



Work Package Monthly Report

Title and reference number of the work package (WP)	WP1 Gap Analysis	
WPL: CMU	Reporting period: October 1st - 31st 2018	Completion date: October 31st 2018

Activities carried out since last report to date:

Task No*	Task Description	Start date	Due date	Place/ Partners involved	Description of the activity carried out	Specific and measurable indicators of achievement	Implementing status (done, partially-? [%])
Task 1.1	Developing a gap analysis working plan			CMU	Finishing and revising the working plan including the list with company, organization, student association and stakeholder for the survey. Reviewing the curricula in Thailand and EU partners' countries and set execution plan for the Gap Analysis activities.	Update the plan revised after the 2 nd meeting at Portugal. list of WP1 working group	97%
Task 1.2	Analysing of MSIE curricula being offered, and of learning and teaching methods being applied	14 th /03/2018	15 th /06/2018	Uminho, and CMU with all partners involved	A comprehensive analysis of MSIE curricula being offered currently in Thailand and EU partners' countries including SWOT analyse to identify the strengths and weaknesses in Thai and EU universities, the	An updated report on the comprehensive analysis of MSIE curricula being offered currently in Thailand and EU partners' countries was added to UMinho.	95%



					common points, also the differences.		
Sub Task 1.2.1	Reviewing MSIE curricula being offered currently in Thailand	14 th /03/2018	15 th /06/2018	Uminho, and CMU with all partners involved	Reviewing the summarized course structure from all 17 IE curricula using the statistics and data analysis to draw relevance to smart or sustainable concept.	Continue summarizing the course structure from all 17 IE curricula with respect to structure provided by UMinho. This is an ongoing process.	95%
Sub Task 1.2.2	Reviewing teaching and learning methods being applied currently in Thailand	15 th /03/2018	15 th /06/2018	Uminho, and CMU with all partners involved	Coordinating with Uminho to devise a tabulated blank form of the curriculum and learning objective for each class of each curriculum were sent to all partners to collect the current teaching methods.	Continue summarizing the teaching and learning methods being applied by IE curricula in Thailand with respect to structure provided by UMinho. This is an ongoing process.	95%
Sub Task 1.2.3	Reviewing MSIE curricula being offered currently in partners' countries	16 th /03/2018	15 th /06/2018	Uminho, and CMU with all partners involved	Reviewing the course structure for partner country and summarize and review teaching and learning methods being applied currently in Thailand	Continue summarizing the teaching and learning methods being applied by IE curricula in Thailand with respect to structure provided by UMinho. This is an ongoing process.	95%
Task 1.3	Assessing needs of industry and students	15 th /05/2018	15 th /09/2018	Uminho, and CMU with all partners involved	Develop the Assessment criteria and methods for the industry needs with respect to the IoT4.0	The Questionnaire of Industry assessment has been completed Part 1 :Assessment of Strategy Part 2 : Assessment of Adoption	90%
Sub Task 1.3.1	Preparing a survey form for	15 th /05/2018	15 th /09/2018	CMU, UMinho,	Develop the final revision of the questionnaire to assess the	The final version questionnaire are completed	100%



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	identifying the needs of industry			and all partners involved	industry needs with respect to the IoT4.0		
Sub Task 1.3.2	Preparing a survey form for the needs of prospective students	15 th /05/2018	15 th /09/2018	CMU, UMinho, and all partners involved	Prepare the 1 st draft of questionnaire to assess the student needs on IoT course and experiences	the 1 st draft of questionnaire to assess the student needs on IoT course and experiences	100%
Sub Task 1.3.3	Conduct survey form for the needs of Industry	15 th /05/2018	15 th /09/2018	CMU, UMinho, and all partners involved	Visit companies to derive the current level of Industry4.o level and summarize the need	<p>72 completed questionnaire of the assessment from industry</p> <p>Analysis of 1st report based on total 72 companies in Thailand+EU prepared by CMU on Task 1.3. This overall analysis of Industry assessment from 72 company (50 Thai + 22 EU) has contents and sumaary based on</p> <ul style="list-style-type: none"> - overall analysis - by sector analysis (Automotive, Electronics, Manufacturing) <p>The analysis was prepared and reported according to each question. This will be useful for all partner who are helping analyze the industry needs. We prepared the reports similar to</p>	90%



