



Project: Network of Competence on Internet of Things

[NEON]

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Work Package 6: Quality Control and Monitoring

Title: D6.2 Development of guidelines for QC (Quality

Control) (Quality Plan)

Lead Organisation: UC3M

Participating UNI-KLU, UC3M, UNC, UNS, UNMDP, UdelaR,

Organisation: UCU, INCUTEX, ALASSIO, ALENET, TEAC, EYCON,

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	Work Package and Outcome ref.nr WP6 D6.2				
	Title	Development of guidelines for QC			
		☐ Teaching material ☐ Event			
	Туре	☐ Learning material☐ Training material☐ Service / Product			
Deliverable data	Description	The document defines the main quality management procedures. Its goal is to provid guidelines to assess and ensure the quality of the project defining the minimum set of procedures and requirements that are needed. The document provides: i) The guidelines for Quality Control and procedures for NEON ii) Annex with templates for the different procedures			
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	□ Teaching staff				
	☐ Students				
	☐ Trainees				
Target groups	□ Administrative staff				
	☐ Technical staff				
	☐ Librarians				
	☐ Industry partners, Higher education authorities				
	□ Department / □ Department /	□ Local □ National			
Dissemination level	Faculty	☐ Local ☐ National			
		\square Regional $oximes$ International			
Lead Organisation	UC3M				
Participating	UNI-KLU, UC3M, UNC, UNS, UNMDP, UdelaR, UCU, INCUTEX, ALASSIO,				
Organisation	ALENET, TEAC, EYCON, ALLIANSYS SRL, Santex, TELECOM ARGENTINA S.A,				
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	T6.1 Establishment of the QCM Board and appointment of external				
Tools	experts for QC.				
Task	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				





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0	23.7.2021	Víctor P. Gil	UC3M	First draft of the report.
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6	14.2.2022	Ana García Armada, Víctor P. Gil	UC3M	Incorporated latest suggestions from external quality and HERE experts.





LIST OF ACRONYMS

DB	Development Board		
EU	European Union		
FO	Finantial Officer		
HEI	Higher Education Institution		
ICT	Information and Communications Technologies		
IoT	Internet of Things		
GDP	Gross Domestic Product		
LA	Latin America		
LFM	Logical Framework Matrix		
MB	Management Board		
NoC	Network of Competence		
PC	Project Coordinator		
PMBOK	Project Management Body of Knowledge		
PiC	Person in Charge		
PS	Project Secretariat		
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.

Latin America (LA) is a region of the world that still does not offer a sufficient level of equal opportunities. One of the reasons for this disparity can be identified in a constantly growing population and an increasing urbanisation into big and densely populated metropolises. The southern regions, especially Argentina and Uruguay, operate mostly in the primary sector of agricultural goods, mainly food. Most advanced economy sectors including high-tech industry are not well developed. Furthermore, unemployment is a constant and worrying issue in LA. Argentina and Uruguay are among the top riders of LA with the highest unemployment rates¹ as a result of a great deterioration of economy and a general decrease of the average Gross Domestic Product (GDP) due to scarce diversity in industry, lack of innovation, lack of qualified personnel especially in technology. Engineers are scarce in all areas, especially ICT. The demand is higher than the offer. Among the high tech market sectors, Internet of Things is extremely relevant since it spans several application domains, from quality and environmentally friendly agriculture, to cattle rising, to smart energy and renewables, to health applications, to the holistic vision of smart cities.

The European Union (EU) character of the project will ensure modernisation of the engineering profile with the inclusion of IoT skills and knowledge by having EU Higher Education Institutions (HEI)s bringing their experience and helping to enhance the quality of the study programmes. Value will be attained by creating more skilled and competent graduates, which will reflect in better-qualified engineers that work in ICT companies, with specialisation in IoT, and contribute to the innovation process of such companies at EU levels. Study programme improvements, innovative teaching and training methodologies, new labs, and internships will result in students being better prepared for a flexible international job market, recognised by employers at EU level, which enhances mobility opportunities. NEON focus is on IoT, which is aligned with the EU strategy of stimulating the wider application of ICT in society and economy. The objectives will be attained only if HEIs in LA and EU countries work together to exchange good practices, enhance curricula and their contents, and facilitate mutual studies and degrees recognition as well as cooperation with industry. LA companies will also benefit by rendering themselves more visible at EU level, potentially diminish the drain of experts and attract employees from the EU.

¹ Data source for 2021 average of 11.67% for Argentina and 12.67% for Uruguay (5th and 4th, respectively) https://www.theglobaleconomy.com/rankings/Unemployment rate/South-America/





Thus, the general goals of the NEON project are to improve and diversify the training of human resources, both in the academic field (students, professors, technicians) and in the public - private sphere, motivating innovative technologies in the ICT field, in particular the internet of things. This document sets the stage for the important task of the quality control and management (QCM) of

This document sets the stage for the important task of the quality control and management (QCM) of the project. Procedures, indicators and guidelines are defined and tenplates are provided to be used for quality control and assurance throughout the project development.

1.1 PROJECT ACTIVITIES, DELIVERABLES AND MILESTONES

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.) For completeness, the summary of tasks, deliverables and milestones are listed here.

The deliverables 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

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
- T3.3 Improvement and implementation of new learning/teaching methods, tools, ICT best practices in teaching
- D3.1 Web repository for class and lab sessions material

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

- D3.2 Report on the modernised teaching methodologies applied to IoT courses
- D3.3 Teaching and training materials for new and modernised IoT courses
- D3.4 Delivery of teaching and training classes for new and modernised IoT courses
- M3.1 Identification of modern teaching methodologies
- M3.2 Adoption of tools and equipment to enable innovative teaching methodologies
- M3.3 Collection of preliminary teaching material for new and modernised courses
- M3.4 Development of class material
- M3.5 Delivery of web repository and platform
- M3.6 Upload of the new teaching material on the web repository
- M3.7 Complete translation of shared teaching material

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
- D4.2 Report on the created five joint university-company labs ruled by an agreement





- 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
- M4.4 Purchase and installation of the laboratory equipment

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
- D5.3 Report on organised hackathons for students of the region
- D5.4 Report on student training modules on technical and entrepreneurial subjects
- D5.5 Report on teacher training modules
- 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
- M5.6 "Student training module/seminars: Hands on IoT (introductory course)
- M5.7 Define the organisation team for the proposed hackathon
- M5.8 Organisation of the student mobility for the hackathon
- M5.9 Hackathon for students. Organised at UCU
- 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
- M5.14 Workshop on communication technologies for IoT. Organised at UC3M
- M5.15 Workshop on IoT technologies for agriculture market. Organised at UdelaR by July 2023

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
- D6.4 Report on graduates profile improvements and correspondence to industry needs
- D6.5 Report on tools for monitoring students enrolment and employability/employment/entrepreneurial statistics of graduates
- D6.6 Reports on stakeholders reached beyond the project consortium
- M6.1 QCM Board establishment
- M6.2 Quantitative indicator definition for project progress evaluation, as a par ot QCMB duties
- M6.3 Activity report delivered by QCM board to MB once a year
- M6.4 Define QCM structure
- M6.5 QCM Board meeting in Madrid
- 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



- T7.9 Participate in an event of dissemination of project results
- D7.1 Central project web platform linked to the e-platforms developed in other WPs
- D7.2 Report on exploitation and dissemination plan
- D7.3 Preparation and delivery of dissemination and informative material
- D7.4 Report on open events to reach the community at-large and disseminate the results at ICT conferences
- D7.5 Report on yearly webinars (hosted in turn by the HEIs partners) broadcasted to all locations
- D7.6 Establishment of agreements for future double degrees, student mobility beyond the project duration
- D7.7 Report on agreement for the maintenance of the web platforms beyond the project life time
- D7.8 Report on partnerships for follow-up projects involving industry
- 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
- M7.4 Central web platform linked with the other online services created in the previous WPs
- M7.5 Webinar on the NoC structure and partners, hosted by UNC
- M7.6 Webinar on new / modernised IoT courses in Uruguay, hosted by UdelaR
- M7.7 Webinar on new / modernised IoT courses in Argentina
- M7.8 Open Event involving the community on studying ICT with the participation of a renowned keynote speaker in UNMdP
- M7.9 Open Event involving the community on academia-industry cooperation in teaching with the participation of a renowned keynote speaker in UCU
- M7.10 Open Event and dissemination involving the community on entrepreneurship with the participation of a keynote speaker in UNS
- M7.11 Preliminary exploitation plan
- M7.12 Signature of agreement for the prolonged existence of the web platform
- M7.13 Agreements for maintenance of joint labs with industry
- M7.14 Agreement for further cooperation in education HEIs aiming at establishing at least one double degree and promoting student mobility

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
- D8.3 Mid-term report
- D8.4 Final report





- M8.1 Project meetings and progress/status reports
- 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

2 NEON QUALITY CONTROL WORKPACKAGE (WP6)

The WP6 is devoted to quality control management, so first, the definition of quality within this project is illustrated. Then, the different instruments and boards for the quality monitoring will be described.

2.1 QUALITY EXPECTATIONS AND DEFINITION OF "QUALITY" WITHIN THE NEON PROJECT

Quality expectations of the NEON project will be first and foremost defined in terms of the project's ability to achieve the general objective (i.e. to improve and diversify the training of human resources, both in the academic field motivating innovative technologies in the ICT field, in particular the internet of things) in an operational setting defined by the four NEON axes (see Fig. 1):

- 1. Cooperation between HEIs and industry to modernise the study programme with IoT content and skills;
- 2. Adoption of modern teaching methodologies and tools, the upgrade of the lab infrastructure, and the creation of joint university-industry labs;
- 3. Implementation of training of both teachers and students;
- 4. Cooperation between HEIs in EU and LA of good practices in engineering education and experience on ICT, especifically IoT.

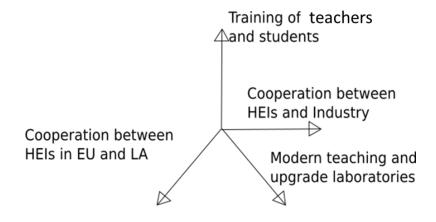


Fig. 1 Main four axes of NEON project





This approach to quality control (QC) has been formalised through the development of guidelines for QC containing the methodology that will be followed by the partners of the NEON project with the goal to achieve the highest possible quality of the project activities and results, as well as project monitoring.

Coherently to what was agreed among the partners, the achievement of the general objective shall always be in the forefront of all decisions to be taken. In practical terms, it means that the partners might adopt strategies such as:

- decide to prioritise certain activities over others
- identify and propose changes to the way activities are implemented (accordingly with Erasmus+ programme rules)
- identify and propose changes to timelines (accordingly with Erasmus+ programme rules)
- obtain feedback from industry to better adapt to their needs in the field of IoT.

Considering the related assumptions and risks, this kind of changes to project activities will always be justified by the empirical evidence coming from NEON implementation and validated by discussions among partners.

All the deliverables (specified in section 1.1. in these guidelines) will be analysed and evaluated in terms of

- Relevance: is the deliverable coherent with the planned content?
- Usefulness: did the deliverable contribute to the achievement of the general and specific objectives?
- Timing: was the deliverable delivered according to the planned timeline?

All these criteria will be approached and defined according to the project workplan as identified in the Application Form and Action Plans (modified and agreed if necessary by the Management Board (MB) on six-month basis).

Thus, the quality within the NEON project could be defined as the alignment of the deliverables and the milestones to the stakeholders' expectations. Since the different partners and workpackage leaders are aware and determined to obtain the quality of the project and the workpackages, checking the alignment of the outputs (deliverables, milestones and events) will guarantee the quality of the whole project.

2.2 QUALITY MONITORING

Generally speaking, the Project Managementn Body of Knowledge (PMBOK) distinguishes three processes in quality monitoring and management:

- a) Quality Plan Management (quality planning): to identify the requirements of quality of the project and stablish the procedures for showing the alignment of deliverables with the quality.
- b) Quality Management: to guarantee that the activities within the project follow the quality rules.
- c) Quality control and monitoring: to monitor the quality activities in order to evaluate the performance.





Quality monitoring in WP6 is devoted to identify the requirements of quality in the form of indicators, to stablish the procedures for showing the alignment of deliverables and milestones with the quality and to monitor the outputs with respect the quality rules. In this sense, the work package leaders and task leaders are responsible for guaranteeing the quality of each of the activities they are in charge of, and thus, the end project quality is fulfilled.

Quality control and monitoring of the project will take place throughout the entire project duration as a way of assessing and guaranteeing the quality and success of the project. A dedicated work package (WP6) was established to monitor and to manage the quality requirements of the project. This section of the document relies on the activities and procedures defined by the original project application, the decisions made at the kick-off meeting, and on the Partnership Agreements.

Apart from this, NEON also relies on the following documents as a reference:

- NEON project Grant Agreement
- NEON project Dissemination and Exploitation Plan
- NEON project budget and task assignment
- Erasmus + Programme Guide
- Erasmus + Frequently Asked Questions

2.3 RELATION BETWEEN QUALITY MONITORING AND NEON PROJECT MONITORING

The project management will be implemented by creating the following structure:

- Management Board (MB)
- Development Board (DB)
- Quality Control and Monitoring Board (QCMB)

The MB is led by the Project Coordinator (PC) and includes one representative per project partner country. It also includes the Project Secretariat (PS) and the Financial Officer (FO).

The MB is responsible to monitor the project progress, the achievement of milestones and the delivery of planned results as well as monitoring the financial aspects and the appropriate use of resources. In order to monitor the development activities, the MB consults with the DB. The DB includes the WP leaders and reports the progress of activities, achievements and possible difficulties to the MB who subsequently anlyses the situation and eventually proposes a contingency plan so that the project can progress and achieve the planned goals. The MB is also responsible for monitoring the implementation of contingency tasks. The PC coordinates closely with the partner representatives to ensure that the project progresses efficiently. The PC tasks are therefore:

- Lead and coordinate the project and the MB
- Monitor the project implementation with close relation to the DB
- Monitor the project financial aspects in consultation with the FO
- Guarantee that the Workpackage Leaders organise and develop their workpackages timely and with the required quality
- Evaluate difficulties and develop contingency plans
- Collect the financial reports from the partners, review them and prepare the reports due to the funding agency





Manage the organisation of plenary project meetings and events.

The MB has, at least, two meetings per year, face-to-face or via conference call. If needed, extra meetings for specific topics might be organised.

The DB is responsible for the organisation of more frequent meetings or conference calls to discuss development activities and report to the PC and MB especially in case of difficulties. The activity of the PC is supported by the PS who works on administrative and organisation activities such as, distributing meeting minutes, maintaining the project calendar, coordinating the exchange of information, coordinating the organisation of meetings, seminars, workshops, plenary meetings and maintaining the book-keeping necessary for budgeting and financial activities. Finally, conflict resolution is managed together with the Quality Control and Monitoring Board.

Project management must be transparent and flexible but also strict enough to ensure the implementation of the project activities in order to achieve the project's objectives. Each partner is equally and independently responsible for assigned activities, guaranteeing their quality, reporting and distribution of money. Contact persons are responsible for the local management at their institution, although they can ask for help from the PS.

2.4 NEON QUALITY CONTROL AND MONITORING

Quality control and monitoring work package (WP6) is led by UC3M, and is responsible for quality control and monitoring throughout the project. UC3M also coordinates the establishment of the Quality Control and Monitoring Board (QCMB) (M6.1) and appointment of external experts for QCMB. UNS consolidates indicators and correction strategies (both internal and external) (M6.2 at M3) while UC3M leads the process of internal control of project progress and outcomes (M6.3). More specific tasks, such as monitoring of graduates profile or improvements in the skills, will be implemented and coordinated by UCU. Also UCU will organise collection of questionnaires and surveys via social networks (MS6.6). Student enrolment statistics in the region will be tracked by UdelaR. Finally, UCU and UdelaR will lead the establishment of a monitoring system for employment statistics and for entrepreneurship skills of graduates and in concordance with industry.

The internal members of the Quality Control and Monitoring Board (QCMB) were defined at the project's kick-off meeting. The board consists of 9 members representing: University Carlos III de Madrid (chair), University of Klagenfurt, Universidad Nacional del Sur, Universidad de la República, two students, one from Universidad de la Republica and another from the Universidad Nacional de Mar de Plata, one external expert from Spain and two HERE, one from Argentina and the other one from Uruguay.

Quality Control and Monitoring (QCM) will be performed continuously during the project realisation. QCM will be implemented as follows:

- QCM board (QCMB) will be established and it will comprise representatives of the partner universities participating in the project and external experts outside the consortium.
- QCMB will review the project activity in consultation to the Development Board (DB) and Management Board (MB) (see WP8).





A team of external evaluators will provide an independent assessment of the project by verifying the content of the QCM reports, to give recommendations on areas that could be further developed and improved, and to provide an opportunity for dialogue among evaluators and strengthen the self-assessment process. The team of external evaluators will also verify the quality of the intermediate and final evaluation reports.

The qualitative information needed to update project indicators will be gathered through:

- Desk analysis of reports draft by the PC for each activity
- Surveys chiefly targeting students
- Qualitative questionnaires for interviews with key-informants.

Reports summarising the results of quality assessment will be sent to all project members: discussion about problems highlighted by QM will be eventually scheduled during the project meetings. The effectiveness and quality of the developed project plan and outputs of the development WPs and dissemination and exploitation WP will be visible in reports.

The QCM activities will be organised within the tasks of WP6 and will follow the requirements specified in the Logical Framework Matrix (Annex A). The status of successfully evaluated NEON documents will be marked as APPROVED BY QCMB within the Intranet project documentation portal on Confluence.

The QCMB will also report the outcome of the evaluation, the identification of deficiencies and delays (if any) to the MB and DB so that the appropriate countermeasures can be taken.

The reports on these activities will be gathered in the annual reports (D6.3), as it will be explained later on.

2.5 NEON QUALITY PROCEDURES

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. QCMB will cover two main areas.

- quality control and helping the PC with contingency planning of the project activities and results,
- monitoring the level of achievements w.r.t. the targeted goals (graduates profile improvement, employability/employment improvements, increased collaborations with industry, ...).





The main activities will be:

- Consolidation of areas to be monitored with selected indicators and correction strategies (both internal and external).
- Internal control of project progress and outcomes.
- Organise board meetings in addition to regular conference calls: one planned in Madrid.

The project activities and deliverables will be constantly monitored in consultation with the management board. Deviations and difficulties will be examined with the PC and actions for quick solution will be determined. The activities of the external QCMB members and external evaluators will be: to overview and verify the internal QA report, to give recommendations on areas that could be further developed and improved, and to provide an opportunity for dialogue among evaluators and strengthen the self-assessment process.

Indicators will be measured and updated through report analysis, surveys and questionnaires. QCM activities will also include evaluation of student and teachers reactions, achievement of objectives and impact of the project on the institutions as a whole, as well as the project results in terms of increased cooperation with the socio/economic environment, the correspondence between the graduate's skills and job market needs, the time-to-employment of graduates and statistics of employment, student awareness of their skills and their entrepreneurial attitude, and job opportunities. The assessment and monitoring of the correspondence between objectives and graduate profile, alignment of professional and academic requirements will be done. All these aspects under the umbrella of IoT skills.

Quality indicators will follow: the development of QC guidelines adopted and distributed to all partners, reports on project implementation made by WP leaders and evaluated by QCMB, reports on graduate's profile improvements and correspondence to industry needs, tools for monitoring students enrolment and employability/employment/entrepreneurial statistics of graduates developed and delivered to partners, reports on reached stakeholders beyond the consortium. Apart from establishment of quality indicators and monitoring, quality-related measures also include design of various templates to further facilitate procedures related to activities leading to staff costs and travel costs (exp. justifying travelling by personal car, etc.); the use of templates will be mandatory.

At its kick-off meeting, the QCMB approved the following procedures for its functioning:

- Regular meetings every 4 months by teleconference
- Meeting organised by Chair and agenda distributed previous to the meeting
- Any member can request an additional meeting
- Unanimous decisions or majority of votes when needed
- Consultations and decisions about quality of deliverables or milestones can be done by
 electronic means if no close meeting is foreseen, to avoid any delay. A summary will be added
 to the project Intranet for tracking purposes.





2.6 NEON REPORTING

The original project application text specifies that by the end of the project:

- regular reporting on the progress of all WPs is compulsory
- regular reporting by each lead partner is compulsory.

These reports will be considered as indicators of project quality both for their content (i.e. the information they will summarise will be part of the quality control system) and for the quality and timing of their delivery (the timely delivery of appropriate reports will be per se an indicator of quality), they will help sum up the progress in the given period, and allow the PC and QCMB to get a clear picture of the realisation of the project. In other words, if there are any discrepancies between the workplan and the realised activities, QB will react timely and prevent further delays.





2.7 NEON REPORT ANALYSIS

The reporting format is provided in the application, and confirmed at the kick-off meeting. Periodic reports will be developed by the QCM Board in order to highlight any problems encountered and suggestions on how to overcome them. Reports will include students' feedback and feedback from labour market's obtained during project development and implementation.

The basic tools for quality assessment will be: questionnaires, peer reviewing by external evaluators, feedback reports and evaluation surveys from training and workshops. Examples of the questionnaire items are: appropriateness of the learning outcomes, structure of curriculum and courses, the availability and accessibility of learning resources, interim reports on performance indicators about the student performance, student evaluation of the teaching process, improvement of teaching staff methodologies, etc.

The evaluations performed by the QCMB will be distributed to all participants. As indicated already, two representatives of students have joined the board to make sure that the student feedback is well represented.

QCMB will make a report analysis annualy in D6.3. This analysis is necessary in order to prepare an action plan for the remedy of all problems possibly identified in the reports. The conclusions made by QCMB are compulsory for all project partners. Moreover, this annual report will include the main conclusions and lessons learned to be a useful instrument to all the partners for further improvement through the years. This annual deliverable D6.3 would be recommended to be read by all the partners for the sake of continuous improvements. It would be useful to review this deliverable in the appropriate meeting of the consortium explaining the main conclusions.





3 **NEON OUTCOMES**

The outcomes of NEON project can be divided into three kinds:

- a) Deliverables: documents and reports on activities, research, surveys and effort
- b) Milestones: a specific activity or a group of activities goal accomplished
- c) Events: each of the physical or virtual activity such as laboratory, course, conference, meeting, workshop, lecturer...

Although there are these three kinds of outcomes, all the events are grouped or organised with specific milestones, and thus, the evaluation of a milestone includes also the events. In the following, the different procedures will be described.

