

Reinforcing Non-University Sector at the Tertiary Level in Engineering and Technology to Support Thailand Sustainable Smart Industry



Workpackage Quarterly Report

Title and reference number of the workpackage (WP)	WP1- Non-University Capacity Assessment	
WPL: Rui Lima (UMinho)	Co-WPL: Athakorn Kengpol (KMUTNB)	Reporting period: September 30, 2022

Indicators of achievement and or/performance as indicated in the project proposal

- The capacity assessment execution plan is ready by M1
- The capacity assessment form is available by M2
- The assessment results are available by M6
- Recommendations are available by M6

Status of Deliverables*

Deliver	Deliverable Title	Status (Y/N/NA)						
able No		Preparing	Executing	Execution complete	Report to QCMB	Report to PEC	Officially Complete	
Dev 1.1	A capacity assessment execution plan	Υ	Υ	Y	Y	Υ	Y	
Dev 1.2	A capacity assessment form	Υ	Υ	Y	N/A	N/A	Y	
Dev 1.3	An assessment report on non-university capacity, including recommendations emphasis areas for the Industry 4.0 competence development training program	Υ	Y	Y	Y	Υ	Y	

^{*}Please list all deliverables of the WP.



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Activities carried out to date to achieve this result:

Task No	Task Title	Start date	End date**	Place/ Partners involved		Description of the activity carried out	Specific and measurable indicators of achievement
Task 1.1	Developing a capacity assessment execution plan	Feb 1, 2021	Aug 3, 2021	All partners	•	Explored the knowledge needed for the assessment form. Developed a capacity assessment execution plan. Reviewed and approved the plan by WP1 team Submitted the plan to QCMB for approval Revised the plan Resubmitted the plan to QCMB for approval Submitted the plan to PEC for approval	 Official capacity assessment execution plan https://bit.ly/3FIRcOw
Task 1.2	Designing capacity assessment	Mar 1, 2021	June 1, 2021	All partners	•	Analysed knowledge areas and sources required for the assessment form. Developed items for the questionnaire. Reviewed and approved the questionnaire's items by WP1 team. Developed a think-aloud procedure with 6 Thai teachers to improve understanding of the questionnaire. Improved the questionnaire.	An official questionnaire for the capacity assessment available in a Google forms. https://bit.ly/3TYyao3

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					•	Tested and retested to validate the questionnaire with 43 participants Reviewed the results Adjusted the questionnaire Obtained the final version of the questionnaire for the capacity assessment available in a Google forms.		
Task 1.3	Conducting non-university capacity assessment	June 1, 2021	June 30, 2021	Thai partners and UMinho	•	Sent out the invitation to the target groups to participate on the survey. Monitored the number of responses and took action to ensure the number was reached.	•	The survey results from 200 participants
Task 1.4	Summarize, interpret results and recommendations	July 1, 2021	Jan 20, 2022	All partners	•	Analyzed the data. Developed the final report with a summary and interpretation of the results, and recommendations. Reviewed the report internally among the WP1 members.	•	An official non-university capacity assessment report https://bit.ly/3qrY31V

^{**} if it is still ongoing, please put "-".

Activities to be carried out to achieve this outcome (before the end of the project)

Task No	Task Title	Start date	End date#	Place/ Partners involved	Description of the activity carried out	Specific and measurable indicators of achievement

according to the proposal



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Corrective Actions **

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

^{**}Only when corrective actions are needed.

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

The project was kicked-off in Feb 2021.

The workplan was revised one time in Feb 2021.

Tasks 1.1 to 1.3 were executed according to the plan.

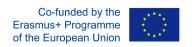
Additional time was needed to ensure the quality of the analysis of the results.

Consequently, an official report on the capacity assessment is expected to be delayed by a couple months.

The WP1 team approved the final result in the beginning of October, and we initiated the preparation of the process for evaluation of the final deliverable by QCMB and after that by PEC.



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Title and reference number of the workpackage (WP)	WP2- Sustainable Development of Industry 4.0 Competence Development Training Program				
WPL: Pisut Koomsap (AIT)	Co-WPL: Cathal de Paor (MIC)	Reporting period: September 30, 2022			

Indicators of achievement and
or/performance as indicated in the
project proposal

- Approval of an Industry 4.0 Competence Development Training Program by PEC by M7
- 10 modules complete with innovative training materials are ready by M9
- A capacity training assessment form is approved by WP2 members by M3
- Completion of training sessions for the 12 Thai trainers by M29
- Completion of coaching sessions for the 12 Thai trainers by M30
- An assessment report by M31
- An Innovative Teaching and Learning Center for Thailand Sustainable Smart Industry

Status of Deliverables*

Deliver	Deliverable Title	Status (Y/N/NA)						
able No		Preparing	Executing	Execution complete	Report to QCMB	Report to PEC	Officially Complete	
Dev 2.1	An Industry 4.0 Competence Development Training Program	Υ	Υ	N	Υ	Y	N	
Dev 2.2	Innovative training materials for 10 modules	Υ	Υ	N	Υ	Υ	N	
Dev 2.3	A capacity training assessment form	Υ	Υ	N	Υ	Υ	N	
Dev 2.4	12 Thai trainers trained in program design (for higher education	Y	Y	N	N/A	N/A	N	



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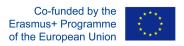
	contexts), and in the use of innovative learner-centered teaching and assessment methods						
Dev 2.5	An assessment report of the Thai trainer's competence in the use of knowledge and skills gained in higher education teaching	N	N	N	N	N	N
Dev 2.6	An Innovative Teaching and Learning Center for Thailand Sustainable Smart Industry	N	N	N	N	N	N

^{*}Please list all deliverables of the WP.