						what we have presented during the 2nd meeting at Portugal. This file was uploded into the MSIE Portal system.	
Sub Task 1.3.4	Conduct survey form for the needs of students	15 th /05/2018	15 th /09/2018	CMU, UMinho, and all partners involved	Distributed the questionnaire to MS student to derive the current competences of Industry4.o level and summarize the need	375 completed questionnaire of the assessment from students	75%
Sub Task 1.3.5	Identifying the needs of industry and students	15 th /05/2018	15 th /09/2018	CMU, UMinho, and all partners involved	Identifying the needs of industry and students	Some list of needs of industry and students are identified	65%

*If a task contains several activities, please divide it to subtasks and report the progress of both the task and its subtasks.

Corrective Actions **

Task No*	Task Description	Details
Sub Task 1.3.5the cluster	Reviewing the criteria to report quaestionnair analysis based on different clusters	From the internal meeting among Thai partner on 25 th October, the criteria to summarize the industry and student needs are changed. However the partners were assigned to help analyzing the data and report the analysis back by 29 th October.

*If a task contains several activities, please divide it to subtasks and report the progress of both the task and its subtasks.

**Only when corrective actions are needed.



Activities to be carried out for the next month:

Task No	Task Description	Start date	Due date	Place/ Partners involved	Description of the activity carried out	Specific and measurable indicators of achievement	Implementing status (done, partially-? [%])
Task 1.3	Assessment of learning and teaching tools and methods in Thailand and in EU partner countries	15 th /05/2018	15 th /09/2018	Uminho, and CMU with all partners involved	Develop the Assessment criteria and methods for the industry needs with respect to the IoT4.0	The final analysis reports based only on the 2 subsets of 50 companies in Thailand and 22 In EU (Classification by Sectors was changes to Manufacturing, Electronics and Automotive and other	85%
Sub Task 1.3.5	Identifying the needs of industry and students	15 th /05/2018	15 th /09/2018	Uminho, and CMU with all partners involved	derive the current need level of Industry4.o level and summarize the need from 72 collected companies	List of the needs from industry in Thailand and in EU regarding the Industry4.0	85%
Task1.4	Identifying gaps	15 th /09/2018	15 th /10/2018	Uminho, and CMU	A comprehensive analysis of the needs of industry for MSIE graduates to support their success in Thailand 4.0 and Industry 4.0 and of the needs of students for preparing them for Thailand 4.0 and Industry 4.0. Also concerning the EU industry and student needs, in a form of a report, will be achieved and it will be a part of the second WP1 progress report.	List of the needs from industry in Thailand and in EU regarding the Industry4.0	85%



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Subtask 1.4.1	Comparing the needs of industries in Thailand and European partners' countries	15 th /09/2018	15 th /10/2018	Uminho, and CMU with all partners involved	Compare the needs of industries in Thailand and European partners' countries in different sectors and in overall analysis	List of the needs from industry in Thailand and in EU regarding the Industry4.0	50%
Subtask 1.4.2	Identifying gaps between the needs of industry and the competence of MSIE graduates	15 th /09/2018	15 th /10/2018	Uminho, and CMU with all partners involved	Identify the gap between the needs of industry and the competence of students in Thailand and European partners' countries in different sectors and in overall analysis	List of the gaps between needs of industry and competences of student in Thailand and in EU regarding the Industry4.0	50%
Task 1.5	Identifying competitive factors for the curriculum	15 th /10/2018	15 th /11/2018	CMU, Uminho, and all partners involved	Specify and list what are the competitive factors for the new MSIE curriculum	Lists of competitive factors for the new MSIE curriculum	60%
Task 1.6	Developing recommendations for the specifications and areas of specialization for the curriculum	15 th /11/2018	15 th /12/2018	CMU, Uminho, and all partners involved	Specify and list what are the specifications and areas of specialization for the new MSIE curriculum	Lists of specifications and areas of specialization for the new MSIE curriculum	50%

