

BRIGHT

Erasmus+ strategic partnership for Higher Education
BOOSTING THE SCIENTIFIC EXCELLENCE AND
INNOVATION CAPACITY OF 3D PRINTING METHODS IN
PANDEMIC PERIOD

E3 REPORT

Project Title	Boosting the scientific excellence and innovation capacity of 3D printing methods in pandemic period 2020-1-RO01-KA226-HE-095517
Output	E3 – Multiplier event - BRIGHT research base learning method for teaching
Date of Delivery	30th of September 2022
Authors	Sven Maričić (UNIPU) Juraj Dobrila University of Pula (UNIPU)
Version	V4, 30.09.2022

1. Description of BRIGHT Project

The main objective of the BRIGHT project is to provide teaching resources and methods for professors from Higher Education institutions who are interested in finding ways to provide their students with relevant knowledge, skills, and competences in the field of 3D printing methods used for producing medical parts, by providing e-courses that support the BRIGHT project curriculum, e-toolkit manuals for digital learning, and e-resources for digital learning. Erasmus+ is the European education, training, youth, and recreation program for the period 2014-2020.

This initiative was financed through Key Action 2, Cooperation for innovation and exchange of good practices, of the Strategic partnership for higher education action type. The Juraj Dobrila University of Pula organized the third multiplier event over the course of a single day.

2. Summary of the multiplier event

The Multiplier Event (E3) organised and facilitated by Juraj Dobrila University of Pula (UNIPU) was held on 30th September 2022 at Medical high school to present the results of the intellectual outputs of BRIGHT project to an invited audience composed of academic institutions, medical experts, representatives and industry experts. The Multiplier (E3) event's target audiences were individuals involved in field of 3D printing/CAD/CAE/Medical Engineering, including teaching staff, students and others involved in the field of 3D printing in Higher education.

The 3rd Multiplier event has also been opened to business partners that are interested about developing, producing, and testing of parts by 3D printing methods - in order to ensure a maximum audience. Since Medical school is strongly related to medical field in general, it was decided to invite several groups of their classes in order to further boost and explain the benefits of BRIGHT project. Continuing the project's activities after its completion, especially if they involve professional medical education, has the potential to substantially contribute to the improvement of society. This could be accomplished by expanding and enhancing public health initiatives or by developing innovative new technologies. By pursuing such endeavors, the initiative has the potential to have a lasting impact on society, fostering innovation and advancing scientific knowledge.

The objective of this multiplier event was to present and share the results reached in intellectual outputs, and BRIGHT summer school held in Pula, Croatia in July 2022, related to the generated materials and other achieved outcomes of the project.

The Multiplier event was scheduled to feature multiple presentations by TUCN, UNIPU, BIZZCOM, and PUT representatives. Explanations of the BRIGHT Project's objectives, the summer learning experience at the BRIGHT summer school held in Pula, and the project's significant outcomes were the focus of the presentations.

The focus in presentations was also on implementation of some topics directly in broader audience community.

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The adopted agenda for multiplier event has been shown below.

Activity	Location
1 Opening ceremony / Press conference	Medical school
2 Presentations of the BRIGHT project main KPI results / summer school activities (Juraj Dobrila + TUCN)	Medical school
3 VR&AR&3D printing activities (PUT + BIZZCOM + Juraj Dobrila)	Medical school
4 Various activities with participants (3D printing of models, virtual tour etc.) (all partners)	Medical school
5 Presentations of 3D models	Sveta srca (from 19h)

There were 110 participants from several different institutions, companies and universities.



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In order to further publicly disseminate project results, at the end of the (E3) day around 19h it was organised public exhibition in Svetasrca gallery of 3D models obtained during the BRIGHT project.

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3. Attendance

For inviting participants, UNIPU sent e-mails directly to several medical and non-medical related organisations, SME's and regional higher education institutions who could be interested in the project, later a press release was published on the UNIPU and BRIGHT website.

The following participants were present at the event:

- Medicinska škola (Medical school) Pula
- Juraj Dobrila University of Pula
- Faculty of Mechanical Engineering Pula
- Croatian Red cross, City of Pula
- BM Plast d.o.o., Croatia
- City of Pula

4. Questionnaire/Inquiry data and results

The participants were asked to submit the following survey anonymously. This questionnaire inquired about the administration of the event, the materials presented, and general impressions of Multiplier Event E3. Vast majority of participants are satisfied and very satisfied with all questioned areas. However, attendees also gave suggestions for aspects that could be enhanced in future activities.

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Instructions: Please indicate your level of agreement with the statements listed below, on a scale from 1 to 5, where:

1 - Strongly disagree

3 – Neutral

5 – Strongly agree

2 – Disagree

4 – Agree

A. Objectives of the meeting

Statement	Score				
	1	2	3	4	5
1. The objectives of the meeting were clearly defined.					
2. The objectives were met during the meeting.					
3. All the relevant topics were covered during the meeting.					
4. The content was well organized and easy to follow.					
5. I obtained useful information and knowledge that will help me in my activity at work.					