Activities carried out to date to achieve this result:

Task No	Task Title	Start	End	Place/	Place/ Description of the activity carried out			Specific and measurable indicators of
		date	date**	Partners				achievement
				involved				
Task 2.1	Designing an Industry 4.0	Feb	-	AIT, KKU,	•	Prepared for the development of the	•	Overview page on the the Industry
	Competence	10,		MIC,UPB		Industry 4.0 Competence Development		4.0 Competence Development
	Development Training	2021		and		Training Program		Training Program
	Program			UMinho	•	Identified the experts who will develop and offer the 10 training modules		https://bit.ly/3xa1rCv
					•	Developed a template for the	•	Presentation material on the concept
						development plan of the 10 training		of the Industry 4.0 Competence
						modules		Development Training Program
								https://bit.ly/3U0efFj





 Conducted a meeting with the experts on how to use the template for the module development plan Developed a template for a syllabus Completed the module development plans for 8 modules Learning Experience-Focused Course Design and Development (Module 1) Communication and People Skills Development (Module 2) Innovative Teaching and Learning Methods (Module 3) Project-Based and Problem-Based Learning (Module 4) Coaching and Mentoring (Module 5) Applications of Optimization and Technology in Value Chain (Module 7) 	 A list of the experts https://bit.ly/3QOpk9P 8 syllabuses completed Document uploaded on the internal website for assessment for QCMB and PEC approval https://bit.ly/3MRoyHb (Permission is required to access the member space) Official syllabuses and training activities plan uploaded in WP2 section on the member space and internal website for the following approved modules (https://bit.ly/3KOI45Y)
 7) • Innovative Product Design and Development (Module 9) • Data Analytics (Module 10) 	 (https://bit.ly/3KOI45Y) Communication and People Skills Development (Module 2) Syllabus
 Developing the module development plans for Digital Manufacturing (Module 8) 	https://bit.ly/3BG2qgx Activities Plan https://bit.ly/3TTaQle
 Completed the syllabuses for 8 modules Learning Experience-Focused Course Design and Development (Module 1) 	 Innovative Teaching and Learning Methods (Module 3) Syllabus

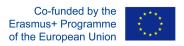




	 Communication and People Skills Development (Module 2) Innovative Teaching and Learning Methods (Module 3) Project-Based and Problem-Based Learning (Module 4) Coaching and Mentoring (Module 5) Applications of Optimization and Technology in Value Chain (Module 7) Innovative Product Design and Development (Module 9) Data Analytics (Module 10) Completed training activities plan for 6 modules Communication and People Skills Development (Module 2) Innovative Teaching and Learning Methods (Module 3) Coaching and Mentoring (Module 5) Applications of Optimization and Technology in Value Chain (Module 7) Innovative Product Design and Development (Module 9) Data Analytics (Module 10) 	https://bit.ly/3d7Gf9l Activities Plan https://bit.ly/3xeVswc • Applications of Optimization and Technology in Value Chain (Module 7) Syllabus https://bit.ly/3RMN27i Activities Plan https://bit.ly/3U0icK9 • Innovative Product Design and Development (Module 9) Syllabus https://bit.ly/3LjU6Gt Activities Plan https://bit.ly/3d2Y5dw • Data Analytics (Module 10) Syllabus https://bit.ly/3d7d06C Activities Plan https://bit.ly/3d7d06C
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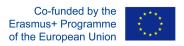
Task 2.2	Developing innovative	Apr -	AIT, KKU,	 Submitted document to QCMB for review and approval for 5 modules Communication and People Skills Development (Module 2) Innovative Teaching and Learning Methods (Module 3) Applications of Optimization and Technology in Value Chain (Module 7) Innovative Product Design and Development (Module 9) Data Analytics (Module 10) Submitted document to PEC for review and approval for 5 modules Communication and People Skills Development (Module 2) Applications of Optimization and Technology in Value Chain (Module 7) Innovative Product Design and Development (Module 9) Data Analytics (Module 10) Completed training materials for 6 	Status report on the development of
1 ask 2.2	training materials	Apr - 27, 2021	MIC	 Completed training materials for 6 modules Communication and People Skills Development (Module 2) 	Status report on the development of training materials https://bit.ly/3QHWt72





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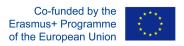
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						 Data Analytics (Module 10) https://bit.ly/3Bwcdpf
Task 2.3	Developing a capacity training assessment	Feb 10, 2021	AIT, KKU, MIC, UPB and UMinho	 Developed a capacity training assessment system Completed assessment forms for 9 modules Learning Experience-Focused Course Design and Development (Module 1) Communication and People Skills Development (Module 2) Innovative Teaching and Learning Methods (Module 3) Project-Based and Problem-Based Learning (Module 4) Coaching and Mentoring (Module 5) Applications of Optimization and Technology in Value Chain (Module 7) Digital Manufacturing (Module 8) Innovative Product Design and Development (Module 9) Data Analytics (Module 10) Developing assessment form for Industrial Management in Industry 4.0 Era (Module 6) 	•	Status report page on the assessment forms https://bit.ly/3qqvcey Capacity training assessment form 9 capacity training assessment forms for 9 modules Document uploaded on the internal website for assessment for QCMB and PEC approval https://bit.ly/3MRoyHb (Permission is required to access the member space) Official Capacity training assessment form uploaded in WP2 section on the member space and internal website for the following approved modules (https://bit.ly/3KOI45Y) • Communication and People Skills Development (Module 2) https://bit.ly/3RX4lma • Innovative Teaching and Learning Methods (Module 3)

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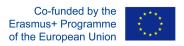
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				 Submitted document to PEC for review and approval for 5 modules Communication and People Skills Development (Module 2) Innovative Teaching and Learning Methods (Module 3) Applications of Optimization and Technology in Value Chain (Module 7) Innovative Product Design and Development (Module 9) Data Analytics (Module 10) 	 https://bit.ly/3Dlu8Ap Applications of Optimization and Technology in Value Chain (Module 7) https://bit.ly/3DgStau Innovative Product Design and Development (Module 9) https://bit.ly/3RT42bL Data Analytics (Module 10) https://bit.ly/3RX9Bpx
Task 2.4	Training the Thai trainers	Feb - 17, 2021	AIT, KMUTNB, KKU,MU, PSU, MIC and UMinho	 Identified the 12 Thai trainers Had a meeting with Thai trainers to explain train the trainer program Updated the list of 12 Thai trainers Trained the trainers on Communication and People Skills Development (Module 2) Innovative Teaching and Learning Methods (Module 3) Project-Based and Problem-Based Learning (Module 4) Coaching and Mentoring (Module 5) Data Analytics (Module 10) 	 Status report page on Train the Trainer Program https://bit.ly/3qrpfOz A updated list of the Thai trainers https://bit.ly/3L8lq99 Understanding of Thai trainers or their roles and expectation Training completed for Communication and People Skills Development (Module 2) Innovative Teaching and Learning Methods (Module 3)