3.1 DOCUMENT BASED DELIVERABLES

The NEON consortium ensures that all deliverables have a common appearance. This step is important for the visual recognition of the project and as an important help in final reporting to both the Project Coordinator and the funding agency.

Therefore, all partners will follow uniform templates for all document-based deliverables. The templates can be found on the NEON project management platform Confluence/Intranet in the *Templates* folder located at: https://intranet.aau.at/display/projneon/Templates.

3.2 NEON DELIVERABLE APPROVAL PROCEDURE

The following steps present the procedures for revision, assessment and publication of deliverables:

- 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 leder) 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 this document, 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.
- o If suggested changes are minor, the WP leader makes them, if not the editor(s).
- o 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 leade<u>r asks the QCMB for final approval of the the document.</u>
 - 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.

3.3 NEON MILESTONE APPROVAL PROCEDURE

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:

- 1. Whenever a milestone is achieved, the WP leader may contact the QCMB via email and attach the template <code>QCM_Manual_Template_Milestone_Verification</code> (see Annex D 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 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.

3.4 VISUAL IDENTITY CONTROL

Beneficiaries of European Union (EU) funding are obliged to display the EU flag and to acknowledge the support received under the relevant EU programmes in all communication and promotional material, as mentioned in the the EACEA's visual identity guidelines (https://eacea.ec.europa.eu/about-eacea/visual-identity-and-logos-eacea/erasmus-visual-identity-and-logos-en)





Therefore any material produced within NEON (publication of results, reports, deliverables, surveys, presentations, video material, classbooks, slides, flyers, agendas, etc.) must include on the first page/cover:

- the Erasmus+ logo followed by the sentence: "Funded by Erasmus+ Programme of the European Union."
- The project logo

In addition, more complex (written) material such as a deliverables, reports, surveys, classbooks, teaching materials, video lectures, etc. must include the following disclaimer on the inner pages:

"The European Commission support for the production of this [publication/video/presentation/etc] does not constitute an endorsement of the contents which reflects the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein."

Besides, since all partners are using the corresponding templates, the appropriate application of the visual identity rules as required by EACEA is ensured.

The project coordinator (UNI-KLU) is the overall responsible for the design of the promotional material. The UC3M team will periodically revise the material developed within the project in order to ensure the correct application of the EACEA visual identity rules.

3.4.1 NEON LOGO

The project logo serves to increase the visibility of the project. It has to be used for all the project deliverables and official project documents.







3.5 NEON EVENTS

The organisers of all the project events (working meetings, studying abroad, etc) should provide a full information package to the participants including the draft agenda, letter of invitation and a note on the logistics (informing about travel arrangements, venue, suggested hotels, etc) in due time.

The organisers will record the minutes of the meetings, which will be distributed to all the project participants and made accessible via the project portal. After each meeting, the feedback forms will be distributed among participants for quality management purposes. All these templates can be accessed through the portal at the page: https://intranet.aau.at/display/projneon/Templates

Posters and other promotional materials will be set-up during the event in order to increase visibility of the events.

Each event should be documented as appropriate using one or more of the proposed media: project website, Intranet site (Confluence), news, agenda, list of participants with affiliation, list of trainees, report, gallery, presentations (upon the approval of the presenter), video materials (upon approval of authors).

3.6 NEON WEBSITES AND OTHER ELECTRONIC TOOLS

The NEON project has set up a dedicated project website for dissemination purposes. This website was developed and is maintained by UNI-KLU, while all the partners are expected to effectively communicate the results of the project keeping the website information up to date.

A dedicated project-management portal called Intranet/Confluence is also set up and maintained by the coordinator. It can be accessed by all partners depending on their assigned tasks and roles and represents a single point of reference for the project documentation and communication among partners.

All partners are asked to promote NEON project on their websites and other electronic tools (such as: Facebook, Twitter and LinkedIn profiles/groups, newsletters, etc.) by providing short description of the project, logo and link to NEON website.

3.7 QUALITY FEEDBACK BY THE TARGET GROUPS

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. Its main items shall not be deleted.





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 NEON QUALITY ASSURANCE STRATEGY

We plan to carry out the internal monitoring by all the partners, which will include self-evaluation based on the workplan, budget and cash flow tables, MB and DB meetings, monitoring visits and questionnaires obtained at the appropriate surveys of target groups.

For quality assurance, we will deploy quality control in NEON at four major levels as listed below.

- 1. The work of individual institutions, their teams, the cooperation within the teams, as well as their cooperation with the WP leader and the partners involved in the activity will reflect in quality of project deliverables. The partners will be responsible for the quality and timeliness of the deliverables as suggested by the action plan. The quality will be ensured using an internal review process before QCMB evaluation.
- 2. Each deliverable will be evaluated by a designated member of QCMB as explained in section 4.2.
- 3. Should the reviewers, QCMB evaluators and the authors come in a profound disagreement, the project coordinator should apply a third level control of the deliverables which includes the necessary corrective actions in order to achieve acceptable deliverables. If necessary, the Coordinator may involve the rest of the Consortium.
- 4. After positive evaluation result, the WP leader publishes deliverable on the Intranet project management portal and requests the acknowledgement by each project partner. Partners' representatives acknowledge the acceptance and publication of the deliverables using a form on Confluence. After receiving the acknowledgements, the WP leader gives a final approval of the Deliverable and publishes the document.

4.1 RESPONSABILITIES OF THE CONSORTIUM

Within this project, there exist several bodies with different roles and responsibilities regarding the project activities and quality assurance procedures in particular.

An Activity leader, or Person in Charge (PiC), is assigned to each NEON deliverable. If not otherwise stated, this person is assumed to be the WP leader. Author and co-authors are reported for each deliverable. In cooperation with the Project Coordinator, QCMB controls the quality of activities and deliverables. The Management Board is the highest body of the project and is responsible for making final decision. The responsibilities of the Consortium bodies are as listed in the following:

Activity Leader (main responsible of the deliverable) is responsible for:

coordination of deliverable(s) development according to the deliverable template,





- assure the timely organisation of the work and the deliverable
- sends timely reminders about the work being done
- distribution of the work assignments among other partners involved in the activity,
- coordination of the work assignments of all partners involved in the activity,
- submission of the deliverable to the WP leader, the QCMB, and the Project Coordinator,
- implementation of the suggestions provided by the QCMB team,
- regular reporting to WP Leader, especially in case of identified issues,
- cooperation with the WP Leader and other partners in the same WP with the goal to ensure the progress of activity in line with the time schedule.

Other partners involved in the activity, the co-authors, are responsible for:

- the production of their part in the deliverable according to the instructions,
- collaborate according to the time schedule on the work in the deliverable
- provision of their contribution in compliance with the prescribed templates,
- provision of all the complementary information regarding their work (i.e. references, bibliography, methodologies used, contact details of people interviewed etc.) to the activity leader,
- implementation of amendments to their contribution requested by the QCMB.

WP Leader:

- coordinates the Work Package and ensures that all the activities contribute to the WP's objectives and are performed in the time frame as defined by the Workplan,
- makes sure that all the partners are smoothly cooperating in order to accomplish the WP's objectives,
- sends timely reminders about submission deadlines and the procedures to be followed
- provides inputs and suggestions to the activity leaders,
- provides comments and suggestions on the deliverables,
- verifies the satisfactory implementation of the recommendations,
- reports to QCMB, MB or the project coordinator as required.