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Complete Activities to date:

Task No*	Task Description	Start date	Due date	Place/ Partners involved	Description of the activity carried out	Specific and measurable indicators of achievement	Implementing status (done, partially-? [%])
Task 1.1	Developing a gap analysis working plan			CMU	Setting up the working plan, working group members and responsibilities among the project partners, including the list with company, organization, student association and stakeholder for the survey. Reviewing the curricula in Thailand and EU partners’ countries and set execution plan for the Gap Analysis activities.	The list of WP1 working group members and responsibilities among the project partners, list with companies, organizations, student associations and other stakeholders who will be the involved in the survey. Specific criteria for evaluation of MSIE curriculum in Thailand and templates and documents for the analyses.	95%
Task 1.2	Analysing of MSIE curricula being offered, and of learning and teaching methods being applied	14 th /03/2018	15 th /06/2018	Uminho, and CMU with all partners involved	A comprehensive analysis of MSIE curricula being offered currently in Thailand and EU partners’ countries including SWOT analyse to identify the strengths and weaknesses in Thai and EU universities , the common points, also the differences.	A report on the comprehensive analysis of MSIE curricula being offered currently in Thailand and EU partners’ countries.	95%



Task 1.3	Assessing needs of industry and students	15 th /05/2018	15 th /09/2018	Uminho, and CMU with all partners involved	Develop the Assessment criteria and methods for the industry needs with respect to the IoT4.0 Summarize the needs on industry and students	The Questionnaire of Industry assessment has been completed Part 1 :Assessment of Strategy Level Part 2 : Assessment of Adoption level. The analysis on the industry and student needs are being derived	90%
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** For a completed task containing subtasks, please report only the task.



Progress of Deliverables

Deliverable No	Deliverable Description	Status (Y/N)			
		Prepare	Submit to QCMB	Submit to PEC	Officially Complete
1.	Report of Gap Analysis activities.	Y	Y	Y	Y
2.	Execution plan	Y	Y	Y	Y

Indicators

<u>Indicator of achievement and or/performance as indicated in the project proposal</u>	Target	Sources of information on indicators	Measured Results	Measured Date	Observation

Changes that have occurred in this result since the original proposal:



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Title and reference number of the work package (WP)	WP2 Curriculum Development I: Curriculum Structure and Courses	
WPL: AIT / CUT	Reporting period: Oct 2018	Completion date: Nov 2020

Activities carried out since last report to date:

Task No*	Task Description	Start date	Due date	Place/ Partners involved	Description of the activity carried out	Specific and measurable indicators of achievement	Implementing status (done, partially–? [%])
2.1	Developing curriculum structure and academic program learning outcomes	n/a	31/12/2018	CUT/AIT + all partners	Defining border conditions for curriculum development with a focus on number of hours, credits and courses required within TQF / EQF	A modernized curriculum for Master’s degree in Industrial Engineering	Partially – 50%

*If a task contains several activities, please divide it to subtasks and report the progress of both the task and its subtasks.

Corrective Actions **

Task No*	Task Description	Details

*If a task contains several activities, please divide it to subtasks and report the progress of both the task and its subtasks.

**Only when corrective actions are needed.



Activities to be carried out for the next month:

Task No	Task Description	Start date	Due date	Place/ Partners involved	Description of the activity carried out	Specific and measurable indicators of achievement	Implementing status (done, partially-? [%])
2.1	Developing curriculum structure and academic program learning outcomes	01/10/2018	31/12/2018	CUT/AIT + all partners	Surveying partners for possible curriculum general outline (structure) and approach to inclusion of active learning methods	A modernized curriculum for Master's degree in Industrial Engineering	Partially – 25%
2.1	Developing curriculum structure and academic program learning outcomes	01/10/2018	31/12/2018	CUT/AIT + all partners	Consultation of WP1 results with partners and collection of scenarios for curriculum content proposals	A modernized curriculum for Master's degree in Industrial Engineering	Partially – 25%

*If a task contains several activities, please divide it to subtasks and report the progress of both the task and its subtasks.