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				Scheduled training for Digital Manufacturing (Module 8) during December 8-10, 2022	 Project-Based and Problem-Based Learning (Module 4) Coaching and Mentoring (Module 5) Data Analytics (Module 10) Status of the Train the Trainer Program https://bit.ly/3samMJx
					 Note: the two trainings in Jan 2022 were postponed due to the emergence of Omicron at the end of December Links to see the ambiance during the training and coaching sessions are available in the status report page.
Task 2.5	Coaching the Thai trainers	Feb 20, 22	AIT, KMUTNB, KKU,MU, and PSU	 Completed Coaching for 1 module Communication and People Skills Development (Module 2) Online coaching for 4 modules Innovative Teaching and Learning Methods (Module 3) Project-Based and Problem-Based Learning (Module 4) Coaching and Mentoring (Module 5) 	 Completed coaching activities for Communication and People Skills Development (Module 2) Ongoing coaching activities for Innovative Teaching and Learning Methods (Module 3) Project-Based and Problem- Based Learning (Module 4) Coaching and Mentoring (Module 5)

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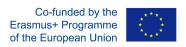


		Data Analytics (Module 10)	Data Analytics (Module 10)
		 Onsite coaching sessions for 2 modules Communication and People Skills Development (Module 2) at Mahidol Innovative Teaching and Learning Methods (Module 3) at MIC Scheduled onsite coaching sessions for 2 modules Project-Based and Problem-Based	 4 Thai Trainers have been recommended for each of the following modules by the module developers Innovative Teaching and Learning Methods (Module 3)- 2MU, 1 KMUTNB and 1 PSU Data Analytics (Module 10): 2KMUTNB, 1KKU, and 1 PSU They are preparing for offering the training.
Task 2.7	AIT, KKU, MU, PSU and Lampang Rajabhat University (Associated Partner)	Set up Active Learning Classrooms for training activities	Active Learning Classrooms have been set up and used for training https://bit.ly/3L8EqWq

^{**} if it is still ongoing, please put "-".

Activities to be carried out to achieve this outcome (before the end of the project)





Task No	Task Title	Start date	End date#	Place/ Partners involved		Description of the activity carried out		Specific and measurable indicators of achievement
Task 2.1	Designing an Industry 4.0 Competence Development Training Program	Feb 21	Aug 21	AIT, KKU, MIC, UPB, and UMinho	•	Complete the module development plans for Industrial Management in Industry 4.0 Era (Module 6) Digital Manufacturing (Module 8) Complete the syllabuses for Industrial Management in Industry 4.0 Era (Module 6) Digital Manufacturing (Module 8) Complete the activities plans for Learning Experience-Focused Course Design and Development (Module 1) Project-Based and Problem-Based Learning (Module 4) Industrial Management in Industry 4.0 Era (Module 6) Digital Manufacturing (Module 8) Submit the curriculum to QCMB and PEC	•	An official curriculum of an Industry 4.0 Competence Development Training Program
Task 2.2	Developing innovative training materials	Apr 21	Dec 21	AIT, KKU, MIC, UPB, and UMinho	•	 Complete the training materials for Learning Experience-Focused Course Design and Development (Module 1) Project-Based and Problem-Based Learning (Module 4) 	•	Official training materials for the 10 modules





					•	 Industrial Management in Industry 4.0 Era (Module 6) Digital Manufacturing (Module 8) Submit the materials to QCMB and PEC 		
Task 2.3	Developing a capacity training assessment	Feb 21	Apr 21	UPB and UMinho	•	 Complete the assessment form for Industrial Management in Industry 4.0 Era (Module 6) Submit the forms to QCMB and PEC 	•	A capacity training assessment form
Task 2.4	Training the Thai trainers	Feb 21	Mar 23	All partners	•	 Train 12 Thai trainers by EU partners on Industrial Management in Industry 4.0 Era (Module 6) Digital Manufacturing (Module 8) 	•	Completion of training sessions
Task 2.5	Coaching the Thai trainers	Jun 21	May 23	All partners	•	 Finish coaching 12 Thai trainers for Innovative Teaching and Learning Methods (Module 3) Project-Based and Problem-Based Learning (Module 4) Coaching and Mentoring (Module 5) Industrial Management in Industry 4.0 Era (Module 6) Digital Manufacturing (Module 8) Data Analytics (Module 10) Thai trainers are assigned to deliver the following modules: 	•	Completion of coaching sessions

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						 Project-Based and Problem-Based Learning (Module 4) Coaching and Mentoring (Module 5) Industrial Management in Industry 4.0 Era (Module 6) Digital Manufacturing (Module 8) 		
Task 2.6	Assessing the Thai trainers	Jul 21	Jun 23	All partners	•	Assess the performance of the 12 Thai trainers	•	An assessment report on the performance of the 12 Thai trainers
Task 2.7	Setting up an Innovative Teaching and Learning Center for Thailand Sustainable Smart Industry	Nov 22	Jun 23	All partners	•	Establish the center	•	an Innovative Teaching and Learning Center for Thailand Sustainable Smart Industry

according to the proposal

Corrective Actions **

Task No	Task Title	Start date	End date*	Place/ Partners involved	Description of the activity carried out	Specific and measurable indicators of achievement
Task x.x					•	

^{**}Only when corrective actions are needed.

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





- A plan has been revised one time in Feb 21.
- Since the module developers could not completed the tasks at the same time due to their contraints and other obligations during the pandemic, we have decided to proceed by module instead. The module having completed documents for Task 2.1-2.3 are submitted to QCMB and PEC for review and approval.



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Title and reference number of the workpackage (WP)	WP3-Capacity training for non-university sector at tertiary level in Thailand			
WPL: Thanate Ratanawilai (PSU)	Co-WPL: Kanchaha Sethanan (KKU)	Reporting period: September 30, 2022		

Indicators of achievement and	
or/performance as indicated in the	
project proposal	

- The capacity training execution plan is ready by M4
- Completion of the capacity training sessions by M31
- Completion of the capacity coaching sessions by M33
- An assessment report on the trained capacity by M35

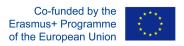
Status of Deliverables*

Deliver	Deliverable Title						
able No		Preparing	Executing	Execution complete	Report to QCMB	Report to PEC	Officially Complete
Dev 3.1	A capacity training execution plan	Υ	Υ	N	Υ	N	N
Dev 3.2	60 trained teaching staff from non-university sector at tertiary level	Y	Υ	N	N/A	N/A	N
Dev 3.3	An assessment report of trained teaching staff from non-university sector at tertiary level	Y	Y	N	N	N	N

^{*}Please list all deliverables of the WP.