Quality Control and Management Board (QCMB):

- is coordinated by the QCMB Leader,
- receives reports from Activity leaders and WP leaders and provides feedback,
- verifies the satisfactory implementation of the recommendations,





- cooperates with the Project Coordinator on quality related issues cooperates with the QCMB and the activity leaders on all matters arising relevant to ensure the quality of the project's deliverables,
- accepts the deliverables or provides final comments to the Task leaders and WP leaders,
- informs QCMB, WP leaders and Task leaders of any changes in the implementation of the project that may affect the timing or the content of the relevant deliverables.

Development Board (DB):

- reports the progress of activities, achievements and possible difficulties to MB who
 analyses the situation and proposes a contingency plan in case of issues so that the
 project can progress and achieve the planned goals.
- cooperates with the Project Coordinator.

Management Board (MB):

- is responsible to monitor the project progress, the achievement of milestones and the delivery of planned results as well as monitors the financial aspects and the use of resources,
- officially approves and finally accepts the deliverables.
- cooperates with the Project Coordinator.

4.2 PROJECT RISK MANAGEMENT

It is advised that a regular risk assessment be carried out during the Management Board meetings, which shall lead to corrective actions and potential adaptations of the workplan. This assessment will take care of issues that could endanger the project achievements. Specific emphasis will be on monitoring the possible risks identified in the Logical Framework Matrix of the Project Proposal (Annex A). These include financial risks (overspending and underspending), timing (postponing of activities) and sustainability of the project results. The main aim will be to provide a sound assessment, to anticipate challenges in a systematic way and to minimise the potentially negative overall impact. In case of serious risks, MB should suggest alternatives, workarounds and the proposed corrective actions that will make the risk consequences acceptable for the consortium.

The identification and assessment of new risks is a joint responsibility of all project partners and of external evaluation experts who have to communicate them to the Project Coordinator and the Management Board, eventually suggesting also possible interventions and solutions, as soon as they get aware of those risks. In particular, partners may think of preventive actions (avoiding that the risk occurs) and corrective actions (decreasing the severity and impact), specifying also the resources that would be needed.





In any case, if any of the partners detect a problem, they should contact the Project Coordinator.

The main risks identified up to now are summarised in the following table:

RISK	PROPOSED MITIGATION STRATEGY	
Disagreement between partners Where disagreement occurs between participating partners the lead partner will act to mediate discussion and locate a solution that may require compromise. In the case of disagreement between the lead partner and another partner then another member of the partnership will be asked to assist in the process of resolution. Should a substantial disagreement arise the full consortium will be involved in developing a shared understanding of the problem and agree as a group the best resolution and actions to move forward.		LOW
Communication problems among partners	In case of communication issues, the project coordinator will introduce regular checks with responsible WP leaders, either by phone or in person, to monitor progress of tasks and to address any professional or personal issues that could affect the project.	LOW
Key project personnel leaving the project	PC will promptly re-allocate resources and assign replacements in case of necessity. If necessary, reschedules will be proposed in a way to minimise the influence of delays to related project activities.	MEDIUM
Missing deadlines. PC will regularly monitor the progress of tasks and milestones and impose internal deadlines in case of necessity.		LOW
Some companies are not sharing interesting data due to industrial secrets	NEON members will explain the confidentiality measures of the project and how the imporvements seeked by NEON will also benefit them.	MEDIUM

All the partners should take care of the proper allocation of resources. There are several main risks in this field: the delay of the project implementation; the rushed implementation with low quality; an over/underspending; and that the relevant expenditures are not timely invoiced or validated.

4.3 PARTNERS' TECHNICAL AND FINANCIAL REPORTING

The main guidelines for the reporting are established in the partnership agreement and management deliverables. WP8 is responsible for performing the reporting procedure in a timely manner and that





the budget is spent according to the plan. The project's Management Board, Development Board and Coordinator will check the reporting documents by taking into consideration the following criteria: conformity of the expenditures with the budget; eligibility of the expenditures; correctness and completeness of all supporting documents and certified copies of invoices; correctness of the calculations and applied exchange rates; financial reports have to be signed in original by the appointed contact person of partner institution.

In case that any information is not complete or justified, the Management Board will recommend how this situation can be rectified.

4.4 SUMMARY OF QUALITY ASSESSMENT TOOLS

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.

5 ANNEXES

Several supporting documents were elaborated for the overall enhancement of the project quality assurance plan.

Many quality assurance actions are related to the LFM, which was part of the original project proposal. This document is attached in its integrity as Annex A.

An important part of the quality assurance activities involved the identification and definition of quantitative and qualitative indicators of progress. These elements are reported in Annex B.

Annexes C and D show the step-by-step procedures developed for the approval of deliverable and milestone related documents.





Most activities in the second half of the project for the quality assurance team involve surveys and questionnaires. Annex E reports a survey template showing the desired structure for the documents/tools used for these activities.

- 1. Annex A: Logical Framework Matrix (LFM)
- 2. Annex B: List of Indicators of Progress
- 3. Annex C: Procedure for Deliverable Approval
- 4. Annex D: Procedure for Milestone Approval
- 5. Annex E: Survey Template

Other supporting materials and templates are available for internal use and are located within the NEON project Intranet template folder located at https://intranet.aau.at/display/projneon/Templates.

5.1 ANNEX A

The Logical Framework Matrix (LFM) extracted from the original project proposal is presented here for organisational purposes. It starts on next page for formating reasons.





Logical Framework Matrix (LFM)				
Wider Objective:	Indicators of progress:	How indicators will be		
What is the general	What are the key indicators	measured:		
objective, to	related to	What are the sources of		
which the project will	the wider objective?	information on		
contribute?	The improved	these indicators?		
Create a network of	competences, skills and	Surveys collected from all		
competence on Internet of	abilities of engineers on	stakeholders: students,		
Things (IoT) with academic	IoT and ICT technologies.	teachers, industry and		
and industrial partners.	Improve the HEI-industry	society.		
Map, develop and share	cooperation	Reports from external		
competence and know		evaluators		
how related to		Responses on the posts of		
Information		the project web pages and		
and Communication and		social networks		
IoT technologies.				
Modernise the curricula in				
information engineering				
by				
including IoT topics.				
Foster the acquisition of				
digital skills and new				
learning methods				
Specific Project	Indicators of progress:	How indicators will be	Assumptions & risks	How the risks will be mitigated:
Objective/s:	What are the quantitative and	measured:	What are the factors and	• The administrative staff at
What are the specific	qualitative indicators showing	What are the sources of	conditions not under	different levels will be involved
objectives,	whether	information that	the direct control of the	to increase the awareness on the
which the project shall	and to what extent the	exist and can be collected? What	project, which are	project activities and goals.
achieve?	project's	are the		During the preparation activities





- To modernise the curricula in ICT and IoT engineering, with the collaboration of European universities and local industry partners.
- Development of 5 new or modernised laboratories on IoT and ICT subjects in collaboration with local industries.
- Render the IoT topic more accessible so that to attract more students including female students to study information technology
- Develop teaching material and render it available on an open platform.

- specific objectives achieved?
- Number of new / modernised courses
- Number of new learning / teaching tool adopted by LA university partners Number of professional training courses develop in the framework of the project
- Number of new / modernised laboratories developed in cooperation with industrial partners
- Number of partner country "HEIs' students" to be trained (target: 120)
- Number of partner country "HEIs' academic staff" to be trained (target: 60)
- Number of partner country "HEIs' administrative staff" to be trained (target: 10)
- Number of partner country "non-HEI

- are methods required to get this information?
 - Project reports
 - Project website
 - Number of partners and collaborators of the network of competence
 - Posts on social networks
 - Official documents from each university and industry partner
 - International cooperation agreements

necessary to achieve these objectives? What risks have to be considered?

