ICU- Knowledge triangle, innovation: Reinforcing of Education, Research E.health & Medical links 609506-EPP-1-2019-1-SE-EPPKA2-CBHE-JP

# THE QUALITY MANUAL TQM of ICU-RER

WP8

Edited by

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#### Disclaimer:

This document is elaborated on the basis of the Erasmu+ project ICU- Knowledge triangle, innovation: Reinforcing of Education, Research E.health & Medical links 609506-EPP-1-2019-1-SE-EPPKA2-CBHE-JP, cofunded by the Erasmus+ Programme of the European Union.

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#### 609506-EPP-1-2019-1-SE-EPPKA2-CBHE-JP

#### **Project Information**

Reference Number	609506-EPP-1-2019-1-SE-EPPKA2-CBHE-JP		
Application Title	ICU-Knowledge Triangle, Innovation: Reinforcing of Education- Research E-Health & Medical Links		
Application Acronym	ICU-RER		
Action Code	CBHE-JP		
Project Start Date	15-Nov-2019		
Project End Date	14-Nov-2022		
Duration (months)	36		
Grant Requested	835,345.00		
EUD Consultation	YES		

#### Coordinator

Name of Organisation	LINNEUNIVERSITETET
Street	LINNAEUS UNIVERSITY
City	VAXJO
Country	Sweden
Website	

#### **International Dimension**

Regional Focus	Intra-Regional
Involved Regions Apr	R3
Country Partner Coun	SE
Programme Countries	LB (6), EG (9)
	SE (1), IT (2), EE (1), AT (1)

#### **Project Characteristics, Aims and Objectives**

Project Type <b>○</b>	Multi-country project		
Specific Activity	Strengthening of relations between HEIs and the wider economic and social environment		
Subject/Thematic Are	University-enterprise cooperation, entrepreneurship and employability of graduates		
CBHE Actions	Improve the level of competences and skills in HEIs by developing new and innovative education programmes		
	Improve the quality of higher education and enhance its relevance for the labour market and society		
CBHE Aims and Objec	Support eligible Partner Countries to address the challenges facing their higher education institutions and systems, including those of quality, relevance, equity of access, planning, delivery, management, governance		
	Support the modernisation, accessibility and internationalisation of the higher education field in the eligible Partner Countries		







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Selection Compendium CBHE 2019

#### **Project Partnership**

Role	Region	Participant Organisation Name	Countr y
Contracto	EU	LINNEUNIVERSITETET	SE
Partner	R3	AL-AZHAR UNIVERSITY	EG
Partner	R3	ALEXANDRIA UNIVERSITY	EG
Partner	R3	ASSIUT UNIVERSITY	EG
Partner	R3	Badr University in Cairo- Egypt- BUC	EG
Partner	R3	BEIRUT ARAB UNIVERSITY	LB
Partner	R3	INTERNATIONAL FOR APPLIED SCIENCE AND TECHNOLOGY	EG
Partner	R3	LEAD Healthcare Consultancy	LB
Partner	R3	MODERN UNIVERSITY FOR BUSINESS AND SCIENCE	LB
Partner	R3	NOTRE DAME UNIVERSITY - LOUAIZE	LB
Partner	R3	OCTOBER 6 UNIVERSITY	EG
Partner	R3	October 6 University Hospital	EG
Partner	R3	SIBLINE GOVERNMENTAL HOSPITAL	LB
Partner	R3	Sinai University	EG
Partner	R3	THE BRITISH UNIVERSITY OF EGYPT (BUE)	EG
Partner	R3	UNIVERSITE LIBANAISE	LB
Partner	EU	CESIE	IT
Partner	EU	Institut fur den Donauraum und Mitteleuropa - IDM	AT
Partner	EU	TALLINNA TEHNIKAULIKOOL	EE







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## The Quality Manual (TQM) ICU- Knowledge triangle, innovation: Reinforcing of Education, Research E.health & Medical links 609506-EPP-1-2019-1-SE-EPPKA2-CBHE-JP

#### **EXECUTIVE SUMMARY**

As the part of the internal quality control, the project team has developed the Quality manual (TQM) to ensure the high quality of the project activities and outcomes.

The TQM is a deliverable withing WP. 8 "Quality Plan". The contents and structure of the manual is developed in line with the ICU\_RER project structure and work plan, keeping in mind the extensive experience and practice of Quality Control and Monitoring of implementing multiple EU projects in the framework of Erasmus+ majority of this ICU-RER project.

TQM defines processes for planning and executing of the project activities in order to achieve highest possible quality. In this Plan minimum principle, requirements and processes needed to implement an effective quality assurance and control is proposed, with the aim to ensure smooth and responsible project management, in line with the proposed objectives, Work plan, work package activities and expected outcomes of this project.

#### 1. INTRODUCTION

This quality manual builds on the detailed description of the project provided in the project application. As foreseen by the proposal, the quality control and monitoring consists of the following components illustrated in table 1:

WP8	Quality plan/Control
A.8.1.1	Establishment of Quality Control Group
A.8.2.1	Tuning the Project contingency plan
A.8.2.2	Presentation of the plan at the kick-off
A.8.3.1	Writing technical reports
A.8.3.2	Assessment of technical reports by Project manager
A.8.3.3	Assessment of progress reports by Quality Control Group (QCG)
A.8.4.1	Collecting feedbacks from target groups and service users by local leaders and WP leaders
A.8.4.2	Assessment of feedbacks by Quality Control Group
A.8.4.3	Consultations with the Ministry
A.8.5.1	Consultations with relevant experts & selecting the E-Health development projects for cooperation
A.8.5.2	Executing of inter-project coaching

Table 1: Activates of work package quality plan





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In that context, this manual is made to serve as an essential element for the quality control process, procedure and gridline. The main function of that TQM is to secure quality of the ICU RER project management including processes, activities and outputs.

This TQM provides guidelines and templates that will facilitate the producing of good quality deliverable outcomes and results. It also facilitate the entire project management tasks. This outline builds on the description provided in the project application.

The quality control and monitoring are done via the mechanisms and activities based on the quality assurance manuals which include: setting the procedures and documentation needed for internal control of project activities, processes process and the outcomes of material and information for follow up by developing and validating indicators and collected data .

#### 1.1. Project summary

Collaboration between universities and industries is critical for skills development, the generation, acquisition and adoption of knowledge and the promotion of entrepreneurship. Through collaborative interchange, the university becomes "a more vigorous partner in the search for answers". The social and economic community provides a context for civic discourse and the reciprocal, interactional creation of knowledge. Community engaged education establishes the context for the exploration of pressing and complex problems, of which ehealth and medical informatics is an example. Out of this reciprocal need comes the development of a model for interdisciplinary education that centers community as the context for learning. This model represents the theoretical and physical space where the university joins with others to address complex issues.