Activities carried out to date to achieve this result:





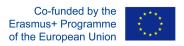
Task No	Task Title	Task Title Start End Place/ Description of the activity carried out date date** Partners involved		Partners	!	Specific and measurable indicators of achievement		
Task 3.1	Developing capacity training execution plan	Feb 21		AIT, KMUTNB, KKU, MU and PSU	•	Obtained an initial registration list of trainees and their interested modules from WP5 Checked availability of registered trainees in the Southern region (the largest group according to the list) for attending the first module Explained about the training program to prospective trainees in the Central, Eastern, and Western region in the online information session Explained about the training program to prospective trainees in the Southern region in the online information session Scheduled training for Central region for 5 modules Communication and People Skills Development (Module 2) Applications of Optimization and Technology in Value Chain (Module 7) Innovative Product Design and	•	A tentative list of trainees and their interested modules Training activities scheduled for December 2021 and January 2022 (Note: the activities for January have been postponed due to the emergence of Omicron at the end of December 2021) 7 training activities scheduled for Central region • Module 2 on 13-15 December 2021* • Module 2 on 11-13 March 2022 • Module 7 on 18-20 March 2022 • Module 9 on 20-22 December 2022* • Module 9 on 25-27 February 2022 *Rambhai Barni Rajabhat University Training activities scheduled for Southern region of • Module 2 on 18-20 March 2022 • Module 3 on 7-9 November 2022





 Data Analytics (Module 10) Scheduled training program for Northern region for 3 modules Communication and People Skills Development (Module 2) Applications of Optimization and Technology in Value Chain (Module 7) Innovative Product Design and Development (Module 9) Training activities scheduled for Northern region of Module 2 on 17-19 June 2022 Module 7 on 22-24 July 2022 Module 9 on 6-8 May 2022 A tentative capacity training execution plan including a progress of the training activities 		 Scheduled training program for Northern region for 3 modules Communication and People Skills Development (Module 2) Applications of Optimization and Technology in Value Chain (Module 7) Innovative Product Design and Development (Module 9) Submitted the 1st draft of Deliverable 3.1 report to QCMB Held online meetings with Thai trainers 	 Northern region of Module 2 on 17-19 June 2022 Module 7 on 22-24 July 2022 Module 9 on 6-8 May 2022 A tentative capacity training execution plan including a progress of the training activities Organized and assigned Thai trainers to each training center for modules 3 and 10 training activities and set the
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					• Vi: So tw Te 3)	dethods (Module 3) and Data Analytics Module 10) isited Faculty of Industrial Technology, ongkhla Rajabhat University to promote wo upcoming modules; Innovative eaching and Learning Methods (Module and Data Analytics (Module 10) to be eld at PSU training center	•	14 tentative trainees are expected to attend both modules at PSU training center
Task 3.2	Conducting capacity training on Industry 4.0 competence development	Apr 21	-	AIT, KMUTNB, KKU, MU and PSU	th Pr th Cc De Ra Ce •	reparing for offering the first module in the South reparing for offering the first module in the Central conducted 2 capacity training sessions in the ecembers 2021 at Rambhai Barni alabhat University for a subgroup of central region on Communication and People Skills Development (Module 2) Innovative Product Design and Development (Module 9) conducted 3 capacity training sessions in cebruary and March 2021 at Mahidol niversity for Central region on Communication and People Skills Development (Module 2)	•	 A ReCap 4.0 Training Status Report https://bit.ly/3vKOwq7 Training activities at Rambhai Barni Rajabhat University with the participants of 7 and 8 for Modules 2 and 9, respectively Training activities at Mahidol University with the participants of 11, 15, and 12 for Modules 2, 7, and 9, respectively Training activities at PSU with the participants of 4,13 and 12 for Modules 2, 7 and 9, respectively Training activities at LPRU with the participants of 10 and 14 for Modules 2 and 9, respectively





 Applications of Optimization and Technology in Value Chain (Module 7) Innovative Product Design and Development (Module 9) Conducted 3 capacity training sessions in March, April and May 2022 at Prince of Songkla University (PSU) for Southern region on Communication and People Skills Development (Module 2) Applications of Optimization and Technology in Value Chain (Module 7) Innovative Product Design and 	The ambiance during the training can be seen by accessing from the numbers on the report page.
 Development (Module 9) Conducted 3 capacity training sessions in May, June and July 2022 at Lampang Rajabhat University (LPRU) for Northern region on Communication and People Skills Development (Module 2) Applications of Optimization and Technology in Value Chain (Module 7) Innovative Product Design and Development (Module 9) 	

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Activities to be carried out to achieve this outcome (before the end of the project)

Task No	Task Title	Start date	End date#	Place/ Partners involved		Description of the activity carried out	Specific and measurable indicators of achievement
Task 3.1	Developing capacity training execution plan	Feb 21	July 21	All partners	•	Obtain a complete registration list of trainees and their interested modules, registered for 4 regions of Thailand from WP5 Collect a name list of 12 Thai trainers for each module from WP2 Create tentative schedules for training and coaching of the 10 modules for the 4 regions to form a capacity training execution plan (CTEP) Submit the CTEP to QCMB and PEC for approval	An official capacity training execution plan
Task 3.2	Conducting capacity training on Industry 4.0 competence development	Apr 21	Sept 23	Thai partners	•	Prepare for the implementation of the training sessions of CTEP in all 4 regions Conduct the training sessions for teaching staffs of non-university sector at tertiary level Assess the trainees after the completion of each training module	Completion of capacity training sessions
Task 3.3	Coaching trained capacity	July 21	Oct 23	Thai partners	•	Prepare for the implementation of the coaching sessions of CTEP in all 4 regions	Completion of coaching sessions

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Task 3.4 Assessing trained capacity July 21 Oct 23 EU pa	Conduct the coaching sessions for teaching staffs of non-university sector at tertiary level Assess the trainees after the completion of each coaching module rtners IT Monitor the training and coaching activities Assess the overall performance of the trainees after the completion of coaching sessions	An assessment report on the performance of the trained teaching staff from non-university sector
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[#] according to the proposal

Corrective Actions **

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

^{**}Only when corrective actions are needed.

