

TASK 01/A5. Report on the results of First International Seminar in Sofia (Bulgaria)



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1. INTRODUCTION

This Multiplier Event, organised by the BGBC, focused on the use of BIM technologies in architecture and was attended by architecture and construction professionals from the countries involved and by representatives related to BIM and the environment.

The purpose of this seminar is to collect information from the event attendees, who are experts in the different fields of construction sector (architect, students, promoters, etc.).

In this report, you will find the results of this event.

This report and all the information about the project are available in the following url:

- BIMEPD project web: <https://bimepd.eu/>

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2. AGENDA

BIMEPD project.

Seminar in Sofia (Bulgaria)

ADAPTED SENIOR TRAINING PROGRAM ON BIM METHODOLOGIES FOR THE INTEGRATION OF EPD IN SUSTAINABLE CONSTRUCTION STRATEGIES

March 17th, 2022

**Thursday,
17th**

**Seminar place: Polygraphia office center: 1124 Sofia, Bulgaria
47A Tsarigradsko shose Blvd.**

09.30 - 10.00	Welcome participants by BGBC.
10.00 - 10.20	Consortium presentation by BGBC.
10.20 - 10.50	Expected results of BIMEPD project: COMMON LEARNING OUTCOMES ADAPTED TO ADULTS ON BIM TECHNOLOGIES.
10.50 - 11.20	Coffee break
11.20 - 11.50	BIM tools applied to LCA, by CYPE
11.50 - 12.50	Round table. Participants: arch. Elitsa Panayotova, Sofia Green, Municipality of Sofia; mr. Ivan Zaykov, arch. Vessela Valtcheva-McGee and arch. Kiril Velkovsky, BGBC; arch. David Perez, CTM; arch. Alexander Genchev, SolAir Architects, Chamber of Architects in Bulgaria (CAB);

Event partners



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According to the agenda of the International Seminar, were made the following interventions:

1. Welcome participants by host organisation (BGBC). This welcome session was led by BGBC Chairman, Mr. Ivan Zaykov
2. Consortium presentation by BGBC.
3. Presentation of the consortium of the BIMEPD project. It was carried out by Arch. David Perez, the coordinator of the project.
4. Presentation of the expected results of BIMEPD project: "Common learning outcomes adapted to adults on BIM technologies". Arch. Perez was in charge of this presentation as architect of the Marble, Stone and Materials Technological Centre (CTM).
5. Presentation of the BIM tools applied to LCA, by Mr. Pablo Gilabert (CYPE).
6. Round table. The seminar was also attended by professionals of recognised prestige who were part of a round table, where they first told about their experiences in relation to BIM and architecture. The participants in this round table discussion were: arch. Elitsa Panayotova, Sofia Green, Municipality of Sofia; mr. Ivan Zaykov, arch. Vessela Valtcheva-McGee and arch. Kiril Velkovsky, BGBC; arch. David Perez, CTM; arch. Alexander Genchev, SolAir Architects, Chamber of Architects in Bulgaria (CAB).

3. WELCOME PARTICIPANTS

Mr. Ivan Zaykov, as representative of the host organisation, welcomed the attendees to the event. Ivan gave a brief introduction to the seminar and presented the BIMEPD project to the attendees, telling them about its main objectives and results already achieved.

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4. PRESENTATION OF THE CONSORTIUM

Ivan then introduced each of the entities participating in the BIMEPD project. He explained to the audience the profile of each of them and their main functions in the BIMEPD project.



Mr. Ivan Zaykov, BGBC, presenting the Bulgarian Green Building Council, 17th of March 2022.

3. PRESENTATION OF THE COMMON LEARNING OUTCOMES ADAPTED TO ADULTS ON BIM TECHNOLOGIES [CTM]

Arch. David Perez presented the BIMEPD educational platform. He explained the importance of increasing the skills of adult senior architects, which are not familiar with the Building Information Modelling (BIM) technologies and the way construction materials with Environmental Product Declarations (EPD) are implemented through the BIM technologies.