B. Organization of the meeting

Statement	Score				
	1	2	3	4	5
6. The meeting was well organized.					
7. The facilitators were knowledgeable about the discussed topics.					
8. The facilitators were dedicated and supportive.					
9. Participation and interaction were encouraged.					
10. The schedule and the agenda were observed throughout the meeting.					
11. The materials distributed were useful.					
12. The time allocated for the meeting and for the activities, was sufficient.					
13. The meeting room and facilities were adequate and comfortable.					

14. What did you like the most about how the meeting was organized?

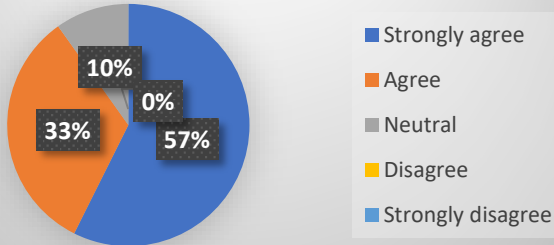
15. What aspects of the organization could be improved?

16. Please share other comments and suggestions that were not covered in the previous questions:

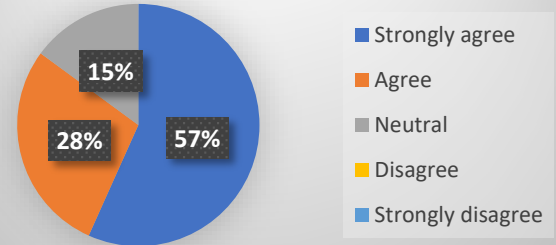
A total of 71 participants completed the feedback questionnaires and the results are presented in the following charts:

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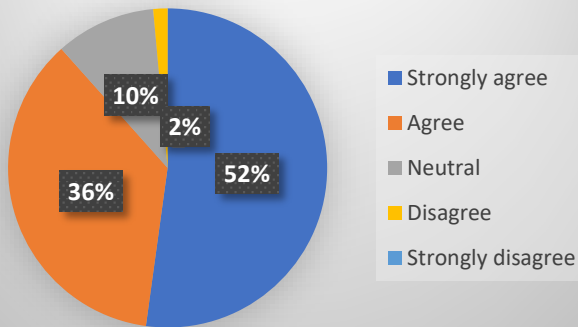
The objective of the meeting were clearly defined



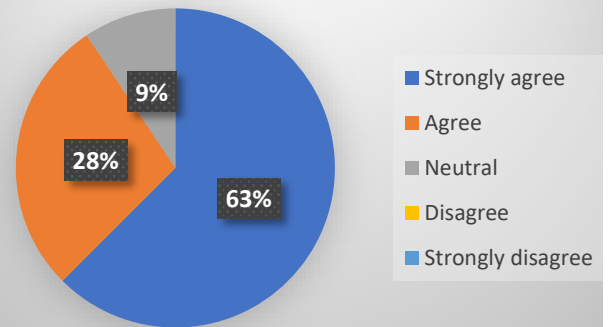
The objectives were met during the meeting



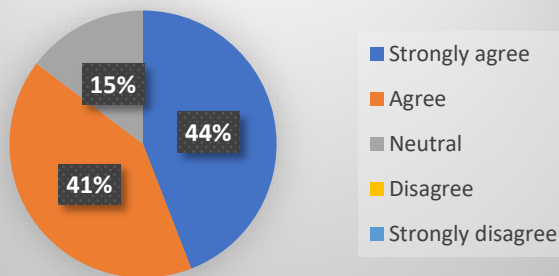
All relevant topics were covered during the meeting



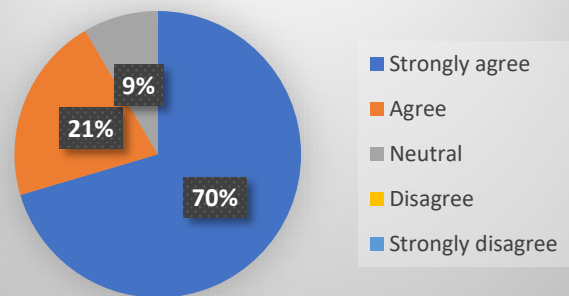
The content was well organized and easy to follow



I obtained useful information and knowledge that will help me in my activity at work

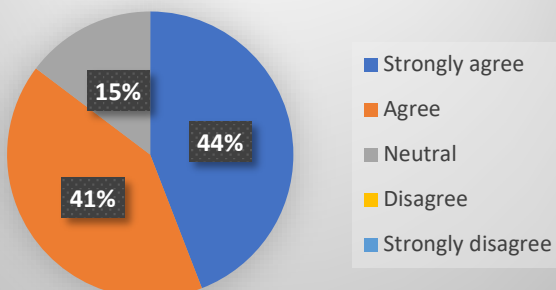


The meeting was well organized

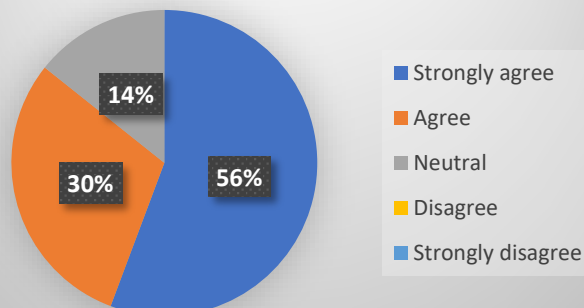


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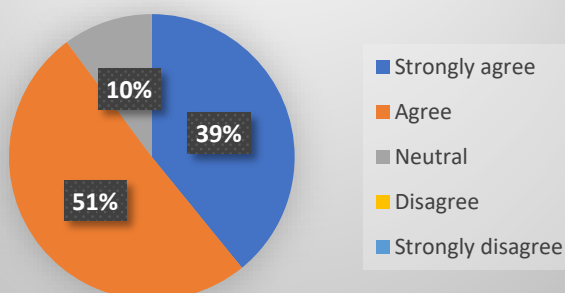
I obtained useful information and knowledge that will help me in my activity at work



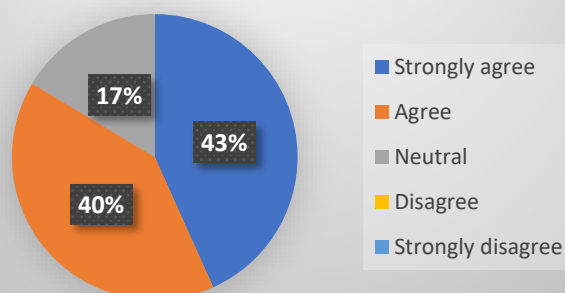
The facilitators were dedicated and supportive



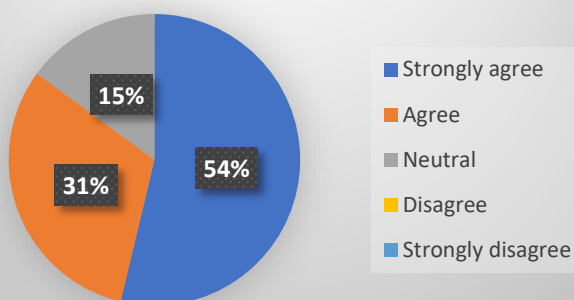
Participation and interaction were encouraged



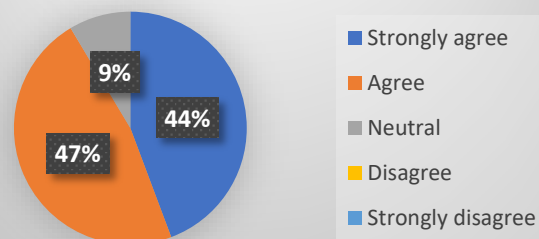
The schedule and the agenda were observed throughout the meeting



The materials distributed were useful

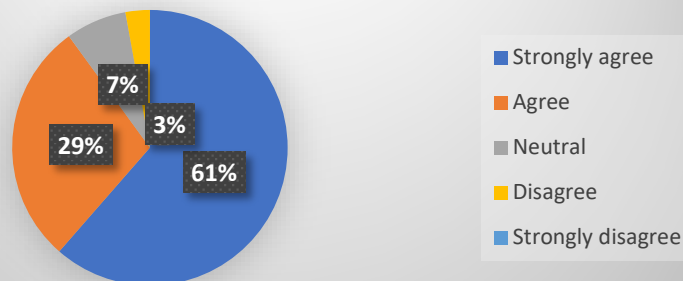


The time allocated for the meeting and for the activities, was sufficient



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The meeting room and facilities were adequate and comfortable



For the questions 14, 15, 16 the answers were:

What did you like the most about how the meeting was organized?

- I liked organisation of the event
- Great and well done
- I liked the atmosphere during the event
- Presented ways of using 3D print technology
- Content of presentations and hands on experience

What aspects of the organization could be improved?

- *Please organise more interactive 3D print workshops*
- *Organise and advertise more events like this with live interactions and lecturing presentations*
- *Please include more translated materials in Croatian language*

Please share other comments and suggestions that were not covered in the previous questions:

- *It was very interesting, I loved especially 3D labs and scenes during the presentation*
- *Please present more details about next planned projects and summer school*

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5. Conclusion

The majority of respondents were satisfied with the organization of the event (content organisation, the location and time), and the objectives of the Multiplier Event were explicitly communicated and attained at the conclusion of the event (according to the responses 3 and 5 to name a few). Also, the materials of the presentations were well-prepared and well-structured, according to responses it can be seen that even participants unfamiliar with the production of medical devices were able to follow the planned agenda, prepared materials and general discussion. Regarding possible enhancements, the lack of direct advertising was brought up, the project team will take this into consideration and put emphasis on different social media platforms proactivity as well. During the Q&A session, numerous questions were asked about the BRIGHT project itself, summer school held in Pula 2022 and the possibility of organizing similar events but not only for students but also for participants from different SME's and areas, for whom future implementation of 3D printing methods in medicine may be useful as well.

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