Complete Activities to date:

Task No**	Task Description	Start date	Due date	Place/ Partners involved	Description of the activity carried out	Specific and measurable indicators of achievement
n/a	n/a		March 2018	CUT/AIT/KKU	Preparation of WP2 dissemination plan submitted to KKU	Project dissemination plan (prepared by KKU)
n/a	n/a		31/03/2018	CUT/AIT	1 st Rescheduling of WP2 tasks according to current time framework of the project	Work Plan for WP2
n/a	n/a	10/09/2018	30/09/2018	CUT/AIT	2 nd rescheduling of WP2 tasks according to current time framework of the	Work Plan for WP2



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** For a completed task containing subtasks, please report only the task.

Progress of Deliverables

Deliverable No	Deliverable Description	Status (Y/N)			
		Prepare	Submit to QCMB	Submit to PEC	Officially Complete
2.1.	A modernized curriculum for Master's degree in Industrial Engineering	N	N	N	N
2.2.	Syllabuses for all courses in the curriculum	N	N	N	N
2.3.	Pilot teaching in modernized MSc at partner universities	N	N	N	N
2.4.	Assessment of pilot test of the key courses and improved courses	N	N	N	N
2.5.	Accreditation of the curriculum	N	N	N	N

Indicators

<u>Indicator of achievement and or/performance as indicated in the project proposal</u>	Target	Sources of information on indicators	Measured Results	Measured Date	Observation
Curriculum	Curriculum of 15 courses for MS in IE program	Project documentation	n/a	31.10.2018	
Syllabuses	Syllabuses for 15 courses	Project documentation	0	31.10.2018	
Pilot teaching	Launch of 9 courses	Project documentation / Partner program / courses offer	0	31.10.2018	



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No. of students enrolled for pilot courses	Min. 10 students per course	Course attendance lists	0	31.10.2018	
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Changes that have occurred in this result since the original proposal:



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Title and reference number of the work package (WP)	WP3 - Curriculum Development II: Modernisation of teaching methods and tools for innovative MSc programmes	
WPL: Huynh T. Luong and Rui M. Lima	Reporting period: Oct. 01, 2018 – Oct. 31, 2018	Completion date:

Activities carried out since last report to date:

Task No*	Task Description	Start date	Due date	Place/ Partners involved	Description of the activity carried out	Specific and measurable indicators of achievement	Implementing status (done, partially–? [%])
Task 3.3	Developing a web-portal for online learning	April, 2018	Sept., 2018	AIT	Development of an online-learning platform	The learning platform with the following key modules: <ul style="list-style-type: none"> • List of courses • List of students attending each course • Course contents (in modules) with lectures, presentation, videos • Forum • Access log • Grading system 	Nearly completed

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Corrective Actions **

Task No*	Task Description	Details
Task 3.3	Developing a web-portal for online learning	This task is behind schedule. However, the development of the online learning platform, called VClass, has been nearly completed. User Guide has been developed and will be uploaded on the project webpage at the end of November 2018.

*If a task contains several activities, please divide it to subtasks and report the progress of both the task and its subtasks.

**Only when corrective actions are needed.

Activities to be carried out for the next month:

Task No	Task Description	Start date	Due date	Place/ Partners involved	Description of the activity to be carried out	Specific and measurable indicators of achievement	Expected completion (done, partially-? [%])

*If a task contains several activities, please divide it to subtasks and report the progress of both the task and its subtasks.

Complete Activities to date:

Task No**	Task Description	Start date	Due date	Place/ Partners involved	Description of the activity carried out	Specific and measurable indicators of achievement

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Progress of Deliverables



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Deliverable No	Deliverable Description	Status (Y/N)			
		Prepare	Submit to QCMB	Submit to PEC	Officially Complete

Indicators

<u>Indicator of achievement and or/performance as indicated in the project proposal</u>	Target	Sources of information on indicators	Measured Results	Measured Date	Observation

Changes that have occurred in this result since the original proposal:



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Title and reference number of the work package (WP)	WP5 DISSEMINATION & EXPLOITATION	
WPL: KKU	Reporting period: October 1st - 31st 2018	Completion date: October 31st 2018