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

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- A plan has been revised one time in March 21.
- Scheduling training during the pandemic has been a challenge as it has been depended upon the situation and the availability of the trainees.
- The training has mostly conducted during Friday to Sunday on the weeks that most of them were available.
- There was also a case that some registrants confirmed to attend but could not because of testing positive.



Reinforcing Non-University Sector at the Tertiary Level in Engineering and Technology to Support Thailand Sustainable Smart Industry



Title and reference number of the workpackage (WP)	WP4- Quality Monitoring and Control			
WPL: Andrei Szuder (UPB)	Co-WPL: Danaipong Chetchotsak (KKU)	Reporting period: September 30, 2022		

Indicators of achievement and	 WP4-4.1 A quality control and monitoring system (M1)
or/performance as indicated in the	• WP4-4.2 Internal quality control and monitoring (on a regular basis until the end of the project)
project proposal	 WP4-4.3 External quality control and monitoring (M13 and M25)
	• WP4-4.4 External financial audit (M27) (Not necessary)

Status of Deliverables*

Deliver Deliverable Title Status (Y/N/NA)							
able No		Preparing	Executing	Execution complete	Report to QCMB	Report to PEC	Officially Complete
4.1	Developing a quality control and monitoring system -	Y	Y	Y	Y	Υ	Υ
4.2	Internal quality control and monitoring (on a regular basis until the end of the project)	Y	Y	N	Y	N	N
4.3	External quality control and monitoring	Υ	Υ	N	N	N	N
4.4	External financial audit	N	N	N	N	N	N

^{*}Please list all deliverables of the WP.

Activities carried out to date to achieve this result:





Task No	Task Title	Start date	End date**	Place/ Partners involved		Description of the activity carried out		Specific and measurable indicators of achievement
4.1	Developing a quality control and monitoring system	Feb 1, 2021	Sep 13, 2021	All partners	•	Developed a QCMP and supporting Quality Management System templates Reviewed and approved the contents of the QCMP by QCMB Revised the QCMP according to the project management flow given by PC., approved Project Proposal and the ReCap 4.0 Erasmus Projects Overview. Submitted to PEC for approval. Revised QCMP per PEC comments Submitted to PEC for approval	•	An official QCMP https://bit.ly/3w1ODN4 The Quality Management System templates drafts are available on the ReCap4.0 Project Portal: https://bit.ly/38Y0Uud
4.2	Implementing the internal quality control and monitoring of the project	Mar 11, 2021	-	All partners	•	Updated data of the task deadlines, responsible and the current stage of WP's in the Quality Control and Monitoring Template Reviewed and approved the contents of deliverable, "WP1-1.1 A capacity assessment execution plan"	•	The quality monitoring report is available on the ReCap4.0 Project Portal: https://bit.ly/3waQrnb Consolidated Quality Control and Monitoring Report (QCMR): https://bit.ly/38OUDkl





 Reviewed and approved the contents of deliverable, "WP5-5.1 A Dissemination, Exploitation and Sustainable plan (DESP)" Reviewed and approved the contents of deliverable, "WP4-4.1 A quality control and monitoring system." Set up QCMB tasks for the end of the first 6 months of the ReCap 4.0 project The consolidated reviewed report (The consolidated deliverable evaluation template) for the
 monitoring activities and adapting the necessary templates. Data collection and work for drafting the second consolidated QCMR- Quality Control and Monitoring Report Prepare Quality Control and Monitoring Board Report (QCMBR) Reviewed and approved the revised
 version of "WP5-5.1 A Dissemination, Exploitation and Sustainable plan (DESP)" Reviewed and approved the nonuniversity capacity assessment report (WP1-D1.4) Evaluated document for the following course modules Tasks, templates and QCMR reports. Quality Control and Monitoring Board Report (QCMBR) for the period January 2021 to July 2021: https://bit.ly/3LN2xZX Consolidated review report for WP1-
 Communication and People Skills Development (Module 2) Innovative Teaching and Learning Methods (Module 3) Applications of Optimization and Technology in Value Chain (Module 7) Consolidated review report for WP1- D1.4. Consolidated review report for WP1- and M10

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				 Innovative Product Design and Development (Module 9) Data Analytics (Module 10) Prepared training evaluation reports Vol 1 (Period Dec 2021-Mar 2022) Vol 2 (Period Apr 2022-Jul 2022) Reviewed and approved a capacity training execution plan (CTEP), subject to correction Prepared training evaluation report (training in Portugal). Prepared training evaluation report (of the Innovative Teaching and Learning Methods in MIC, Ireland). 	 Training evaluation report for period Dec 2021-Mar 2022. (QD-TER-V1) https://bit.ly/39HoLPA Quality Control and Monitoring Report (QCMR) https://bit.ly/3OwixR5 Draft training evaluation report (training in Portugal). Draft training evaluation report (the Innovative Teaching and Learning Methods in MIC, Ireland).
4.3	Inviting independent external evaluation of the project results	Oct 2021	All partners and External evaluator	 Prepared a process for selection of an external evaluator Reviewed the candidates proposed by PC Recommended the selected candidate to PEC Invited the selected external auditor Prepared contract for the external audit Facilitated the external evaluation process (handling the questionnaires). Organized with PC the audit interview for external auditor. Reviewed the evaluation report 	Consolidated review results of the procedure: https://bit.ly/3901nfu Procedures for Independent External Evaluation for the Project Results: https://bit.ly/3vLZHz3 Assessment results https://bit.ly/3P09ycc

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Midway audit cond	I the external
external evaluator https://bit.ly/3d4N	
Midway external q monitoring report.	-

^{**} if it is still ongoing, please put "-".

Activities to be carried out to achieve this outcome (before the end of the project)

Task No	Task Title	Start date	End date#	Place/ Partners involved	Description of the activity carried out	Specific and measurable indicators of achievement
4.2	Implementing the internal quality control and monitoring of the project	Dec 2020	Nov 2023	All partners	 Monitor the project activities Execute quality control of all deliverables according to the proposal until the end of the project. 	 Updated quality monitoring report as Link to the file: https://bit.ly/37mCwlu Consolidated report of QCMB using
						Deliverable Evaluation Template

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4.3	Inviting independent external evaluation of the project results	Nov 2021	Nov 2023	All partners and External evaluator	 Draft a contract between the external evaluator and the project Facilitate the external evaluation process Midway external quality monitoring report. Final external quality monitoring report. 	,
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[#] according to the proposal

Corrective Actions **

Task No	Task Title	Start date	End date*	Place/ Partners involved	Description of the activity carried out	Specific and measurable indicators of achievement
n/a	n/a				•	

^{**}Only when corrective actions are needed.