- ASSUMPTIONS:
- Awareness and commitment of stakeholders to cooperate with academic institutions
- The activities will be done as planned.
- The consortium specialists cover the required skills to develop the planned activities.
- RISKS:
- Rigid HEIs administrations will slow down project activities.
- Rigid national laws may slow down international agreements and purchase of equipment.

(WP1) an analysis of the risks will be performed, and a plan to mitigate the risks will be developed.





	individuals" to be trained			
	(target: 20)			
	Number of direct			
	beneficiaries in the			
	Partner country(ies) per			
	year: academic staff from			
	HEIs (target: 50)			
	 Number of direct 			
	beneficiaries in the PCs			
	(/year): administrative			
	staff from HEIs (target:			
	10)			
	 Number of direct 			
	beneficiaries in the PCs			
	(/year): HE students			
	(target: 400)			
	 Number of direct 			
	beneficiaries in the PCs			
	(/year): non HE			
	individuals (target: 100)			
Outputs (tangible) and	Indicators of progress:	How indicators will be	Assumptions & risks	How the risks will be mitigated:
Outcomes (intangible):	What are the indicators to	measured:	What external factors and	 A collaboration platform will be
Please provide the list of	measure	What are the sources of	conditions must be	installed to share ideas and
concrete	whether and to what extent	information on	realised to obtain the expected	documents between partners in
DELIVERABLES -	the project	these indicators?	outcomes and	order to increase bureaucratic
outputs/outcomes	achieves the envisaged results	 Internal reports 	results on schedule?	efficiency.
(grouped in Work	and	 Project website posts 	• ASSUMPTIONS:	 Stakeholders will be engaged
packages), leading	effects?	 Project website number of 	 Good project management. 	with modern media
to the specific objective/s.:	 Milestones (MS) are used 	visits	Good financial management.	• During the preparation activities





- WP1:
- D1.1 Consolidated analysis of needs in Argentina and Uruguay
- D1.2 Consolidated project plan of implementation actions
- WP2:
- D2.1 Report on management platform to coordinate the NoC
- D2.2 Report on the creation of the legal framework for the NoC
- D2.3 Report that defines the governance of the NoC
- D2.4 Report on network implementation
- WP3:
- D3.1 Web repository for class and lab sessions material
- D3.2 Report on the

- as indicators of progress (M=moth).
- MS1.3 Preliminary summary of industry needs, profile competencies and skills needed on IoT (M5)
- MS1.7 Completion of the action plan and guidelines (M6).
- MS2.1 Creation of the management platform coordinate the NoC (M2)
- MS2.5 Meeting of the NoC group to coordinate the activities (M7)
- MS3.1 Identification of modern teaching methodologies (M7)
- MS3.2 Adoption of tools and equipment to enable innovative teaching methodologies (M12)
- MS3.6 Teaching material freely accessible the web repository (M30)
- MS3.7 Complete translation of shared teaching material (M32)

- Organised events
- Rosters with signatures
- Number of partners of the network of competence
- Number of delivered surveys
 Number of responses from surveys
- Number of posts on social networks
- Number of new / modernised courses developed in the framework of the project
- Number of students trained
- Number of professionals trained
- Number of administrative staff trained
- Number of developed laboratories
- Quality control and management reports
- Minutes of the meeting and formal PM board decisions
- Articles on newsletters, local newspapers
- Number of signed agreements for long-term cooperation between HEIs

- Consensus in the consortium about the most important issues.
- Slow reaction of HEIs and Industry partners to provide data concerning joint project activities can cause delays in participative processes
- Adequate response of key stakeholders to questionnaires and call for interviews
- Academic and public authorities will be motivated to implement and present the achieved project results that include modernised university industry labs, teaching methodologies
- Timely advertising and media promotion to reach the majority of interested groups.
- Well-defined internal evaluation procedures and protocols in partner HEIs
- RISKS:
- Low interest by internal human resources to be enrolled in training activities

(WP1) an analysis of the risks will be performed, and a plan to mitigate the risks will be developed.





modernised teaching	MS4.3 Define the	and industry partners	is a small rate risk for the	
methodologies	procurement procedure	Number of students	proposed project for HEIs, but	
applied to IoT courses	(M6).	enrolled in ICT and IoT	medium rate risk for industry	
D3.3 Teaching and	MS4.4 Purchase and	classes	partners	
training materials for	installation of the	Number of students that	Members of the Project	
new and modernised	laboratory equipment	performed internships with	Management Board and	
IoT courses	(M20).	industrial partners	working groups are	
• D3.4 Delivery of teaching	MS5.2 Creation of the	External audits	overloaded with not related	
and training	website section with		with the project	
classes for new and	training and internship		Delay of supplying the	
modernised IoT	opportunities (M6).		equipment due to import	
courses	MS5.13 Workshop on		regulations, etc	
• WP4:	teaching methodologies			
• D4.1 Report on the	for IoT (M7).			
laboratory	MS5.5 Create the			
infrastructure and	training action plan and			
equipment at each LA	agenda for both students			
university	and teachers (M10).			
D4.2 Report on the	 MS5.6 Student training 			
created five joint	module/seminars (M33)			
university-company	MS5.9 Hackathon for			
labs ruled by an	students (M18)			
agreement	MS5.14 Workshop on			
• WP5:	communication			
• D5.1 Report on the	technologies for IoT			
training/internships	(M19)			
website section	MS5.15 Workshop on IoT			
• D5.2 Report on the	technologies for			
framework for	agriculture market (M31)			





training and	MS6.1 QCM Board		
internships	establishment (M2).		
• D5.3 Report on	MS6.2 Quantitative		
organised hackathons	indicator definition (M3).		
for students of the	MS6.3 Activity report		
region	delivered by QCM board		
• D5.4 Report on	to MB once a year (M11, M23,		
student training	M35).		
modules on technical	MS6.5 QCM Board		
and entrepreneurial	meeting in Madrid		
subjects	(M18);		
• D5.5 Report on	MS6.6 Implementation of		
teacher training	surveys and		
modules	questionnaires and		
• WP6:	analysis of social		
• D6.1 Establishment of	networks (M7).		
QCB	MS7.3 Central web		
• D6.2 Development of	platform released (M12).		
guidelines for QC	• Three Webinars (M10),		
• D6.3 Reports on	(M22), (M34)		
project	• Three Open Events (M9),		
implementation	(M21), (M33).		
• D6.4 Report on	MS7.11 Preliminary		
graduates profile	exploitation plan (M24).		
improvements and	MS7.13 Agreements for		
correspondence to	maintenance of joint labs		
industry needs	with industry (M27).		
• D6.5 Report on tools	MS8.1 Project meetings		
for monitoring	and progress/status		





			1
students enrollment	reports (every month)		
• D6.6 Reports on	MS8.2 Yearly physical		
stakeholders reached	project meetings,		
beyond the project	Klagenfurt (M1), Madrid		
consortium	(M9), Cordoba(M20),		
• WP7:	Klagenfurt (M33)		
D7.1 Central project	MS8.4 PC and the		
web platform linked	funding agency will		
to the e-platforms	communicate annually		
developed in other	(M1, M13, M25, M36).		
WPs	MS8.5 Financial reports		
• D7.2 Report on	(M12), (M24), (M36)		
exploitation and			
dissemination plan			
• D7.3 Preparation and			
delivery of			
dissemination and			
informative material			
• D7.4 Report on open			
events			
• D7.5 Report on yearly			
webinars			
• D7.6 Establishment of			
agreements for double			
degrees			
D7.7 Maintenance of			
the web platforms			
beyond the project			
life time			