#### 1.1.1. Main objectives of the project:

- To establish and sustain effective Industry cooperating with University (ICU) Centers of e-health Innovations at some partner universities in LB and EG (LEG)
- 2) To develop a web platform based on Knowledge Triangle, innovation approach to develop and commercialize of e-Health innovative technologies and tools.





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- 3) To develop a new integrated professional short term (6 months) and long term (one year) diploma program in e.Health and Medical informatics
- 4) To develop in-service lifelong learning training (LLT) program in the area of e-health innovative Medical/health/ IT/engineering.

The consortium of this ICU\_RER project consists of experienced partners, which have different levels of knowledge and skills in the fields of e-Health and Medical Informatics. The partnership has the necessary capacity to implement the project and achieve the expected outcomes. It will have an important impact on students, on the higher education institutions involved & on society at large such as increasing the number of MOU signed with health enterprises & increase the number of placements and job opportunities.

The objectives of this ICU\_RER serve as a corner stones to identify the target groups that require improving their capacity building skills and competences. Therefore the set of activities that contribute to capacity development such as establishment of centers, trainings, study visits, academic and professional course development based on innovative structures and learning outcomes, etc. are grouped into work-packages that focus respectively on the satisfying the identified target groups. Thus, the mentioned objectives of this project are:

- 1) clearly defined and well documented with access to each actor of the target groups.
- 2) reasonable and relevant to fulfil the needs of the stakeholders, direct and indirect target groups as well as each partner institution
- 3) fitting the partner countries 'development strategies
- 4) reflect and elaborate a sound needs analysis that covers the Lebanese and Egyptian healthcare systems, the fundamental conditions for establishing efferent eHealth systems...
- 5) focus on the innovative elements.

Based on this analysis, as well as on the expertise of the consortium members with former projects, the objectives are feasible and appropriately address the identified needs in both countries, i.e. Egypt and Lebanon.





#### 2. Management structure

The ICU-RER project management structure (MS) was established at the project's Kick-off meeting to ensure effectiveness, decisiveness, flexibility and quality of work. It involves the grant holder, the Coordinator, Steering Committee (SC), Management Committee (MC) and Quality Control (QC). All project partners have representative members in the steering committee. Table 2 and Figure 1 illustrate the structure:

Project Management Structure (MS)	Leader	Members
Steering Committee (SC)	P1 (LNU)	All
Management committee (MC) (wp9)	P1 (LNU)	p2 (UniG), p5 (TelTach), p6 (NDU), 16 (ASU)
Quality Control Group (QC) (WP8)	P6 (NDU)	1,9 (MUBS), 12 (O6U), 17 (IAST)
Dissemination (WP6)	P8 (BAU)	3 CESIE),4 (IDM),7 (LU)
Sustainability (WP7)	P10 (AU)	11 (BUE), 14 (AZHU) 15 (SU), 18 (LEAD)

Table 2. Steering committee members



Figure 1: Steering committee of the ICU-RER

The Steering Committee will review the activities and decide on any necessary contingency measures in re-organization tasks and resources – as usual with a strong focus on the project impact.







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A QA steering committee (SC) consists of one member nominated by each beneficiary university. She/he is responsible for the implementation under the guide of identified criteria and standards. The Group will also be responsible for the Project Contingency Plan, implementing of internal and external QC procedures and inter-project coaching. In order to avoid (or minimize) the delays and deviation of project implementation strategy. The Project Contingency Plan includes the measures and actions to be used in case of any troubles / force major during the life cycle of the project.

#### 3. Quality Control

#### 3.1. Introduction

The quality control (QC) group in close cooperation with the management committee is responsible of the quality plan, the quality control, the monitoring and the quality assurance procedures and implementation. That will be done via the mechanisms and activities based on the quality manual (TQM). Quality assurances, quality control and monitoring of the ICU-RER are integrated parts of the project and will be maintained throughout the project bye the close collaboration between the partners. Each partner university/institution will nominate one member to a steering group, which shall liaise regularly concerning the progress towards project outcomes and the quality of results. Major activities are:

- Analysis of the content of existing E-Health educational, research and professional training materials (knowledge triangle) based on the modern and recent achievements in the area.
- Evaluate the project quality of processes, methodologies, communication, cooperation, conflicts, etc.
- Analysis of the capacity building factors such as researcher, teachers and professional qualifications.
- Peer reviews and checklists are some measure instruments as well as the external evaluators to ensure the objectivity of the quality control and monitoring.
- The conclusions of the peer reviews and the members of internal institutional evaluation board
- The internal evaluators will prepare the 3 minor progress reports and one comprehensive progress report each year.
- The peer reviews and external evaluators will prepare a quality progress reports.





# • 3 major quality control and monitoring basic activities and meetings will be conducted during the entire period of the project (3 years).

The Quality Assurance System comprises procedures for the core processes, these are illustrated in Table 3:

Procedure	Actions & tasks		
no.			
Q1	Review of Programs Procedure		
Q2	Review of the visits and meetings Procedure		
Q3	Delivery of each outcome and product Procedure		
Q4	Assessment of Participants Procedure		
Q5	Written regular and final reports Procedure		

*Table 3: QA procedures* 

At the last stage, an inter-project coaching activity is foreseen to provide an external assessment of the project activities and results. Partners of the Erasmus+ project recommended by Erasmus national office in Lebanon and Egypt during the monitoring visits could provide important inputs based on their experiences. The means which will be used for the evaluation purposes are presented in ANNEX A.

#### 3.2 . A Critical path method (CPM) and Six sigma (SS)

The critical path method (CPM) is a management and quality assurance technique which will be used in this ICU-RER project. A Critical path method is a step-by-step quality assurance methodology used in this project which is based on the different interdependent activities. It contains a list of activities and uses a work-package (WPs) and work- breakdown structure (WBS) and a timeline to complete, as well as dependencies, milestones, and deliverables. It outlines critical and noncritical activities by calculating the "longest" (on the critical path) and "shortest" (float) time to complete tasks to determine which activities are critical and which are not.

Part of Six Sigma methodology will also be used to eliminate waste and improve processes and results. It has seven key components: DMAIVCO (define, measure, analyze, improve, verify and control and optimize). The different methodologies includes different visits, seminars, training sessions, surveys, indicator measurable, roundtables, dissemination, quality control, feedback and documentation. Other Training and teaching strategies were: various methods will be used, e.g. skill labs, simulation, physical or electronic modelling, formal lectures, films,







case studies, clinical visits, Internship, etc. Online lectures. To provide the best quality of technical-intensive knowledge triangle and examples of best practice R&D activities by means of video-conferencing and other e. and distance learning tools as well as professional Development Seminars.

Each partner institution should assure that key staff involved in the project have experience and expertise in areas related to the activities. The project will involves non-academic partners (enterprises) which will participate in the project and the roles and responsibilities of the participants are clear and well linked to the work phases and work packages and the development of outcomes to achieve the desired results. As shown in Table 4, the work packages are led and co-led by partners according to their relevant expertise. This type of methodology allows partners to better engage and take ownership of the project.

WP	WP Leader	Co- Leader(s)	Main Task
		& Team developers	
1	8 BAU	3 (CESIE)+6+12 (O6U)+ 14	Centres development & Establishment
2	11 BUE	2+7 (LU) + 10 +15 (US)	Web platform
3	2 UniG	11+ 5+15+16	Diploma, study and training material
4	5 TalTech	4 (IDM)+14+ (IAST)17	In-service training activities
5	9 MUBS	3+ 8+12+ 18 (LEAD)	Capacity building tasks.
6	14 AZHU	10 + 11+ 15+16	Dissemination & implementation following up
7	16 ASU	4+7+ 9	Sustainability strategies and actions
8	6 NDU	1+3+ 6 +14+15	Quality Plan/assurance
9	1 LNU	4+15 +17+ 18	Management, coordination etc

Table 4 WP leaders and co-leaders

Each team leader in collaboration with his/her team in coordination with management and steering committees grant holder decide task distribution, the content, tasks, delivery times, and responsibilities of work package team leaders and co-leaders.

In order to avoid (or minimize) the delays and deviation of project implementation strategy the Quality Control Group will generate the Project Contingency Plan which includes the measures and actions to be used in case of any troubles / force majeur (Such as the COVID-19 pandemic, instability of political systems, etc.) during the life cycle of the project. Covid-19







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pandemic and unstable political situations and financial market are such of the majeur forces this project faced/is facing.

#### 3.3. The Monitoring and Evaluation Measures

For a monitoring, evaluation and quality Plan to be successful, it is important to identify the project goals, objectives, strategies and evaluation methods. This evaluation and quality plan has been created based on the information contained in the project proposal and agreements made with the project coordinator. To monitor means to observe, and to check progress against plans. Monitoring of activities and outputs means to observe whether intended activities are performed, products are delivered and whether implementation is on track.

It is the systematic and recurring collection of information that allows results, processes and activities to be documented and used as a basis for decision-making and learning processes.

The aim of the monitoring and the evaluation is to support the members of the consortium of the ICU-RER project in ensuring highest quality of project outputs, activities and results, as well as in improving project performances. The objective is to support decision making by delivering necessary evidence to introduce any significant changes. The evaluation will increase the quality of project activities and outputs and measures to what extent they reach the short-term project goals and results set in the application.

The evaluation and quality plan has been implemented with the purpose to:

- Design an evaluation strategy to support the process and progress of the project and define the evaluation priorities based on the project objectives;
- 2. Define the approach to analyze the relevance, progress, success of the project;
- 3. Identify evaluation methods and tools to be used in the evaluation;
- 4. Specify the key evaluation issues and the key areas of concern;
- 5. Establish the necessary processes for measuring fulfilment of the objectives.

Monitoring and evaluation activities help to improve performance and achieve results. While monitoring is a tool serving foremost the management purpose, evaluation contributes to both the management and to assess whether the project has produced the desired effects.





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Monitoring and Evaluation is ideally understood as dialogue on development and its progress between all stakeholders.

Monitoring reports on the operational progress of the project will enable the management to:

- assess whether the project is proceeding according to the agreed work schedules, so that the necessary actions may be taken;
- 2. propose and participate in any necessary reviews of the project as a result of these assessments;
- 3. report to the EACEA on the situation and completion prospects for the project.

The consortium of the project has agreed that the issues of quality of the project implementation are paramount to achieve the planned results against the wider and specific objectives.

#### 4. Quality Assurance strategy and measures

#### 4.1. Areas of intervention:

- A. Quality assurance of the project achievements. Annex B shows the project deliverables. The documents should be constantly updated by all project partners. The chart allows all partners to assure the duly and complete achievement of project outcomes and deliverables
- B. The Quality assurance of the developed and modernized study modules/courses (WP3) and in-service training courses (WP4). Annex C shows the draft of the verification forms to be completed by the relevant partners upon finalization of the courses development. The aim is to Improve the quality and the efficiency of education and trainings as well as to assure their correspondence to EU standards.





#### C. The internal project implementation quality assurance.

Internal project quality assurance is based on review and evaluate the report of the outcomes and the relevant supporting documents as well as a questionnaire that should be conducted annually to follow up the project partners' satisfaction with the implementation of the project.

In the project Quality Assurance will imply a system of measures and controls established within our team to manage and assure the quality of the services being provided both for our partners and target groups. Technical and functional quality, such as effectiveness, efficiency, optimality, acceptability, and legitimacy, are the factors to be measured with an aim to improve the expected outcome of the project. The quality of interaction, infrastructure and atmosphere provide deeper insight into the project implementation and cooperation of all involved partner.

#### 4.2 The 5 Qs Model

The Measure is based on the 5 Qualities Model (Qs) Developed by Zineldin (2006; Zineldin & Vasicheva (2016). It includes measurement of 5 categories of quality:

- Q1. Quality of object (Outcomes)
- Q2. Quality of processes
- Q3. Quality of infrastructure
- Q4. Quality of interaction
- Q5. Quality of atmosphere
  - Q1. Quality of object **the technical quality** (what the beneficiary receives). It related to the basic core of the project and its main objectives, procedures, activates or programs carried out such as workshops, seminars, courses, trainings, etc. and their outcomes. It focuses on the technical aspects. Table 5 illustrate a template example.

Process	Target	Investigated dimension	Tool
Training of Trainers	- Experts in e-Health disciplines - Trainers - Academic staff	Perceived relevance Perceived learning Perceived usefulness Active participation	Questionnaire and personal interview at the end of the workshop







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		Perceived relevance Perceived usefulness	Questionnaire and personal interview at the end of the Field Visit
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Table 5 Evaluation of Quality of object (Q1)

Q2. Quality of processes – the functional quality (how the project is implemented).
 Assesses how the object activities listed in the project work plan (Annex A) was conducted and delivered (meetings, reports, visits, lectures, seminars, individuality, flexibility, creativity, fieldwork, etc). It measures how well the project activities are being implemented. Table 6 illustrates an example. The methodology and connection between different parts of the activities are also included.

It focuses on performance, efficiency, effectiveness, timing, respect of delivery times and deadlines, accuracy and transparency. It can be used to pinpoint problems in service delivery and to suggest specific solutions.

