RGP Pai

ERASMUS+ CBHE PROJECT

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: November 15, 2020 -			
		November 14, 2024		

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	Υ	Υ	Υ	
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	Y	Y	Y	Y	Υ	Y	



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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

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

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					ed and retested to validate the ationnaire with 43 participants ewed the results sted the questionnaire ained the final version of the ationnaire for the capacity ssment available in a Google forms.		
Task 1.3	Conducting non-university capacity assessment	June 1, 2021	June 30, 2021	Thai partners and UMinho	out the invitation to the target ps to participate on the survey. itored the number of responses and action to ensure the number was hed.	•	The survey results from 200 participants
Task 1.4	Summarize, interpret results and recommendations	July 1, 2021	Jan 20, 2022	All partners	yzed the data. eloped the final report with a mary and interpretation of the lts, and recommendations. ewed the report internally among NP1 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/	Description of the activity carried out	Specific and measurable indicators of achievement
		date	uate#	Partners involved		acnievement

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)	VP2- Sustainable Development of Industry 4.0 Competence Development Training Program				
WPL: Pisut Koomsap (AIT)	Co-WPL: Cathal de Paor (MIC)	Reporting period: November 15, 2020 -			
		November 14, 2024			

Indicators of achievement and	
or/performance as indicated in t	he
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	Υ	Υ	Υ	Υ	Υ	Υ		
	Competence								
	Development Training								
	Program								
Dev 2.2	Innovative training	Υ	Υ	Υ	Υ	Υ	Υ		
	materials for 10 modules								
Dev 2.3	A capacity training	Υ	Υ	Υ	Υ	Υ	Υ		
	assessment form								
Dev 2.4	12 Thai trainers trained in	Υ	Υ	Υ	N/A	N/A	Υ		
	program design (for								



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	higher education 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	Y	Y	Y	N/A	N/A	Y
Dev 2.6	An Innovative Teaching and Learning Center for Thailand Sustainable Smart Industry	Υ	Υ	Υ	N/A	Υ	Y

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

Activities carried out to date to achieve this result:

Task No	Task Title	Start	End	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	June 7,	AIT, KKU,	•	Prepared for the development of the	•	Overview page on the Industry 4.0
	Competence	10,	2024	MIC,UPB		Industry 4.0 Competence Development		Competence Development Training
	Development Training	2021		and		Training Program		Program
	Program			UMinho	•	Identified the experts who will develop		https://bit.ly/3xa1rCv
						and offer the 10 training modules		
					•	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





Developed a template for a syllabus Completed the module development	 https://bit.ly/3U0efFj A list of the experts https://bit.ly/3Q0pk9P
plans for 10 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 Skills Development (Module 5) Industrial Management in Industry 4.0 Era (Module 6) 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) Completed the syllabuses for 10 modules	 10 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) Learning Experience-Focused Course Design and Development (Module 1) Syllabus http://recap4.ait.ac.th/wp-content/uploads/sites/58/2024/06/D1-Syllabus-for-LEF-CDD-module.pdf
	Activities Plan





• Con mode	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 Skills Development (Module 5) Industrial Management in Industry 4.0 Era (Module 6) 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) Inpleted training activities plan for 10 Idules Learning Experience-Focused Course Design and Development (Module 1) Communication and People Skills Development (Module 2) Innovative Teaching and Learning (Module 4) Syllabus https://bit.ly/3d7Gf9l Project-Based and Problem-Based Learning (Module 4) Syllabus https://bit.ly/3xeVswc Project-Based and Problem-Based Learning (Module 4) Syllabus https://recap4.ait.ac.th/wp-content/uploads/sites/58/2023/0 4/D1-Syllabus-for-PBL-module-v02.pdf Activities Plan https://bit.ly/33TTaQle Activities Plan https://bit.ly/3d7Gf9l Activities Plan https://bit.ly/3bevswc
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Project-Based and Problem-Based	http://recap4.ait.ac.th/wp-
Learning (Module 4)	content/uploads/sites/58/2023/0
 Coaching and Mentoring Skills 	5/D2-Activities-Plan-for-PBL.pdf
Development (Module 5)	
 Industrial Management in Industry 	 Coaching and Mentoring Skills
4.0 Era (Module 6)	Development (Module 5)
 Applications of Optimization and 	Syllabus
Technology in Value Chain (Module	https://bit.ly/3XKKzwq
7)	
 Digital Manufacturing (Module 8) 	Activities Plan
 Innovative Product Design and 	https://bit.ly/3Z06mRX
Development (Module 9)	
 Data Analytics (Module 10) 	 Learning Experience-Focused
, , ,	Course Design and Development
 Submitted document to QCMB for 	(Module 1)
review and approval for 10 modules	Syllabus
Learning Experience-Focused Course	http://recap4.ait.ac.th/wp-
Design and Development (Module 1)	content/uploads/sites/58/2024/
Communication and People Skills	06/D1-Syllabus-for-IM4.0-1.pdf
Development (Module 2)	
 Innovative Teaching and Learning 	Activities Plan
Methods (Module 3)	http://recap4.ait.ac.th/wp-
Project-Based and Problem-Based	content/uploads/sites/58/2024/0
Learning (Module 4)	7/D2-Activities-Plan-for-
Coaching and Mentoring Skills	<u>IM4.0.pdf</u>
Development (Module 5)	
Industrial Management in Industry	Applications of Optimization and
4.0 Era (Module 6)	Technology in Value Chain
	(Module 7)
	Syllabus





 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) Submitted document to PEC for review and approval for 10 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 Skills Development (Module 5) Industrial Management in Industry 	https://bit.ly/3RMN27i Activities Plan https://bit.ly/3U0icK9 Digital Manufacturing (Module 8) Syllabus https://bit.ly/3k6ejpN Activities Plan https://bit.ly/3IMEClx Innovative Product Design and Development (Module 9) Syllabus https://bit.ly/3LjU6Gt Activities Plan https://bit.ly/3d2Y5dw Data Analytics (Module 10)
 Project-Based and Problem-Based Learning (Module 4) Coaching and Mentoring Skills 	Activities Plan https://bit.ly/3d2Y5dw





Task 2.2	Developing innovative training materials	Apr 27, 2021	June 7, 2024	AIT, KKU, MIC,UPB and UMinho	•	Completed training materials for 10 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 Skills Development (Module 5) Industrial Management in Industry 4.0 Era (Module 6) 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) Submitted document to QCMB for review and approval for 10 modules Learning Experience-Focused Course Design and Development (Module 1)	•	Status report on the development of training materials https://bit.ly/3QHWt72 Document uploaded on the member space for assessment for QCMB and PEC approval https://bit.ly/3MRoyHb ermission is required to access the ember space) Official course material uploaded in WP2 section on the member space and internal website for the following approved modules (https://bit.ly/3KOI45Y) Learning Experience-Focused Course Design and Development (Module 1) http://recap4.ait.ac.th/wp-content/uploads/sites/58/2024/07/LEF-CDD_Printed-Material.pdf Communication and People Skills Development (Module 2) https://bit.ly/3d8Evgc