	Г	T		7
• D7.8 Follow-up projects				
involving industry				
• WP8:				
D8.1 Report on the				
PM board and its				
establishment				
• D8.2 Report on the				
eplatform				
for sharing				
documentation				
• D8.3 Mid-term report				
D8.4 Final report				
Activities:	Inputs:		Assumptions & risks	How the risks will be mitigated:
What are the key	What inputs are required to		What pre-conditions are	 Multiple remote meetings
activities to be	implement		required before the	between involved partners to
carried out (grouped in	these activities, e.g. staff		project starts? What	agree on all activity planned in
Work	time,		conditions outside the	the project proposal
packages) and in what	equipment, mobilities,		project's direct control have to	 Web system to share all
sequence in	publications		be present for	necessary documentation for the
order to produce the	etc.?		the implementation of the	development of the project
expected	• STAFF TIME:		planned activities?	proposal
results?	Total: 4388 days		ASSUMPTIONS:	
• WP1:	• CAT1: 52 days		Well-organised coordination	
• T1.1 Survey and	• CAT2: 2303 days		and	
analysis of IoT courses	• CAT3: 1376 days		cooperation based on mutual	
• T1.2 Guidelines for	• CAT4: 657 days		understanding among all	
curriculum	Total staff costs: 398616		partners at national and	
modernisation	EURO		international level.	
• T1.3 Implementation	• EQUIPMENT:		High commitment of project	



framework for student

• EU-EU: 16 days



actions of NoC	• 5 laboratories ill be	partners and especially of
• WP2:	developed	nonacademic
• T2.1 Develop a	UNC "Digital	partners for the
management platform	communications	achievement of project
for NoC	laboratory", 31000 EURO	objectives.
• T2.2 Develop policies	UNS "Signal processing	Availability and motivation of
and procedures to	for communications	key staff from the Industrial
regulate NoC	laboratory", 59500 EURO	partners.
• T2.3 Define the	UNMdP "Communication	Great commitment and active
governance of NoC	technologies applaied to	participation of training/
• WP3:	IoT", 59500 EURO	seminar
• T3.1 Adoption of new	 UdelaR "IoT laboratory", 	participants
methods, tools in	59500 EURO	Full recognition of new
teaching	 UCU "IoT for agribusiness 	methodology for development
• T3.2 Creation/	laboratory", 59500 EURO	of
modernisation of	MOBILITIES:	study programmes ICT and IoT
teaching material	For staff members	engineering based on
• WP4:	• WP1:	HEIIndustry
• T4.1 Creation of joint	• EU-EU: 0 days	cooperation in involved
university-industry labs	• EU-SA: 0 days	LA countries.
• T4.2 Pilot lab	• SA-SA: 24 days	Support by university
development.	•	management for the
• WP5:	• WP2,3,4:	implementation of objective,
• T5.1 Creation website	• EU-EU: 0 days	thorough guidelines handbook
for training and	• EU-SA: 0 days	and making of an effective
internship	• SA-SA: 0 days	action
opportunities	•	plan for implementation of
• T5.2 Implement	• WP5:	modernised study programme

through different mechanisms





training	• EU-SA: 216 days	including accreditation.
• T5.3 Implement	• SA-SA: 32 days	Readiness of university
framework for student	•	partners
internships in	• WP6:	to create a network of shared
companies	• EU-EU: 3 days	teaching material.
• T5.4 Offer	• EU-SA: 8 days	High schools' students and
technoeconomic,	• SA-SA: 0 days	society at large be regularly
entrepreneurial	•	approached and kept informed
training modules	• WP7:	about project results.
• T5.5 Implement	• EU-EU: 0 days	• RISKS:
teacher staff training		Low/slow reaction by
on technology and	• EU-SA: 0 days	management offices at the
modern prototyping	• SA-SA: 93 days	universities.
tools for IoT	•	Low/slow reaction of the
• T5.6 Implementation	• WP8:	administration offices at the
of three workshops on	• EU-EU: 15 days	partner companies.
IoT and ICT	• EU-SA: 132 days	
technologies	• SA-SA: 42 days	
• WP6:	•	
• T6.1 Establishment of	For students	
the QCM Board and	• WP5:	
appointment of an	• EU-EU: 0 days	
external expert for	• EU-SA: 900 days	
QC	• SA-SA: 647 days	
• T6.2 Consolidation of	Total travel costs:	
areas to be monitored,	133990 EURO	
indicators, and	Total costs of stay:	
correction strategies	136365 EURO	
• T6.3 Internal control	SUBCONTRACTING:	





of project progress	External financial control		
of project progress	II II		
and outcomes	and audit for the full project		
• T6.4 Monitor	Domain and hosting of		
graduates profile,	the web platform and		
improvements in the	material repository		
skills	Translation costs		
• T6.5 Collect	 4 workshops organisation 		
questionnaires and	costs		
surveys via social	Support for HERE		
networks	advisors from Uruguay		
• T6.6 Monitor student	and Argentina		
enrolment statistics in	One external quality		
the region	control expert		
• T6.7 Monitoring	Three open events		
system for	organisational costs		
employment statistics	Printed material for		
of graduates	project presentation and		
• T6.8 Monitoring	promotion		
system for	Support for video editing		
entrepreneur attitude	to prepare dissemination		
• WP7:	material to publish online		
• T7.1 Development of	Total subcontracting costs:		
the project web site	61500 EURO.		
combined with the web			
loped in the other			
WPs1			
• T7.2 Preparation of			
exploitation and			
dissemination plan			
aissemmation plan			





• T7.3 Create		
promotional and		
dissemination		
material		
• T7.4 Organise an		
annual open event		
• T7.5 Organise a		
yearly event in the		
form of a webinar		
• T7.6 Establish		
agreements for future		
double degrees		
• T7.7 Maintenance of		
the web platform		
 T7.8 Partnerships for 		
follow up projects		
• WP8:		
 Creation of PM board 		
• T8.2 Creation of e-		
platform		
T8.3 Coordinate		
overall project		
• T8.4 Maintain flow of		
information between		
partners and EC		
• T8.5 Organise regular		
meetings		
• T8.6 Monitor		
financial aspects		





5.2 ANNEX B

In the following, we report the list of identified/defined indicators of progress for the tracking of project advancement.

Indicators

Indicators of progress

Indicator ID	Description	Target	Source
1.1	Number of milestones reached	64	WP6
1.2	Number of meetings	12	WP6
1.3	Number of webinars	3	WP6
1.4	Number of deliverables	35	WP6

Indicators of dissemination

Indicator ID	Description	Target	Source
2.1	Project webpage	1	WP7
2.2	Number of visits to project web	100	WP7
2.3	Central web platform	1	WP7
2.4	Number of visits to web platform	200	WP7
2.5	Designed, printed and disseminated project promotion material	10	WP7
2.6	Newsletter, e-bulletins, newspapers	3	WP7
2.7	Reports from presentation meetings, presentations for media and interested groups	6	WP7

Indicators of quality

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

Indicators of direct impact

Indicator ID	Description	Target	Source
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4.1	Number of direct beneficiaries in the partner country(ies) per year: academic staff from HEIs	50	WP8
4.2	Number of direct beneficiaries in the PC(/year): administrative staff from HEIs	10	WP8
4.3	Number of direct beneficiaries in the PC(/year): HE students	400	WP8
4.4	Number of direct beneficiaries in the PC(/year): non HE individuals	100	WP8

Indicators of training activities

Indicator ID	Description	Target	Source
5.1	Number of partner country HEIs students trained	120	WP4 and WP5
5.2	Number of partner country HEIs academic staff trained	60	WP4 and WP5
5.3	Number of partner country HEIs administrative staff trained	10	WP4
5.4	Number of partner country non-HEI individual trained	20	WP4 and WP5
5.5	Number of trainings	5	WP4

