Accelerating Western Balkans University Modernization by Incorporating Virtual Technologies

VTech@WBUni

WP3 - Deliverable 3.4

3rd QUALITY ASSURANCE REPORT

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01	01/02/2022	Document drafted	Arbana Kadriu, Lejla Abazi Bexheti,	SEEU
02	20/06/2022	First revision	Quality committee members	all partners
03	22/07/2022	Second revision	Quality committee members	all partners
04	10/11/2022	Final version	Arbana Kadriu, Lejla Abazi Bexheti	SEEU

Table of Contents

List of Figures

Introduction

This document presents the Third Quality assurance report for the Erasmus VTech project. Quality assurance for this reporting period was led by South East European University with contribution of all partners.

It is based on Quality assurance monitoring and periodic assessment of progress towards project goals. Data collection is provided during this reporting period, qualifying the project management to maintain the project's quality, based on four main pillars:

1. Overall evaluation
2. Event evaluation
3. Document evaluation

Overall evaluation

In the scope of overall evaluation for this reporting period this reporting project, we tried to answer these questions:

● Which are the main achievements of this project according to your opinion?
● A short description about reaching milestones and objectives regarding the WP that you are leading.

Main achievements of this project till this moment

Below are listed main achievements till this moment based on overall partner input:

● Establishment of VR labs, course development with VR tools as well as raising awareness on VR application in education.
● Integration of virtual technologies through relevant laboratories in learning to promote modernization of the faculty.
● VTECH Hub and classes piloted with VR and AR
● The establishment of the virtual hub and the capacity building of the academic staff on the use of VR/AR technology in teaching.
● New equipment bought and courses developed.

Short description about reaching milestones and objectives regarding the WPs that are leading:

This Table provides main achieved objectives for each WP:

Partner	Short description about reaching milestones and objectives regarding the WPs
P1 - Aleksander Moisiu University (UAMD)	
P10 - Lodz University of Technology (LUT)	
P11 - University of Ljubljana (UL)	All activities were done in accordance with proposals, however there were some delays since VR experiments were not ready for UX evaluations in time.
P2 - Polis University (Polis)	Vetch Hub and classes piloted with VR and AR
P3 - European University of Tirana (UET)	All milestones have been reached event though there have been some changes in timelines and will continue till the very last milestone, that is the last newsletter and last promotion of the project results after the last day of the project.
P4 - Epoka University (EPOKA)	
P5 - University of Prishtina (UP)	Integration of virtual technologies through relevant laboratories in learning to promote modernization of the faculty
P6 - University for Business and Technology (UBT)	
P7 - Mother Teresa University (MTU)	
P8 - South East European University (SEEU)	Completed: Quality committee formed, Project quality plan delivered, Report on QA policies for VTech teaching and learning as well Quality Progress Reports, Preparation of the Call for external evaluator. Note: The external evaluator of the projects still pending due to procedures for CALL at UAMD.
P9 - University of Tartu (UT)	

Events Evaluation

The results of Vtech events evaluation are presented in this section. In the scope of this reporting timeline, three events took place:

- VTECH – EU study visit in Lodz University of Technology, 24-25th of February, 2022
- VTECH-Steering Committee Meeting and Study visit at University of Ljubljana, 25-28 April 2022
- VTECH - EU STUDY VISIT University of Tartu, 8-10 June, 2022
- VTECH – Invited Lectures and academic staff training 29 June – 02 July 2022, and administrative training at Epoka University, Tirana
- VTECH - VR/AR Hackathon was held on 25 October 2022, by UMT, Skopje, North Macedonia

EU study visit at Lodz University of Technology

VTECH – EU study visit was held in Lodz University of Technology, 24-25th of February, 2022. Main impressions for this event are as follows:

- I do not have any comment.
- It was a great experience. The information was very useful. I enjoyed mostly the part of experiments.

Figure 1 shows the overall event rating in terms of organization/management and Figure 2 shows the overall event rating in terms of outcomes.