Activities carried out since last report to date:

Task No*	Task Description	Start date	Due date	Place/ Partners involved	Description of the activity carried out	Specific and measurable indicators of achievement	Implementing status (done, partially-? [%])
Task 5.1	A Project Dissemination Exploitation and Sustainability Plan	12/02/2018	12/04/2018	UPB/KKU	To develop the project dissemination exploitation and sustainability plan. This plan was made in order to identify and organize the activities to be performed by the consortium members. A project dissemination exploitation and sustainability plan is being revised and will be sent to QC.	A Project Dissemination Exploitation and Sustainability Plan which is approved by PEC.	90%
Task 5.3	Dissemination materials	30/03/2018	30/09/2020	KKU	To make the flyers, posters and brochures for publishing to project's stakeholders.	The dissemination material must be made every six months. Up to this month, the dissemination material is the brochure to	17%



						introduce the project. It is developed under three languages; Thai, English, and Polish. The brochures are distributed by Thai and EU partners at many universities in order to promote the project. Additionally, it was also distributed to different stakeholders such as students, university professors, public authorities, and industrial partners.	
Task 5.4	Publications in professional journals, newspapers, magazines and brochures, social media	01/02/2019	01/08/2020	Uminho	The consortium members disseminated publication outputs achieved at each stage of the project. So far, there are three papers were already published which are: 1. Embedding Memorable Experience to Customer Journey by Pisut Koomsap Published 2018/08/28. 2. Identifying Key Criteria in Development of Industrial Engineering Education by Tomasz Nitkiewicz Published 2018/08/13 3. Invitation to conference by	In this project, two papers from each partner is requested for publication.	16.67%



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					<p>Tomasz Nitkiewicz Published 2018/11/06</p> <p>4. Sustainable Development in Accordance with the Concept of Industry 4.0 on the Example of the Furniture Industry” at MATEC Web Conference Volume 183, 201812th International Conference Quality Production Improvement – QPI 2018 by Anna Wiśniewska-Sałek (CUT) Published 2018.</p> <p>In addition, our project is supported from the Production Engineering Archives (PEA), Poland. On October 4, Professor Ulewicz (CUT), the editor-in-chief of PEA, introduces MSIE4.0 on the PEA website to the journal audiences and the public.</p>		
Task 5.6	Dissemination events with relevant stakeholders organised	19/09/2018	19/08/2020	KKU	<p>PSU organized a seminar on Industry 4.0 Readiness for Industries in the Southern Thailand in July 15, 2018. Four presentations were delivered.</p> <ol style="list-style-type: none"> 1. Industry 4.0 is coming - Why do we have to be ready? 2. Curriculum Development of 	Dissemination events (workshops and info days) will be organised at each Thai university.	30%



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					<p>Master’s Degree Program in Industrial Engineering for Thailand Sustainable Smart Industry</p> <p>3. Industry 4.0 in Practice</p> <p>4. Industry 4.0 Readiness Assessment</p> <ul style="list-style-type: none"> ✓ A workshop on Industry 4.0 Readiness was conducted after the presentations. ✓ The representatives from industry were asked to complete the questionnaire. <p>The results will be used in the project for Gap Analysis.</p> <p>Recently, during September 01-15’2018, UPB had the presentation of MSIE 4.0 project to industrial partners.</p> <p>Additionally, on September 24’ 2018 UPB also made the presentation of MSIE 4.0 project to IMST Faculty master students and dissemination workshop.</p>		
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*If a task contains several activities, please divide it to subtasks and report the progress of both the task and its subtasks.

Corrective Actions **



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Task No*	Task Description	Details
Task 5.1	A Project Dissemination Exploitation and Sustainability Plan	A Project Dissemination Exploitation and Sustainability Plan is being revised, especially under the topic of the institutional and financial plan for master programme's sustainability for Thai University.
Task 5.2	A project website	-
Task 5.3	Dissemination materials	-

*If a task contains several activities, please divide it to subtasks and report the progress of both the task and its subtasks.