Process	Target	Investigated dimension	Tool
Project management		Internal communication and related tools  Management and sharing of responsibilities  Effectiveness of the adopted/ developed tools in implementing the project	Questionnaires (partners' survey) Questionnaires (partners' survey) Questionnaires (partners' survey)
and consortium dynamics	partners	Perception of local/transnational relationship  Coordination meetings	Questionnaires (partners' survey) Questionnaires (coordination meeting questionnaires)
Project management	Project Manager and WP leaders	Progression of project achievements	Monitoring grid

Table 6: Evaluation and quality assurance of internal processes (Q2

Q3. Quality of infrastructure – measures the basic resources which are needed to
perform the project activities: the quality of the internal competence and skills,
experience, know-how, technology, internal relationships, motivation, attitudes,
internal resources and activities, and how these activities are managed, cooperated







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and coordinated. Sufficient infrastructure measures are critical for the assurance of project quality, dissemination and sustainability.

- Q4. Quality of interaction measures the quality and efficiency of interaction between the partners and the information exchange process within and between different organizational positions at each partner institution (department, faculty, university, ministry, et), know how exchange, financial exchange and social exchange, ease of communication between the partners, the partners and gran holder, and work package program responsible. Responsiveness and supportiveness among the partners and other stakeholders are also critical dissemination and sustainability factors.
- Q5. Quality of atmosphere evaluates the relationship and interaction process between the project staff, between staff themselves in a specific environment where they operate. The atmosphere indicators such as trust, commitments, institutionalization, social activities and mutual understanding should be considered very critical and important because of the belief that lack of institutionalization, frankly and friendly atmosphere leads to poor quality of the entire project outcomes. Good atmosphere is indication of better sustainability.

For the period under evaluation, the following evaluation are examples of activities which should be carried out:

- Kick-off meeting and Training program. Annex D shows examples
- Coordination meeting questionnaires
- Steering Committee meetings

   coordination meeting questionnaires
- Partners' survey online questionnaire
- Monitoring activities monitoring grids (Annex E shows the template)





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#### 4.3. General Project Guidelines

ICU-RER should follow different project guidelines and respects the requirements of the programme. In addition to the Quality Manual (TQM), the reference documents include:

- EACEA ICU-RER project Grant Agreement
- ICU-RER- project Partnership Agreements
- ICU-RER Institutional and Financial Sustainability plan
- ICU-RER Dissemination and sustainability plan and the sustainability agreements within and between academic and non academic institutions
- ICU-RER Project budget and task assignment
- ERASMUS+ Program Guidelines for the Use of Grants

All required documents and guidelines are available for all partners at the BOX Resource Center and the project website.

#### 4.4. Amendments to the Manual

The procedures in this Manual can be amended by agreement of all partners or by a decision taken by the project's Steering Committee (SC). Any new version will be communicated to all the partners.





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#### **ANNEX A**

#### Means of evaluation purposes:

Process	Target	Investigated dimension	Tool
Events feedback	- Participants -Stakeholders	Communication Common understanding Level of commitment Active participation	Questionnaire and personal interview if possible at the end of the event
Training of Trainers	<ul><li>Experts in health disciplines</li><li>Trainers</li><li>Academic staff</li></ul>	Perceived relevance Perceived learning Perceived usefulness Active participation	Questionnaire at the end of the workshop  Reports
Workshops and Seminars	- Experts in health disciplines - Trainers - Academic staff	Perceived relevance Perceived learning Perceived usefulness Active participation	Questionnaire at the end of the workshop/seminar Interview reports
Field Visits	- Trainers - Academic staff	Perceived relevance Perceived usefulness	Questionnaires/interviews Other reporting tools
Dissemination overall, all levels	<ul><li>Beneficiaries</li><li>Stakeholders</li><li>Networks</li><li>Health societies</li><li>NGOs</li><li>representatives</li></ul>	Level of dissemination at local level Level of dissemination at national and international level Players in dissemination (boundaries effect) Participation in events	Reporting tools, analytics, other sources
Overall project implementation	WP Leaders and project partners	Internal communication and related tools	Questionnaires (partners' survey)





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#### **Annex B**

	DELIVERABLE	Performance Indicators	Sources of verification	
WP.1	University-Enterprise (UE) Centers of E-Health Innovation (CeHI)			
1.1	Defined requirements for CeHI centers (Hubs)	The requirements are	tasks and	
1.1.1	Establishment of CeHI developers' teams.	discussed and defined	responsibilities of developers teams are	
1.1.2	Tuning the objectives and definition of the requirements		agreed	
1.1.3	Analysis the requirements from partner universities and healthcare institutions, potential. Users and development preliminary recommendations in results sustainability		автеси	
1.1.4	Study visits to EU partners	Study visits are conducted	List of participants	
1.2.	Established CeHI centers	The centers are	Business plans for	
1.2.1.	Discussing this project with the EU partners	established	centers	
1.2.2.	Development of the business plan for the functioning of CeHI centers in each PC;	-		
1.2.3.	Pilot establishment of CeHI in pc universities;		PC university, centers	
1.2.4.	Analysis of the results of installation		are equipped	
1.3	Verified CeHI	Centers are approves	Approval of centers,	
1.3.1	Revision and verification		pictures of the centres	
1.3.2	Approval of the regulations and starting the functioning of the CeHI centers.			
1.4	Launched consultancy services	Consultancy services	Survey of use the	
1.4.1	Evaluation of the market potential of the developed centers	are launces	created CeHI centers	
1.4.2	Providing consulting activities for the healthcare sittings (public and private hospitals, clinics and medical centers) and R&D groups in the area of E-Health and medical informatics		facilities by its staff and other users	
WP2	University- Enterprise (UE) Web platform KTERE			
2.1	Defined requirements for web platform KTERE	The requirements are	Web platform	
A.2.1.2	Definition of the structure and strategy	discussed and defined	installation roadmap is	
A.2.1.3	Analysis the requirements from healthcare institutions and development preliminary recommendations in results sustainability	-	developed	
2.2	Established web platform KTERE	Web platform KTERE is	Link to weblatform	
A.2.2.1	Development of the business plan for the functioning of web platform UE-KTERE;	established		
2.2.	Established web platform KTERE		Tasks and responsibilities are agreed	
A.2.2.2	Pilot testing of web platform KTERE		KTERE web platform is	
A.2.2.3	Installation and evaluation analysis of KTERE market potential and making final business plan.		started	
	Launched web platform KTERE and integrated with the other existing	web platform launched	the roadmap for web platform e-services is	
2.3	e-services			
<b>2.3</b> A.2.3.3	e-services  Full operation of the e-services for University-enterprises and other clients		developed	