Arch. Perez informed the audience, that the new BIM methodologies were not included in the curricula of the Universities when the nowadays 40 years old architects used to study. The architectural education 10-20 years ago reflected the methodologies in buildings design and construction back then. The lack of knowledge on these new technologies makes this group of professionals in the field less competitive on the market. He underlined that by learning how to use these essential methodologies, explained by the BIMEPD educational platform, the senior architects have a chance to step on the contemporary labour market which requires new skills and better understanding of the forthcoming construction requirements. The BIMEPD platform is expected to increase their ability to continue their professional career.



Arch. David Perez, CTM, presenting the BIMEPD project consortium, 17th of March 2022.

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Arch. David Perez explained that once the senior architects complete their curricula in the BIMEPD educational platform, the expected outcomes are that they will be able to:

1. Know the different tools of management, differentiating those of a mandatory nature from those of a voluntary nature
2. Identify and assess the best techniques in a constructive process.
3. Know the different concepts of the field of sustainability.
4. Know the sustainable construction and the life cycle assessment
5. Understand sustainability as a new culture in the construction sector
6. Be able to develop an efficient project, taking into account the design, new technologies, and its functionality
7. Develop the capacity for environmental evaluation of construction projects, and the capacity for self-criticism
8. Know the different European environmental specific regulations in the field of construction
9. Know the different available methodologies for construction to be able to develop an optimized project

The above skills will give the senior architects the opportunity to continue their work in the fast-developing construction sector by fulfilling all recent requirements.

David also explained the reason for the choice of the learning methodology finally selected, as the partners from all the participating countries pooled their resources and selected those methods that were considered most suitable for adult education and that were currently showing the best results.

Presentation available in the website.

3. BIM TOOLS, APPLIED TO LCA [CYPE]

Mr. Pablo Gilabert gave a presentation about the BIM tools, applied to the life cycle assessment of construction materials and buildings (LCA).

The CYPE representative showed the mechanism how BIM instruments are connected to the LCA and help the designers choose the best option for a low carbon building to be created. He explained the functional results of the BIM technologies in different projects and how BIM is giving the opportunity to connect all environmental aspects of the future building from the very beginning, during the design stage: energy efficiency, circularity, building maintenance, life cycle assessment.

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Mr. Pablo Gilabert, CYPE, presenting BIM tools, applied on LCA, 17th of March 2022.

According to Mr. Gilabert, BIM is giving a brand new level in building and infrastructure design by having a holistic approach which results in better construction with high energy and resource efficiency, low carbon footprint and significant health & wellbeing features.

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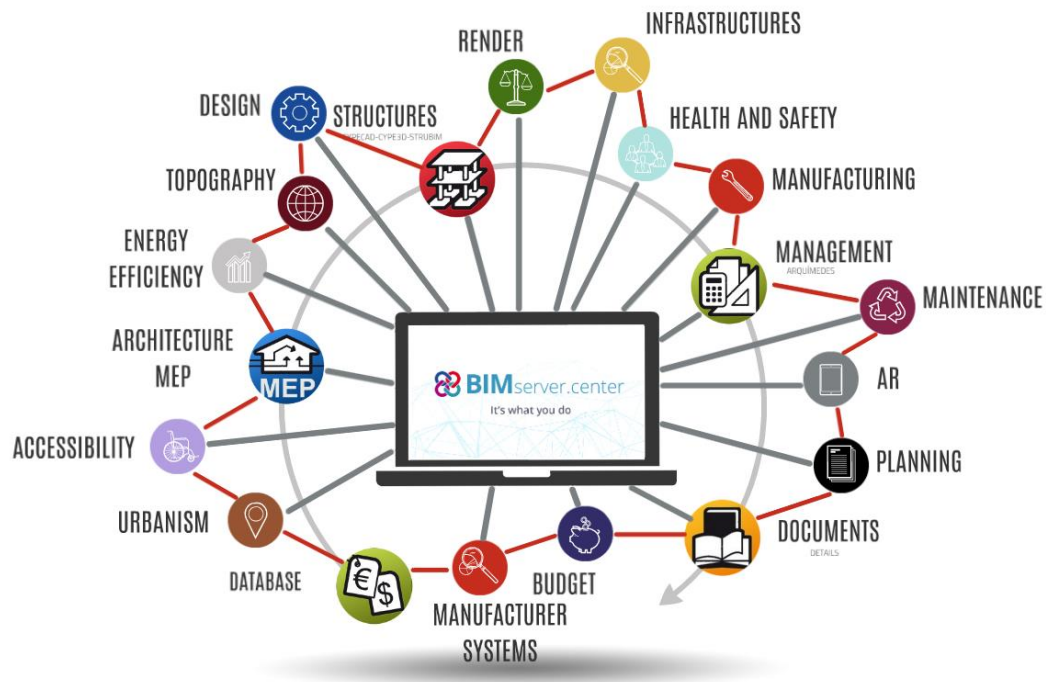