**Only when corrective actions are needed.



Activities to be carried out for the next month:

Task No	Task Description	Start date	Due date	Place/ Partners involved	Description of the activity carried out	Specific and measurable indicators of achievement	Implementing status (done, partially-? [%])
Task 5.1	A Project Dissemination Exploitation and Sustainability Plan	12/02/2018	12/04/2018	UPB/KKU	To identify and organize the activities to be performed by the consortium members. A project dissemination exploitation and sustainability plan was sent to QC.	A Project Dissemination Exploitation and Sustainability Plan which is approved by PEC. (A Project Dissemination Exploitation and Sustainability Plan is completed and be approved by PEC).	90%
Task 5.2	A project website	12/02/2018	12/09/2020	AIT	An official website was established and regularly updated. Web pages about the project will also be established at partners websites wherever possible.	- Updated activities carried out next month. - No. of visitors.	100%
Task 5.3	Dissemination materials	30/03/2018	30/09/2020	KKU	Preparation of the brochure in order to promote the WP1 work.	Brochure to promote WP1 work, especially, Gap analysis, analyzing curriculums, assessing need of industry and students, identifying gaps, and identifying competitive factors for curriculum. This brochure will be	16.67%



						distributed by Thai and EU partners at many universities in order to promote the project. Additionally, it was also distributed to different stakeholders such as students, university professors, public authorities, and industrial partners.	
Task 5.4	Publications in professional journals, newspapers, magazines and brochures, social media	01/02/2019	01/08/2020	Uminho	This task will be reviewed every six months. The project results will also be printed for dissemination purpose.	At least two papers are expected to be published.	16.67%
Task 5.5	Joint short-term courses in the field of IE for professionals	10/2019	08/2020	KMUTNB	A subset of the teaching/learning materials developed under WP3 (Tasks 3.1 & 3.2).	Not yet started.	0%
Task 5.6	Dissemination events with relevant stakeholders organised	19/09/2018	19/08/2020	KKU	Dissemination events (workshops and info days) will be organised at each Thai university.	At least one Dissemination events with relevant stakeholders will be organized within February 2019.	33%
Task 5.7	A dissemination – sustainability	08/2020	08/2020	AIT	The conference will have two aims: dissemination of the project results and	Not yet started.	0%



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	conference				presentation of the sustainability measures in order to develop the project achievements after the ending of the EU financing.		
Task 5.8	Sustainable network between project partners and IE enterprises	08/2020	08/2020		A cooperation network between the project partners and the enterprises will be created and a cooperation agreement.	Not yet started.	0%

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Complete Activities to date:

Task No*	Task Description	Start date	Due date	Place/ Partners involved	Description of the activity carried out	Specific and measurable indicators of achievement	Implementing status (done, partially-? [%])
Task 5.2	A project website	12/02/2018	12/09/2020	AIT	An official website was established and regularly updated. Web pages about the project will also be established at partners websites wherever possible.	<ul style="list-style-type: none"> - An active project website with regularly updated project info. - No. of visitors. 	100%



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Progress of Deliverables

Deliverable No	Deliverable Description	Status (Y/N)			
		Prepare	Submit to QCMB	Submit to PEC	Officially Complete
1.	Activity/Event report form	Y	Y	N	N
2.	Target groups of dissemination material form	Y	Y	N	N
3.	Dissemination and exploitation data form				
4.	A Project Dissemination Exploitation and Sustainability Plan	Y	N	N	N

Indicators

<u>Indicator of achievement and or/performance as indicated in the project proposal</u>	Target	Sources of information on indicators	Measured Results	Measured Date	Observation
No. of visitors	At many as possible	The website		Every month	
No. of publications	18 papers	Journals/Magazines/news paper/ social media/brochure		Every 6 months	
Dissemination events with relevant stakeholders organised	At least 3 times	Events		Every year	
A dissemination – sustainability conference	1 times	Conference		At the end of the project	
Dissemination materials	Newsletters will be created	Brochures/posters/newsle		Every 6	



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	and delivered to target groups twice a year.	tters/flyers		months	
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Changes that have occurred in this result since the original proposal: