

## Workpackage Quarterly Report

<b>Title and reference number of the workpackage (WP)</b>	WP1- Non-University Capacity Assessment		
<b>WPL:</b> Rui Lima (UMinho)	<b>Co-WPL:</b> Athakorn Kengpol (KMUTNB)	<b>Reporting period:</b> June 22, 2022	

<b>Indicators of achievement and or/performance as indicated in the project proposal</b>	<ul style="list-style-type: none"> <li>• The capacity assessment execution plan is ready by M1</li> <li>• The capacity assessment form is available by M2</li> <li>• The assessment results are available by M6</li> <li>• Recommendations are available by M6</li> </ul>
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### Status of Deliverables\*

Deliverable No	Deliverable Title	Status (Y/N/NA)					
		Preparing	Executing	Execution complete	Report to QCMB	Report to PEC	Officially Complete
Dev 1.1	A capacity assessment execution plan	Y	Y	Y	Y	Y	Y
Dev 1.2	A capacity assessment form	Y	Y	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	Y	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 1.1	Developing a capacity assessment execution plan	Feb 1, 2021	Aug 3, 2021	All partners	<ul style="list-style-type: none"> <li>Explored the knowledge needed for the assessment form.</li> <li>Developed a capacity assessment execution plan.</li> <li>Reviewed and approved the plan by WP1 team</li> <li>Submitted the plan to QCMB for approval</li> <li>Revised the plan</li> <li>Resubmitted the plan to QCMB for approval</li> <li>Submitted the plan to PEC for approval</li> </ul>	<ul style="list-style-type: none"> <li>Official capacity assessment execution plan</li> <li><a href="https://bit.ly/3FIRc0w">https://bit.ly/3FIRc0w</a></li> </ul>
Task 1.2	Designing capacity assessment	Mar 1, 2021	June 1, 2021	All partners	<ul style="list-style-type: none"> <li>Analysed knowledge areas and sources required for the assessment form.</li> <li>Developed items for the questionnaire.</li> <li>Reviewed and approved the questionnaire's items by WP1 team.</li> <li>Developed a think-aloud procedure with 6 Thai teachers to improve understanding of the questionnaire.</li> <li>Improved the questionnaire.</li> </ul>	<ul style="list-style-type: none"> <li>An official questionnaire for the capacity assessment available in a Google forms. <a href="https://bit.ly/3FksvSb">https://bit.ly/3FksvSb</a></li> </ul>

					<ul style="list-style-type: none"> <li>Tested and retested to validate the questionnaire with 43 participants</li> <li>Reviewed the results</li> <li>Adjusted the questionnaire</li> <li>Obtained the final version of the questionnaire for the capacity assessment available in a Google forms.</li> </ul>	
Task 1.3	Conducting non-university capacity assessment	June 1, 2021	June 30, 2021	Thai partners and UMinho	<ul style="list-style-type: none"> <li>Sent out the invitation to the target groups to participate on the survey.</li> <li>Monitored the number of responses and took action to ensure the number was reached.</li> </ul>	<ul style="list-style-type: none"> <li>The survey results from 200 participants</li> </ul>
Task 1.4	Summarize, interpret results and recommendations	July 1, 2021	Jan 20, 2022	All partners	<ul style="list-style-type: none"> <li>Analyzed the data.</li> <li>Developed the final report with a summary and interpretation of the results, and recommendations.</li> <li>Reviewed the report internally among the WP1 members.</li> </ul>	<ul style="list-style-type: none"> <li>An official non-university capacity assessment report <a href="https://bit.ly/3sdwNW8">https://bit.ly/3sdwNW8</a></li> </ul>

\*\* 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 \*\*

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.

<b>Title and reference number of the workpackage (WP)</b>	WP2- Sustainable Development of Industry 4.0 Competence Development Training Program	
<b>WPL:</b> Pisut Koomsap (AIT)	<b>Co-WPL:</b> Cathal de Paor (MIC)	<b>Reporting period:</b> June 22, 2022

<b>Indicators of achievement and or/performance as indicated in the project proposal</b>	<ul style="list-style-type: none"> <li>• Approval of an Industry 4.0 Competence Development Training Program by PEC by M7</li> <li>• 10 modules complete with innovative training materials are ready by M9</li> <li>• A capacity training assessment form is approved by WP2 members by M3</li> <li>• Completion of training sessions for the 12 Thai trainers by M29</li> <li>• Completion of coaching sessions for the 12 Thai trainers by M30</li> <li>• An assessment report by M31</li> <li>• An Innovative Teaching and Learning Center for Thailand Sustainable Smart Industry</li> </ul>
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**Status of Deliverables\***

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

	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 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 10, 2021	-	AIT, KKU, MIC, UPB and UMinho	<ul style="list-style-type: none"> <li>Prepared for the development of the Industry 4.0 Competence Development Training Program</li> <li>Identified the experts who will develop and offer the 10 training modules</li> <li>Developed a template for the development plan of the 10 training modules</li> </ul>	<ul style="list-style-type: none"> <li>Presentation material on the concept of the Industry 4.0 Competence Development Training Program <a href="https://bit.ly/3sex2iV">https://bit.ly/3sex2iV</a></li> <li>A list of the experts <a href="https://bit.ly/3MODXF2">https://bit.ly/3MODXF2</a></li> </ul>

					<ul style="list-style-type: none"> <li>Conducted a meeting with the experts on how to use the template for the module development plan</li> <li>Developed a template for a syllabus</li> <li>Completed the module development plans for <ul style="list-style-type: none"> <li>Learning Experience-Focused Course Design and Development (Module 1)</li> <li>Communication and People Skills Development (Module 2)</li> <li>Innovative Teaching and Learning Methods (Module 3)</li> <li>Coaching and Mentoring (Module 5)</li> <li>Applications of Optimization and Technology in Value Chain (Module 7)</li> <li>Innovative Product Design and Development (Module 9)</li> <li>Data Analytics (Module 10)</li> </ul> </li> <li>Developing the module development plans for <ul style="list-style-type: none"> <li>Project-Based and Problem-Based Learning (Module 4)</li> <li>Digital Manufacturing (Module 8)</li> </ul> </li> <li>Completed the syllabuses for <ul style="list-style-type: none"> <li>Learning Experience-Focused Course Design and Development (Module 1)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>7 module development plans completed</li> <li>7 syllabuses completed</li> <li>Document uploaded on the internal website for assessment for QCMB and PEC approval <a href="https://bit.ly/3MRoyHb">https://bit.ly/3MRoyHb</a></li> <li>Official syllabuses and training activities plan uploaded in WP2 section on the member space for the following approved modules (<a href="https://bit.ly/3KOI45Y">https://bit.ly/3KOI45Y</a>) <ul style="list-style-type: none"> <li>Communication and People Skills Development (Module 2) Syllabus <a href="https://bit.ly/3KNmMW8">https://bit.ly/3KNmMW8</a></li> <li>Activities Plan <a href="https://bit.ly/3824MKD">https://bit.ly/3824MKD</a></li> <li>Applications of Optimization and Technology in Value Chain (Module 7) Syllabus <a href="https://bit.ly/3vLxgB4">https://bit.ly/3vLxgB4</a></li> <li>Activities Plan</li> </ul> </li> </ul>
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					<ul style="list-style-type: none"> <li>• Communication and People Skills Development (Module 2)</li> <li>• Innovative Teaching and Learning Methods (Module 3)</li> <li>• Coaching and Mentoring (Module 5)</li> <li>• Applications of Optimization and Technology in Value Chain (Module 7)</li> <li>• Innovative Product Design and Development (Module 9)</li> <li>• Data Analytics (Module 10)</li> <li>• Completed training activities plan for <ul style="list-style-type: none"> <li>• Communication and People Skills Development (Module 2)</li> <li>• Innovative Teaching and Learning Methods (Module 3)</li> <li>• Applications of Optimization and Technology in Value Chain (Module 7)</li> <li>• Innovative Product Design and Development (Module 9)</li> <li>• Data Analytics (Module 10)</li> </ul> </li> <li>• Submitted document to QCMB for review and approval <ul style="list-style-type: none"> <li>• Communication and People Skills Development (Module 2)</li> </ul> </li> </ul>	<p><a href="https://bit.ly/380e4Xz">https://bit.ly/380e4Xz</a></p> <ul style="list-style-type: none"> <li>• Innovative Product Design and Development (Module 9) Syllabus <a href="https://bit.ly/3OXEDgt">https://bit.ly/3OXEDgt</a></li> </ul> <p>Activities Plan <a href="https://bit.ly/3kIXVs5">https://bit.ly/3kIXVs5</a></p> <ul style="list-style-type: none"> <li>• Data Analytics (Module 10) Syllabus <a href="https://bit.ly/3tVx2Gu">https://bit.ly/3tVx2Gu</a></li> </ul> <p>Activities Plan <a href="https://bit.ly/3zScZfR">https://bit.ly/3zScZfR</a></p>
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					<ul style="list-style-type: none"> <li>• Innovative Teaching and Learning Methods (Module 3)</li> <li>• Applications of Optimization and Technology in Value Chain (Module 7)</li> <li>• Innovative Product Design and Development (Module 9)</li> <li>• Data Analytics (Module 10)</li> <li>• Submitted document to PEC for review and approval               <ul style="list-style-type: none"> <li>• Communication and People Skills Development (Module 2)</li> <li>• Applications of Optimization and Technology in Value Chain (Module 7)</li> <li>• Innovative Product Design and Development (Module 9)</li> <li>• Data Analytics (Module 10)</li> </ul> </li> </ul>	
Task 2.2	Developing innovative training materials	Apr 27, 2021	-	AIT, KKU, MIC	<ul style="list-style-type: none"> <li>• Started forming materials for a module on Course Design and development</li> <li>• Started forming materials for a module on Communication and People Skills Development</li> <li>• Completed training materials for               <ul style="list-style-type: none"> <li>• Communication and People Skills Development (Module 2)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Document uploaded on the internal website for assessment for QCMB and PEC approval <a href="https://bit.ly/3MRoyHb">https://bit.ly/3MRoyHb</a></li> <li>• Official course material uploaded in WP2 section on the member space for the following approved modules (<a href="https://bit.ly/3KOI45Y">https://bit.ly/3KOI45Y</a>)</li> </ul>



					<ul style="list-style-type: none"> <li>• Innovative Teaching and Learning Methods (Module 3)</li> <li>• Applications of Optimization and Technology in Value Chain (Module 7)</li> <li>• Innovative Product Design and Development (Module 9)</li> <li>• Data Analytics (Module 10)</li> </ul> <ul style="list-style-type: none"> <li>• Submitted document to QCMB for review and approval <ul style="list-style-type: none"> <li>• Communication and People Skills Development (Module 2)</li> <li>• Innovative Teaching and Learning Methods (Module 3)</li> <li>• Applications of Optimization and Technology in Value Chain (Module 7)</li> <li>• Innovative Product Design and Development (Module 9)</li> <li>• Data Analytics (Module 10)</li> </ul> </li> <li>• Submitted document to PEC for review and approval <ul style="list-style-type: none"> <li>• Communication and People Skills Development (Module 2)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Communication and People Skills Development (Module 2) <a href="https://bit.ly/3Fjj4CA">https://bit.ly/3Fjj4CA</a></li> <li>• Applications of Optimization and Technology in Value Chain (Module 7) <a href="https://bit.ly/3LQGEJx">https://bit.ly/3LQGEJx</a></li> <li>• Innovative Product Design and Development (Module 9) <a href="https://bit.ly/39ywtLb">https://bit.ly/39ywtLb</a></li> <li>• Data Analytics (Module 10) <a href="https://bit.ly/3ycp6Tu">https://bit.ly/3ycp6Tu</a></li> </ul>
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					<ul style="list-style-type: none"> <li>• Applications of Optimization and Technology in Value Chain (Module 7)</li> <li>• Innovative Product Design and Development (Module 9)</li> <li>• Data Analytics (Module 10)</li> </ul>	
Task 2.3	Developing a capacity training assessment	Feb 10, 2021	-	AIT, KKU, MIC, UPB and UMinho	<ul style="list-style-type: none"> <li>• Developed a capacity training assessment system</li> <li>• Completed assessment forms for               <ul style="list-style-type: none"> <li>• Learning Experience-Focused Course Design and Development (Module 1)</li> <li>• Communication and People Skills Development (Module 2)</li> <li>• Innovative Teaching and Learning Methods (Module 3)</li> <li>• Coaching and Mentoring (Module 5)</li> <li>• Applications of Optimization and Technology in Value Chain (Module 7)</li> <li>• Digital Manufacturing (with reservation due to a concern on covering three main topics in depth in 15 hours)</li> <li>• Innovative Product Design and Development (Module 9)</li> <li>• Data Analytics (Module 10)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Capacity training assessment form</li> <li>• 8 capacity training assessment forms for 8 modules</li> <li>• Document uploaded on the internal website for assessment for QCMB and PEC approval <a href="https://bit.ly/3MRoyHb">https://bit.ly/3MRoyHb</a></li> <li>• Official Capacity training assessment form uploaded in WP2 section on the member space for the following approved modules (<a href="https://bit.ly/3KOI45Y">https://bit.ly/3KOI45Y</a>)               <ul style="list-style-type: none"> <li>• Communication and People Skills Development (Module 2) <a href="https://bit.ly/38R49DA">https://bit.ly/38R49DA</a></li> <li>• Applications of Optimization and Technology in Value Chain (Module 7) <a href="https://bit.ly/3P0m2An">https://bit.ly/3P0m2An</a></li> </ul> </li> </ul>



					<ul style="list-style-type: none"> <li>Developing assessment form for               <ul style="list-style-type: none"> <li>Project-Based and Problem-Based Learning (Module 4)</li> <li>Industrial Management in Industry 4.0 Era (Module 6)</li> <li>Digital Manufacturing (Module 8)</li> </ul> </li> <li>Submitted document to PEC for review and approval               <ul style="list-style-type: none"> <li>Communication and People Skills Development (Module 2)</li> <li>Innovative Teaching and Learning Methods (Module 3)</li> <li>Applications of Optimization and Technology in Value Chain (Module 7)</li> <li>Innovative Product Design and Development (Module 9)</li> <li>Data Analytics (Module 10)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Innovative Product Design and Development (Module 9) <a href="https://bit.ly/3FI9cbv">https://bit.ly/3FI9cbv</a></li> <li>Data Analytics (Module 10) <a href="https://bit.ly/3ybmd5F">https://bit.ly/3ybmd5F</a></li> </ul>
Task 2.4	Training the Thai trainers	Feb 17, 2021	-	AIT, KMUTNB, KKU, MU, PSU and MIC	<ul style="list-style-type: none"> <li>Identified the 12 Thai trainers</li> <li>Had a meeting with Thai trainers to explain train the trainer program</li> <li>Updated the list of 12 Thai trainers</li> <li>Trained the trainers on               <ul style="list-style-type: none"> <li>Communication and People Skills Development (Module 2)</li> <li>Innovative Teaching and Learning Methods (Module 3)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>A updated list of the Thai trainers <a href="https://bit.ly/3kLFtPI">https://bit.ly/3kLFtPI</a></li> <li>Understanding of Thai trainers or their roles and expectation</li> <li>Training completed for               <ul style="list-style-type: none"> <li>Communication and People Skills Development (Module 2)</li> </ul> </li> </ul>

					<ul style="list-style-type: none"> <li>Data Analytics (Module 10)</li> </ul>	<ul style="list-style-type: none"> <li>Innovative Teaching and Learning Methods (Module 3)</li> <li>Data Analytics (Module 10)</li> <li>Status of the Train the Trainer Program <a href="https://bit.ly/3samMJx">https://bit.ly/3samMJx</a></li> <li>Note: the two trainings in Jan 2022 were postponed due to the emergence of Omicron at the end of December</li> </ul>
Task 2.5	Coaching the Thai trainers	Feb 20, 22		AIT, KMUTNB, KKU, MU, and PSU	<ul style="list-style-type: none"> <li>Online coaching for               <ul style="list-style-type: none"> <li>Communication and People Skills Development (Module 2)</li> <li>Innovative Teaching and Learning Methods (Module 3)</li> <li>Data Analytics (Module 10)</li> </ul> </li> <li>Scheduled onsite coaching sessions for Innovative Teaching and Learning Methods (Module 3) at MIC during June 27 – July 1, 2022</li> </ul>	<ul style="list-style-type: none"> <li>Ongoing coaching activities for               <ul style="list-style-type: none"> <li>Communication and People Skills Development (Module 2)</li> <li>Innovative Teaching and Learning Methods (Module 3)</li> <li>Data Analytics (Module 10)</li> </ul> </li> <li>Thai Trainers have been recommended by the module developers for               <ul style="list-style-type: none"> <li>Data Analytics (Module 10) Dr. Kunlapat Thongkaew (PSU) Dr. Phattarasaya Tantiwattanakul (KMUTNB)</li> </ul> </li> </ul>

\*\* 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	<ul style="list-style-type: none"> <li>Complete the module development plans for               <ul style="list-style-type: none"> <li>Project-Based and Problem-Based Learning (Module 4)</li> <li>Industrial Management in Industry 4.0 Era (Module 6)</li> <li>Digital Manufacturing (Module 8)</li> </ul> </li> <li>Complete the syllabuses for               <ul style="list-style-type: none"> <li>Project-Based and Problem-Based Learning (Module 4)</li> <li>Industrial Management in Industry 4.0 Era (Module 6)</li> <li>Digital Manufacturing (Module 8)</li> </ul> </li> <li>Complete the activities plans for               <ul style="list-style-type: none"> <li>Learning Experience-Focused Course Design and Development (Module 1)</li> <li>Project-Based and Problem-Based Learning (Module 4)</li> <li>Coaching and Mentoring (Module 5)</li> <li>Industrial Management in Industry 4.0 Era (Module 6)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>An official curriculum of an Industry 4.0 Competence Development Training Program</li> </ul>

					<ul style="list-style-type: none"> <li>Digital Manufacturing (Module 8)</li> <li>Submit the curriculum to QCMB and PEC</li> </ul>	
Task 2.2	Developing innovative training materials	Apr 21	Dec 21	AIT, KKU, MIC, UPB, and UMinho	<ul style="list-style-type: none"> <li>Complete the training materials for               <ul style="list-style-type: none"> <li>Learning Experience-Focused Course Design and Development (Module 1)</li> <li>Project-Based and Problem-Based Learning (Module 4)</li> <li>Coaching and Mentoring (Module 5)</li> <li>Industrial Management in Industry 4.0 Era (Module 6)</li> <li>Digital Manufacturing (Module 8)</li> </ul> </li> <li>Submit the materials to QCMB and PEC</li> </ul>	<ul style="list-style-type: none"> <li>Official training materials for the 10 modules</li> </ul>
Task 2.3	Developing a capacity training assessment	Feb 21	Apr 21	UPB and UMinho	<ul style="list-style-type: none"> <li>Complete the assessment form for               <ul style="list-style-type: none"> <li>Project-Based and Problem-Based Learning (Module 4)</li> <li>Industrial Management in Industry 4.0 Era (Module 6)</li> <li>Digital Manufacturing (Module 8)</li> </ul> </li> <li>Submit the forms to QCMB and PEC</li> </ul>	<ul style="list-style-type: none"> <li>A capacity training assessment form</li> </ul>
Task 2.4	Training the Thai trainers	Feb 21	Mar 23	All partners	<ul style="list-style-type: none"> <li>Train 12 Thai trainers by EU partners on               <ul style="list-style-type: none"> <li>Project-Based and Problem-Based Learning (Module 4)</li> <li>Coaching and Mentoring (Module 5)</li> <li>Industrial Management in Industry 4.0 Era (Module 6)</li> <li>Digital Manufacturing (Module 8)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Completion of training sessions</li> </ul>



Task 2.5	Coaching the Thai trainers	Jun 21	May 23	All partners	<ul style="list-style-type: none"> <li>Finish coaching 12 Thai trainers for               <ul style="list-style-type: none"> <li>Communication and People Skills Development (Module 2)</li> <li>Innovative Teaching and Learning Methods (Module 3)</li> <li>Project-Based and Problem-Based Learning (Module 4)</li> <li>Coaching and Mentoring (Module 5)</li> <li>Industrial Management in Industry 4.0 Era (Module 6)</li> <li>Digital Manufacturing (Module 8)</li> <li>Data Analytics (Module 10)</li> </ul> </li> <li>Thai trainers are assigned to deliver the following modules:               <ul style="list-style-type: none"> <li>Innovative Teaching and Learning Methods (Module 3)</li> <li>Project-Based and Problem-Based Learning (Module 4)</li> <li>Coaching and Mentoring (Module 5)</li> <li>Industrial Management in Industry 4.0 Era (Module 6)</li> <li>Digital Manufacturing (Module 8)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Completion of coaching sessions</li> </ul>
Task 2.6	Assessing the Thai trainers	Jul 21	Jun 23	All partners	<ul style="list-style-type: none"> <li>Assess the performance of the 12 Thai trainers</li> </ul>	<ul style="list-style-type: none"> <li>An assessment report on the performance of the 12 Thai trainers</li> </ul>



Task 2.7	Setting up an Innovative Teaching and Learning Center for Thailand Sustainable Smart Industry	Nov 22	Jun 23	All partners	<ul style="list-style-type: none"> <li>Establish the center</li> </ul>	<ul style="list-style-type: none"> <li>an Innovative Teaching and Learning Center for Thailand Sustainable Smart Industry</li> </ul>
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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
Task x.x					<ul style="list-style-type: none"> <li></li> </ul>	

\*\*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.

<b>Title and reference number of the workpackage (WP)</b>	WP3-Capacity training for non-university sector at tertiary level in Thailand	
<b>WPL:</b> Thanate Ratanawilai (PSU)	<b>Co-WPL:</b> Kanchaha Sethanan (KKU)	<b>Reporting period:</b> June 22, 2022

<b>Indicators of achievement and or/performance as indicated in the project proposal</b>	<ul style="list-style-type: none"> <li>• The capacity training execution plan is ready by M4</li> <li>• Completion of the capacity training sessions by M31</li> <li>• Completion of the capacity coaching sessions by M33</li> <li>• An assessment report on the trained capacity by M35</li> </ul>
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**Status of Deliverables\***

Deliverable No	Deliverable Title	Status (Y/N/NA)					
		Preparing	Executing	Execution complete	Report to QCMB	Report to PEC	Officially Complete
Dev 3.1	A capacity training execution plan	Y	Y	N	N	N	N
Dev 3.2	60 trained teaching staff from non-university sector at tertiary level	Y	Y	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	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	-	KKU, M U, and PSU	<ul style="list-style-type: none"> <li>Obtained an initial registration list of trainees and their interested modules from WP5</li> <li>Checked availability of registered trainees in the Southern region (the largest group according to the list) for attending the first module</li> <li>Explained about the training program to prospective trainees in the Central, Eastern, and Western region in the online information session</li> <li>Explained about the training program to prospective trainees in the Southern region in the online information session</li> <li>Scheduled training program for Central region for               <ul style="list-style-type: none"> <li>Communication and People Skills Development (Module 2)</li> <li>Applications of Optimization and Technology in Value Chain (Module 7)</li> <li>Innovative Product Design and Development (Module 9)</li> </ul> </li> <li>Scheduled training program for Southern region for               <ul style="list-style-type: none"> <li>Communication and People Skills Development (Module 2)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>A tentative list of trainees and their interested modules</li> <li>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)</li> <li>Training activities scheduled for Central region of               <ul style="list-style-type: none"> <li>Module 2 on 11-13 March 2022</li> <li>Module 7 on 18-20 March 2022</li> <li>Module 9 on 25-27 February 2022</li> </ul> </li> <li>Training activities scheduled for Southern region of               <ul style="list-style-type: none"> <li>Module 2 on 18-20 March 2022</li> <li>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)</li> <li>Module 9 on 1-3 April 2022</li> </ul> </li> </ul>

					<ul style="list-style-type: none"> <li>• Applications of Optimization and Technology in Value Chain (Module 7)</li> <li>• Innovative Product Design and Development (Module 9)</li> <li>• Scheduled training program for Northern region for               <ul style="list-style-type: none"> <li>• Communication and People Skills Development (Module 2)</li> <li>• Applications of Optimization and Technology in Value Chain (Module 7)</li> <li>• Innovative Product Design and Development (Module 9)</li> </ul> </li> <li>• Submitted the 1<sup>st</sup> draft of Deliverable 3.1 report to QCMB</li> </ul>	<ul style="list-style-type: none"> <li>• Training activities scheduled for Northern region of               <ul style="list-style-type: none"> <li>• Module 2 on 17-19 June 2022</li> <li>• Module 7 on 22-24 July 2022</li> <li>• Module 9 on 6-8 May 2022</li> </ul> </li> <li>• A tentative capacity training execution plan including a progress of the training activities</li> </ul>
Task 3.2	Conducting capacity training on Industry 4.0 competence development	Apr 21	-	AIT, KKU, M U, and PSU	<ul style="list-style-type: none"> <li>• Preparing for offering the first module in the South</li> <li>• Preparing for offering the first module in the Central</li> <li>• Conducted 2 capacity training sessions in Decembers 2021 at Rambhai Barni Rajabhat University for a subgroup of Central region on               <ul style="list-style-type: none"> <li>• Communication and People Skills Development (Module 2)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• A ReCap 4.0 Training Status Report <a href="https://bit.ly/3vKOWq7">https://bit.ly/3vKOWq7</a> <ul style="list-style-type: none"> <li>• Training activities at Rambhai Barni Rajabhat University with the participants of 7 and 8 for Modules 2 and 9, respectively</li> <li>• Training activities at Mahidol University with the participants of 11, 15, and 12 for Modules 2, 7, and 9, respectively</li> </ul> </li> </ul>

					<ul style="list-style-type: none"> <li>• Innovative Product Design and Development (Module 9)</li> <li>• Conducted 3 capacity training sessions in February and March 2021 at Mahidol University for Central region on <ul style="list-style-type: none"> <li>• Communication and People Skills Development (Module 2)</li> <li>• Applications of Optimization and Technology in Value Chain (Module 7)</li> <li>• Innovative Product Design and Development (Module 9)</li> </ul> </li> <li>• Conducted 2 capacity training sessions in March, April and May 2022 at Prince of Songkla University (PSU) for Southern region on <ul style="list-style-type: none"> <li>• Communication and People Skills Development (Module 2)</li> <li>• Applications of Optimization and Technology in Value Chain (Module 7)</li> <li>• Innovative Product Design and Development (Module 9)</li> </ul> </li> <li>• Conducted 2 capacity training sessions in May and June 2022 at Lampang Rajabhat University (LPRU) for Northern region on <ul style="list-style-type: none"> <li>• Communication and People Skills Development (Module 2)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Training activities at PSU with the participants of 4,13 and 12 for Modules 2, 7 and 9, respectively</li> <li>• Training activities at LPRU with the participants of 10 and 14 for Modules 2 and 9, respectively</li> <li>• Example of the ambiance during the trainings <a href="https://bit.ly/3kGUKRE">https://bit.ly/3kGUKRE</a></li> </ul>
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					<ul style="list-style-type: none"> <li>Innovative Product Design and Development (Module 9)</li> </ul>	
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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
Task 3.1	Developing capacity training execution plan	Feb 21	July 21	All partners	<ul style="list-style-type: none"> <li>Obtain a complete registration list of trainees and their interested modules, registered for 4 regions of Thailand from WP5</li> <li>Collect a name list of 12 Thai trainers for each module from WP2</li> <li>Create tentative schedules for training and coaching of the 10 modules for the 4 regions to form a capacity training execution plan (CTEP)</li> <li>Submit the CTEP to QCMB and PEC for approval</li> </ul>	<ul style="list-style-type: none"> <li>An official capacity training execution plan</li> </ul>
Task 3.2	Conducting capacity training on Industry 4.0 competence development	Apr 21	Sept 23	Thai partners	<ul style="list-style-type: none"> <li>Prepare for the implementation of the training sessions of CTEP in all 4 regions</li> <li>Conduct the training sessions for teaching staffs of non-university sector at tertiary level</li> </ul>	<ul style="list-style-type: none"> <li>Completion of capacity training sessions</li> </ul>

					<ul style="list-style-type: none"> <li>Assess the trainees after the completion of each training module</li> </ul>	
Task 3.3	Coaching trained capacity	July 21	Oct 23	Thai partners	<ul style="list-style-type: none"> <li>Prepare for the implementation of the coaching sessions of CTEP in all 4 regions</li> <li>Conduct the coaching sessions for teaching staffs of non-university sector at tertiary level</li> <li>Assess the trainees after the completion of each coaching module</li> </ul>	<ul style="list-style-type: none"> <li>Completion of coaching sessions</li> </ul>
Task 3.4	Assessing trained capacity	July 21	Oct 23	EU partners and AIT	<ul style="list-style-type: none"> <li>Monitor the training and coaching activities</li> <li>Assess the overall performance of the trainees after the completion of coaching sessions</li> </ul>	<ul style="list-style-type: none"> <li>An assessment report on the performance of the trained teaching staff from non-university sector</li> </ul>

# 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:



## ERASMUS+ CBHE PROJECT

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

Co-funded by the  
Erasmus+ Programme  
of the European Union



A plan has been revised one time in March 21.



<b>Title and reference number of the workpackage (WP)</b>	WP4- Quality Monitoring and Control		
<b>WPL:</b> Andrei Szuder (UPB)	<b>Co-WPL:</b> Danaipong Chetchotsak (KKU)	<b>Reporting period:</b> June 22, 2022	

<b>Indicators of achievement and or/performance as indicated in the project proposal</b>	<ul style="list-style-type: none"> <li>• WP4-4.1 A quality control and monitoring system (M1)</li> <li>• WP4-4.2 Internal quality control and monitoring (on a regular basis until the end of the project)</li> <li>• WP4-4.3 External quality control and monitoring (M13 and M25)</li> <li>• WP4-4.4 External financial audit (M27)</li> </ul>
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**Status of Deliverables\***

Deliverable No	Deliverable Title	Status (Y/N/NA)					
		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	Y	Y
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	Y	Y	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	<ul style="list-style-type: none"> <li>Developed a QCMP and supporting Quality Management System templates</li> <li>Reviewed and approved the contents of the QCMP by QCMB</li> <li>Revised the QCMP according to the project management flow given by PC., approved Project Proposal and the ReCap 4.0 Erasmus Projects Overview.</li> <li>Submitted to PEC for approval.</li> <li>Revised QCMP per PEC comments</li> <li>Submitted to PEC for approval</li> </ul>	<ul style="list-style-type: none"> <li>An official QCMP <a href="https://bit.ly/3w1ODN4">https://bit.ly/3w1ODN4</a></li> <li>The Quality Management System templates drafts are available on the ReCap4.0 Project Portal: <a href="https://bit.ly/38Y0Uud">https://bit.ly/38Y0Uud</a></li> </ul>
4.2	Implementing the internal quality control and monitoring of the project	Mar 11, 2021	-	All partners	<ul style="list-style-type: none"> <li>Updated data of the task deadlines, responsible and the current stage of WP's in the Quality Control and Monitoring Template</li> <li>Reviewed and approved the contents of deliverable, "WP1-1.1 A capacity assessment execution plan"</li> <li>Reviewed and approved the contents of deliverable, "WP5-5.1 A Dissemination, Exploitation and Sustainable plan (DESP)"</li> </ul>	<ul style="list-style-type: none"> <li>The quality monitoring report is available on the ReCap4.0 Project Portal: <a href="https://bit.ly/3waQrnb">https://bit.ly/3waQrnb</a></li> <li>Consolidated Quality Control and Monitoring Report (QCMR): <a href="https://bit.ly/38OUDkl">https://bit.ly/38OUDkl</a></li> <li>The consolidated reviewed report (The consolidated deliverable evaluation template) for the deliverable WP1-1.1</li> </ul>

					<ul style="list-style-type: none"> <li>Reviewed and approved the contents of deliverable, “WP4-4.1 A quality control and monitoring system.”</li> <li>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</li> <li>Prepare Quality Control and Monitoring Board Report (QCMBR)</li> <li>Reviewed and approved the revised version of “WP5-5.1 A Dissemination, Exploitation and Sustainable plan (DESP)”</li> <li>Reviewed and approved the non-university capacity assessment report (WP1-D1.4)</li> <li>Evaluated document for the following course modules <ul style="list-style-type: none"> <li>Communication and People Skills Development (Module 2)</li> <li>Innovative Teaching and Learning Methods (Module 3)</li> <li>Applications of Optimization and Technology in Value Chain (Module 7)</li> <li>Innovative Product Design and Development (Module 9)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>The consolidated reviewed report (The consolidated deliverable evaluation template) for the deliverable WP5-5.1</li> <li>The consolidated reviewed report (The consolidated deliverable evaluation template) for the deliverable WP4-4.1 and Revised QCMP per PEC comments.</li> <li>Tasks, templates and QCMR reports.</li> <li>Quality Control and Monitoring Board Report (QCMBR) for the period January 2021 to July 2021: <a href="https://bit.ly/3LN2xZX">https://bit.ly/3LN2xZX</a></li> <li>Consolidated review report for WP1-D1.4.</li> <li>Consolidated reports for course modules WP2 -2.2-M2, M3, M7, M9 and M10</li> <li>Consolidated review report for WP3-3.1.</li> <li>Training evaluation report for period Dec 2021-Mar 2022. (QD-TER-V1) <a href="https://bit.ly/39HoLPA">https://bit.ly/39HoLPA</a></li> </ul>
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					<ul style="list-style-type: none"> <li>• Data Analytics (Module 10)</li> <li>• Prepared training evaluation report (Period Dec 2021-Mar 2022).</li> <li>• Reviewed and approved a capacity training execution plan (CTEP), subject to correction</li> <li>• Prepared training evaluation report (Period Dec 2021-Mar 2022).</li> </ul>	<ul style="list-style-type: none"> <li>• Quality Control and Monitoring Report (QCMR) <a href="https://bit.ly/3OwixR5">https://bit.ly/3OwixR5</a></li> </ul>
4.3	Inviting independent external evaluation of the project results	Oct 2021		All partners and External evaluator	<ul style="list-style-type: none"> <li>• Prepared a process for selection of an external evaluator</li> <li>• Reviewed the candidates proposed by PC</li> <li>• Recommended the selected candidate to PEC</li> <li>• Invited the selected external auditor</li> <li>• Prepared contract for the external audit</li> <li>• Facilitated the external evaluation process (handling the questionnaires).</li> <li>• Organized with PC the audit interview for external auditor.</li> </ul>	<ul style="list-style-type: none"> <li>• Consolidated review results of the procedure: <a href="https://bit.ly/3901nfu">https://bit.ly/3901nfu</a></li> <li>• Procedures for Independent External Evaluation for the Project Results: <a href="https://bit.ly/3vLZH3">https://bit.ly/3vLZH3</a></li> <li>• Assessment results <a href="https://bit.ly/3P09ycc">https://bit.ly/3P09ycc</a></li> <li>• Contract signed between the legal representative and the external evaluator.</li> <li>• Midway audit conducted by the external evaluator</li> </ul>

\*\* 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	<ul style="list-style-type: none"> <li>Monitor the project activities</li> <li>Execute quality control of all deliverables according to the proposal until the end of the project.</li> </ul>	<ul style="list-style-type: none"> <li>Updated quality monitoring report as Link to the file: <a href="https://bit.ly/37mCwlu">https://bit.ly/37mCwlu</a></li> <li>Consolidated report of QCMB using Deliverable Evaluation Template</li> </ul>
4.3	Inviting independent external evaluation of the project results	Nov 2021	Nov 2023	All partners and External evaluator	<ul style="list-style-type: none"> <li>Draft a contract between the external evaluator and the project</li> <li>Facilitate the external evaluation process</li> </ul>	<ul style="list-style-type: none"> <li>Midway external quality control and monitoring report.</li> <li>Final external quality control and monitoring report.</li> </ul>
4.4	Inviting independent external financial audit	Jan 2023	Nov 2023	All partners and External auditor	<ul style="list-style-type: none"> <li>Prepare a process for selection of an external auditor</li> <li>Contact candidates for proposals</li> <li>Conduct a process to select an external financial auditor</li> <li>Contact the external financial auditor</li> <li>Draft a contract between the external financial auditor and the project</li> <li>Facilitate the external financial audit process</li> </ul>	<ul style="list-style-type: none"> <li>External financial audit report.</li> </ul>

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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.

<b>Title and reference number of the workpackage (WP)</b>	WP5-Dissemination and Exploitation of Project Results	
<b>WPL:</b> Tuangyot Supeekit (MU)	<b>Co-WPL:</b> Pisut Koomsap (AIT)	<b>Reporting period:</b> June 22, 2022

<b>Indicators of achievement and or/performance as indicated in the project proposal</b>	<ul style="list-style-type: none"> <li>• Dissemination, Exploitation and Sustainable plan is prepared by M1.</li> <li>• A project website is created and publicly available from M1.</li> <li>• Online registration form for trainees is created by M2.</li> <li>• A complete list of registered trainees from Rajabhat Universities is finalised by M4.</li> <li>• Dissemination materials will be available from M1.</li> <li>• Availability of publications regarding project outputs in professional journals, conference proceedings and social media from M18.</li> <li>• Training centres and training networks with 80 members are established by M36.</li> <li>• Public seminars are organised at the beginning of project years; M1, M13, M24.</li> <li>• Final conference with project presentation from partners is arranged in M35.</li> </ul>
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**Status of Deliverables\***

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

Deliverable No	Deliverable Title	Status (Y/N/NA)					
		Preparing	Executing	Execution complete	Report to QCMB	Report to PEC	Officially Complete
Dev5.5	Publications in professional journals, newspapers, magazines, brochures and social media	Y	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	Y	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 involved	Description of the activity carried out	Specific and measurable indicators of achievement
Task 5.1	Development of a Dissemination, Exploitation and Sustainable plan	Apr 23, 2021	Jan 23, 2022	All partners	<ul style="list-style-type: none"> <li>Discussed about activities</li> <li>Drafted a DESP</li> <li>Reviewed the plan</li> <li>Submitted the DESP to QCMB</li> <li>Revised the DESP according to QCMB's feedback</li> <li>Submitted the revised DESP to QCMB</li> </ul>	<ul style="list-style-type: none"> <li>An official DESP  <a href="http://recap4.ait.ac.th/wp-content/uploads/sites/58/2022/01/Recap-4.0-WP5.1-DESP-V4.0.pdf">http://recap4.ait.ac.th/wp-content/uploads/sites/58/2022/01/Recap-4.0-WP5.1-DESP-V4.0.pdf</a>  <a href="https://bit.ly/3FhUfqP">https://bit.ly/3FhUfqP</a> </li> </ul>





Task No	Task Title	Start date	End date**	Place/ Partners involved	Description of the activity carried out	Specific and measurable indicators of achievement
					<ul style="list-style-type: none"> <li>Revised DESP as per QCMB comments and submitted to PEC for approval</li> </ul>	
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	<ul style="list-style-type: none"> <li>Designed, created and launched both the project website and Member Space (internal website for the project's members)</li> <li>Transformed MSIE 4.0 Facebook to ReCap 4.0 Facebook and keeping it up to date with the activities of ReCap 4.0</li> <li>Created a YouTube Channel for ReCap 4.0</li> <li>Updating contents to keep these communication channels up to date.</li> <li>Updating the website with short articles about Industry 4.0 and EU consortium partners</li> </ul>	<ul style="list-style-type: none"> <li>The project website: <a href="http://recap4.ait.ac.th/">http://recap4.ait.ac.th/</a></li> <li>Member Space: <a href="https://bit.ly/3FkQAIT">https://bit.ly/3FkQAIT</a></li> <li>Facebook: <a href="https://bit.ly/3sfMGeJ">ReCap4Thailand</a></li> <li>YouTube Channel: <a href="https://bit.ly/388mdcj">https://bit.ly/388mdcj</a></li> </ul>
Task 5.3	Inviting non-university sector to participate in the training program and preparing for online training registration	Dec 22, 2020	-	AIT, PSU	<ul style="list-style-type: none"> <li>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</li> </ul>	<ul style="list-style-type: none"> <li>The 31st meeting of the Council of the Industrial Technology Deans of Rajabhat Universities <a href="https://bit.ly/3OWLCX0">https://bit.ly/3OWLCX0</a></li> <li>Rajabhat visits <a href="https://bit.ly/39035NW">https://bit.ly/39035NW</a></li> </ul>