Figure 1: BIM server centre features by CYPE.

4. ROUNDTABLE DISCUSSION

After the presentation sessions ended, the audience was invited to attend a Round table with the following participants:

Arch. Elitsa Panayotova, Sofia green, Municipality of Sofia; Ivan Zaykov, arch.Vessela Valtcheva-MacGee and arch. Kiril Velkovsky, BGBC; arch. David Perez, CTM; arch.Alexander Genchev, SolAir Architects, Chamber of Architects in Bulgaria (CAB).

The participants explained their experience with BIM, how it is implemented and the results the methodology gives during the whole process of the building design and construction.

The audience was concerned about the slow penetration of the BIM methodology in the Bulgarian market where most of the buildings keep being designed and constructed as if the BIM methodology has never been invented.

5. CONCLUSIONS

The above listed professionals in the fields of manufacturing of construction materials, architecture, urban planning and buildings certification gave their valuable points of view on the significance of BIM, EPD and LCA in the contemporary building design and construction. All of them agreed that these tools are an inseparable part of the future, low carbon construction and ensure the circularity in the sector.

Many of the participating senior architects expressed their interest in the forthcoming BIMEPD platform training, willing to learn working with BIM methodology and become part of the sustainable construction professionals.

Number of attendees

The total attendance at the First International Seminar of the BIMEPD project was 23 external people in addition to the 14 BIMEPD consortium representatives:

Colegio Oficial de arquitectos de la Región de Murcia (COAMU):

- Arturo Garcia Aguera.
- Lara Pardo Guardiola

Asociación Empresarial de Investigación Centro Tecnológico del Mármol, Piedra y Materiales (CTM):

- David Caparrós Pérez.

Institute of Entrepreneurship Development (iED):

- Nikos Passatoglou
- Fenia Kalanitzi

Warsaw University of Technology (WUT):

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- Pawel Nowak
- Aleksander Nikal

CYPE:

- Yvez Menez
- Benjamin Gonzalez
- Pablo Gilabert

Bulgarian Green Building Council (BGBC):

- Ivan Zaykov
- Vessela Valtcheva-McGee
- Kiril Velkovsky
- Anna Vitkova



The audience at Polygraphia Office Center, 17th of March 2022.