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 Skills Development (Module 5) Industrial Management in Industry 4.0 Era (Module 6) 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) Submitted document PEC for review and approval for 10 modules Learning Experience-Focused Course Design and Development (Module 1) Communication and People Skills Development (Module 2) Innovative Teaching and Learning Methods (Module 3)	 Innovative Teaching and Learning Methods (Module 3) https://bit.ly/3eGHPiJ Project-Based and Problem-Based Learning (Module 4) http://recap4.ait.ac.th/wp-content/uploads/sites/58/2023/05/D3-Slides-for-PBL.pdf Coaching and Mentoring Skills Development (Module 5) https://bit.ly/3xvSByz Industrial Management in Industry 4.0 Era (Module 6) https://drive.google.com/drive/folders/1KgoxNyn VzM2Y0Po3qRBAyB5gZj4WWYi?usp=drive link Applications of Optimization and Technology in Value Chain (Module 7) https://bit.ly/3TXo9HI
	 https://bit.ly/3TXo9HI Digital Manufacturing (Module 8) https://bit.ly/3Edn6NF

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					 Coaching and Mentoring Skills Development (Module 5) Industrial Management in Industry 4.0 Era (Module 6) 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) 	 Innovative Product Design and Development (Module 9) https://bit.ly/3L2NtrL Data Analytics (Module 10) https://bit.ly/3Bwcdpf
Task 2.3	Developing a capacity training assessment	Feb 10, 2021	June 7, 2024	AIT, KKU, MIC, UPB and UMinho	 Developed a capacity training assessment system Completed assessment forms for 10 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 Skills Development (Module 5) 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





 Applications of Optimization and Technology in Value Chain (Module 7) Digital Manufacturing (Module 8) Innovative Product Design and 	WP2 section on the member space and internal website for the following approved modules (https://bit.ly/3KOI45Y)
Development (Module 9) • Data Analytics (Module 10)	 Learning Experience-Focused Course Design and Development (Module 1) http://recap4.ait.ac.th/wp-
 Submitted document to QCMB for review and approval for 10 modules Learning Experience-Focused Course Design and Development (Module 1) 	content/uploads/sites/58/2024/0 7/D4-Competence-Assessment- Form-for-LEF-CDD.pdf
 Communication and People Skills Development (Module 2) Innovative Teaching and Learning 	 Communication and People Skills Development (Module 2) https://bit.ly/3RX4lma
 Methods (Module 3) Project-Based and Problem-Based Learning (Module 4) Coaching and Mentoring Skills 	 Innovative Teaching and Learning Methods (Module 3) https://bit.ly/3Dlu8Ap
 Development (Module 5) Industrial Management in Industry 4.0 Era (Module 6) Applications of Optimization and Technology in Value Chain (Module 7) 	 Project-Based and Problem-Based Learning (Module 4) https://drive.google.com/file/d/1 <a 3yyizs2"="" bit.ly="" href="https://www.nchannel.com/www.nchannel.com/www.nchannel.com/ww.nchannel.c</td></tr><tr><td> Digital Manufacturing (Module 8) Innovative Product Design and
Development (Module 9) </td><td> Coaching and Mentoring Skills Development (Module 5) https://bit.ly/3YYIZs2





					 Data Analytics (Module 10) Submitted document PEC for review and approval for 10 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 Skills Development (Module 5) Industrial Management in Industry 4.0 Era (Module 6) 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)	 Industrial Management in Industry 4.0 Era (Module 6) http://recap4.ait.ac.th/wp-content/uploads/sites/58/2024/0 7/D4-NewCompetence-Assessment-Form-for-IM4.pdf Applications of Optimization and Technology in Value Chain (Module 7) https://bit.ly/3DgStau Digital Manufacturing (Module 8) https://bit.ly/3Iwz6w6 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	Nov 1, 2023	AIT, KMUTNB, KKU,MU, PSU, MIC,	 Identified the 12 Thai trainers Had a meeting with Thai trainers to explain train the trainer program Updated the list of 12 Thai trainers 	 Status report page on Train the Trainer Program https://bit.ly/3qrpfOz A updated list of the Thai trainers

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UPB and UMinho	 Project-Based and Problem-Based Learning (Module 4) Coaching and Mentoring Skills Development (Module 5) Industrial Management in Industry 4.0 Era (Module 6) Digital Manufacturing (Module 8) Data Analytics (Module 10) 	 https://bit.ly/3L8Iq99 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) Project-Based and Problem-Based Learning (Module 4) Coaching and Mentoring Skills Development (Module 5) Industrial Management in Industry 4.0 Era (Module 6) Digital Manufacturing (Module 8) 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
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Tool 2.5	Coaching the Their trains are	Eak	May	AIT	Computated Coophing of the 7 was divided	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	May 27, 2024	AIT, KMUTNB, KKU,MU, UPB and PSU	 Completed Coaching for 7 modules 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 Skills Development (Module 5) Industrial Management in Industry 4.0 Era (Module 6) Digital Manufacturing (Module 8) Data Analytics (Module 10) Online coaching for 7 modules 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 Skills Development (Module 5) Industrial Management in Industry 4.0 Era (Module 6) 	 Completed coaching activities for 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 Skills Development (Module 5) Industrial Management in Industry 4.0 Era (Module 6) Digital Manufacturing (Module 8) Data Analytics (Module 10) Teams of four trainers for all 6 modules https://bit.ly/3xa1rCv

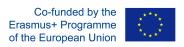
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					 Digital Manufacturing (Module 8) Data Analytics (Module 10)
					 Onsite coaching sessions for 5 modules Communication and People Skills Development (Module 2) at Mahidol Innovative Teaching and Learning Methods (Module 3) at MIC Project-Based and Problem-Based Learning (Module 4) at KMUTNB Coaching and Mentoring Skills Development (Module 5) at PSU Industrial Management in Industry 4.0 Era (Module 6) Selected teams of four trainers for all 6 modules
Task 2.6	Assessing the Thai trainers	Aug 29, 2022	Nov 2, 2024	AIT, KKU, MIC, UPB and UMinho	 Assessment of the performance of the 12 Thai trainers for 7 modules 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 Skills