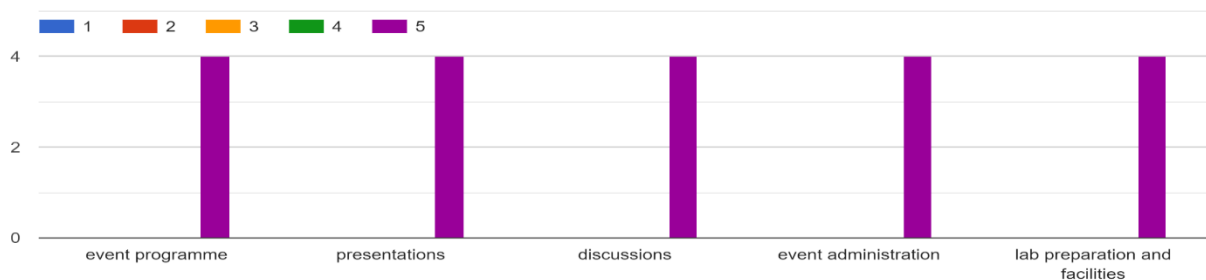How satisfied you were with (1 = not satisfied, 5 = very satisfied):

Figure 1. Event rating in terms of organization/management (5 - very good, 1 - weak, 0 - not present)

Please, mark your agreement (1 = strongly disagree, 5 = strongly agree) with the following statements:
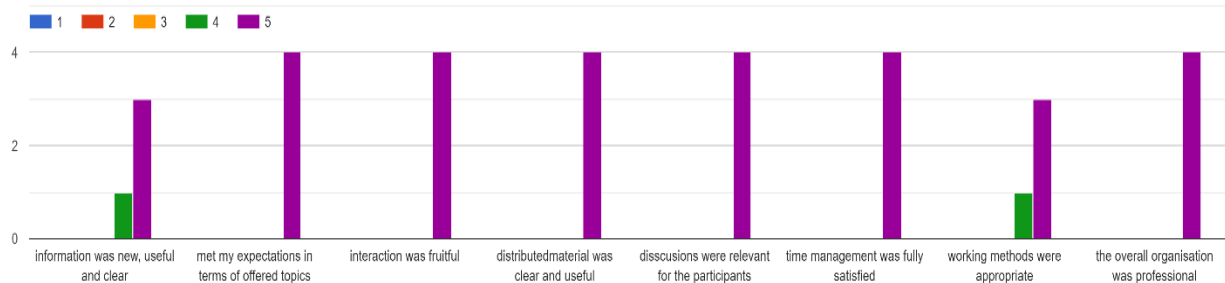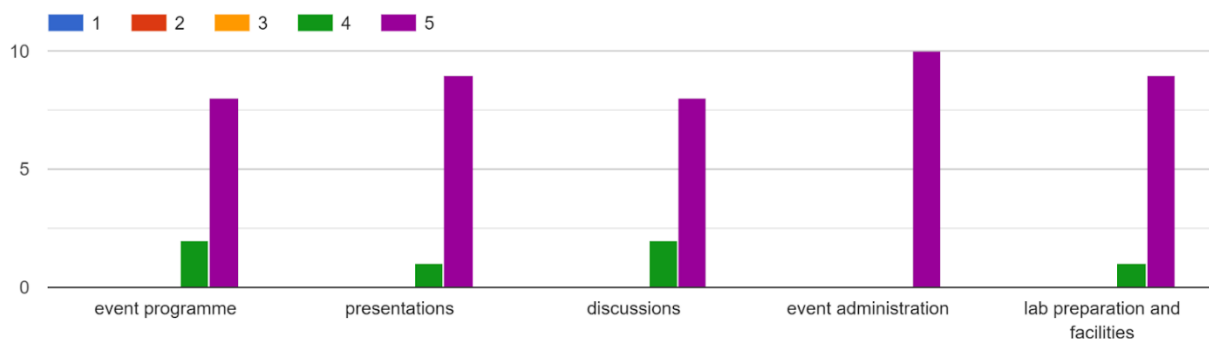

Figure 2. *Event rating in terms of outcomes (5 - very good, 1 - weak, 0 - not present)*

Steering committee meeting and study visit at University of Ljubljana

The VTech Steering Committee Meeting and Study was held on 25-28 April 2022, University of Ljubljana, Slovenia.
Some impressions are as follows:
- Thank you
- More presentations from staff from the other participants would be a great value
- The event was well-organized
- Everything was good
- No comment
- We had a very productive committee meeting at the University of Ljubljana, in Slovenia, and were able to discuss the progress and management of the activities and tasks of the V-Tech Project. We participated in the study visit organized and had the chance to get trained and learn more about the VR technology implemented at University of Ljubljana.
- It was ok in general!

Figure 3 and Figure 4 show the overall event rating in terms of organization/management and outcomes:

How satisfied you were with (1 = not satisfied, 5 = very satisfied):

Figure 3. Event rating in terms of organization/management (5 - very good, 1 - weak, 0 - not present)
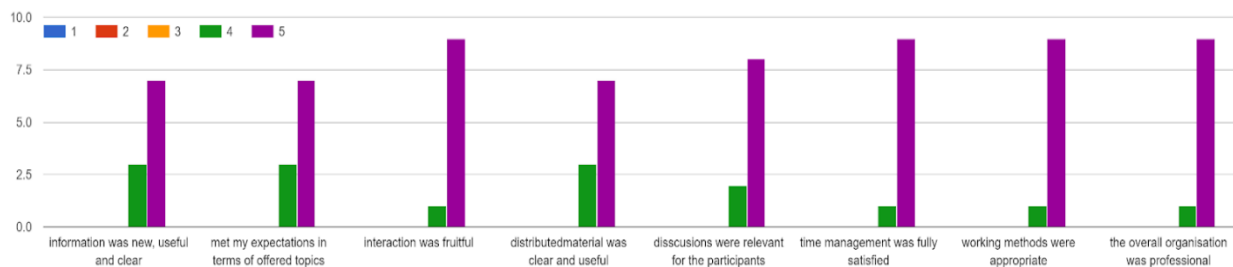

Figure 4. Event rating in terms of outcomes (5 - very good, 1 - weak, 0 - not present)

Study Visit at University of Tartu

VTECH - EU STUDY VISIT was held at University of Tartu, 8-10 June, 2022. Some impressions are as follows:

- In overall the organization was great and the content of the training was very useful.
- Everything was good
- Very nice
- Perhaps avoid teaching keyboard shortcuts
- Excellent!
- The event was well-organized and the training was interesting excellent organization

- If some video tutorials are provided
- Maybe some printed guidelines
- No comment :)
- Everything was clear and useful
- The hands-on training was excellent.
- More theoretical lessons maybe a paper with step-by-step commands and the trainers should be prepared for different levels of the class and not start from scratch for all
- The training of blender techniques was useful and very interesting for making 3D figures.
- Good work

Figure 5 and Figure 6 show the overall event rating in terms of organization/management and outcomes:

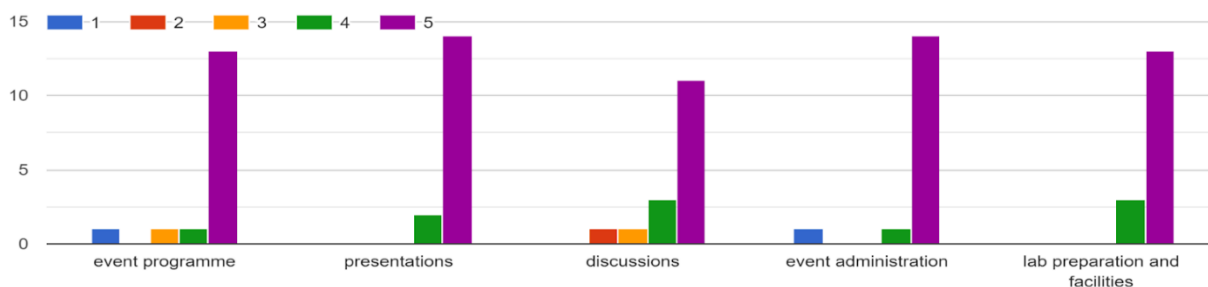How satisfied you were with (1 = not satisfied, 5 = very satisfied):

Figure 5. *Event rating in terms of organization/management (5 - very good, 1 - weak, 0 - not present)*

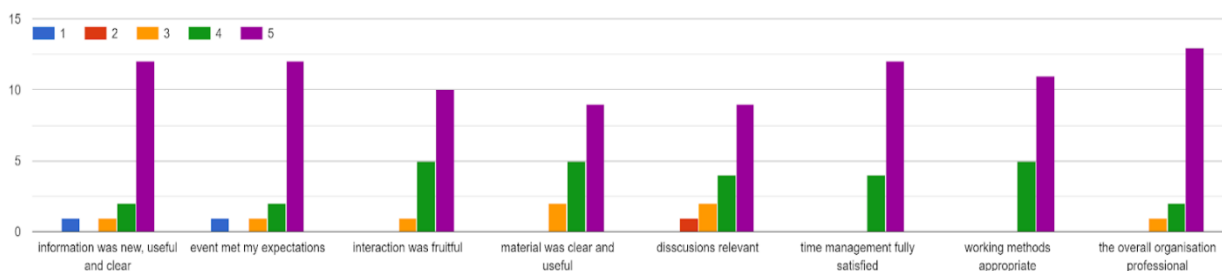Please, mark your agreement (1 = strongly disagree, 5 = strongly agree) with the following statements:

Figure 6. *Event rating in terms of outcomes (5 - very good, 1 - weak, 0 - not present)*

Invited lectures and administrative training at Epoka University

An invited lectures and administrative training were held at Epoka University, Tirana, 29 June – 02 July 2022. Main impressions for this event are as follows:
- It was great!
- No suggestions.