Task No	Task Title	Start date	End date**	Place/ Partners involved	Description of the activity carried out	Specific and measurable indicators of achievement
					<ul style="list-style-type: none"> <li>• 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</li> <li>• 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</li> <li>• Created an online registration for the teaching staff to register for training</li> <li>• Monitoring, responding, and updating the registration</li> <li>• 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.</li> <li>• Prepared and sent official invitation letters to 36 trainees in the Central</li> </ul>	<p><a href="https://bit.ly/3vN0Y8Z">https://bit.ly/3vN0Y8Z</a></p> <p><a href="https://bit.ly/3883DB8">https://bit.ly/3883DB8</a></p> <ul style="list-style-type: none"> <li>• Online registration form available via the project website <a href="https://bit.ly/3OZEek3">https://bit.ly/3OZEek3</a></li> <li>• Information Session for Central Region <a href="https://bit.ly/38R87vY">https://bit.ly/38R87vY</a></li> <li>• Tentative lists of trainees from Rajabhat universities (150 trainees as of 15 June 21 for initial registration)</li> <li>• 36 confirmed trainees in the Central region</li> <li>• 12 confirmed trainees in the Southern region</li> <li>• Visits to two Rajabhat Universities in the North In March 2022 (Postponed from the previous scheduled at beginning of January 2022 due to the</li> </ul>

Task No	Task Title	Start date	End date**	Place/ Partners involved	Description of the activity carried out	Specific and measurable indicators of achievement
					<p>region and 12 trainees in the Southern region</p> <ul style="list-style-type: none"> <li>• Contacting Rajabhat Universities in the North and Northeastern</li> <li>• Scheduled a visit to the Rajabhat Universities in the North for promotion</li> <li>• Visited Nakhon Sawan Rajabhat University to promote ReCap 4.0 project and invite the faculty members to participate in our competence development training program.</li> <li>• 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 room and facilities for the training in Northern region</li> <li>• 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</li> </ul>	<p>emergence of Omicron at the end of December 2021)</p> <ul style="list-style-type: none"> <li>• Visits to two Rajabhat Universities and one Rajamangala University of Technology in the Northeastern In June 2022 (Postponed from the previous scheduled at beginning of January 2022 due to the emergence of Omicron at the end of December 2021)</li> </ul>

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	<ul style="list-style-type: none"> <li>Created a poster and distributed to WP5 members for dissemination and post on their universities' websites.</li> <li>Created a flyer and distributed to visited Rajabhat Universities</li> <li>Created contents about the project's activities for the project website, Facebook and YouTube Channel</li> <li>Created a project introduction video</li> <li>Created the first issue of E-newsletter</li> <li>Created the second issue of E-newsletter</li> <li>Creating ReCap 4.0 Virtual Exhibition</li> </ul>	<ul style="list-style-type: none"> <li>A poster published in Production Engineering Archive Journal (April 2021)</li> <li>A flyer (same format as poster)</li> <li>Contents on the project website, Facebook and YouTube Channel</li> <li>A VDO clip to be introduced after the COVID situation is alleviated.</li> <li>E-newsletter issue1 <a href="https://bit.ly/3yhR1ll">https://bit.ly/3yhR1ll</a></li> <li>E-newsletter issue2 <a href="https://bit.ly/3Ogysa3">https://bit.ly/3Ogysa3</a></li> <li>ReCap 4.0 Virtual Exhibition <a href="http://recap4.ait.ac.th/virtual-exhibition/">http://recap4.ait.ac.th/virtual-exhibition/</a></li> </ul>
Task 5.5	Publications in professional journals, newspapers, magazines, brochures and social media	Apr 15, 2021		MIC, AIT, KMUTNB	<ul style="list-style-type: none"> <li>introduced the project on the university website (MIC), and local newspapers</li> <li>Delivered a presentation at 15<sup>th</sup> International Conference Quality Production Improvement – QPI 2021</li> <li>Delivered a presentation @Embassy of Finland Bangkok by Prof. Athakorn</li> </ul>	<ul style="list-style-type: none"> <li>Project introduction in local newspapers in Limerick available at <a href="https://bit.ly/3KMsgRg">https://bit.ly/3KMsgRg</a></li> <li>Project presentation at QPI conference <a href="https://bit.ly/3vKSb7l">https://bit.ly/3vKSb7l</a></li> </ul>

Task No	Task Title	Start date	End date**	Place/ Partners involved	Description of the activity carried out	Specific and measurable indicators of achievement
					<ul style="list-style-type: none"> <li>Delivered a presentation at XXVIII SIMPEP Production Engineering Symposium: Teaching in Production Engineering by Dr. Rui M. Lima</li> <li>Delivered a presentation at the 40th IE Network Conference 2022 by Prof. Athakorn Kengpol</li> <li>Participated in the SHARE 14th Policy Dialogue on “The Contribution of Higher Education Partnerships in Southeast Asia towards the Achievement of the Sustainable Development Goals 2030” by Dr.Pisut Koomsap</li> </ul>	<ul style="list-style-type: none"> <li>The SHARE 14th Policy Dialogue on “The Contribution of Higher Education Partnerships in Southeast Asia towards the Achievement of the Sustainable Development Goals 2030” <a href="https://bit.ly/3yaXNck">https://bit.ly/3yaXNck</a></li> </ul>
Task 5.7	Organizing dissemination events with relevant stakeholders	Mar 1, 2021	-	AIT, MU	<ul style="list-style-type: none"> <li>Contacted speakers and arranged the first dissemination event in March 2021 “Strengthening Rajabhat University, Local Driving Mechanism, to Support Sustainable Growth of Thailand</li> </ul>	<ul style="list-style-type: none"> <li>The first dissemination event (Online) <a href="https://youtu.be/g4gU5GZU8EM">https://youtu.be/g4gU5GZU8EM</a></li> </ul>

\*\* 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 5.2	Creating a project website and maintaining it throughout the project lifetime to support the dissemination strategy, and communication and collaboration among partners	Nov 2020	Nov 2023	AIT and MU	<ul style="list-style-type: none"> <li>Keep the website, Facebook as well as YouTube regarding activities and results up to date</li> </ul>	<ul style="list-style-type: none"> <li>Up to date project website, Facebook and YouTube</li> </ul>
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	<ul style="list-style-type: none"> <li>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</li> <li>Invite teaching staff to participate in the training program</li> <li>Short list the registered trainees and submit to WP3 leader.</li> </ul>	<ul style="list-style-type: none"> <li>A list of registered trainees</li> </ul>
Task 5.4	Production of dissemination materials	Jan 2021	Nov 2023	All the members	<ul style="list-style-type: none"> <li>Create promotional materials.</li> <li>Create contents for the website, Facebook and YouTube</li> <li>Issue newsletter twice a year providing key project results, information regarding the project process and the training sessions as main messages</li> </ul>	<ul style="list-style-type: none"> <li>Poster</li> <li>Leaflet</li> <li>Newsletters (Half-yearly)</li> </ul>
Task 5.5	Publications in professional journals, newspapers, magazines,	Apr 2022	Oct 2023	All the partners	<ul style="list-style-type: none"> <li>Disseminate project outputs achieved at each stage of the project in relevant professional journals, conference</li> </ul>	<ul style="list-style-type: none"> <li>Publications regarding project outputs get published in professional</li> </ul>

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				proceedings, newspapers, magazines, and social media • Review the task every 6 months	journals, conference proceedings and social media.
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
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\*\*Only when corrective actions are needed.