Task 2.7	Setting up an Innovative	Son	Oct	AIT, KKU,		 Industrial Management in Industry 4.0 Era (Module 6) Digital Manufacturing (Module 8) Data Analytics (Module 10) 	•	Active Learning Classrooms have been
TdSK 2.7	Teaching and Learning Center for Thailand	Sep 10, 2022	31, 2024	MU, PSU and Lampang Rajabhat University (Associated Partner)	•	Set up Active Learning Classrooms for training activities A center will be located at AIT Submitted a proposal for 2024 Erasmus+ CBHE Call for proposal (TILTING) Submitted a request to AIT administration for opening of a Capacity Building Center for Human-Centric Sustainable Smart Industry (CBC 5.0). The Capacity Building Center for Human- Centric Sustainable Smart Industry aims to research in response to a paradigm shift towards a more sustainable human- centered approach by integrating human-centric principles into innovative technology to support sustainable smart industry and share with communities in both domestic and international the knowledge gained in terms of training and coaching for upskilling and reskilling and be a hub to connect academic and industry people. Visited the National Forum, Technological University Dublin, University of Limerick, Munster Technological University, and Mary	•	Active Learning Classrooms have been set up and used for training https://bit.ly/3L8EqWq AIT administration approved the request for opening CBC 5.0 SCG provided financial support for a 100+ for more pilot project

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	Immaculate College to learn about teaching and learning in higher education in Ireland to support the establishment of our center Sought financial support for a 100+ for more pilot project to build and deliver 30 3D printers to schools in pilot area. Preparing training module on Digital Twin Opened account for the center Submitted a proposal for a call on the Research-Practice Partnership Grant program to the Spencer Foundation
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^{**} 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 involved		achievement
					•	•

[#] 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					•	



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



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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.

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



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)	WP3-Capacity training for non-university sector at tertiary level in Thailand		
WPL: Thanate Ratanawilai (PSU)	Co-WPL: Kanchana Sethanan (KKU)	Reporting period: November 15, 2020 -	
		November 14, 2024	

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

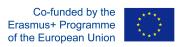
Status of Deliverables*

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

^{*}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 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	•	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)
					•	 Scheduled training for Central region for 10 modules Learning Experience-Focused Course Design and Development (Module 1) Communication and People Skills Development (Module 2) Innovative Teaching and Learning Methods (Module 3) 	•	Training activities scheduled for Central region Module 1 on 27-29 May 2024* Module 1 on 24-26 July 2024 Module 1 on 6-8 September 2024* Module 2 on 13-15 December 2021* Module 2 on 11-13 March 2022





Project-Based and Problem-Based Learning (Module 4) Coaching and Mentoring Skills Development (Module 5) Industrial Management in Industry 4.0 Era (Module 6) Applications of Optimization and Technology in Value Chain (Module 7) Digital Manufacturing (DM) (Module 8) Innovative Product Design and Development (Module 9) Data Analytics (Module 10)	 Module 2 on 19-21 January 2023** Module 2 on 26-28 January 2023** Module 2 on 22-24 November 2023** Module 3 on 9-11 June 2023 Module 4 on 23-25 June 2024 Module 5 on 26-28 June 2024 Module 6 on 10-12 July 2024 Module 7 on 18-20 March 2022 Module 8 on "30 September – 2 October 2023"*** Module 9 on 20-22 December 2022* Module 9 on 25-27 February 2022 Module 10 on 7-9 April 2023*** *Rambhai Barni Rajabhat University ** Silapakorn University *** Western Digital ***King Mongkut's University of Technology North Bangkok
for 10 modules	





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 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 Skills Development (Module 5) Industrial Management in Industry 4.0 Era (Module 6) Applications of Optimization and Technology in Value Chain (Module 7) Digital Manufacturing (DM) (Module 8) Innovative Product Design and Development (Module 9) Data Analytics (Module 10) Training activities scheduled for Southern region of Module 1 on 5-7 June 2024 Module 2 on 18-20 March 2022 Module 5 on 19-21 February 2024 Module 6 on 24-26 July 2024 Module 7 on 2-4 May 2022 (Note: Module 7 was scheduled on 25-27 March 2022 but the activity has been postponed due to the emergence of Omicron) Module 9 on 1-3 April 2022 Module 9 on 19-21 November 2022* Module 10 on 9-11 November 2022 Surat Thani Rajabhat University **Rajamangala University of Technology Srivijaya
 Learning Experience-Focused Course Design and Development (Module 1) Communication and People Skills Development (Module 2) Module 1 on 13-15 May 2024 Module 1 on 3-4 August 2024** Module 1 on 16-18 August 2024





	 Innovative Teaching and Learning Methods (Module 3) Project-Based and Problem-Based Learning (Module 4) Coaching and Mentoring Skills Development (Module 5) Industrial Management in Industry 4.0 Era (Module 6) Applications of Optimization and Technology in Value Chain (Module 7) Digital Manufacturing (DM) (Module 8) Innovative Product Design and Development (Module 9) Data Analytics (Module 10) Scheduled training program for Northeastern region for 10 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) 	 Module 2 on 17-19 June 2022 Module 3 on 31 May - 2 June 2023* Module 4 on 19-21 May 2023 Module 5 on 13-15 May 2024* Module 5 on 10-11 September 2024* Module 6 on 10-12 September 2024 Module 6 on 10-12 September 2024 Module 7 on 22-24 July 2022 Module 8 on 8-10 September 2023* Module 8 on 15-17 December 2023 Module 9 on 6-8 May 2022 Module 9 on 20-21 September 2024** Module 10 on 25-27 November 2022 Module 10 on 26-28 April 23* *Rajamangala University of Technology Lanna **Chiang Rai Rajabhat University
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 Coaching and Mentoring Skills Development (Module 5) Industrial Management in Industry 4.0 Era (Module 6) Applications of Optimization and Technology in Value Chain (Module 7) Digital Manufacturing (DM) (Module 8) Innovative Product Design and Development (Module 9) Data Analytics (Module 10) Submitted the 1st draft of Deliverable 3.1 report to QCMB Held online meetings with Thai trainers of Innovative Teaching and Learning Methods (Module 3) and Data Analytics (Module 10) Visited Faculty of Industrial Technology, Songkhla Rajabhat University to promote two upcoming modules; Innovative Teaching and Learning Methods (Module 3) and Data Analytics (Module 10) to be 	 Training activities scheduled for Northeastern region of Module 1 on 12-13 September 2024* Module 2 on 12-14 December 2022* Module 2 on 23 - 25 February 2023** Module 3 on 29-31 May 2023 Module 4 on 29 June – 1 July 2023* Module 5 on 5-7 June 2024* Module 6 on 10-12 June 2024*** Module 6 on 7-8 November 2024**** Module 7 on 14-16 November 2022 Module 8 on 25-27 October 2023*** Module 9 on 30 November - 2 December 2022 Module 10 on 18-20 January 2023* *Chaiyaphum Rajabhat University





					•	Revised the 2 nd draft of Deliverable 3.1 report to QCMB		****Ubon Ratchathani Rajabhat University
							•	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 tentative training schedule
							•	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	•	Preparing for offering the first module in the South Preparing for offering the first module in the Central Conducted 17 capacity training sessions in Central region Conducted 2 capacity training sessions in Decembers 2021 at Rambhai Barni Rajabhat University (a subgroup) Communication and People Skills Development (Module 2)	•	 A ReCap 4.0 Training Status Report https://bit.ly/3vKOwq7 Training activities with the total participants 96 in Central region. The participants of 31, 58, 10, 14, 10, 9, 15, 13, 20, and 17 for Modules 1, 2, 3, 4, 5, 6 7, 8, 9, and 10, respectively Training activities with the total participants 87 in Southern





 Innovative Product Design and Development (Module 9) Conducted 3 capacity training sessions in February and March 2022 at Mahidol University 	region. The participants of 14, 4, 34, 28, 11, 10, 13, 11, 20, and 20 for Modules 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10, respectively
 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 with the total participants 138 in Northern region. The participants of 38, 10, 35, 19, 9, 18, 10, 32, 29, and 29 for Modules 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10, respectively
 Conducted 2 capacity training sessions in January 2023 at Silapakorn University (a subgroup) Communication and People Skills Development (Module 2) Conducted 1 capacity training sessions in April 2023 at King 	 Training activities with the total participants 95 in Northeastern region. The participants of 13, 28, 10, 30, 35, 25, 32, 21, 8, and 11 for Modules 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10, respectively
Mongkut's University of Technology North Bangkok (a subgroup) Data Analytics (Module 10) Conducted 2 capacity training sessions in June 2023 at Mahidol	 Example of the ambiance during the trainings https://bit.ly/3kGUKRE
 University Innovative Teaching and Learning Methods (Module 3) Project-Based and Problem-Based Learning (Module 4) 	 A ReCap 4.0 Delivering the certificate of participations Status Report Delivering activities with the total participations 804. The





	 Conducted 1 capacity training sessions in September and October 2023 at King Mongkut's University of Technology North Bangkok (a subgroup) Digital Manufacturing (Module 8) Conducted a capacity training sessions in November 2023 at Western Digital Communication and People Skills Development (Module 2) Conducted a capacity training session in May 2024 at Rambhai Barni Rajabhat University (a subgroup) Learning Experience-Focused Course Design and Development (Module 1) Conducted 3 capacity training session in June and July 2024 at Mahidol University Learning Experience-Focused Course Design and Development (Module 1) Coaching and Mentioring Skills Development (Module 5) Industrial Management in Industry 4.0 Era (Module 6) 	participations of 96, 100, 89, 91, 65, 62, 70, 77, 77, and 77 for Modules 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10, respectively
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 Conducted a capacity training session in
September 2024 at Silpakorn University
 Learning Experience-Focused
Course Design and Development
(Module 1)
Conducted 12 capacity training sessions
for Southern region on
Conducted 4 capacity training
sessions in March, April, May, and
November 2022 at Prince of Songkla
University (PSU)
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)
Conducted 1 capacity training
sessions in November 2022 at Surat
Thani Rajabhat University (a
subgroup)
Innovative Product Design and
Development (Module 9)
Conducted 2 capacity training
sessions in March, 2023 at Prince of
Songkla University (PSU)

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	Innovative Teaching and Learning
	Methods (Module 3)
	Conducted 2 capacity training
	sessions in May, 2023 at
	Rajamangala University of
	Technology Srivijaya for a subgroup
	Project-Based and ProblemBased
	Learning (Module 4)
	Conducted 1 capacity training
	session in August 2023 at Prince of
	Songkla University (PSU)
	Digital Manufacturing (Module 8)
	Conducted 2 capacity training
	session in February and July 2024 at
	Prince of Songkla University (PSU)
	Coaching and Mentoring Skills
	Development (Module 5)
	Industrial Management in
	Industry 4.0 Era (Module 6)
	Conducted 17 capacity training sessions
	for Northern region
	Conducted 4 capacity training
	sessions in May, June, and
	November 2022 at Lampang
	Rajabhat University (LPRU)
	Communication and People Skills
	Development (Module 2)

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	Applications of Optimization and Technology in Value Chain (Module 7) Innovative Product Design and Development (Module 9) Data Analytics (Module 10) Conducted 3 capacity training sessions in May, June, August, and December 2023 at Lampang Rajabhat University (LPRU) Innovative Teaching and Learning Methods (Module 3) Project-Based and ProblemBased Learning (Module 4) Digital Manufacturing (Module 8) Conducted 3 capacity training sessions in April, May, June, August, and September 2023 at Rajamangala University of Technology Lanna (a subgroup) Innovative Teaching and Learning Methods (Module 3) Digital Manufacturing (Module 8) Data Analytics (Module 10) Conducted 3 capacity training sessions in May, June, and July 2024

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	 Learning Experience-Focused
	Course Design and Development
	(Module 1)
	 Coaching and Mentoring Skills
	Development (Module 5)
	 Industrial Management in
	Industry 4.0 Era (Module 6)
	 Conducted 2 capacity training
	sessions in August and September
	2024 at Lampang Rajabhat
	University (LPRU)
	 Learning Experience-Focused
	Course Design and Development
	(Module 1)
	 Industrial Management in
	Industry 4.0 Era (Module 6)
	 Conducted 2 capacity training
	sessions in August and September
	<mark>2024 at Chiang Rai Rajabhat</mark>
	University (a subgroup)
	 Learning Experience-Focused
	Course Design and Development
	(Module 1)
	 Innovative Product Design and
	Development (Module 9)
	 Conducted 17 capacity training sessions
	for Northeastern region
	Conducted 2 capacity training
	sessions in November 2022 at Khon

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Kaen University (KKU) for
Northeastern region on
Applications of Optimization and
Technology in Value Chain
(Module 7)
Innovative Product Design and
Development (Module 9)
Conducted 1 capacity training
sessions in November 2022 at
Chaiyaphum Rajabhat University for
a subgroup of Northeastern region
on
Communication and People Skills
Development (Module 2)
Conducted 1 capacity training
sessions in January 2023 at
Chaiyaphum Rajabhat University for
a subgroup of Northeastern region
on
Data Analytics (Module 10)
Conducted 1 capacity training
· · · · · · · · · · · · · · · · · · ·
sessions in May 2023 at Khon Kaen
University (KKU) for Northeastern
region on
Innovative Teaching and Learning Matheda (Madula 2)
Methods (Module 3)
Conducted 2 capacity training
sessions in February and July 2023 at
Kalasin University for a subgroup of
Northeastern region on

