: none"> • Numbers of people involved • Quality assessment of the training 		15-09-2021		
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		

Deviation of working or time schedule and technical corrective action	The initial training had to be planned in Milan on 15/06/2020. However, due to COVID 19 and delay in master preparation, the training was delayed in autumn 2020. The activity was well recovered and successfully delivered.
Past or expected bottlenecks	
Working plan for the next 6 months	Finalization of deliverables of the first training
Additional comments and suggestions	

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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		15/11/2022	
Current Status	Task 6.2: Monitoring of the Master in NPR		15/11/2022	
Current Status	Task 6.3: Joint master and internationalization		15/11/2022	

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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 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		
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		
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		

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

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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 appointment of external quality expert in under discussion.	15/02/2020	delivered
Current Status	Task 7.2: Quality evaluation	Surveys have been done for the training and meetings.	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 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%) 		15-05-2021		
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	
Past or expected bottlenecks	
Working plan for the next 6 months	Appointment of the external quality expert and running of quality monitoring
Additional comments and suggestions	

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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 colours, used font, etc... A website has been designed including: Mission (the goals of the NePREv project), Partners and Stakeholders involved, People (list of people involved in the project), News and Events (International Forum for Next Production Revolution in Sfax is published), Subscription form.	15/11/2022	ongoing

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Current Status	Task 8.3: Papers and conferences	<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 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>	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 8.1: Dissemination and Exploitation Plan	Type: Report	8 conferences identified in the first year of the project. Social media identified and website preparation.	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 • Access to website 	Project website has been created as well as social media accounts: Website: www.neprev.com Facebook page: https://www.facebook.com/neprev Twitter https://twitter.com/neprev	15-05-2020	30/09/2020	achieved

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			<p>LinkedIn group: https://www.linkedin.com/groups/13872167/</p>			
Current Status	Del 8.3: Video promo	Type: Service/Product <ul style="list-style-type: none"> Views of video promo 		15-11-2020		Not yet achieved
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		

Deviation of working or time schedule and technical corrective action	It has been decided, as a more effective strategy, to prepare videos upon starting the master, having equipment and first enrolled students to have more tailored materials used for different stakeholders with special focus for students orientation.
Past or expected bottlenecks	
Working plan for the next 6 months	
Additional comments and suggestions	



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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 have been first explained during a virtual meeting held 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.</p> <p>All the project activities were managed regularly with a good interaction and collaboration among the partners. A shared folder was created to facilitate interactions.</p>	15/11/2022	ongoing
Current Status	Task 9.2: Performing of plenary and virtual meetings	<p>Due to COVID outbreak, some meetings were performed remotely or the delivery in presence was postponed to the mitigation travel and quarantine restrictions. Below the list of presence (bolded) and remote (<i>italic</i>) project meetings:</p> <ul style="list-style-type: none"> <i>December 5th, 2019 - Virtual Meeting, D9.7 - Plenary</i> February 18th, 2020 - KOM In presence in Tunis, D9.1 - Plenary 	15/11/2022	ongoing

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



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		<ul style="list-style-type: none"> • <i>May 26th, 2020 Virtual meeting with Enit and Politecnico di Milano.</i> • <i>July 6th, 2020 - Virtual Meeting. D9.8 – Plenary</i> • <i>September 18th, 2020 - Virtual meeting in Milan. D9.9</i> 		
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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		15/09/2020		
Current Status	Del 9.3: Second mid-term meeting in Paris	Type: Event Type: Report		15/02/2021		



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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	Virtual meeting on December 5th, 2019	15.03.2020	05/12/2019	achieved
Current Status	Del 9.8: Virtual Meeting	Type: Event Type: Report	Virtual meeting on July 6th, 2020	15.07.2020	06/07/2020	achieved
Current Status	Del 9.9: Virtual Meeting	Type: Event Type: Report	Virtual meeting organized on September 8th, 2020	15.03.2021	08/09/2020	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	15/02/2022	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 	Report summarizing first year activities.	15.11.2020	31.12.2020	achieved



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		<ul style="list-style-type: none"> Budget and timing of activities 				
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 Research projects about the NPR (>2) MoU (>5) Industrial projects/prototypes (>3) Patents (>2) New start-ups (>2) 		15.11.2022		

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	