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

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



<b>Title and reference number of the workpackage (WP)</b>	WP6- Project Management	
<b>WPL: Pisut Koomsap (AIT)</b>	<b>Co-WPL:</b>	<b>Reporting period: June 22, 2022</b>

<b>Indicators of achievement and or/performance as indicated in the project proposal</b>	<ul style="list-style-type: none"> <li>• Approved PMCP by PEC by M1</li> <li>• 7 PEC meetings are organized and decisions are implemented</li> <li>• Project is implemented according to the plan. Efficient and successful project and financial management by M36</li> <li>• Submission of midterm progress report by M18 and final report by M3</li> </ul>
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## Status of Deliverables\*

Deliverable No	Deliverable Title	Status (Y/N/NA)					
		Preparing	Executing	Execution complete	Report to QCMB	Report to PEC	Officially Complete
Dev 6.1	Project management and communication plan	Y	Y	Y	N/A	Y	Y
Dev 6.2	Kick-off and regular consortium meetings	Y	Y	N	N/A	Y	N
Dev 6.3	Documents on daily project administration and coordination	Y	Y	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	Jan 21, 2022	All partners	<ul style="list-style-type: none"> <li>Processed a request to change consortium members</li> <li>Established Project Executive Committee (PEC)</li> <li>Prepared 7 bilateral partnership agreements (PAs) between AIT and other seven partners</li> <li>Sent the PAs to all partners to review and sign</li> <li>Structured MSIE 4.0 consortium</li> <li>Identified roles and responsibilities of members</li> <li>Created project management flow</li> <li>Revised workplan for entire project after the kick-off meeting on February 2021</li> <li>Established project financial management</li> <li>Established internal communication channels</li> <li>Created document templates for managing the project</li> <li>Completed all 7 PA and submitted to EACEA</li> <li>Developing Project Management and Communication Plan (PMCP)</li> </ul>	<ul style="list-style-type: none"> <li>Official approval from EACEA on changing of consortium members</li> <li>PEC and QCMB</li> <li>Submission of 7 completely signed PAs to EACEA</li> <li>An official PMCP <a href="https://bit.ly/3FhWBGb">https://bit.ly/3FhWBGb</a></li> <li></li> </ul>

					<ul style="list-style-type: none"> <li>Developed Project Management and Communication Plan (PMCP)</li> <li>Approved PMCP by PEC</li> </ul>	
Task 6.2	Organizing kick-off and regular meetings	Feb 21	-	All partners	<ul style="list-style-type: none"> <li>Organized online PEC meeting</li> <li>Organized online general meeting</li> <li>Organizing PEC meeting at MIC during June 27-July 1, 2022</li> </ul>	<ul style="list-style-type: none"> <li>PEC Meeting Minutes <a href="https://bit.ly/3KH9qe8">https://bit.ly/3KH9qe8</a></li> </ul>
Task 6.3	Monitoring and controlling the project	Nov 20	-	All partners	<ul style="list-style-type: none"> <li>Followed up with WP leaders on the progress of the project</li> <li>Reminded the WPLs for submission of WP quarterly reports</li> <li>Had meetings with WP leaders</li> <li>Reviewed and gave feedback on QCMP</li> <li>Had a meeting with MU team on financial report</li> <li>Reviewed, approved and uploaded the capacity assessment execution plan on the project website</li> <li>Reviewed, approved and uploaded the quality control and monitoring plan on the project website</li> <li>Reviewed and gave feedback on Quality Control and Management Board Report</li> <li>Reviewed timesheets for partners</li> <li>Reviewed, approved and uploaded the dissemination, exploitation and sustainability plan (DESP) on the project website</li> </ul>	<ul style="list-style-type: none"> <li>Project Quarterly report for April 2021 <a href="https://bit.ly/3LI82cx">https://bit.ly/3LI82cx</a></li> <li>Project Quarterly report for July 2021 <a href="https://bit.ly/3MNKYck">https://bit.ly/3MNKYck</a></li> <li>Project Quarterly report for October 2021 <a href="https://bit.ly/3OYGC4e">https://bit.ly/3OYGC4e</a></li> <li>Project Quarterly report for January 2022 <a href="https://bit.ly/3LTEed1">https://bit.ly/3LTEed1</a></li> <li>Project Quarterly report for March 2022 <a href="https://bit.ly/3yezMRT">https://bit.ly/3yezMRT</a></li> <li>PEC's approval for QCMP</li> </ul>

					<ul style="list-style-type: none"> <li>Reviewed and approved the candidate for the external evaluator</li> <li>Processed the purchase of equipment to setup training facilities</li> <li>Reviewed and approved the following modules <ul style="list-style-type: none"> <li>Communication and People Skills Development (Module 2)</li> <li>Applications of Optimization and Technology in Value Chain (Module 7)</li> <li>Innovative Product Design and Development (Module 9)</li> <li>Data Analytics (Module 10)</li> </ul> </li> <li>Visited Lampang Rajabhat University in March 2022 to check facilities for conducting training for participants in the North</li> <li>Reviewed contract for the first external audit</li> <li>Facilitated the midway project evaluation by the external evaluator</li> </ul>	<ul style="list-style-type: none"> <li>Feedback to QC Chair for the Quality Control and Management Board Report</li> <li>PEC's approval for DESP</li> <li>PEC's approval for the external evaluator</li> <li>Purchase order requests</li> <li>Approved the following training module <ul style="list-style-type: none"> <li>Communication and People Skills Development (Module 2)</li> <li>Applications of Optimization and Technology in Value Chain (Module 7)</li> <li>Innovative Product Design and Development (Module 9)</li> <li>Data Analytics (Module 10)</li> </ul> </li> <li>Official contract for signatures of the legal representative and the external evaluator</li> <li>Meeting with the external evaluator for midway evaluation</li> </ul>
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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
Task 6.2	Organizing kick-off and regular meetings	Feb 21	Sep 23	All partners	<ul style="list-style-type: none"> <li>Organize 5 regular meetings</li> </ul>	<ul style="list-style-type: none"> <li>Remaining 5 meetings are organized</li> </ul>
Task 6.3	Monitoring and controlling the project	Nov 20	Nov 23	All partners	<ul style="list-style-type: none"> <li>Monitor, assess and give feedback to related WPLs on the progress of tasks under their supervisions</li> <li>Review and give feedback on financial statement and related financial documents to the partner leaders.</li> <li>Remind the WPLs and partner leaders for submission of WP monthly reports and financial statements respectively</li> <li>Make final reviews of the remaining project outcomes approved by QCMB</li> <li>Update PMCP if it is necessary</li> <li>Upload official reports approved by PEC and financial documents passed the screen of PC on the website</li> </ul>	<ul style="list-style-type: none"> <li>WP Quarterly reports</li> </ul>
Task 6.4	Closing project	Aug 23	Nov 23	All partners	<ul style="list-style-type: none"> <li>Collect all documents</li> <li>Prepare a draft of the final report</li> <li>Review and finalize the report</li> <li>Submit the final report</li> </ul>	<ul style="list-style-type: none"> <li>Submission of final report</li> </ul>

# 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.



## ERASMUS+ CBHE PROJECT

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

Co-funded by the  
Erasmus+ Programme  
of the European Union