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Communication and People Skills
Development (Module 2)
 Project-Based and Problem-
Based Learning (Module 4)
Conducted 2 capacity training
sessions in May and October 2023
at Rajamangala University of
Technology Isan for a subgroup of
Northeastern region on
Applications of Optimization and
Technology in Value Chain
(Module 7)
Digital Manufacturing (Module 8)
Conducted 1 capacity training
sessions in June and July 2023 at
Chaiyaphum Rajabhat University for
a subgroup of Northeastern region
on
 Project-Based and Problem-
Based Learning (Module 4)
Conducted 1 capacity training
sessions in October 2023 at
Rajamangala University of
Technology Isan for a subgroup of
Northeastern region on
Digital Manufacturing (Module 8)
Conducted 2 capacity training cossion in June and September 2024
session in June and September 2024
at Chaiyaphum Rajabhat University

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for a subgroup of Northeastern
region on
 Learning Experience-Focused
Course Design and Development
(Module 1)
Coaching and Mentoring Skills
Development (Module 5)
Conducted a capacity training
session in June 2024 at Rajamangala
University of Technology Isan for a
subgroup of Northeastern region on
Industrial Management in
Industry 4.0 Era (Module 6)
 Conducted 2 capacity training
sessions in September and
November 2024 at Ubon
Ratchathani Rajabhat University for
a subgroup of Northeastern region
 Coaching and Mentoring Skills
Development (Module 5)
 Industrial Management in
Industry 4.0 Era (Module 6)
Delivered the certificate of participations
for
 Learning Experience-Focused Course
Design and Development (Module 1)
Communication and People Skills
Development (Module 2)

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					 Applications of Optimization and Technology in Value Chain (Module 7) Digital Manufacturing (Module 8) Innovative Product Design and Development (Module 10) Conducting a ReCap 4.0 Coaching sessions for 4 Modules Learning Experience-Focused Course Design and Development (Module 1) Project-Based and Problem-Based Learning (Module 4) Coaching and Mentioring Skills Development (Module 5) Digital Manufacturing (Module 8)
Task 3.4	Assessing trained capacity	July 21	Nov 24	AIT, KMUTNB, KKU, MU and PSU	 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 Completed training and coaching activities for all 10 modules. Completed assessing the training and coaching sessions

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

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



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



Та	isk 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

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:

- 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.





ARGP 1

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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: November 15, 2020 -
		November 14, 2024

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

- WP4-4.1 A quality control and monitoring system (M1)
- WP4-4.2 Internal quality control and monitoring (on a regular basis until the end of the project)
- 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	Υ	Y	Y	Y	Y	
4.2	Internal quality control and monitoring (on a regular basis until the end of the project)	Y	Y	Y	Y	Υ	Y	
4.3	External quality control and monitoring	Υ	Υ	Υ	Υ	Υ	Υ	
4.4	External financial audit	N/A	N/A	N/A	N/A	N/A	N/A	

^{*}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		Description of the activity carried out		Specific and measurable indicators of achievement
				involved				
4.1	Developing a quality	Feb 1,	Sep	All partners	•	Developed a QCMP and supporting	•	An official QCMP
	control and monitoring system	2021	13, 2021			Quality Management System templates		https://bit.ly/3w1ODN4
					•	Reviewed and approved the contents of the QCMP by QCMB	•	The Quality Management System templates drafts are available on the ReCap4.0 Project Portal:
					•	Revised the QCMP according to the project management flow given by PC., approved Project Proposal and the ReCap 4.0 Erasmus Projects Overview.		https://bit.ly/38Y0Uud
					•	Submitted to PEC for approval.		
					•	Revised QCMP per PEC comments		
					•	Submitted to PEC for approval		
4.2	Implementing the internal	Mar	Nov	All partners	•	Updated data of the task deadlines,	•	Consolidated Quality Control and
	quality control and	11,	14,			responsible and the current stage of WP's		Monitoring Report (QCMR)
	monitoring of the project	2021	2024			in the Quality Control and Monitoring		https://bit.ly/3Z6sHgP
						Template (QCMR).		
								QCMR Report (Final):
								https://drive.google.com/file/d/1-
								koKdglWDnBLpVzAfFvwTychW386Po8
								<u>J/view?usp=drive_link</u>





Reviewed and approved the contents of deliverable, "WP1-1.1 A capacity assessment execution plan" 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 monitoring activities and adapting the necessary templates. Data collection and work for drafting the second consolidated QCMR- Quality Control and Monitoring Report Prepared 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 revised version of "WP5-5.1 A Dissemination, Exploitation and Sustainable plan (DESP)" Reviewed and approved the revised version of "WP5-5.1 A Dissemination, Exploitation and Sustainable plan (DESP)" Reviewed and approved the revised version of "WP5-5.1 A Dissemination, Exploitation and Sustainable plan (DESP)" Reviewed and approved the revised version of "WP5-5.1 A Dissemination, Exploitation and Sustainable plan (DESP)" Reviewed and approved the revised version of "WP5-5.1 A Dissemination, Exploitation and Sustainable plan (DESP)" Reviewed and approved the reviewed report (The consolidated deliverable evaluation template) for the deliverable WP1-1.1 The consolidated reviewed report (The consolidated deliverable evaluation template) for the deliverable WP1-1.1 The consolidated reviewed report (The consolidated reviewed report (The consolidated deliverable evaluation template) for the deliverable WP1-1.1 The consolidated deliverable evaluation template) for the deliverable WP1-1.1 The consolidated deliverable evaluation template) for the deliverable well-in the deliverable
• Communication and People Skills Development (Module 2) Development (Module 2) 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) Prepared training evaluation reports Vol 1 (Period Dec 2021-Mar 2022) Vol 2 (Period Apr 2022-Jul 2022) Vol3 (MIC, Ireland, June-July 2022) Vol4 (University of Minho, Braga, Portugal, Sep 2022) Vol.5 (Nov 2022-Jan 2023) Vol6 (November 2022 – May 2023) Reviewed and approved a capacity training execution plan (CTEP), subject to correction 	 Consolidated reports for course modules WP2 https://bit.ly/3KfM4jg Consolidated review report for WP3-3.1. Training evaluation report for period Dec 2021-Mar 2022. (QD-TER-V1) https://bit.ly/3IMyCJq Training Evaluation Report, vol5 https://drive.google.com/file/d/1MDe UgomYKzZyL4WGhXDkdqokRC5ooM7 g/view?usp=share link Consolidated review report for Training Evaluation Report, vol5 https://drive.google.com/file/d/1Qq4 hGw m2cGaZRs46GNXDRfYuC6SqZ3d /view?usp=share_link QCMR Report: https://drive.google.com/drive/folder s/185wgj64LzL6-GoZR4lneWLbQ28_8zB1l?usp=drive_li
 Created and reviewed a form for Project Impact Evaluation (Thai Trainees' 	https://drive.google.com/drive/folders/1LY83dsTM4xq- O93xx5YHBZ6eVglH_rSR?usp=sharing