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3.1	Established reference Team and defined programme requirements			
A.3.1.1	Establishment of Reference team	The team is established	PC established teams	
A.3.1.2	Comprehensive needs analysis			
A.3.1.3	Definition of learning outcomes			
3.2	Designed course curriculum			
A.3.2.1	Study visits to EU partners	Study visits are conducted	List of participants	
A.3.2.2	Development of course program in home PC	Courses are developed	Curricula for 6 modules developed in accordance with results of the needs analysis	
A.3.2.3	Discussing separate modules with EU project partners responsible for verification of the respective modules	or modernised	lectures with integrated feedback of	
A.3.2.4	Printing the initial draft set of module lectures, lab tasks, questionnaires.		EU experts &adapted to PC HEI needs	
3.3	Verified curriculum			
A. 3.3.1	Internal revision and verification of the programs by Partner universities and involved enterprises	Newly developed curriculum are consistent with EU	Verification by EU partners	
A.3.3.2	External revision and verification by EU experts	standards		
A.3.3.3	Printing the final set of the modules materials;			
3.4	ECTS grading scale & diploma Supplement.			
A.3.4.1	Introduction of ECTS grading scale in all PC universities	Name and a sure addressing d		
A.3.4.2	Running the study program starting form summer semester and Introduction of Diploma supplement	New and or modernized courses are approved by PC universities	Number and list of participants	
WP4	UE In-service training			
4.1	Defined programme requirements	The team is established	PC established teams	
A.4.1.1	Comprehensive needs analysis			
A.4.1.2	Definition of learning outcomes			
A.4.1.3	Establishment of modules developers' teams			
4.2	Designed in-service modules			
A.4.2.1	Study visits to EU partners	Study visits are conducted	List of the participants; agenda of the events	
A.4.2.2	Development of in-service training program in home PC	Teaching plan is	Curricula for 4 in-	
A.4.2.3	Printing the initial draft set of module lectures, lab tasks, questionnaires.	adapted; Pilot implementation of in- service curricula is completed	service modules	
4.3	Launched in-service modules	In-service modules are fully operational and delivered to intended	Number and list of participants	
A.4.3.1	Providing consulting activities for the companies, R&D groups and individual customers in the area of micro/nanotech ecoengineering	target groups		
4.4	Verified in-service modules		Verification by EU	
A.4.4.1	Internal revision/verification		partners	
A.4.4.2	External revision/verification			
A.4.4.3	Printing the final set of the modules materials;	The materials are printed	Modules materials	
A.4.4.4	Introduction of CeHI Centers at LE PC universities.		Feedback from the users of inservice training sessions and workshops	





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A.5.1.1 Establishment of local teams in PC universities  5.2 Completed English courses  A.5.2.1 Provision of intensive English language courses  The courses are held participat confirmat trainings  5.3 Capacities built for all involved groups  A.5.3 Capacities building for modules developers and lecturers  A.5.3.1 Capacities building for master module developers and lecturers  A.5.3.2 Capacities building for CeHI `center's staff  WP6 Dissemination  A.6.1 Guidelines dissemination/Strategy Defination  Dissemination plan is agreed  Dissemination materials  Dissemination materials  Dissemination materials  Dissemination materials  are prepared  Dissemination materials  Are project w  KTERE we	ted/ tion of f knowledge ransfer d into and into the he CeHI	
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updating	reb-site and beb platform oped and	
A.6.3 Internal and external dissemination actions/networking with stakeholders Items of care distributions.	dissemination buted	
A.6.4 Social media, medica covers and marketing material Publication		
A.6.5 Publications, newsletters and Promotional Evenst	newsletters	
WP7 Sustainability		
7.1 Approval of the modules and diploma Modules are approved		
7.2 Launched in-service training by CeHI Trainings are launched		
A.7.2.1 Design of schedule for in-service training		
	and ncy services ded by CeHI	
A.7.3.1 Establishment of Fund raising & Analytics Teams in lead universities in LE, EG.	•	
A.7.3.2 Analysis of available funding options		
A.7.3.3 Continuous networking with national and EU stakeholders		
7.4 Inter-regional association "CeHI"  The members of The association The asso		
A.7.4.1 Networking with potential members of association association are selected established	ed	
A.7.4.2 Tuning the specific objectives for association		
A.7.4.3 Agreements with new network of relevant institutions		
WP8 Quality plan		
8.1 Established Quality Control Group  QCG is etablished  List of group		
A.8.1.1 Establishment of Quality Control Group memmbe	rs	
8.2 Project contingency plan  Contigency plan is Updated	contigency	
A.8.2.1 Tuning the Project contingency plan prepared plan	configure	
A.8.2.2 Presentation of the plan at the kick-off		
8.3 Implemented internal QC procedures		
Reports are written	d in time to	
A.8.3.2 Assessment of technical reports by Project manager the project coordinate whiteh the pro		
A.8.3.3 Assessment of progress reports by Quality Control Group (QCG)  Progress	reports	





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8.4	Implemented external QC procedures		
A.8.4.1	Collecting feedbacks from target groups and service users by local leaders and WP leaders		External QC and audit report
A.8.4.2	Assessment of feedbacks by QCG		
A.8.4.3	Consultations with the Ministry		
8.5	Completed inter-project coaching		
A.8.5.1	Consultations with relevant ministries and unions and selecting the E-health activities for cooperation	Inter-project coaching is implemented	Agenda of inter- project sessions
A.8.5.2	Executing of inter-project coaching		
WP9	Management		
9.1	Kick-off meeting	Kick off is organised and	Viel, eff equals
A9.1.1	Arranging of kick-off	held	Kick off agenda
A.9.1.2	Precise definition of the tasks and responsibilities for Project Manager	adjusted tasks & responsibilies of consortium	Plans & Agreement
A.9.1.3	Appointing of Project Manager		Project manger is appointed
9.2	Project Plan		
A.9.2.1	Preparing and presentation of Project Plan	Management is	Project documentation
A.9.2.2	Managing the project by Project Manager	implemented during	
A.9.2.3	Managing the project by local leaders	whole project period	PC project documentation
9.3	Consortium agreement		
A.9.3.1	Preparing the Consortium Agreement	The agreements are prepared and signed	Signed agreements
A.9.3.2	Signing the Consortium Agreement	prepared and signed	
9.4	Coordination meetings		
A.9.4.1	Arranging second coordination meeting in Egypt	The meeting is held	Minutes of the meeting
A.9.4.2	Arranging third coordination meeting in Lebanon		
9.5	Project reports to EC		Submitted
A.9.5.1	Submission of Intermediate report	The reports are	Intermediate report
A.9.5.2	Submission of Final report	prepared	Submitted Final reports





