

Project: Network of Competence on Internet of Things [NEON]

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Work Package 6: Quality Control and Monitoring

Title: D6.3a First report on project implementation

Lead Organisation: UC3M

Participating Organisation: UNI-KLU, UC3M, UNC, UNS, UNMDP, UdelaR, UCU, INCUTEX, ALASSIO, ALENET, TEAC, EYCON, ALLIANSYS SRL, Santex, TELECOM ARGENTINA S.A, CONTROLNET S. A., ABM ingeniería y sistemas S.R.L., UTE, CONAE.

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Task		

Revision History				
Version	Date	Author(s)	Organisation(s)	Brief description of change
0	14.3.2022	Lianet Méndez. Ana García Armada	UC3M	First draft of the report.
1	28.3.2022	Lianet Méndez	UC3M	Ongoing and finished tasks.
1.2	30.3.2022	Lianet Méndez	UC3M	Annex A: include evaluation course template. Updates on ongoing and finished tasks.
1.3	19.4.2022	Lianet Méndez	UC3M	Updates on ongoing and finished tasks
1.4	10/05/2022	Lianet Méndez	UC3M	Annex B: Tables for tracking project advancement through indicators of progress and updates on ongoing and finished tasks.

LIST OF ACRONYMS

AP	Assurance Point
EU	European Union
HEI	Higher Education Institution
ICT	Information and Communications Technologies
IoT	Internet of Things
LA	Latin America
MB	Management Board
NoC	Network of Competence
QC	Quality Control
QCM	Quality Control and Monitoring
QCMB	Quality Control and Monitoring Board
WP	Work Package

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1 INTRODUCTION

The main objective of NEON project is to improve and diversify the training of human resources, both in the academic field and in the public-private sphere, motivating innovative technologies in the Information and Communications Technologies (ICT) field, in particular the Internet of Things (IoT). The main goal of the institutions that make up the consortium is the creation of a Network of Competence (NoC) for IoT. The project will offer the framework and support to foster the industry collaboration at each country of interest, namely, Argentina and Uruguay, and, at the same time, it offers the possibility of exchange and advice from two European countries: Austria and Spain, that have demonstrated a good amount of development and innovation in the IoT field. The project's goals will be achieved by updating and improving the curricula at the different universities degrees, the creation of at least 5 laboratories on IoT, the training of their academic staff and the collaboration between the local and regional industry.

To follow and reinforce the quality of the project's activities, which is overseen by the Quality Control and Management Board (QCMB), WP6 will make a report analysis annually in D6.3. The present document is the first version, corresponding to the first year of execution of the project. This analysis is necessary in order to prepare an action plan for the remedy of any problems possibly identified. Moreover, this annual report includes the main conclusions and lessons learned to be a useful instrument to all the partners for further improvement through the years.

2 PROJECT ACTIVITIES, DELIVERABLES AND MILESTONES FOR THE FIRST YEAR

In order to obtain the goals, the project is organised into different activities, tasks that have as output deliverables, milestones and events.

The project deliverables are organised in a form of tangible deliverables (eg. reports, publications, manuals, methodology, plans, printed and electronically available promotional material), as well as intangible deliverables in the form of organised events (training, conferences, seminars, info days, etc.) The summary of tasks, deliverables and milestones for the first years are listed here.

The deliverables for the first year are here grouped according to the Work Package (from 1 to 8) along with the corresponding tasks and milestones:

WP1: PREPARATION

- T1.1 Survey and analysis of IoT courses in ICT study programmes in relation to modern society and industry needs in the IoT domain
- T1.2 Consolidate guidelines for curriculum modernisation in cooperation with industry
- T1.3 Preparation of implementation actions of the network of competence

D1.1 Consolidated analysis of educational/industrial needs on IoT in Argentina and Uruguay

D1.2 Consolidated project plan of implementation actions

M1.1 Snapshot of present situation about IoT in ICT studies in Argentinian and Uruguayan HEIs

M1.2 Surveys to enterprises in order to have a feedback from IoT enterprises, mainly for technical contents

M1.3 Preliminary summary of industry needs, profile competencies and skills needed on IoT

M1.4 Analysis of the state of involved partnership institution's infrastructure related to remote courses, MOOCs, audio video supporting