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

- For WP4 a revision was proposed compared to the initial plan. WP 4. Task 4.1 Quality Control and Monitoring System, start date. 4.1 -Feb 1, 2021and closing date June 30, 2021
- External financial audit will be no longer required. All partners will be ask to provide internal audits.



Reinforcing Non-University Sector at the Tertiary Level in Engineering and Technology to Support Thailand Sustainable Smart Industry



Title and reference number of the workpackage (WP)	WP5-Dissemination and Exploitation of Project Results			
WPL: Tuangyot Supeekit (MU)	Co-WPL: Pisut Koomsap (AIT)	Reporting period: September 30, 2022		

Indicators of achievement and	Dissemination, Exploitation and Sustainable plan is prepared by M1.
or/performance as indicated in the	 A project website is created and publicly available from M1.
project proposal	• Online registration form for trianees is created by M2.
	 A complete list of registered trainees from Rajabhat Universities is finalised by M4.
	• Dissemination materials will be available from M1.
	 Availability of publications regarding project outputs in professional journals, conference proceedings and social media from M18.
	• Training centres and training networks with 80 members are established by M36.
	 Public seminars are organised at the beginning of project years; M1, M13, M24.
	• Final conference with project presentation from partners is arranged in M35.

Status of Deliverables*

Delivera	Deliverable Title						
ble No		Preparing	Executing	Execution complete	Report to QCMB	Report to PEC	Officially Complete
Dev5.1	A Dissemination,	Υ	Υ	Υ	Υ	Υ	Υ
	Exploitation and						
	Sustainable plan (DESP)						
Dev5.2	A project website	Υ	Υ	N	N	N	N
Dev5.3	A list of registered trainees from the non-university sector at tertiary level in Thailand	Υ	Y	N	NA	NA	N
Dev5.4	Dissemination materials	Υ	Y	N	N	N	N



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Delivera	Deliverable Title	Status (Y/N/NA)						
ble No		Preparing	Executing	Execution complete	Report to QCMB	Report to PEC	Officially Complete	
Dev5.5	Publications in professional journals, newspapers, magazines, brochures and social media	Υ	Y	N	N	N	N	
Dev5.6	A list of the members of the Innovative Teaching and Learning Centre for Thailand Sustainable Smart Industry	Y	N	N	NA	NA	N	
Dev5.7	Dissemination events	Y	Υ	N	NA	NA	N	
Dev5.8	A dissemination- sustainability conference	N	N	N	NA	NA	N	

^{*}Please list all deliverables of the WP.

Activities carried out to date to achieve this result:

Task No	Task Title	Start date	End date**	Place/ Partners		Description of the activity carried out	Specific and measurable indicators of achievement
		uate	uate	involved			acmevement
Task 5.1	Development of a	Apr	Jan 23,	All partners	•	Discussed about activities	An official DESP
	Dissemination,	23,	2022		•	Drafted a DESP	https://bit.ly/3BvrBC3
	Exploitation and	2021			•	Reviewed the plan	
	Sustainable plan				•	Submitted the DESP to QCMB	
					•	Revised the DESP according to QCMB's	
						feedback	
					•	Submitted the revised DESP to QCMB	





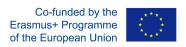
Task No	Task Title	Start date	End date**	Place/ Partners involved	Description of the activity carried out Specific and measurable indicators of achievement
					Revised DESP as per QCMB comments and submitted to PEC for approval
Task 5.2	Creating a project website and maintaining it throughout the project lifetime to support the dissemination strategy, and communication and collaboration among partners	Jan 12, 2021	-	AIT	 Designed, created and launched both the project website and Member Space (internal website for the project's members) Transformed MSIE 4.0 Facebook to ReCap 4.0 Facebook and keeping it up to date with the activites of ReCap 4.0 Created a YouTube Channel for ReCap 4.0 Updating contents to keep these communication channels up to date. Updating the website with short articles about Industry 4.0 and EU consortium partners The project website: https://lbit.ly/3FkQA (Permission is required to access the member space) Facebook: ReCap4Thailand https://bit.ly/3sfMGeJ YouTube Channel: https://bit.ly/388mdcj
Task 5.3	Inviting non-university sector to participate in the training program and preparing for online training registration	Dec 22, 2020	-	AIT, PSU	 Visited Nakorn Pathom Rajabhat University in December 2020 to introduce the project to the administration of the Faculty of Science and Technology and invite them to send their faculty members to participate in the competence development training program The report on the visit to promote the project and invite the target teaching staff is available at https://bit.ly/3BweAls Online registration form available via the project website https://bit.ly/3OZEEk3





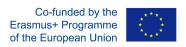
Task No	Task Title	Start date	End date**	Place/ Partners involved	Description of the activity carried out		Specific and measurable indicators of achievement	
					•	Attended the 31st meeting of the Council of the Industrial Technology Deans of Rajabhat Universities in March 2021 to introduce the project and invite them to send their faculty members to participate in the training program Visited Nakorn Si Thammarat Rajabhat University, Songkla Rajabhat University and Suratthani Rajabhat University to introduce the project to the faculty members of the Faculty of Industrial Technology and the Faculty of Science and Technology and invite them to participate in the training program Created an online registration for the teaching staff to register for training Monitoring, responding, and updating the registration Organized two meetings and presented the ReCap 4.0 Competence Development program to trainees in the Central and Southern regions. The activity has been on hold for the other two regions due to the third wave of the COVID-19 pandemic. Prepared and sent official invitation letters to 36 trainees in the Central	•	Information Session for Central Region https://bit.ly/38R87vY Tentative lists of trainees from Rajabhat universities (150 trainees as of 15 June 21 for initial registration) Some visits were postponed from the previous scheduled at beginning of January 2022 due to the emergence of Omicron at the end of December 2021





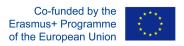
Task No	Task Title	Start date	End date**	Place/ Partners	Description of the activity carried out	Specific and measurable indicators of achievement
				involved	region and 12 trainees in the Southern region Contacting Rajabhat Universities in the North and Northeastern Scheduled a visit to the Rajabhat Universities in the North for promotion Visited Nakhon Sawan Rajabhat University to promote ReCap 4.0 project and invite the faculty members to participate in our competence development training program. Visited Lampang Rajabhat University to promote ReCap 4.0 project and invite the faculty members to participate in our competence development training program as well as prepare training program as well as prepare training in Northern region Visited Rajamangala University of Technology Isan Surin Campus, Surindra Rajabhat University, and Ubon Ratchathani Rajabhat University to promote ReCap 4.0 project and invite the faculty members to participate in our	





Task No	Task Title	Start date	End date**	Place/ Partners involved	Description of the activity carried out	Specific and measurable indicators of achievement
Task 5.4	Production of dissemination materials	Jan 12, 2021	-	All partners	 competence development training program Conducted online sessions for Northeastern region as a group as well as for individual universities, including Nakhon Ratchasima Rajabhat University, Rajabhat Maha Sarakham University, Loei Rajabhat University and Kalasin University Promoting Training Modules: Innovative Teaching and Learning Methods (ITM) and Data Analytics (DA) Created a poster and distributed to WP5 members for dissemination and post on their universities' websites. Created a flyer and distributed to visited Rajabhat Universities Created contents about the project's activities for the project website, Facebook and YouTube Channel Created a project introduction video Created the first issue of E-newsletter Created the second issue of E-newsletter Creating ReCap 4.0 Virtual Exhibition 	 A poster published in Production Engineering Archive Journal (April 2021) A flyer (same format as poster) https://bit.ly/3Dk5Jei Contents on the project website, Facebook and YouTube Channel A VDO clip is available on the Virtual Exhibition. E-newsletter issue1 https://bit.ly/3yhR1ll E-newsletter issue2 https://bit.ly/3Ogvsa3 ReCap 4.0 Virtual Exhibition https://bit.ly/3RPs9YS





Task No	Task Title	Start date	End date**	Place/ Partners involved		Description of the activity carried out	Specific and measurable indicators of achievement
Task 5.5	Publications in professional journals, newspapers, magazines, brochures and social media	Apr 15, 2021		MIC, AIT, KMUTNB	•	Introduced the project on the university website (MIC), and local newspapers Submitted manuscript on a finding from WP1 will be published in an Applied Science and Engineering Progress Journal A development of a toolkit for training on course design has been presented at the 29 th International Conference on Transdisciplinary Engineering in July 2022. It will appear in the conference proceedings. The extended version has been invited for a journal publication.	Report on publications https://bit.ly/3VVN5Ad
Task 5.7	Organizing dissemination events with relevant stakeholders	Mar 1, 2021	-	AIT, MU	•	Disseminated the project information and the training program in twenty events. It has been done both in person and online in various occasions. We organized some of the dissemination events and invited to participate in the others. Contacted speakers and arranged the first dissemination event in March 2021 "Strengthening Rajabhat University, Local Driving Mechanism, to Support Sustainable Growth of Thailand	The report page on the dissemination events https://bit.ly/3xfv05t Quick links to a few events The first dissemination event (Online) https://youtu.be/g4gU5GZU8EM Project presentation at QPI conference https://bit.ly/3vKSb7I The SHARE 14th Policy Dialogue on "The Contribution of Higher



Reinforcing Non-University Sector at the Tertiary Level in Engineering and Technology to Support Thailand Sustainable Smart Industry



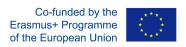
Task No	Task Title	Start date	End date**	Place/ Partners involved	Description of the activity carried out	Specific and measurable indicators of achievement
						Education Partnerships in Southeast Asia towards the Achievement of the Sustainable Development Goals 2030" https://bit.ly/3yaXNck
5.8	Organizing the final dissemination-sustainability conference	Nov 19, 2021	-	AIT	 Submitted an interest in hosting the 30th International Conference on Transdisciplinary Engineering (TE 2023) in 2023 in Thailand and awarded the right to host the conference. Surveyed potential venue Created the web submission platform on EasyChair Calling for papers and workshop sessions 	 The 30th ISTE International Conference on Transdisciplinary Engineering (TE 2023) http://te2023.ait.ac.th/ EasyChair for TE2023 paper submission https://bit.ly/3TtDZsR Call for Papers and Workshop Sessions https://bit.ly/3z9fvNH

^{**} if it is still ongoing, please put "-".

Activities to be carried out to achieve this outcome (before the end of the project)

Task No	Task Title	Start	End	Place/		Description of the activity carried out		Specific and measurable indicators of
		date	date**	Partners				achievement
				involved				
Task 5.2	Creating a project website	Nov	Nov	AIT and MU	•	Keep the website, Facebook as well as	•	Up to date project website, Facebook
	and maintaining it	2020	2023			YouTube regrading activities and results		and YouTube
	throughout the project					up to date		
	lifetime to support the							
	dissemination strategy,							





Task No	Task Title	Start date	End date**	Place/ Partners involved	Description of the activity carried out	Specific and measurable indicators of achievement
	and communication and collaboration among partners					
Task 5.3	Inviting non-university sector to participate in the training program and preparing for online training registration	Nov 2020	Feb 2021	AIT and all Thai partners	 Contact the administration and teaching staff of the non-university sector at tertiary education level in Thailand to introduce the Industry 4.0 competence development training program Invite teaching staff to participate in the training program Short list the registered trainees and submit to WP3 leader. 	A list of registered trainees
Task 5.4	Production of dissemination materials	Jan 2021	Nov 2023	All the members	 Create promotional materials. Create contents for the website, Facebook and YouTube Issue newsletter twice a year providing key project results, information regarding the project process and the training sessions as main messages 	 Poster Leaflet Newsletters (Half-yearly)
Task 5.5	Publications in professional journals, newspapers, magazines, brochures and social media	Apr 2022	Oct 2023	All the partners	 Disseminate project outputs achieved at each stage of the project in relevant professional journals, conference proceedings, newspapers, magazines, and social media Review the task every 6 months 	Publications regarding project outputs get published in professional journals, conference proceedings and social media.