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	Completitive and Improper Evaluation	T
	Capability and Impact Evaluation Questionnaire).	Draft Training Evaluation Report, vol6
	Questionnaire).	 https://drive.google.com/drive/folder
	Send out Thai Trainees' Capability and	s/1E0kURbzZci2Ymdr5A3YkchLsSEYe
	Impact Evaluation Questionnaire.	P T?usp=drive link
		 https://drive.google.com/drive/folder
		s/1hMkzkiZJfamr_5iUCEDx3YJMXsI2A
	C. In a to the a Tractation E. al. attention Beauty	Kwm?usp=drive_link
	 Submit the Training Evaluation Report, vol 7 to PC. 	 https://drive.google.com/drive/folder
	VOI / to PC.	s/1ZUKY27BjlXXq3tnFyswSr4SsaPy1eV
		uY?usp=drive link
	Prepared the Project Impact Report.	
		• https://drive.google.com/drive/folder
		s/1iz989Ym4bheB1qFzrLySqap-
		3Vvzuctk?usp=sharing
	Joined the project meeting and observed	
	coaching sessions in Portugal.	 https://drive.google.com/drive/folders/1ZUKY27BjlXXq3tnFyswSr4SsaPy1eV
		uY?usp=drive link
		dr. usp-unve_mix
	Review course material for M1:	
		• https://drive.google.com/drive/folder
		s/1iz989Ym4bheB1qFzrLySqap-
		3Vvzuctk?usp=sharing
	Review course material for M6:	

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	 Prepared the Project Impact Report Prepared Training Evaluation Report Vol. 8 Prepared Training Evaluation Report Vol. 9 	 https://drive.google.com/drive/folder s/1ZeY64F4BTCm1Zu8ly3- WqitA8qZTyOL8?usp=drive_link https://drive.google.com/drive/folder s/1ZeY64F4BTCm1Zu8ly3- WqitA8qZTyOL8?usp=drive_link https://drive.google.com/drive/folder s/1iz989Ym4bheB1qFzrLySqap- 3Vvzuctk?usp=sharing
		 https://drive.google.com/drive/folder s/1l84p7jtNGkYcz7mU6QMoybwtjiyo HAEL?usp=drive_link Project Impact Report https://drive.google.com/file/d/1Yu9 N4gO4gOd_Wzrz6fwiVmjsEPhWhTj5/ view?usp=drive_link
		 Training Evaluation Report vol.9 https://drive.google.com/file/d/1aX9 wSSX-





4.3	Inviting independent external evaluation of the project results	Oct 2021	Nov 14, 2024	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 Helped PC to prepare the midterm report. Accompanied the external evaluator to the project meeting and coaching sessions in Portugal. 	•	hLpmNsWD3E6K3rAyVQFrMr4/view? usp=drive_link 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 Contract signed between the legal representative and the external evaluator. Midway audit conducted by the external evaluator https://bit.ly/3d4NoHr Midway external quality control and monitoring report.
					to the project meeting and coaching	•	· · · · · · · · · · · · · · · · · · ·
						•	A contract for the external evaluator. https://drive.google.com/file/d/1mvw



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



external evaluato	s/1QjNZd2xtT5YVCSi8K- 8g4C NcGbq P-4?usp=drive link ernal evaluator's https://drive.google.com/file/d/10X0 Aqafj - 4fJ8BPwIUJmdUtDKzE74Kj/view?usp=
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^{**} 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

Corrective Actions **



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
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: November 15, 2020 -	
		November 14, 2024	

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



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



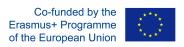
Delivera	Deliverable Title	Status (Y/N/NA)									
ble No		Preparing	Executing	Execution complete	Report to QCMB	Report to PEC	Officially Complete				
Dev5.4	Dissemination materials	Υ	Y	Y	N/A	N/A	Y				
Dev5.5	Publications in professional journals, newspapers, magazines, brochures and social media	Y	Y	Y	N/A	N/A	Y				
Dev5.6	A list of the members of the Innovative Teaching and Learning Centre for Thailand Sustainable Smart Industry	Y	Y	Y	N/A	N/A	Y				
Dev5.7	Dissemination events	Υ	Υ	Y	N/A	N/A	Υ				
Dev5.8	A dissemination- sustainability conference	Υ	Y	Y	N/A	N/A	Y				

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

Activities carried out to date to achieve this result:

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





Task No	Task Title	Start date	End date**	Place/ Partners involved	Description of the activity carried out Specific and measurable indicators of achievement
					 Revised the DESP according to QCMB's feedback Submitted the revised DESP to QCMB Revised DESP as per QCMB comments and submitted to PEC for approval Drafting detailed exploitation plan Revised detailed exploitation plan as per PEC's comments. Submitted the revised exploitation plan to PEC.
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	Nov 14, 2024	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://recap4.ait.ac.th/ Member Space: https://bit.ly/3FkQAIT (Permission is required to access the member space) Facebook: ReCap4Thailand https://bit.ly/3sfMGeJ YouTube Channel: https://bit.ly/388mdcj





Task No	Task Title	Start date	End date**	Place/ Partners involved	Description of the activity carried out Specific and measurable indicators of achievement
Task 5.3	Inviting non-university sector to participate in the training program and preparing for online training registration	Dec 22, 2020	Nov 14, 2024	AIT, PSU, MU	 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 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 invite them to participate in the training program Created an online registration for the teaching staff is available at https://bit.ly/3BweAls Online registration form available via the project and invite the target teaching staff is available at https://bit.ly/3BweAls 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 involved		Description of the activity carried out	Specific and measurable indicators of achievement
					•	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 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	





Task No	Task Title	Start date	End date**	Place/ Partners involved	Description of the activity carried out	Specific and measurable indicators of achievement
					 as prepare training room and facilities for the 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 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) Visited Rajamangala University of Technology Krungthep to promote ReCap 4.0 project and invite the faculty members to participate in our competence development training program 	