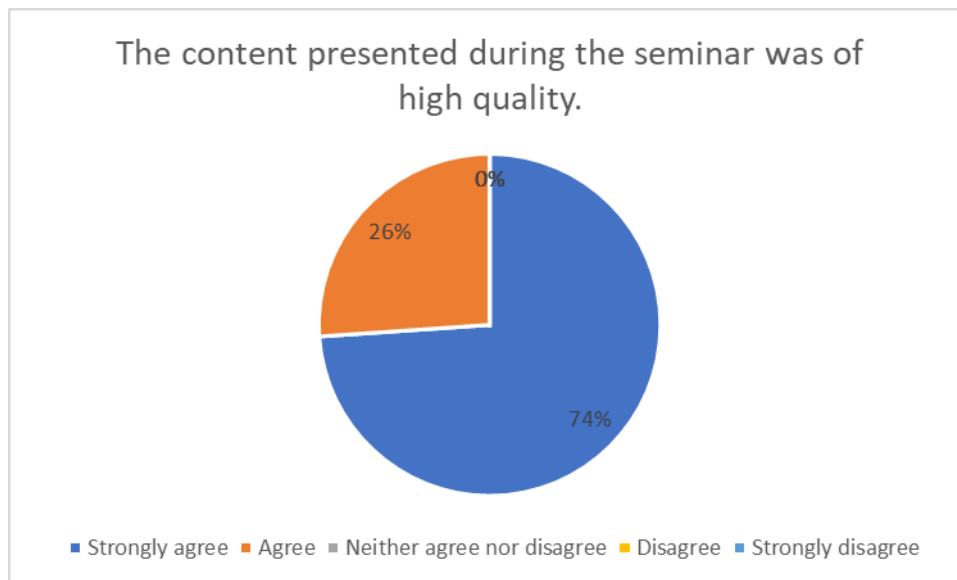
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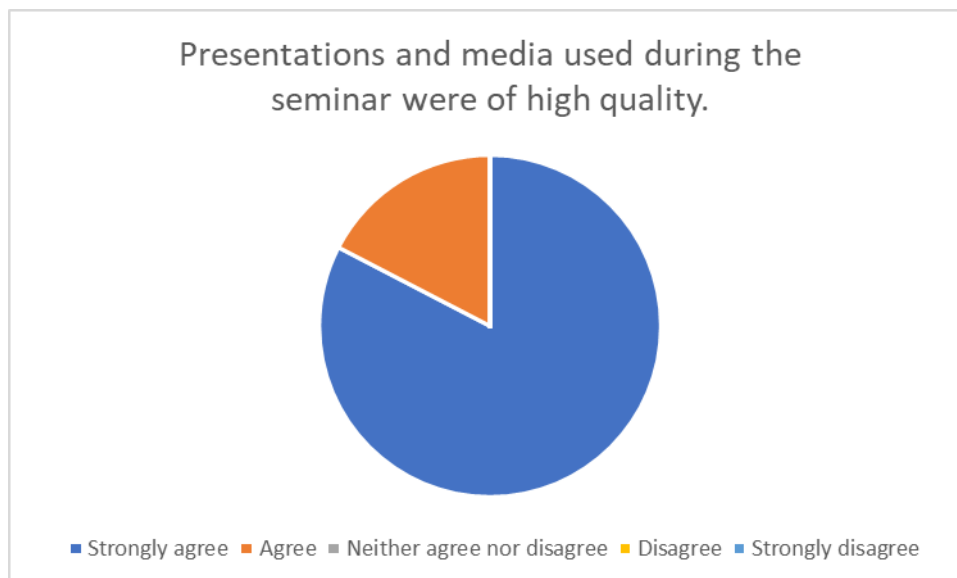
6. SURVEY RESULTS

Participants in the seminar were asked to respond to the following statements, expressing their level of agreement with the statements provided.

1. The content presented during the seminar was of high quality.

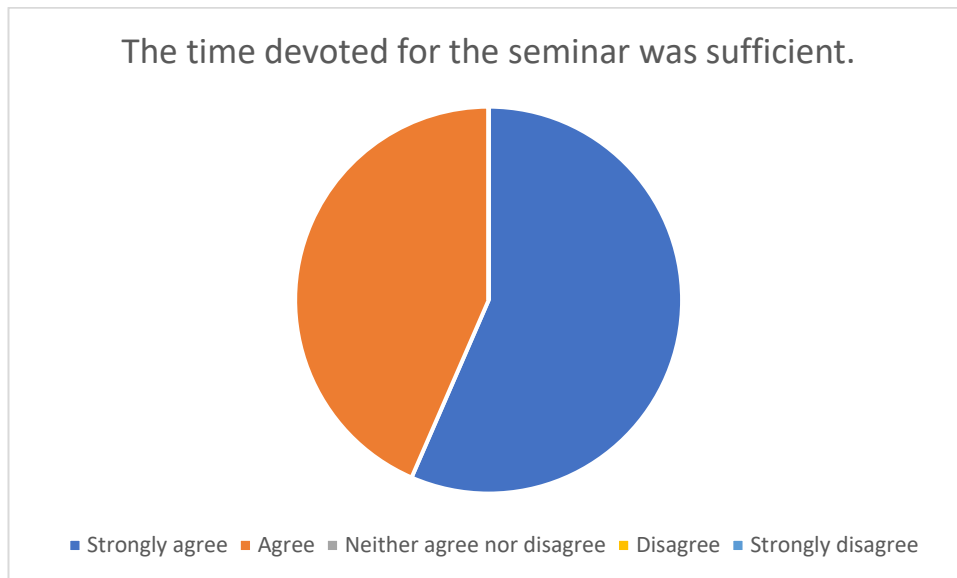


2. Presentations and media used during the seminar were of high quality.

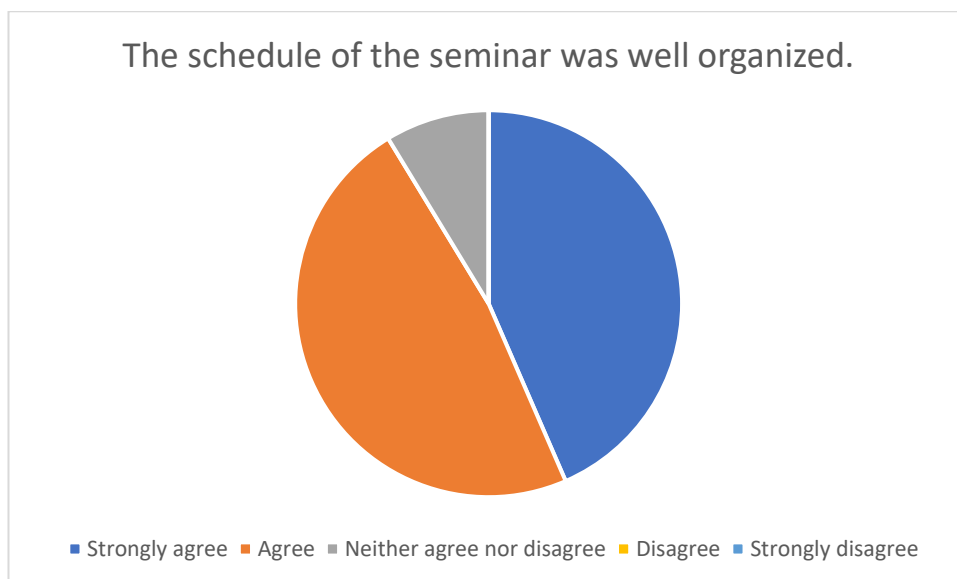


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3. The time devoted for the seminar was sufficient.