Indicators of modernisation on IoT

Indicator ID	Description	Target	Source
6.1	Number of courses included in the study programmes	5	WP3
6.2	Number of labs included in the study programmes	5	WP3
6.3	Number of study programmes involved/modified	2	WP3
6.4	Number of the study programmes included in the web portal (central platform)	6	WP3
6.5	Number of courses on the web portal on IoT	10	WP3
6.6	Number of textbooks published on IoT	1	WP3
6.7	Number of students enrolled in the courses on IoT	100	WP3
6.8	Satisfactory survey of the new learning on IoT (answers)	33	WP3





6.9 Students' satisfaction survey reports	2	WP3
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Indicators of industry co-operation

Indicator ID	Description	Target	Source
7.1	Number of university-industry labs ruled according to an agreement	5	WP5
7.2	Number of labs created	5	WP5
7.3	Number of collaborating enterprises	5	WP5

Indicators of management

Indicator ID	Description	Target	Source
8.1	Partnerships agreement	9	WP8
8.2	Inter semi-annual financial reports	6	WP8
8.3	PM board meetings and minutes	8	WP8
8.4	PM board reports	3	WP8

Indicators of sustainability

Indicator ID	Description	Target	Source
9.1	Number of signed agreement about long-	4	WP5
	term cooperation between HEIs and non		
	academic partners		

Curriculum development

Indicator ID	Description	Target	Source
10.1	Number of learners / trainees enrolled (per intake / course delivery)	10	WP5
10.2	% of the new curriculum taught in foreign language of the total of new curriculum developed by the project	> 0%	WP5

Development of network of competence on IoT

Indicator ID	Description	Target	Source
11.1	Number of partners of the network of	> 10	WP2
	competence		





5.3 ANNEX C

We report in the following two templates related to the process of deliverable approval:

- QCM_Manual_Template_Deliverable_Review
- QCM_Manual_Template_Deliverable_QB_evaluation

The documents start on the next page.





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

Workpackage:	Number and title (e.g. "WP1, Title of the Workpackage")
Deliverable:	Number and title (e.g "D1.1, Title of the Deliverable)
Deliverable Authors:	
WP Leader:	Name Surname, Pxx/PPartner Acronym (Partner ID)
Reviewer:	Name Surname, Pxx/PPartner Acronym (Partner ID)

Assurance point	Issues to be addressed	Assessment	Comments	Recommendations
1.a Compliance with the objectives of NEON	Does the document comply with the overall objectives of the project?	YES NO PARTIALLY		
1.b Compliance with the specific objectives of the workpackage	Does the document comply with the Objectives as specified under WP descriptions?	YES NO PARTIALLY		
1.c Correspondence with the description of work of the relevant activity	Does the document correspond with the activity description as specified in the Application Form?	YES NO PARTIALLY		
2.a Compliance with NEON Template	Is the document presented using the Project's predefined template?	YES NO		
2.b Adequacy of complementary information	Examples of complementary info: - External sources used - Bibliography - List of contacts - Methodology used (i.e. for surveys)	YES NO		
3. Adequacy of written language	Level of written English	EXCELLENT		





Assurance point	Issues to be addressed	Assessment	Comments	Recommendations
		ADEQUATE POOR		
4. Overall assessment and suggestions for improvement				
Date of review:		Click or tap to enter	r a date.	
Deadline for submission of corrections:		Click or tap to enter	r a date.	





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

Workpackage:	Number and title (e.g. "WP1, Title of the Workpackage")
Deliverable:	Number and title (e.g "D1.1, Title of the Deliverable)
Deliverable Authors:	
WP Leader:	Name Surname, Pxx/PPartner Acronym (Partner ID)
QB evaluator:	Name Surname, Pxx/PPartner Acronym (Partner ID)

Assurance point	Issues to be addressed	Assessment	Description of issue if present
Adequacy of deliverable	General compliance of deliverable	YES 🗌	
1. Adequacy of deliverable	specifications. Correct use of methodologies.	NO 🔲	
	Adequate use of project's template,	YES	
2. Deliverable format	external sources, bibliography and other	NO 🗌	
	related information.		
3. Adequacy of written language	Level of written English is adequate	YES	
Data of O allia Assessment of social		NO L	
Date of Quality Assurance performed	ру ЦСМВ:	Click or tap to enter	a date.





5.4 ANNEX D

Here we show the procedure to complete a milestone approval. This procedure requires the completion of two documents.

- QCM_Manual_Template_Milestone_Verification
- QCM_Manual_Template_Milestone_Evaluation

The documents start on the next page for formatting purposes.





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

Work Package:	Number and title (e.g. "WP1, Title of the Workpackage")
Milestone ID:	Number and title (e.g "MS1.5, Title of the Milestone as listed in the proposal")
Related Deliverables (if present):	D5.2
WP Leader:	Name Surname, Pxx/PPartner Acronym (Partner ID)
QB Evaluator:	Name Surname, Pxx/PPartner Acronym (Partner ID)

	Document name		Reference (link)
List of documents and proofs			
supporting the completion of the			
milestone			
Date of QCMB Evaluation Request:		Click or tap to ente	r a date.





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

Work Package:	Number and title (e.g. "WP1, Title of the Workpackage")
Milestone ID:	Number and title (e.g "MS1.5, Title of the Milestone as listed in the proposal")
Related Deliverables (if present):	D5.2
WP Leader:	Name Surname, Pxx/PPartner Acronym (Partner ID)
QB Evaluator:	Name Surname, Pxx/PPartner Acronym (Partner ID)

	Document name		Reference (link)
List of documents and proofs			
supporting the completion of the			
milestone			
Date of QCMB Evaluation Request:		Click or tap to ente	r a date.

Assurance point	Issues to be addressed	Assessment	Description of issue if present
Was the milestone successfully completed?	Do the activities envisioned in the milestone comply with the objectives specified in the project proposal?		
Was the milestone completed by the specified deadline?	When was the milestone completed? Does this comply with the date specified in the project proposal? (e.g., MS1.5 by M6)		
Date of Quality Assurance performed	by QCMB:	Click or tap to enter	ra date.





5.5 ANNEX E

In this section we report a survey template to show the desired structure and content of a meeting / event 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
Event Name	
Date and Time	
Place of Event	
Name (Optional)	
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		Evalu	ation	Rate	
	1	2	3	4	5
What is your opinion of the general organisation and facilities exploited during the event?					
To which extent did the event cover the announced title?					
What is your opinion of the presenters/facilitators?					
Level of quality of presentations given by speakers?					
To what extent did the event cover your professional needs?					
What is your opinion of the material that was distributed before or during the event? (if there was any)					
How do you evaluate the agenda of the event?					
How do you evaluate the technical resources used?					
To which extent did the event live up to your expectations?					
How satisfied are you from the level of participation to the event proceedings?					
Communication for preparation of the event was satisfactory.					
The targets of the meeting were fulfilled.					

С	0	m	m	e	nt	S	(C	O	n	S	tr	u	С	ti	۷	e	•	S	u	g	g	je	S	t	ic	10	n	S):																																			
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٠.			٠.	٠.		٠.	٠.	٠.	٠.	-		٠.	٠.			٠.	•	٠.	٠.		٠.	٠.		٠.			٠.		٠.		٠.		٠.		٠.	•	٠.	٠.	-	٠.	٠.	-	٠.	-	٠.	٠.	٠.	٠.	٠.	٠.	٠.	٠.	 	٠.	٠.		 	 ٠.	٠.	 -	 ٠.	٠.	 ٠.	 ٠.	