Task No	Task Title	Start date	End date**	Place/ Partners involved		Description of the activity carried out	Specific and measurable indicators of achievement
					•	Conducted online session for Rajamangala University of Technology Suvarnabhumi, Suphanburi Campus to promote ReCap 4.0 project and invite the faculty members to participate in our competence development training program Conducted online session for College of Logistics and Supply Chain, Suan Sunandha Rajabhat University to promote ReCap 4.0 project and invite the faculty members to participate in our competence development training program. Visited Faculty of Education, Rambhai Barni Rajabhat University (RBRU) to provide further information about the project and invited them to join competence development training program. Promoting Training Module: Digital Manufacturing (DM) Conducted online session for Rajamangala University of Technology Rattanakosin, Salaya Campus 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		Description of the activity carried out	Specific and measurable indicators of achievement
				involved			
						competence development training program	
					•	Contacting Chandrakasem Rajabhat University (Lopburi province) for ReCap4.0 information session	
					•	Promoting Training Module: Coaching and Mentoring Skills Development	
					•	Contacting Thepsatri Rajabhat University (Lopburi province) for ReCap4.0 information session	
					•	Conducted online session for the Faculty of Industrial Technology, Thepsatri	
						Rajabhat University (Lopburi province)to promote ReCap 4.0 project and invite the faculty members to participate in our	
						competence development training program	
					•	Promoting Training Module: Learning Experience- Focused Course Design and	
						Development and Industrial Management in Industry 4.0 Era	
Task 5.4	Production of dissemination materials	Jan 12, 2021	-	All partners	•	Created a poster and distributed to WP5 members for dissemination and post on their universities' websites.	 A poster published in Production Engineering Archive Journal (April 2021)
					•	Created a flyer and distributed to visited Rajabhat Universities	A flyer (same format as poster) https://bit.ly/3Dk5Jei





Task No	Task Title	Start date	End date**	Place/ Partners involved		Description of the activity carried out	9,	Specific and measurable indicators of achievement
					•	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 Created ReCap 4.0 Virtual Exhibition Created the third issue of E-newsletter Created posters for the training programs: Innovative Teaching and Learning, Project-based Learning, Digital Manufacturing. Created the fourth issue of E-newsletter Created X-stands and posters to present the training programs for the mini exhibition at the 30th International Conference on Transdisciplinary Engineering (TE2023) Created the fifth issue of E-newsletter Created posters for the final dissemination events at 3 locations	•	Contents on the project website, Facebook and YouTube Channel A VDO clip is available on the Virtual Exhibition. E-newsletter issue1 https://bit.ly/3yhR1II E-newsletter issue2 https://bit.ly/3Ogvsa3 E-newsletter issue 3 https://bit.ly/417WiYO E-newsletter issue4 http://bit.ly/3rezKZA E-newsletter issue5 http://bit.ly/45BHZyu E-newsletter issue6 https://bit.ly/4evmJhU ReCap 4.0 Virtual Exhibition https://bit.ly/3RPs9YS
Task 5.5	Publications in professional journals, newspapers, magazines,	Apr 15, 2021	Nov 14, 2024	All partners	•	Introduced the project on the university website (MIC), and local newspapers Manuscript on a finding from WP1 "Analysis of Teacher's Competences for	•	Report on publications https://bit.ly/3VVN5Ad "Analysis of Teacher's Competences





Task No	Task Title	Start date	End date**	Place/ Partners involved	Description of the activity carried out	Specific and measurable indicators of achievement
	brochures and social media				 Industry4.0 subjects" has been published in Applied Science and Engineering Progress, Vol.16, No.4, 2023. A development of a toolkit for training on course design has been presented at the 29th 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. The extended version of the toolkit for training manuscript; "Student Learning Journey Map (SLJM): an instructional design process and toolkit to support constructive enhancement" has been published in Product: Management and Development Vol.20, No.1, 2022. Active Learning in Engineering Education: Case Study in Mechanics for Engineering presented at the 30th International Conference on Transdisciplinary Engineering in July 2023. Data Analytics for Admission Process: Bachelor of Engineering Program presented at the 30th International 	for Industry4.0 subjects" https://doi.org/10.14416/j.asep.202 2.09.005 • "Student Learning Journey Map (SLJM)" http://dx.doi.org/10.4322/pmd.2022. 019 • Publications in the TE2023 proceedings http://recap4.ait.ac.th/our- presentations-at-te2023/





Task No	Task Title	Start date	End date**	Place/ Partners involved	Description of the activity carried out	Specific and measurable indicators of achievement
					 Conference on Transdisciplinary Engineering in July 2023 Development of Collaborative Multi- Robotics Assembly System with Digital Twin Approach presented at the 30th International Conference on Transdisciplinary Engineering in July 2023 Digital Manufacturing Pilot Study for Stepping Towards Mixed Reality Applications in Tertiary Education presented at the 30th International Conference on Transdisciplinary Engineering in July 2023 Design and Development of a Tool for Measuring Learning Outcomes in a Manufacturing Engineering Program Based on Outcome-Based Education presented at the 30th International Conference on Transdisciplinary Engineering in July 2023. Industrial Management for Industry 4.0 – Simulation System to Support Learning of Opportunities and Challenges of Dealing with Real-Time Data presented at the 30th International Conference on 	





Task No	Task Title	Start date	End date**	Place/ Partners involved		Description of the activity carried out	Specific and measurable indicators of achievement
		date	date***		•	Transdisciplinary Engineering in July 2023. In Pursuit of Greater Coherence Between Learning Outcomes and Competence Development for Successful Teaching of Engineering presented at the 30 th International Conference on Transdisciplinary Engineering in July 2023 Investigating the Potential of Mixed Teaching Methods to Enhance Manufacturing Process Learning in Undergraduate Program presented at the 30 th International Conference on Transdisciplinary Engineering in July 2023 Improvement of the Mizusumashi System in an Electrical Devices Company: a Case of Transdisciplinary University-Business Cooperation	acnievement
					•	conference on Transdisciplinary Engineering in July 2023 Knowing Your Learners to Scaffolding Their Autonomy: The Perspective of Learner Capability and Perception presented at the 30 th International	





Task No	Task Title	Start date	End date**	Place/ Partners involved	Description of the activity carried out	Specific and measurable indicators of achievement
					 Conference on Transdisciplinary Engineering in July 2023 Problem-based Learning in Marketing Engineer Course: A Case Study from Industrial Engineering Curriculum presented at the 30th International Conference on Transdisciplinary Engineering in July 2023. The design of Machine Learning using Al model for searching casualty people in the Gulf of Thailand presented at the 30th International Conference on Transdisciplinary Engineering in July 2023 Ensuring Student Active Engagement in Engineering Education presented at the 31th International Conference on Transdisciplinary Engineering in July 2024 "Cultivating Employee Autonomy for Agility in the Workplace through the Lens of Bloom's Taxonomy" by Duangthida Hussadintorn Na Ayutthaya, Pisut Koomsap and Cathal de Paor will be published in International Journal of Agile Systems 	