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#### **Annex C**

#### **Course verification form**

ourse inforn Course title:							
Number of c	redits:						
he target goes the target		this course ma	tch the target	group of the e	entire project	?	
MIN	0	1	2	3	4	5	MAX
		the objectives	of the course				
Relevance ar	nd clarity o	f the objectives					
			of the course	3	4	5	MAX
MIN  Clarity of th	0	f the objectives	2			<b></b>	
MIN  Clarity of the corresponde isteners	0 e learning	the objectives  1  g outcomes learning outcon	nes to the obje	ectives of the	course, clarit	y of what is	expected fro





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## Contents of the course in general Precision, quality and reliability of the material, conformity with field's contemporary trends MIN 0 1 2 MAX Design of the teaching Originality, depth of development, using of pedagogical methods MIN 1 2 4 5 MAX **Design of assessment** The correspondence of the assessment methods to the learning outcomes MIN 0 2 5 MAX Selection and the effectiveness of audio-visual material, online activities and any software provided MIN 0 2 MAX







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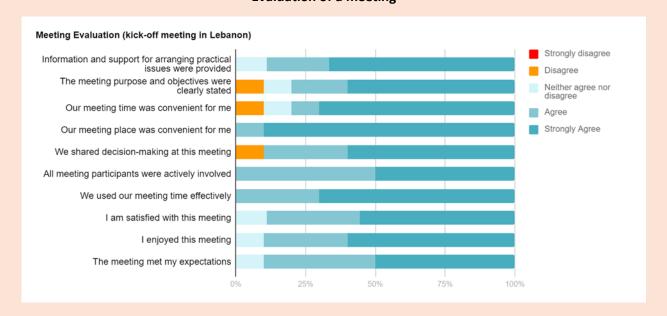
In	modules w	s of teaching	al componen	t, please com	nment on the	e selection ar	nd the effecti	veness of the
			p-1000000 0.00					
	MIN	0	1	2	3	4	5	MAX
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	urse workl equate corre		of the workloa	nd to the obje	ctives and lea	arning outcom	nes	
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	MIN	0	1	2	3	4	5	MAX
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	es the cours e students?	se include fee	dback mecha	nisms (forum Yes □X		urvey, evalua	tion form etc.)	for
				. 55 —/	_			
Do	es the cours	se material re	spect copyrig	ht? Yes □X	No □			





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# ANNEX D Evaluation of a meeting









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#### WP5 CAPACITY BUILDING

#### **REPORT by CESIE**

In December 2021, 5 capacity building meetings coordinated by CESIE took place in relation to WP5. In total 51 people from modules developers; lecturers & CeHI's staff; students and stakeholders participated in the TOT.

The meetings have been organized in the following days:

- Day 1 6/12/2021
- Day 2 10/12/2021
- Day 3 − 12/12/2021
- Day 4 17/12/2021
- Day 5 21/12/2021

The meetings organised by CESIE lasted 3 hours per day and had two main objectives:

The first objective was to initiate the comprehensive system of continuous capacity building measures for the academic/research staff involved at the design and the study curricula and delivering of lectures for students of the E-Health course modules as well as professional training of the coachers engaged at functioning of the CeHI centers in Lebanon and Egypt such as various stakeholders, including non-academics from the health sector, pharmaceutical companies, ministry of health, pharmacists, etc.

**The second objective** was to provide capacity building measures for the CeHI centers staff involved at the activities in administrative, consultation, and technical support of E-Health projects/activities as well as KTERE web platform development and technical support in LE and EG.

#### **Target groups of the 5 days TOT:**

- (i) modules developers;
- (ii) lecturers & CeHI's staff;
- (iii) students and
- (iv) stakeholders.

Below the agenda for each meeting with the evaluation received from the participants.

#### The evaluation was made on a scale of 1 (very bad), 2 (mediocre), 3 (good), 4 (very good), 5 (excellent).

Time (CET) Activity		Description of the activity	Learning outcomes:
9.40 – 10.00	Presentation of the ICU RERE project and team of the capacity building	<ul> <li>9.40- 9.45 Prof. Mosad Zineldin Grant holder</li> <li>9.45- 9.50 Prof. Bassem K., Leader of the WP</li> <li>9.50- 10.00 Giovanni Barbieri and Jelena Mazaj, CESIE co-leader and host of the workshop</li> </ul>	<ul> <li>Presentation of the project</li> <li>Presentation of the team</li> <li>Knowledge of the programme</li> </ul>
10.00 – 11.00	Presentation of the e- health system in Italy.	Presentation of how the e-health system works in Italy. Which are the main results achieved and future goals.  By Mr. Giovanni Barbieri	- Knowledge of the Italian e-health system







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12.15 – 13.00	ICT in education  - Why should we use ICT in university teaching?  - Digital Education and E-learning  - Examples and Use Cases of universities / organisations using ICT for education  Hands On working with few tools which can be used in universities  Vulnerable groups and access to health systems through technology	Nowadays there is a growing trend towards integrating ICT into teaching and training. New technologies offer to teachers and education staff a wide new range of possibilities and tools. This activity will give you an outlook on best practices and concrete ways to use ICT to empower and support education.  By Ms. Alessia Valenti  Presentation of three EU practices:  - Health points  - Life & Health  - SOFIE  By Mr. Giovanni Barbieri	- Get a new perspective on ICT tools - Understanding ICT / Digital education culture in university - Reflect on a possible incorporation of ICT tools in everyday teaching  Understanding of different approaches to work with vulnerable groups of society (migrants, adults with low level of alphabetization, etc.) - Learning new tools to support health among vulnerable people - Increasing awareness of the benefits and importance of health prevention
Online evaluation	n of the Day1		

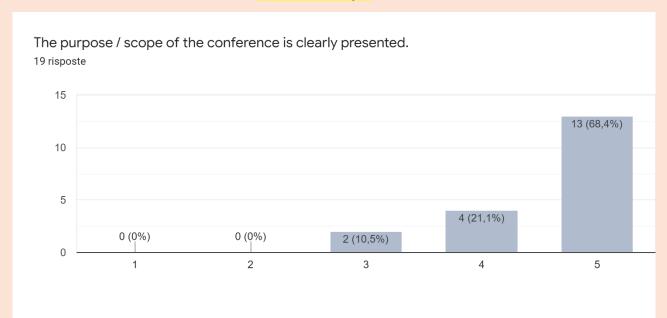


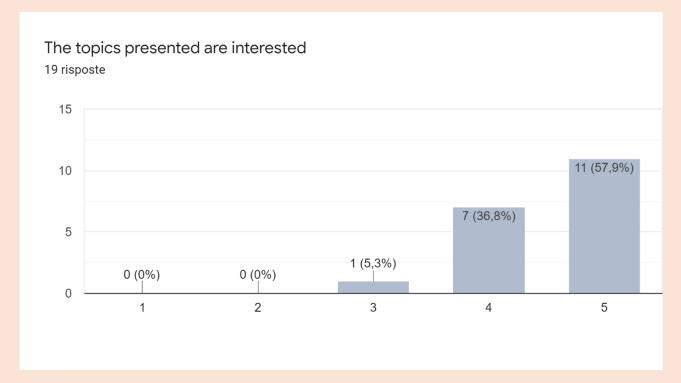




# The Quality Manual (TQM) ICU- Knowledge triangle, innovation: Reinforcing of Education, Research E.health & Medical links 609506-EPP-1-2019-1-SE-EPPKA2-CBHE-JP