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Task No	Task Title	Start date	End date**	Place/ Partners involved		Description of the activity carried out	9,	Specific and measurable indicators of achievement
Task 5.6	Setting up training network among the members of partner universities and of associated partners	Apr 2023	Oct 2023	All the partners	•	Setup training network among the members and associated partners Share information about the activities of the center	•	A list of the members of the training center
Task 5.7	Organizing dissemination events with relevant stakeholders	Nov 2020	Sep 2023	All the partners	•	Organise dissemination events such as public seminar and info days to disseminate key results of some work packages/ training programmes	•	Public seminars
Task 5.8	Organizing the final dissemination-sustainability conference	Jul 2023	Sep 2023	All the partners	•	Organise a conference Present project results, achievements, and sustainability measures	•	A conference Project presentation

[#] according to the proposal

Corrective Actions **

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

^{**}Only when corrective actions are needed.

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





•	The WP5 plan has been revised once in Mar 2021.

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Title and reference number of the workpackage (WP)	WP6- Project Management	
WPL: Pisut Koomsap (AIT)	Co-WPL:	Reporting period: September 30, 2022

Indicators of achievement and	
or/performance as indicated in the	е
project proposal	

- Approved PMCP by PEC by M1
- 7 PEC meetings are organized and decisions are implemented
- Project is implemented according to the plan. Efficient and successful project and financial management by M36
- Submission of midterm progress report by M18 and final report by M3

Status of Deliverables*

Deliver	Deliverable Title						
able No		Preparing	Executing Execution complete Report to QCMB		Report to PEC	Officially Complete	
Dev 6.1	Project management and communication plan	Υ	Υ	Υ	N/A	Υ	Υ
Dev 6.2	Kick-off and regular consortium meetings	Υ	Υ	N	N/A	Υ	N
Dev 6.3	Documents on daily project administration and coordination	Y	Υ	N	N/A	N/A	N
Dev 6.4	Midterm progress and final reports for the project	N	N	N	N/A	N	N

^{*}Please list all deliverables of the WP.

Activities carried out to date to achieve this result:





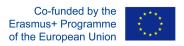
Task No	Task Title	Start date	End date**	Place/ Partners involved		Description of the activity carried out		Specific and measurable indicators of achievement
Task 6.1	Finalizing management structure	Nov 15, 2020	Sep 30, 2022	All partners	• • • • • • • • • • • • • • • • • • • •	Processed a request to change consortium members Established Project Executive Committee (PEC) Prepared 7 bilateral partnership agreements (PAs) between AIT and other seven partners Sent the PAs to all partners to review and sign Structured MSIE 4.0 consortium Identified roles and responsibilities of members Created project management flow Revised workplan for entire project after the kick-off meeting on February 2021 Established project financial management Established internal communication channels Created document templates for managing the project Completed all 7 PA and submitted to EACEA Developing Project Management and Communication Plan (PMCP)	•	changing of consortium members PEC and QCMB Submission of 7 completely signed PAs to EACEA





					 Developed Project Management and Communication Plan (PMCP) Approved PMCP by PEC Collected, prepared, and submitted documents for changing of the legal representative 		
Task 6.2	Organizing kick-off and regular meetings	Feb 21	-	All partners	 Organized online PEC meeting Organized online general meeting Organized PEC meeting at MIC during June 27-July 1, 2022 Scheduled PEC meeting on Oct 26, 2022 	•	PEC Meeting Minutes https://bit.ly/3KH9qe8
Task 6.3	Monitoring and controlling the project	Nov 20	-	All partners	 Followed up with WP leaders on the progress of the project Reminded the WPLs for submission of WP quarterly reports Had meetings with WP leaders Reviewed and gave feedback on QCMP Had a meeting with MU team on financial report Reviewed, approved and uploaded the capacity assessment execution plan on the project website Reviewed, approved and uploaded the quality control and monitoring plan on the project website Reviewed and gave feedback on Quality Control and Management Board Report 	•	Project Quarterly reports https://bit.ly/3VUiUJI PEC's approval for QCMP Feedback to QC Chair for the Quality Control and Management Board Report PEC's approval for DESP PEC's approval for the external evaluator Purchase order requests Approved the following training module Communication and People Skills Development (Module 2)





 Reviewed timesheets for partners Reviewed, approved and uploaded the dissemination, exploitation and sustainability plan (DESP) on the project website Reviewed and approved the candidate for the external evaluator Processed the purchase of equipment to setup training facilities Reviewed and approved the following modules Communication and People Skills Development (Module 2) Applications of Optimization and Technology in Value Chain (Module 7) Innovative Product Design and Learning Methods (Module 3) Applications of Optimization and Technology in Value Chain (Module 7) Innovative Product Design and Development (Module 9) Meeting with the external evaluator for midway evaluation Approval of the midterm audit report Approval of the midterm audit report
 March 2022 to check facilities for conducting training for participants in the North Reviewed contract for the first external audit Facilitated the midway project evaluation by the external evaluator
Reviewed project quarterly reports



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			•	Reviewed and gave feedback on partners' financial reports		
6.4	Closing project	Aug 23	•	Prepared and submit midterm progress report	•	Submission of the midterm progress report

^{**} if it is still ongoing, please put "-".

Activities to be carried out to achieve this outcome (before the end of the project)

Task No	Task Title	Start	End	Place/		Description of the activity carried out	Specific and measurable indicators of
		date	date#	Partners			achievement
				involved			
Task 6.2	Organizing kick-off and regular meetings	Feb 21	Sep 23	All partners	•	Organize 5 regular meetings	Remaining 5 meetings are organized
Task 6.3	Monitoring and controlling the project	Nov 20	Nov 23	All partners	•	Monitor, assess and give feedback to related WPLs on the progress of tasks under their supervisions Review and give feedback on financial statement and related financial documents to the partner leaders. Remind the WPLs and partner leaders for submission of WP monthly reports and financial statements respectively Make final reviews of the remaining project outcomes approved by QCMB Update PMCP if it is necessary Upload official reports approved by PEC and financial documents passed the screen of PC on the website	WP Quarterly reports
Task 6.4	Closing project	Aug 23	Nov 23	All partners	•	Collect all documents	Submission of final report

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					 Prepare a draft of the final report Review and finalize the report Submit the final report 	
# according	g to the proposal					
Corrective	Actions **					
Task No	Task Title	Start date	End date*	Place/ Partners involved	Description of the activity carried out	Specific and measurable indicators of achievement
Task x.x					•	
•	en corrective actions are i		ince the	original pro	oposal:	
A plan ha	s been revised one time					