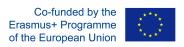
Task No	Task Title	Start date	End date**	Place/ Partners involved		Description of the activity carried out		Specific and measurable indicators of achievement
						TE2023 Leveraging Transdisciplinary Engineering in a Changing and Connected World		
Task 5.6	Setting up training network among the members of partner universities and of associated partners	Feb 1, 2023	Nov 14, 2024	All partners	•	Planned about the setup of training network among the members at the annual meeting at Prince of Songkla University Set up training network among the members of partner universities and of associated partners at AIT	•	A network among project members and participants in the ReCap 4.0 training program, a Capacity Building center, and contact information of all participants
Task 5.7	Organizing dissemination events with relevant stakeholders	Mar 1, 2021	Sep 28, 2024	AIT, MU, KMUTNB	•	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 Organized a public seminar at KMUTNB on Jan 30, 2023 Organized a ReCap4.0 mini exhibition to disseminate key results and activities of		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 Education Partnerships in Southeast Asia towards the





Task No	Task Title	Start date	End date**	Place/ Partners involved	Description of the activity carried out	Specific and measurable indicators of achievement
					WP1, train the trainers programs and train the capacity at the 30 th International Conference on Transdisciplinary Engineering during July 11-14, 2023 Organized an experience-sharing session on the participation in the ReCap 4.0 project and how the trainers implemented the knowledge gained from the trained modules, especially the innovative teaching and learning methods, to better support student learning at KMUTNB on Feb 17, 2024 Organized the final dissemination in 3 locations: Mae Fah Luang University, Suan Sunandha Rajabhat University, and Khon Kaen University	Achievement of the Sustainable Development Goals 2030" https://bit.ly/3yaXNck Final dissemination week: date and place Northern: Monday 23 rd September 2024 at Room 517, Fl. 5, "General Sampao Choosri" (E4) Building, MFU Learning Innovation Institute, Mae Fah Luang University Central: Wednesday 25 th September 2024 at Room 305, Fl. 3, College of Logistics and Supply Chain Building Suan Sunandha Rajabhat University Northern: Friday 27 th September 2024 at Conference Room 2, Fl. 9 Pianwichit Building Faculty of Engineering, Khon Kaen University Number of participants for final dissemination locations Northern: 20 lecturers Central: 39 lecturers and 24 students





Task N	Task Title	Start date	End date**	Place/ Partners involved	Description of the activity carried out Specific and measurable indicators of achievement
5.8	Organizing the final dissemination-sustainability conference	Nov 19, 2021	July 31, 2023	All partners	 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 Called for papers and workshop sessions Announced the venue and theme of the conference. Organized the 30th International Conference on Transdisciplinary Engineering (TE2023) at Dusit Thani Hotel in Hua Hin Cha Am, Thailand, during July 11-14, 2023 Planning the final dissemination sessions in September 2024. The 30th ISTE International Conference on Transdisciplinary Engineering (TE 2023) http://te2023.ait.ac.th/ EasyChair for TE2023 paper submission https://bit.ly/3r9fvNH Venue for the conference: Dusit Thani Hua Hin The 30th ISTE International Conference on Transdisciplinary Engineering (TE 2023) Call for Papers and Workshop Sessions https://bit.ly/3r9fvNH Venue for the conference:



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
						papers): 102 Number of invitations for poster presentations: 15 Number of reviewers: more than 90 Number of oral presentations: 93 Number of poster presentations: 10 Number of Workshops: 4 ReCap 4.0 Participation Number of abstracts: 22 Number of full paper invitations: 19 Number of full papers submitted: 15 Number of oral presentations (accepted full papers): 11 Number of poster presentations: 4

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

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



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
					•	•

[#] 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:

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

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ERASMUS+ CBHE PROJECT

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)	WP6- Project Management			
WPL: Pisut Koomsap (AIT)	Co-WPL: Reporting period: November 15, 2020 -			
		November 14, 2024		

Indicators of achievement and or/performance as indicated in the 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 M36

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 6.1	Project management and communication plan	Υ	Y	Y	N/A	Υ	Y				
Dev 6.2	Kick-off and regular consortium meetings	Υ	Y	Y	N/A	Υ	Y				
Dev 6.3	Documents on daily project administration and coordination	Y	Y	Y	N/A	Y	Y				
Dev 6.4	Midterm progress and final reports for the project	Y	Y	N	N/A	Y	N (Status will be updated on submission date)				

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

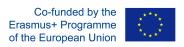
Activities carried out to date to achieve this result:





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)	•	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	Sep 27, 2024	All partners	 Organized online PEC meeting on Feb 3, 2021 Organized online general meeting Mar 10-11, 2021 Organized Project meeting at MIC during June 27-July 1, 2022 Organized online PEC meeting on Oct 26, 2022 Organized online partner leaders meeting on Nov 4, 2022 Organized online PEC meeting on Dec 14, 2022 Organized Project meeting at PSU during Jan 31, 2023 – Feb 4, 2023 Organized PEC meeting on July 15, 2023 at AIT Organized Project meeting at UMinho during March 25 – 28, 2024 Organized Project meeting at KKU on Sep 27, 2024





 Reviewed and gave feedback on Quality Control and Management Board Report 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 for midterm evaluation Project-Based and Problem-Based Learning (Module 4) Coaching and Mentoring (Module 5) Applications of Optimization and Technology in Value Chain (Module 7) Processed the purchase of equipment to setup training facilities Digital Manufacturing (Module 5) Innovative Product Design and 	Task 6.3	Monitoring and controlling the project	Nov 20	Nov 14, 2024	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	•	Project Quarterly reports https://bit.ly/3VUiUJI PEC's approval for QCMP Feedback to QC Chair for the Quality Control and Management Board
 Reviewed and approved the following modules Development (Module 9) Data Analytics (Module 10) 							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 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 for midterm evaluation Processed the purchase of equipment to setup training facilities Reviewed and approved the following	•	PEC's approval for DESP PEC's approval for the external evaluator Purchase order requests Approved the following training module





	 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 Skills Development (Module 5) Industrial Management in Industry 4.0 Era (Module 6) 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) Visited Lampang Rajabhat University in 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 and gave feedback on partners' financial reports
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ERASMUS+ CBHE PROJECT

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



			 Reviewed and approved exploitation plane Reviewed and approved the candidate for the external evaluator for final evaluation Collected data for updating financial status of the project 	n
6.4	Closing project	Aug 23	 Prepared and submit midterm progress report Drafted a request for the extension of the project eligible period Submitted a request for the extension of the project eligible period and received approval Collecting all documents Preparing a draft of the final report 	 Submission of the midterm progress report EACEA approval for a request for the extension of the project eligible period

^{**} 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 6.4	Closing project	Aug 23	Nov 23	All partners	Review and finalize the reportSubmit the final report	Submission of final report(Status will be updated on submission date)

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.						