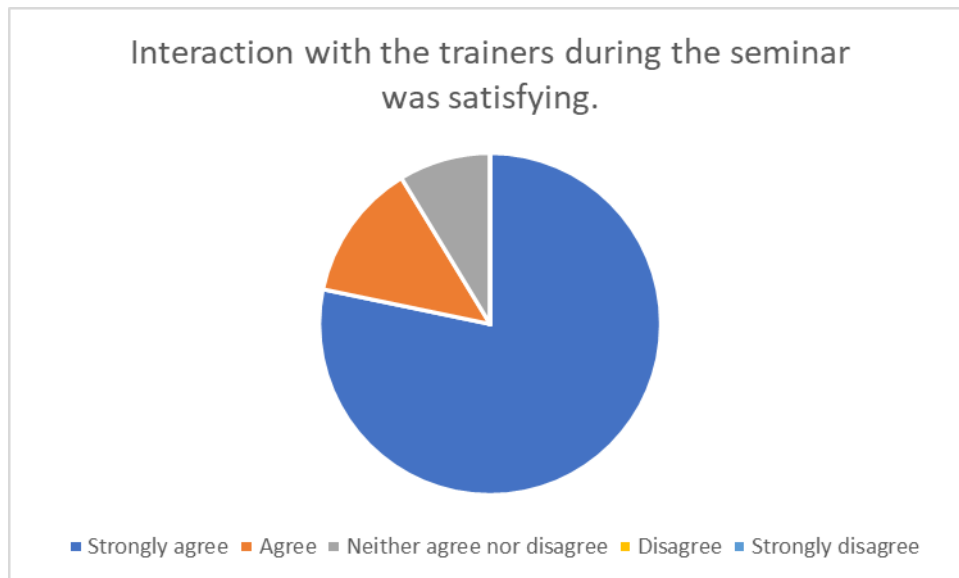


4. The schedule of the seminar was well organized.

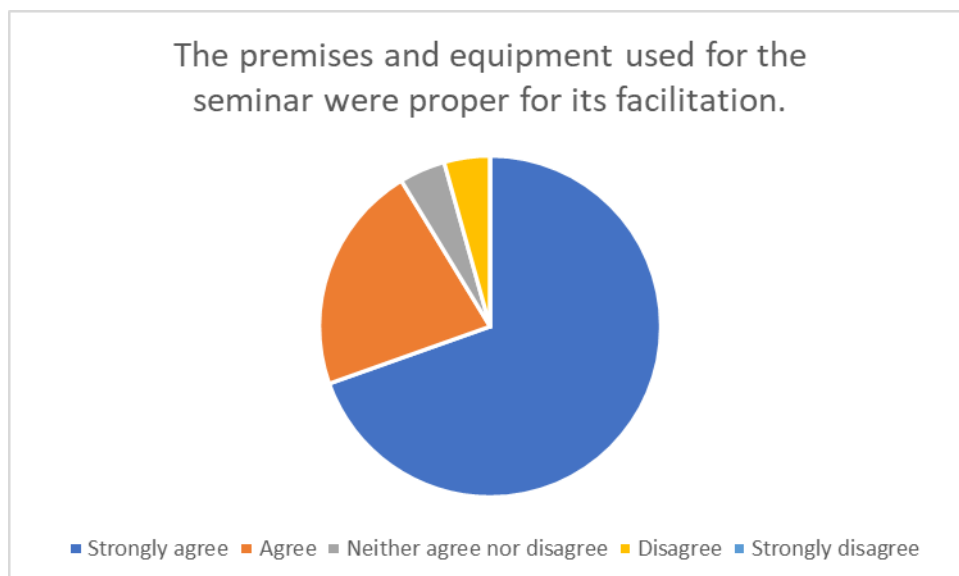


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5. Interaction with the trainers during the seminar was satisfying.