#### **Evaluation of day 1:**

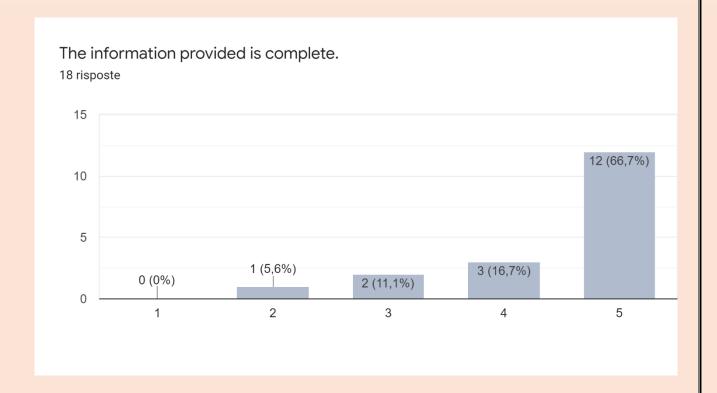


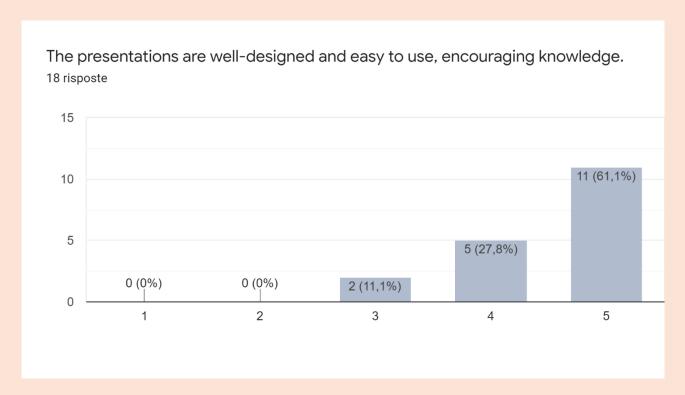






# The Quality Manual (TQM) ICU- Knowledge triangle, innovation: Reinforcing of Education, Research E.health & Medical links 609506-EPP-1-2019-1-SE-EPPKA2-CBHE-JP

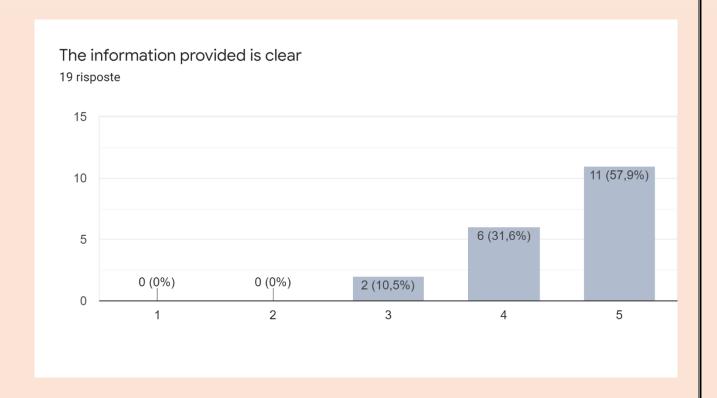


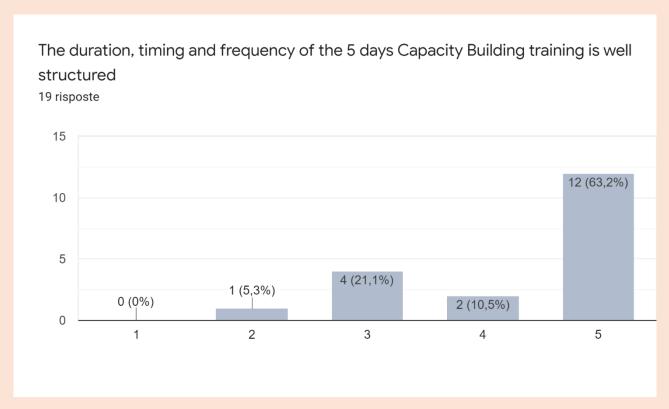






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Analysis of the answers

The first meeting session can be assessed as highly positive. The meeting consisted of a presentation of the project, the TOT activities and its training objectives. In addition, the following topics were covered





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- Presentation of the e-health system in Italy.
- ICT in education
- Vulnerable groups and access to health systems through technology.

About 90% of the participants stated that the course was presented clearly as well as the topics covered and the information given during this first session.

Furthermore, about 88% of the participants stated that the session held was characterised by well-structured information that encouraged learning and the dissemination of knowledge.

Finally, about 70% of the participants gave positive marks to the duration, timing and frequency of the TOT meetings.

------Day 5

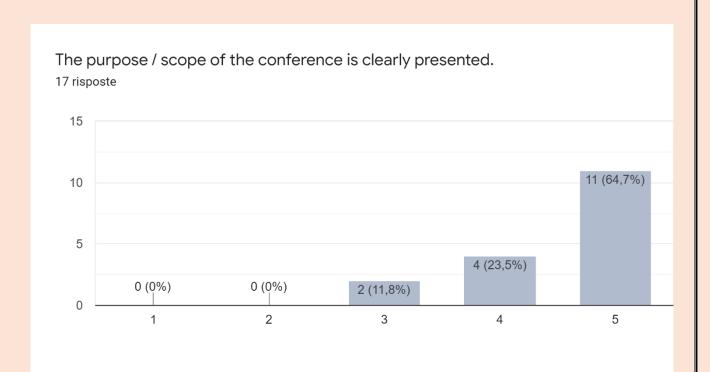
Time	Activity	Description of the activity	Learning outcomes:
10.00-12.00	Kazaam eHealth Platform	This session deals with Kazaam eHealth Platform, a microservice software platform for data analysis in the biomedical field. It supports the decision processes in the context of precision medicine to approach unmet clinical needs.	<ul> <li>Knowledge of KAZAAM eHealth Platform as case study.</li> <li>Basics scientific knowledge: Biological Networks Analysis and the integration of "omics" data.</li> <li>Showing how Big Data Analytics and Artificial Intelligence may be applied to provide decision support to doctors and healthcare professionals in the context of Precision Medicine.</li> </ul>
12.00 – 12.45	Market and Business Overview	This session provides an overview on the general market of Precision Medicine and related technologies, with a special focus on Big Data and Bioinformatics. The positioning of Kazaam eHealth Platform in this market will be also discussed.	<ul> <li>The global market of Precision Medicine, segments, and major players.</li> <li>Main competitors of Kazaam eHealth Platform on the market.</li> <li>Business model.</li> </ul>
12.45 – 12.50	Online evalua	ation of the Day5	
12.50-13.30	Conclusion as	nd farewell by CESIE & LNU Prof. I	Mosad Zineldin