Figure 7 and Figure 8 show the overall event rating in terms of organization/management and outcomes:

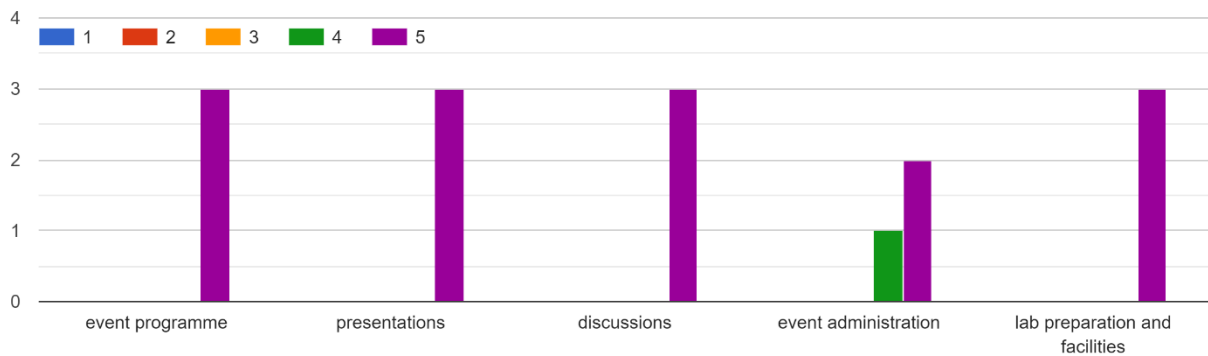How satisfied you were with (1 = not satisfied, 5 = very satisfied):

Figure 7. *Event rating in terms of organization/management (5 - very good, 1 - weak, 0 - not present)*

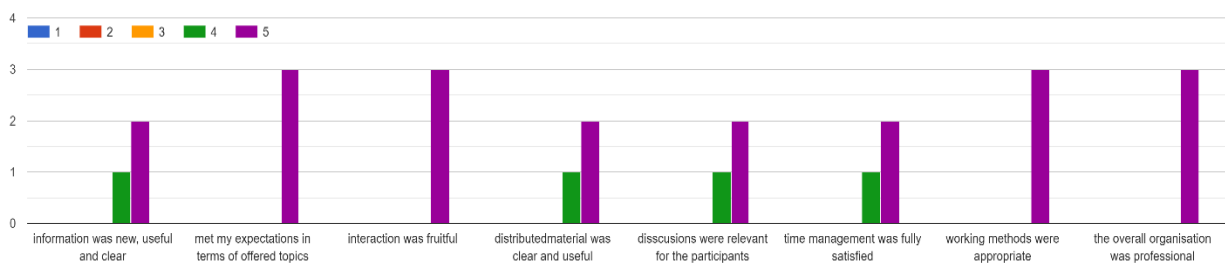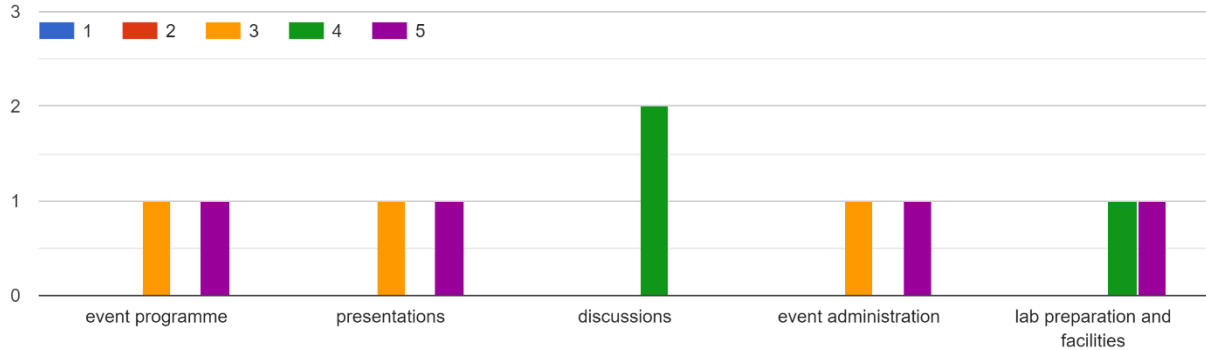Please, mark your agreement (1 = strongly disagree, 5 = strongly agree) with the following statements:

Figure 8. *Event rating in terms of outcomes (5 - very good, 1 - weak, 0 - not present)*

VR/AR Hackaton at UNT

The VTech VR/AR HACKATON was held on 25 October 2022, by UMT, Skopje, North Macedonia. Some impressions are as follows:
- The event could be improved with greater participation.
- Discuss new topics

Figure 9 and Figure 10 show the overall event rating in terms of organization/ management and outcomes:

Figure 9. *Event rating in terms of organization/management (5 - very good, 1 - weak, 0 - not present)*
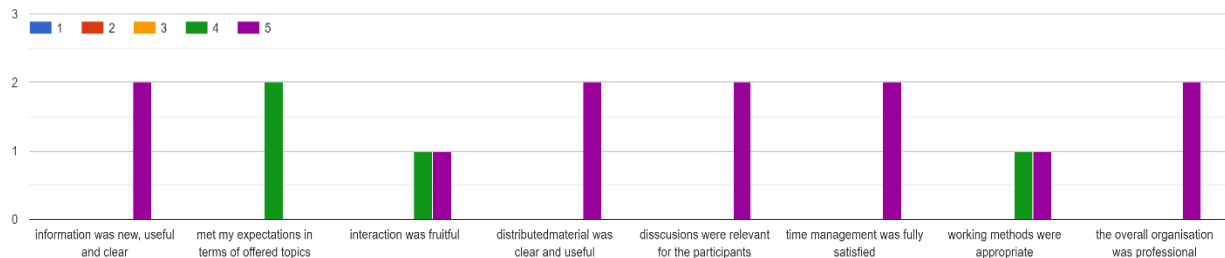
Figure 10. *Event rating in terms of outcomes (5 - very good, 1 - weak, 0 - not present)*

Document evaluation

Figure 11 shows the overall quality rating of delivered documents for each WP:

Please rate quality of delivered documents for each WP (5 - very good, 1 - weak, 0 - no documents):
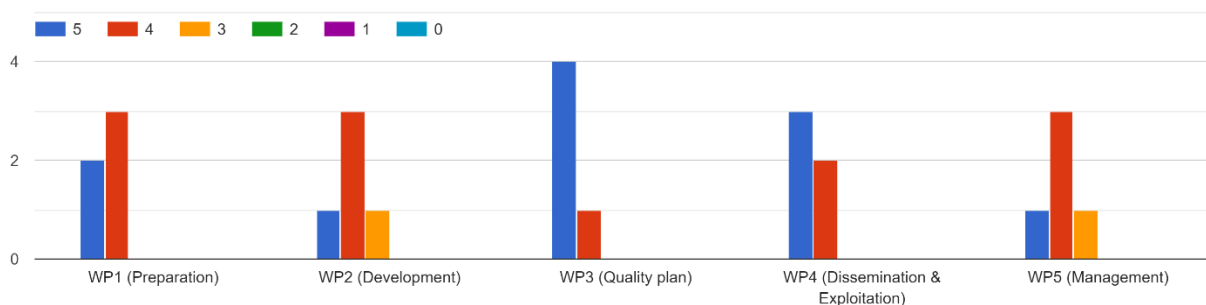

Figure 11. Overall quality rating of delivered documents for each WP (5 - very good, 1 - weak, 0 - not present)

Conclusions

The final stage of the project has been more intensive since in this period were scheduled most of the onsite activities which were postponed due to Covid19. As listed above, we had five diverse events including staff, student and administrative training, summer schools, hackathon, study visits in EU countries, as well as steering committee meetings.

In the previous period the VR labs were completed in all partner countries, which made possible the use of VR/AR technologies in several courses. Their application as well as student experienced were presented in final meeting by all the partners.

At the same time, the research paper "Trends and challenges of virtual technologies usage in Western Balkans educational institutions" was accepted for publication in the *Information Journal*. The paper was prepared on the survey conducted in all Balkan countries at the beginning of the project. Later on, the data analysis was conducted, and the results were presented in this paper. Authors of the paper are representatives from each country – partner in the project. At this stage also other important dissemination activities took place. This report was generated for the activities of the third year of the project. The Quality Assurance Team prepared the content and later approved it at the meeting on 28 October 2022. The report is based on the questionnaires that were shared and fulfilled by different participants in the events and project activities. They have evaluated the meetings, training, documents, and overall project activities. The Report includes also partners' self-evaluation of each of their tasks.

<u>Note</u>: The Project Coordinator (UAMD) is in process of completing the procedure for contracting an external project evaluator.