M1.5 Pedagogical advice. Survey to technology & pedagogy specialists. The purpose is to have a feedback and advice about the technological tools for graduate & postgraduate courses

M1.6 Project meeting to present the summary of A&U situation and consolidated project plan

M1.7 Completion of the action plan and network of competence development guidelines

WP2: DEVELOPMENT OF THE NETWORK ON COMPETENCE ON IOT

T2.1 Develop a management platform to coordinate the network of competence and to serve as knowledge base

T2.2 Develop policies and procedures to regulate the network of competence

T2.3 Define the governance of the network of competence

T2.4 Partners and network implementation

D2.1 Report on management platform to coordinate the network of competence

D2.2 Report on the creation of the legal framework for the network of competence

D2.3 Report that defines the governance of the network of competence

D2.4 Report on network implementation

M2.1 Creation of the management platform to coordinate the NoC

M2.2 Define the most appropriate legal framework for the NoC based on the local regulations

M2.3 Prepare the statute of the network of competence

M2.4 Define the network of competence members and their roles

M2.5 Meeting of the NoC group to coordinate the activities

WP3: TEACHING METHODOLOGIES, MATERIAL AND MODERNISATION OF STUDY PROGRAMMES

T3.1 Adoption of new learning/teaching methods, tools, ICT best practices in teaching

T3.2 Creation and / or modernisation of teaching material related to IoT

D3.1 Web repository for class and lab sessions material

D3.2 Report on the modernised teaching methodologies applied to IoT courses

M3.1 Identification of modern teaching methodologies

M3.2 Collection of preliminary teaching material for new and modernised courses

M3.3 Delivery of web repository and platform

M3.4 Adoption of tools and equipment to enable innovative teaching methodologies

WP4: DEVELOPMENT AND IMPLEMENTATION OF LABORATORIES

T4.1 Creation of joint university-industry labs and modernisation of the lab infrastructure

T4.2 Pilot lab development. The purpose is to develop a complete undergraduate or graduate lab with pedagogical/technological tools in the domain of IoT.

D4.1 Report on the laboratory infrastructure and equipment at each LA university

M4.1 Identification of laboratory infrastructure to be restructured in each LA university and initial steps for the joint university-industry labs

M4.2 Establishment of formal links and joint lab operation agreements between universities and companies

M4.3 Define the procurement procedure

WP5: TRAINING AND INTERSHIP IMPLEMENTATIONS

T5.1 Creation of a section in the project website where training and internship opportunities are listed

T5.2 Implement framework for student training in cooperation with EU partners and industry

T5.3 Implement framework for student internships in companies

T5.4 Offer techno-economic, entrepreneurial and IPR related training modules

T5.5 Implement teacher staff training on technology and modern prototyping tools for IoT

T5.6 Implementation of three workshops on IoT and ICT technologies

D5.1 Report on the training/internships website section

D5.2 Report on the framework for training and internships

M5.1 Define the content and the responsible persons of the website section dedicated to internships and trainings

M5.2 Creation of the website section with training and internship opportunities

M5.3 Define the requirements and objectives of the training process for both students and teachers

M5.4 Define the required resources for the training implementation

M5.5 Create the training action plan and agenda for both students and teachers

M5.7 Define the organisation team for the proposed hackathon

M5.10 List industry partners and related internships opportunities

M5.11 List professors and related co-supervised theses under the umbrella topic of IoT

M5.12 Define technical content for internships and cosupervised theses

M5.13 Workshop on teaching methodologies for IoT. Exchange about pilot courses and pilot labs. General consensus about pilot course and pilot lab structures. Pedagogical and methodological contributions. Survey results. Organised at UNI-KLU

WP6: QUALITY PLAN

- T6.1 Establishment of the QCM Board and appointment of an external expert for QC
- T6.2 Consolidation of areas to be monitored, indicators, and correction strategies both internal and external
- T6.3 Internal control of project progress and outcomes
- T6.4 Monitor graduate profiles, improvements in their skills, in correspondence to industry needs
- T6.5 Collect questionnaires and surveys via social networks (LinkedIn, AngelList)
- T6.6 Monitor student enrollment statistics in the region
- T6.7 Establish a monitoring system for employment statistics of graduates
- T6.8 Establish a monitoring system for entrepreneur attitude and newcos (by means of surveys, databases, etc.)

- D6.1 Establishment of Quality Control (QC) board and appointment of external experts for QC
- D6.2 Development of guidelines for QC
- D6.3 Reports on project implementation

- M6.1 QCM Board establishment
- M6.2 Quantitative indicator definition for project progress evaluation, as a part of QCMB duties
- M6.3 Activity report delivered by QCM board to MB once a year
- M6.4 Define QCM structure
- M6.6 Implementation of surveys and questionnaires to retrieve feedback on employment from graduates working in partner industries; study and analysis of social networks capabilities with respect to project visibility
- M6.7 Stakeholder appraisal relative to D6.6

WP7: DISSEMINATION AND EXPLOITATION

- T7.1 Development of the project web site combined with the web platforms developed in the other WPs. Preparation of the materials to keep the project website up to date with the current activities
- T7.2 Preparation of exploitation and dissemination plan
- T7.3 Create promotional and dissemination material targeting high school students and society at large (exploiting also media)
- T7.4 Organise an annual open event outreaching a wide audience that includes public authorities, industry, students, pupils and non-expert people
- T7.5 Organise a yearly event (hosted in turn by the HEIs partners) in the form of a webinar broadcasted to all locations to present the study programmes, tips on studying engineering targeting enrolled and prospective students/pupils

T7.6 Establish agreements for future double degrees, joint teaching, student mobility beyond the project duration, bilateral agreements within Erasmus+ KA1

T7.7 Create an agreement for the maintenance of the web platform beyond the project life time

T7.8 Create partnerships for follow-up projects

D7.1 Central project web platform linked to the e-platforms developed in other WPs

D7.2 Report on exploitation and dissemination plan

M7.1 Establishment of a workgroup dedicated to coordinate dissemination actions

M7.2 Central web platform design drafted by UNS and approved by the project coordinator

M7.3 Central web platform released

M7.5 Webinar on the NoC structure and partners, hosted by UNC

M7.8 Open Event involving the community on studying ICT with the participation of a renowned keynote speaker in UNMdP

WP8: MANAGEMENT

T8.1 Creation of a project management (PM) board

T8.2 Creation of an e-platform for project management

T8.3 Monitor and coordinate the overall project

T8.4 Maintain flow of information between partners and the funding agency

T8.5 Organise regular meetings (face to face and remote)

T8.6 Monitor the financial aspects of the project, funding, and prepare the reports

D8.1 Report on the project management (PM) board and its establishment

D8.2 Report on the project management (PM) e-platform for sharing documentation

M8.2 On an annual basis there will be physical project meetings, according to the following schedule: kickoff meeting in Klagenfurt (M1), project meeting in Madrid

M8.3 On an annual basis there will be a project meeting carried out via web conference for a total of three instances.

M8.4 PC and the funding agency will communicate annually to assess the project progress

M8.5 Financial reports will be delivered to the coordinator on an annual basis, according to the following schedule: first report (M12), second report (M24) and final report (M36)

3 NEON QUALITY CONTROL AND MANAGEMENT

6.1. QUALITY CONTROL AND MANAGEMENT

Quality Control and Monitoring (QCM) activities are performed continuously during the project duration. The WP leader is UC3M. The QCM Board (QCMB) has been established at the kick-off meeting by assembling a team of representatives from UC3M, UNI-KLU, UCU and UdelaR, plus two students. One external QCMB member has been appointed. In addition, he is to be assisted by two external experts that act as advisors to provide inputs and independently assess the project results. NEON exploits a set of tools for quality assessment and activities monitoring:

- Meeting minutes template: used to summarise content of project meetings and to verify the coherence with the actual and the planned agenda.
- Meeting / Event Evaluation form: used to assess the degree of satisfaction and utility of NEON events/trainings/workshops considering both scientific and logistical aspects.
- Attendance sheet: demonstrates the attendance to any event.
- Deliverable Evaluation Forms: used to revise and evaluate deliverables.
- Milestone Verification Forms: used to certify the achievement of a Milestone by verifying the compliance between planned and actual timing and the sources of verification.
- Evaluation surveys of the quality of classes and developed material will be developed as the project progresses.
- List of indicators of progress.

The related documents are (or will be made) available from within the Intranet project documentation portal on Confluence; <https://intranet.aau.at/display/projneon/Templates> and D6.2.

6.2. DELIVERABLES AND MILESTONES

The deliverable 6.2 describes the steps and procedures for revision, assessment and publication of deliverables. The milestone approval procedure is similar to the deliverable approval procedure but more contracted. It is indicated for those milestones that are considered critical for the project advance.

The templates to be used in the process are available in the Intranet project documentation portal on Confluence, <https://intranet.aau.at/display/projneon/Templates> and D6.2.

6.3. EVENTS

The quality of the project events will be ensured by collecting a variety of information using visits, interviews, questionnaires, consultation, and other forms of activities. These will bring awareness of the satisfaction of beneficiaries and other target groups. A template for

feedback is created as a tool of impact assessment of the project activities. This template may be slightly adapted to conform to the specific needs of different events.

Besides, a specific event report template available under the Templates folder at the project Intranet site <https://intranet.aau.at/display/projbenefit/Templates> is to be filled in and collected by project partners (organisers) for all NEON events (workshops, info days, trainings). The report will include a summary review of statistical data and will help in final reporting.

4 PERFORMED ACTIVITIES AND EVALUATION

4.1. PROJECT'S DELIVERABLES

During the first effective year of project's execution, three deliverables have been reviewed and approved by the QCMB (Quality Control Management Board):

- D1.1, Consolidated analysis of educational/industrial needs on IoT in Argentina and Uruguay
- D1.2 Consolidated project plan of implementation actions
- D6.2 Development of guidelines for QC (Quality Control)

This QC process has been performed following the rules agreed in the consortium, that will be included there for the sake of completeness:

1. Step 1: Evaluation/revision:
 - Once the writing of a deliverable is completed, the WP leader should upload the Word document to the respective Deliverable Log page in Confluence (as well as the WP page) and inform the QCMB leader/contact person.
 - Evaluation/revision will be performed by a NEON-member who has not directly participated in the preparation of the deliverable.
 - The evaluator/reviewer is appointed by the QCMB Chair via email (upon suggestion by the WP leader) and will have to respond within 5 working days.
 - The evaluator/reviewer will assess the deliverable by providing comments using the predefined Deliverable Evaluation Template: **QCM_Manual_Template_Deliverable_Review** (see Annex C in D6.2, or in the project's Intranet: <https://intranet.aau.at/display/projneon/Templates>).
 - The filled in form mentioned above must be uploaded to the respective Deliverable Log page in the Intranet.
 - The QCMB will check the assessment. In case of quality-related inconsistencies, the deliverable will be returned for refinement.
2. Step 2: Consortium approval:
 - After positive evaluation, the WP leader publishes the revised version of the deliverable on the Deliverable Log Page in PDF and announces by email the consortium approval to the main contacts of each institution.
 - The main contact person of each partner must tick their institution's box to approve the deliverable.

- Any comment or suggestion on the document can be submitted via the Deliverable Log Page.
 - If suggested changes are minor, the WP leader makes them, if not the editor(s).
 - In the absence of any suggestions or comments after a period of 5 working days the approval process is concluded and silence acts as approval.
3. Step 3: Final QCMB approval and publication
- After the deliverable has been approved by all partners (or 5 working days passed), the WP leader asks the QCMB for final approval of the the document.
 - The QCMB marks it as APPROVED BY QCMB within the Deliverable Log page on Intranet.
 - The WP leader asks UNI-KLU for the publication of the document (in PDF) to the website, usually the person managing the project's website.

Current deliverable quality revisions are essentially focused on the following assurance points (APs in the sequel):

1. Adequacy of deliverable: General compliance of deliverable specifications. Correct use of methodologies.
2. Deliverable format: Adequate use of project's template, external sources, bibliography, and other related information.
3. Adequacy of written language: Level of written English is adequate

A pass/no pass result is assigned to each of the above-mentioned aspects as result of the revision. In the case that a no-pass condition is identified in a deliverable, further information is provided to fully explain the no-conformance to facilitate its amendment.

The results of the quality control of the deliverables during the first year of project execution have been quite satisfactory, as can be seen in the Table 1.

Table 4.1: Results of the Deliverables' QC Process during the first project's year

Deliverable	Date	Reviewer	Assessment		
			AP1	AP2	AP3
D1.1	27.10.2021	Vitali Korzhun, UNI-KLU	✓	✓	✓
D1.2	3.11.2021	Juan P. Oliver, UdelaR	✓	✓	✓
D6.2	14.02.2022	Leonardo Steinfeld, UdelaR	✓	✓	✓

4.2. PROJECT'S MILESTONES

During the first effective year of project's execution, only one milestone has been reviewed and approved by the QCMB (Quality Control Management Board):

- M3.1 Identification of modern teaching methodologies

This QC process has been performed again following the rules agreed in the consortium, which will once more be included there for the sake of completeness:

1. Whenever a milestone is achieved, the WP leader may contact the QCMB via email and attach the template QCM_Manual_Template_Milestone_Verification (see Annex D of D6.2 or at <https://intranet.aau.at/display/projneon/Templates>).
2. It will be evaluated by a member of NEON who has not directly participated in the achievement of the milestone, designated by QCMB. The evaluator will have to respond in 5 working days by delivering his or her comments using the predefined Milestone Evaluation Template QCM_Manual_Template_Milestone_Evaluation (see Annex D of D6.2 or at the website <https://intranet.aau.at/display/projneon/Templates>).
3. Approval by QCMB. In case of quality-related inconsistencies, the milestone will be returned to the WP leader for refinement.
4. After positive evaluation result, the WP leader will mark the milestone as completed within the WP page on the Intranet.

Current milestone quality revisions start with a detailed list of the documents and proofs supporting the completion of the milestone, and are subsequently focused on the following assurance points (APs in the sequel):

1. Was the milestone successfully completed? That must be understood in the sense of the degree in which the activities included in the milestone comply with the objectives specified in the project proposal.
2. Was the milestone completed by the specified deadline? Indicating the degree of adherence to the planned date for the achievement of the milestone in the project schedule.

The results of the quality control of the milestones during the first year of project execution have been satisfactory, as can be seen in the Table 2. In this case, the negative assessment of the second AP is because it has been reached much later than planned.

Table 4.2: Results of the Milestones' QC Process during the first project's year

Deliverable	Date	Reviewer	Assessment	
			AP1	AP2
M3.1	11.02.2022	Matías Miguez, UCU	✓	✗

4.3. ONGOING AND FINISHED TASKS

The current and finished activities of the first year are listed in this section, including the information about their status and review process (reviewer, evaluation date and APs).

Table 4.3: Results of the current WP1 activities for the first year

WP1 – Consolidation of ex-ante analysis and preparation of implementation actions						
Tasks	Status					
T1.1	Completed					
T1.2	Completed					
T1.3	Completed					
Deliverables	Status	Reviewer	Date	Assessment		
				AP1	AP2	AP3
D1.1	Published	Vitali Korzhun, UNI-KLU	27.10.2021	✓	✓	✓
D1.2	Published	Juan P. Oliver, UdelaR	3.11.2021	✓	✓	✓
Milestones	Status	Reviewer	Date	Assessment		
				AP1	AP2	
M1.1	Completed					
M1.2	Completed					
M1.3	Completed					
M1.4	Completed					
M1.5	Completed					
M1.6	Not done					
M1.7	Completed					

Table 4.4: Results of the current WP2 activities for the first year

WP2 – Development of network of competence on IoT						
Tasks	Status					
T2.1	Started: preliminary website available					
T2.2	Started: Initial discussion on P&Ps					
T2.3	Started					
T2.4	In progress					
Deliverables	Status	Reviewer	Date	Assessment		
				AP1	AP2	AP3
D2.1	In progress					
D2.2	In progress					
D2.3	In progress					
D2.4	In progress					
Milestones	Status	Reviewer	Date	Assessment		
				AP1	AP2	
M2.1	Not started					
M2.2	Not started					
M2.3	Not started					
M2.4	Not started					

M2.5	Not started				
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Table 4.5: Results of the current WP3 activities for the first year

WP3 – Teaching methodologies, material and modernization of study programmes						
Tasks	Status					
T3.1	In progress					
T3.2	In progress					
Deliverables	Status	Reviewer	Date	Assessment		
				AP1	AP2	AP3
D3.1	Completed, under review					
D3.2	Completed, under review					
Milestones	Status	Reviewer	Date	Assessment		
				AP1	AP2	
M3.1	Completed and reviewed	Matías Miguez, UCU	28.02.2022	✓	<input type="checkbox"/> It was finished on M14	
M3.2	Completed and reviewed	Jimena Caro, INCUTEX	16.03.2022	✓	✓	
M3.3	Completed and reviewed	Daniel Carrica, UNMDP	25.03.2022	✓	✓	
M3.4	Completed and reviewed	Favio R. Masson, UNS	21.03.2022	✓	✓	

Table 4.6: Results of the current WP4 activities for the first year

WP4 – Development and implementation of laboratories						
Tasks	Status					
T4.1	In progress					
T4.2	In progress					
Deliverables	Status	Reviewer	Date	Assessment		
				AP1	AP2	AP3
D4.1	Not started					
Milestones	Status	Reviewer	Date	Assessment		
				AP1	AP2	
M4.1	Completed and reviewed	Alejandro Uriz (UNMDP)	18.04.2022	✓	✓	
M4.2	Not started					
M4.3	Completed and reviewed	Horacio Mendoza (UNC)	01.05.2022	✓	✓	

Table 4.7: Results of the current WP5 activities for the first year

WP5 – Training and internship implementation						
Tasks	Status					
T5.1	Completed					
T5.2	Started					
T5.3	Started					
T5.4	Not started					
T5.5	Not started					
T5.6	Started					
Deliverables	Status	Reviewer	Date	Assessment		
				AP1	AP2	AP3
D5.1	Not started					
D5.2	Started					
Milestones	Status	Reviewer	Date	Assessment		
				AP1	AP2	
M5.1	Completed					
M5.2	Started					
M5.3	Started					
M5.4	Started					
M5.5	Started					
M5.7	Completed					
M5.10	Started					
M5.11	Started					
M5.12	Started					
M5.13	Started					

Table 4.8: Results of the current WP6 activities for the first year

WP6 – Quality Control and Monitoring						
Tasks	Status					
T6.1	Completed					
T6.2	Completed					
T6.3	In progress					
T6.4	In progress					
T6.5	In progress					
T6.6	In progress					
T6.7	In progress					
T6.8	Not started					
Deliverables	Status	Reviewer	Date	Assessment		
				AP1	AP2	AP3
D6.1	Completed, under review	Alfredo Arnaud, UCU				
D6.2	Published	Leonardo Steinfeld, UdelaR	14/02/2022	✓	✓	✓
D6.3	(Current deliverable)					

Milestones	Status	Reviewer	Date	Assessment	
				AP1	AP2
M6.1	Completed and reviewed	Nunzio A. Letizia (UNI-KLU)	25.03.2022	✓	✓
M6.2	Completed and reviewed	Vitali Korzhun (UNI-KLU)	29.03.2022	✓	✓
M6.3	(Current deliverable)				
M6.4	Completed and reviewed	Emma Schneider (UNI-KLU)	24.03.2022	✓	✓
M6.6	Completed				
M6.7	Not started				

Table 4.9: Results of the current WP7 activities for the first year

WP7 – Dissemination and exploitation of project outcomes						
Tasks	Status					
T7.1	Ongoing					
T7.2	Ongoing					
T7.3	Completed					
T7.4	Ongoing					
T7.5	Ongoing: 1 st webinar by UNC: IoT in universities (17.12.2021)					
T7.6	Not started					
T7.7	Not started					
T7.8	Not started					
Deliverables	Status	Reviewer	Date	Assessment		
				AP1	AP2	AP3
D7.1	Published					
D7.2	Ongoing					
Milestones	Status	Reviewer	Date	Assessment		
				AP1	AP2	
M7.1	Completed					
M7.2	Completed					
M7.3	Ongoing					
M7.5	Completed and reviewed	Leonardo Steinfeld (UdelaR)	5.04.2022	✓	✓	
M7.8	Completed					

Table 4.10: Results of the current WP8 activities for the first year

WP8 – Project coordination and management						
Tasks	Status					
T8.1	Completed					
T8.2	Started					
T8.3	Not started					
T8.4	Not started					
T8.5	Not started					
T8.6	Not started					
Deliverables	Status	Reviewer	Date	Assessment		
				AP1	AP2	AP3
D8.1	In progress					
D8.2	In progress					
Milestones	Status	Reviewer	Date	Assessment		
				AP1	AP2	
M8.1	Started					
M8.2	Started					
M8.3	Not started					
M8.4	Started					
M8.5	Not started					

5 CONCLUSIONS

This deliverable has presented an overview of the activities carried out in the first year in NEON project. In this period, the main tools for quality measurement and assessment have been put in place and started to be carried out. The project is progressing in agreement to the plan.

6 ANNEXES

Annex A shows a new evaluation template developed for the approval of courses. Annex B shows the tables that will be used to track the project advancement using the indicators of progress previously defined in the quality plan (D6.2 Annex B).

6.4. ANNEX A

In this section we report a survey template to show the desired structure and content of a course evaluation survey.

Erasmus + Project No 618942-EPP-1-2020-1-AT-EPPKA2-CBHE-JP
Network of Competences on Internet of Things - NEON

Project Name	NEON
Course Name	
Date and Time	
University	
Organisation	
Date of Assessment	

Please mark with X the appropriate column for each item according to your selected evaluation rate from 1 (worst) to 5 (best).

Evaluation Item	Evaluation Rate				
	1	2	3	4	5
What is your opinion of the general organisation and facilities exploited during the course?					
How do you evaluate the professors of the course?					
What is your opinion of the material that was distributed during the course (lab, project, etc)? (if there was any)					
To what extent did you find the teaching methodologies appropriate and interesting?					
To what extent did the course help you develop as a future engineering?					
To which extent did the course live up to your expectations?					
In general: How do you evaluate the course?					

Please mark with X the appropriate column for each item according to the following question: Do you consider that the following IoT domains were addressed in the course?

Evaluation Item	Evaluation Rate	
	Yes	No
Hardware (CPU, microcontrollers, SoC, sensors, actuators, ...)		
Operating Systems for Embedded Systems		
Communication, networks and protocols		
Mobile computing		
Distributed architecture		
Data analytics		
Security		
Energy or power		

Comments (Constructive Suggestions):

.....

6.5. ANNEX B

The following tables are defined with the purpose of tracking the project advancement through the use of the progress indicators.

1. Indicators of progress

Indicators of progress				Results by each WP						Total result
ID	Description	Source	Target	WP1	WP2	WP3	WP4	WP5	WP6	
1.1	Number of milestones reached	WP6	64							
1.2	Number of meetings	WP6	12							
1.3	Number of webinars	WP6	3							
1.4	Number of deliverables	WP6	35							
OBSERVATIONS:										

2. Indicators of dissemination

Indicators of dissemination				Source	Target	Total result
ID	Description					
2.1	Project webpage			WP7	1	
2.2	Number of visits to project web			WP7	100	
2.3	Central web platform			WP7	1	
2.4	Number of visits to web platform			WP7	200	
2.5	Designed, printed and disseminated project promotion material			WP7	6	
2.6	Newsletter, e-bulletins, newspapers			WP7	6	
2.7	Reports from presentation meetings, presentations for media and interested groups			WP7	6	
OBSERVATIONS:						

3. Indicators of quality

Indicators of quality				Total result
ID	Description	Source	Target	
3.1	QCMB established	WP6	1	
3.2	Quality Plan	WP6	1	
3.3	Quality reports	WP6	3	
3.4	Feedback, questionnaires results from clusters and other industrial partners	WP5	20	
3.5	External audits	WP8	3	
3.6	Field visits	WP6	2	
3.7	Minutes from QCMB meetings	WP6	8	
OBSERVATIONS:				

4. Indicators of direct impact

(HEIs)

Indicators of direct impact				Results by each partner (HEIs)							Total result
				EU		LA					
ID	Description	Source	Target	P1: UNI-KLU	P2: UC3M	P3: UNC	P4: UNS	P5: UNMDP	P6: UdeLaR	P7: UCU	
4.1	Number of direct beneficiaries in the partner country(ies) per year: academic staff from HEIs	WP8	50								
4.2	Number of direct beneficiaries in the PC(/year): administrative staff from HEIs	WP8	10								
4.3	Number of direct beneficiaries in the PC(/year): HE students	WP8	400								
OBSERVATIONS:											

(non HEIs)