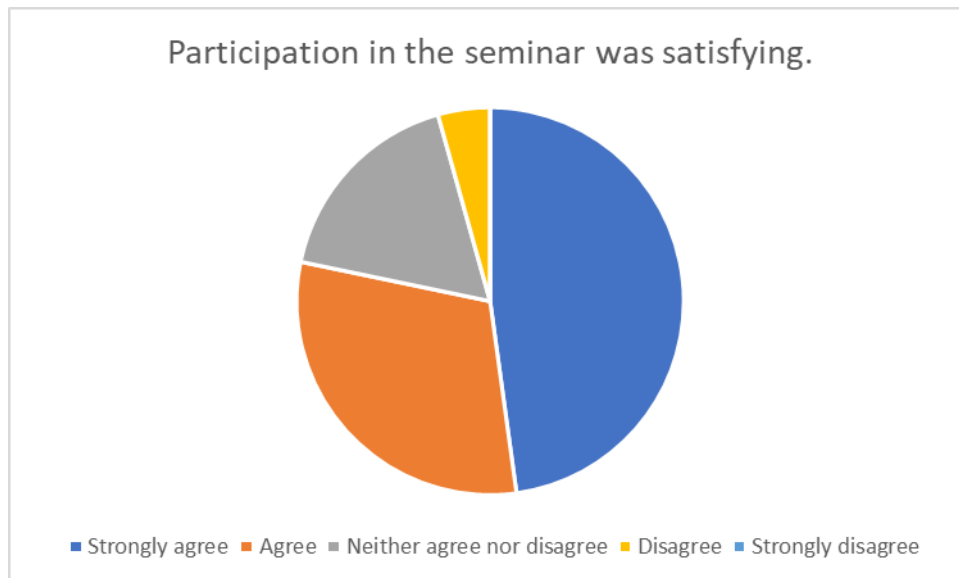


6. The premises and equipment used for the seminar were proper for its facilitation.

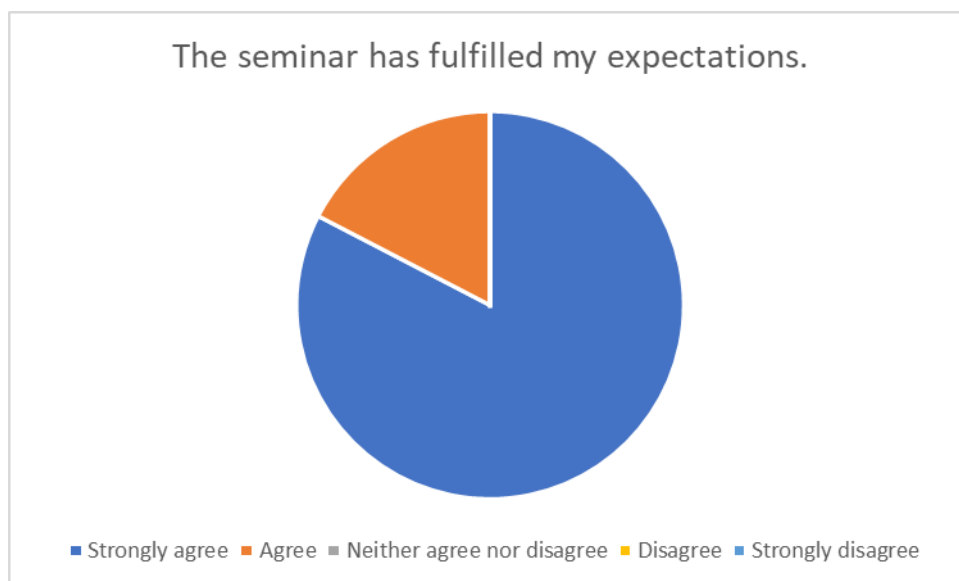


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7. Participation in the seminar was satisfying.