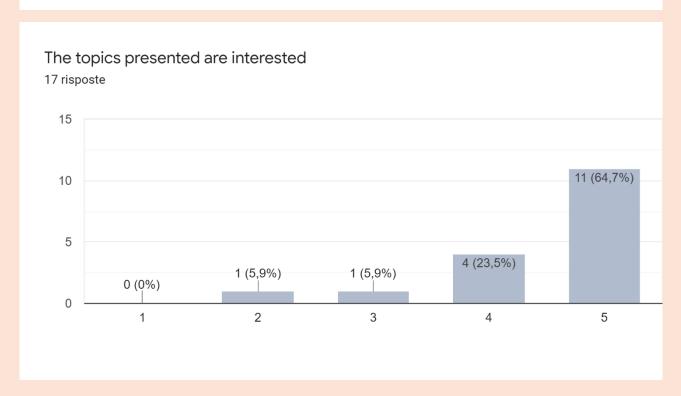




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#### Evaluation of day 5:



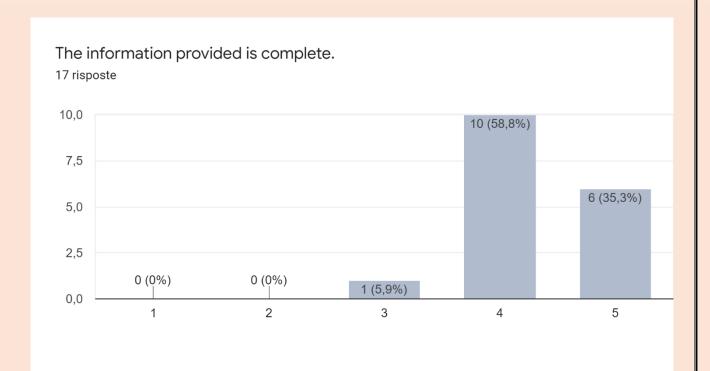


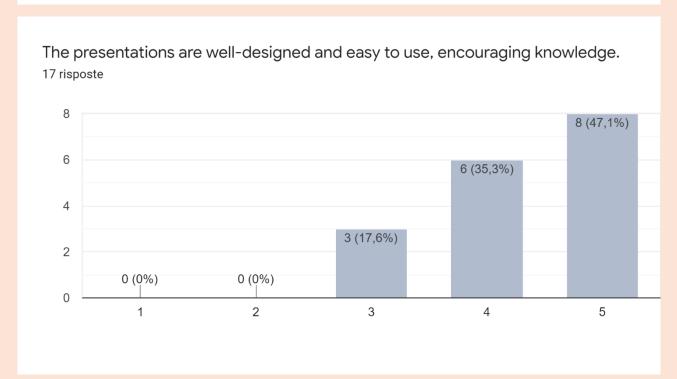






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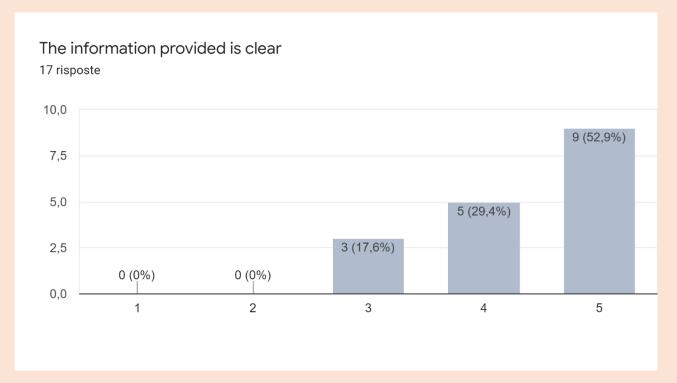








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#### Analysis of the answers

The last meeting was also characterised by highly positive evaluations of the topics covered:

- Kazaam eHealth Platform
- Market and Business Overview

About 80% of the participants rated the topics covered as interesting and more than 90% stated that the information given was comprehensive. In addition, more than 80% rated the presentation as positive, as it was structured in such a way as to promote learning and knowledge.

Lastly, more than 80% rated the information as clear.





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#### Conclusion

The TOT event organised by CESIE was a success. The feedback received for each meeting was only highly positive, in fact on average more than 80% of the participants rated each session between very good and excellent.

In addition, the experts who were involved are from prestigious research institutions, such as Oxford University, Palermo University and CESIE with very high knowledge of the topic and technical skills.

The communication between the participants, the experts who held the meetings and CESIE was highly positive, thus ensuring the excellent relationship and exchange of good practices and contacts for future activities.

Below are some sentences that were left as comments by the participants and that testify to the excellent work done:

- Thank you for your efforts it's really appreciated meeting and we collected a many of information
- All is great
- Great lecture very inspiring
- I hope if there is a possibility to see a practical session while using the microscope, imaging process, analysis
- Thank you so much for this valuable lecture and I update my knowledge about different types of microscopes





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#### **ANNEX E**

#### An example of the Monitoring Grid / Variance Grid

WP	Ref.	Deliverable Title	Delivery	STATUS	INDICATORS (as in	INDICATORS	ADDITIONAL
VVP	nr	Deliverable Title	Date	SIAIUS	the proposal)	CHECK	INFORMATION
1	1.1	Report on e.Health skills status & current needs to establish CeHI canters. Teaching and learning (T&L)innovative approaches in e. Health disciplines & their impact & available & required ICT-based teaching (ICT-BT) tools		DELIVERED /NOT DELIVERED/ IN PROGRESS ETC.	- Survey of e.Health skills status And e. health educators & its impact - Survey of current T&L in health education & its impact - Survey of available & required ICT-based teaching tools - Final report on e.Health skills status, current T&L process situation & availability of using ICT-based teaching tools  Establishment of the canters		Responses of numbers of faculty members (nn) and students (nn) (data available from the projec repository).
5	5.3	Training contents development implementation		DELIVERED OR TO BE DELIVERED	Develop of the training materials and hands-outs of TOT's  Number of online or onsite trainings by EU staff at the EU partner Number of participants from the different partner  Involvement of the stockholders.  Level of acquiring the know-how knowledge	ACHIEVEMEN T LEVEL	Number and dates of the trainings, number of attendances, quality of the trainings Impact of the trainings Etc.