Indicators of direct impact			
ID	Description	Source	Target
4.4	Number of direct beneficiaries in the PC(/year): non HE individuals	WP8	100
Results by each partner (non HEIs)			
P8: INCUTEX			
P9: ALASSIO			
P10: ALENET			
Associated partners			
Ex-P8: TEAC			
P12: EYCON			
P13: ALLIANSYS SRL			
P14: Santex			
P15: TELECOM ARGENTINA S.A			
P16: CONTROLNET S. A.			
P17: ABM ingeniería y sistemas S.R.L.			
P18: UTE			
P19: CONAE			
OBSERVATIONS:			Total Result

5. Indicators of training activities

(HEIs)

Indicators of training activities				Results by each partner (HEIs)							Total result
				EU		LA					
ID	Description	Source	Target	P1: UNI-KLU	P2: UC3M	P3: UNC	P4: UNS	P5: UNMDP	P6: UdelaR	P7: UCU	
5.1	Number of partner country HEIs students trained	WP4 and WP5	120								
5.2	Number of partner country HEIs academic staff trained	WP4 and WP5	60								
5.3	Number of partner country HEIs administrative staff trained	WP4	10								
OBSERVATIONS:											

(number of trainings)

Indicators of training activities				Total result
ID	Description	Source	Target	
5.5	Number of trainings	WP4	5	
OBSERVATIONS:				

(non HEIs)

Indicators of training activities			
ID	Description	Source	Target
5.4	Number of partner country non-HEI individual trained	WP4 and WP5	20
Results by each partner (non HEIs)			
P8: INCUTEX			
P9: ALASSIO			
P10: ALENET			
Associated partners			
Ex-P8: TEAC			
P12: EYCON			
P13: ALLIANSYS SRL			
P14: Santex			
P15: TELECOM ARGENTINA S.A			
P16: CONTROLNET S. A.			
P17: ABM ingeniería y sistemas S.R.L.			
P18: UTE			
P19: CONAE			
OBSERVATIONS:			Total Result

6. Indicators of modernisation on IoT

Indicators of modernisation on IoT				Results by each partner							Total result
				EU		LA					
ID	Description	Source	Target	P1: UNI-KLU	P2: UC3M	P3: UNC	P4: UNS	P5: UNMDP	P6: UdelaR	P7: UCU	
6.1	Number of courses included in the study programmes	WP3	5								
6.2	Number of labs included in the study programmes	WP3	5								
6.3	Number of study programmes involved/modified	WP3	2								
6.4	Number of the study programmes included in the web portal (central platform)	WP3	6								
6.5	Number of courses on the web portal on IoT	WP3	10								
6.6	Number of textbooks published on IoT	WP3	1								
6.7	Number of students enrolled in the courses on IoT	WP3	100								
6.8	Satisfactory survey of the new learning on IoT	WP3	2								
6.9	Students' satisfaction survey reports	WP3	2								
OBSERVATIONS:											

7. Indicators of industry co-operation

Indicators of industry cooperation				Results by each partner (HEIs)							Total result
				EU		LA					
ID	Description	Source	Target	P1: UNI-KLU	P2: UC3M	P3: UNC	P4: UNS	P5: UNMDP	P6: UdelaR	P7: UCU	
7.1	Number of university-industry labs ruled according to an agreement	WP5	6								
7.2	Number of labs created	WP5	5								
OBSERVATIONS:											

Indicators of industry cooperation				Total result
ID	Description	Source	Target	
7.3	Number of collaborating enterprises	WP5	5	
OBSERVATIONS:				

8. Indicators of management

Indicators of management				Total result
ID	Description	Source	Target	
8.1	Partnerships agreement	WP8	9	
8.2	Inter semi-annual financial reports	WP8	6	
8.3	PM board meetings and minutes	WP8	8	
8.4	PM board reports	WP8	3	
OBSERVATIONS:				

9. Indicators of sustainability

Indicators of sustainability				Results by each partner (HEIs)							Total result
				EU		LA					
ID	Description	Source	Target	P1: UNI-KLU	P2: UC3M	P3: UNC	P4: UNS	P5: UNMDP	P6: UdelaR	P7: UCU	
9.1	Number of university-industry labs ruled according to an agreement	WP5	5								
9.2	Number of signed agreement about long-term cooperation between HEIs and non academic partners	WP5	4								
OBSERVATIONS:											