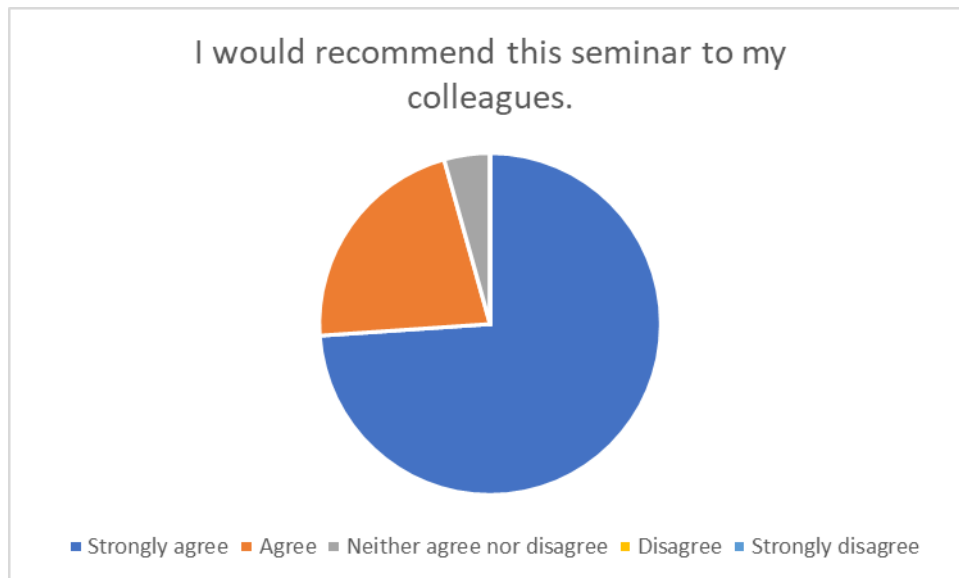


8. The seminar has fulfilled my expectations.

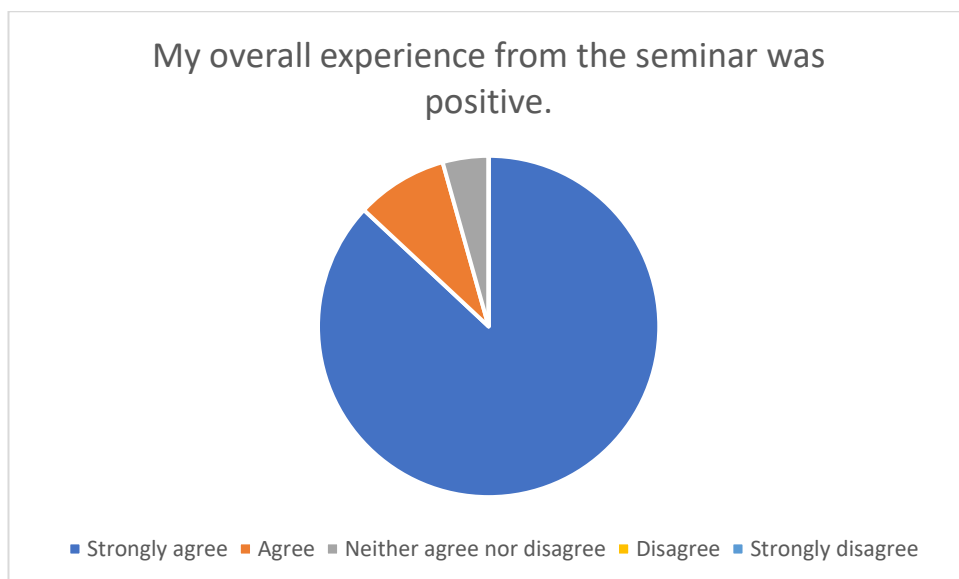


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9. I would recommend this seminar to my colleagues.

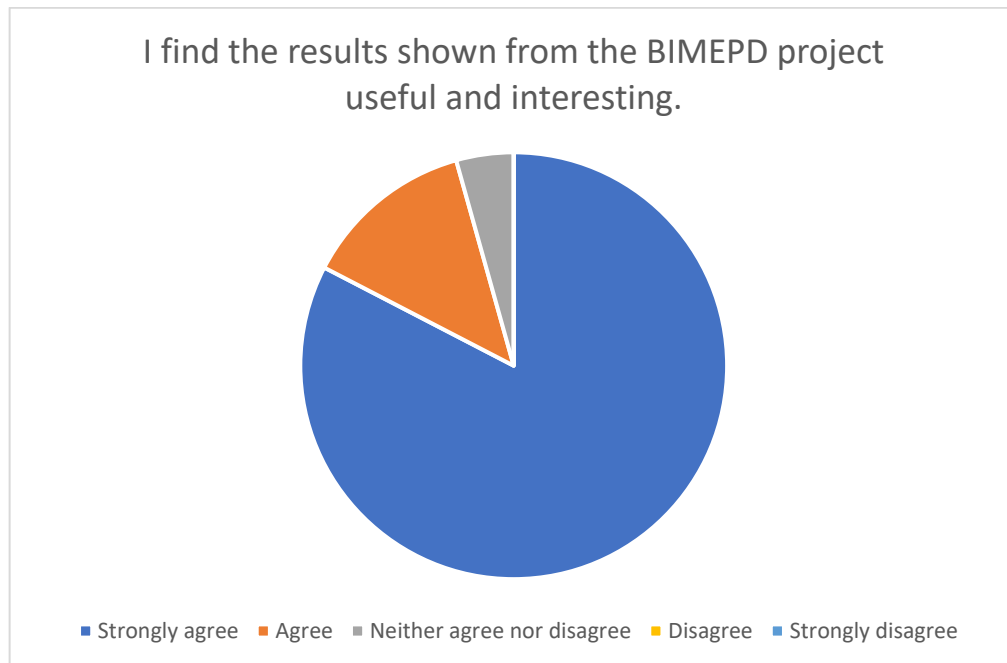


10. My overall experience from the seminar was positive.

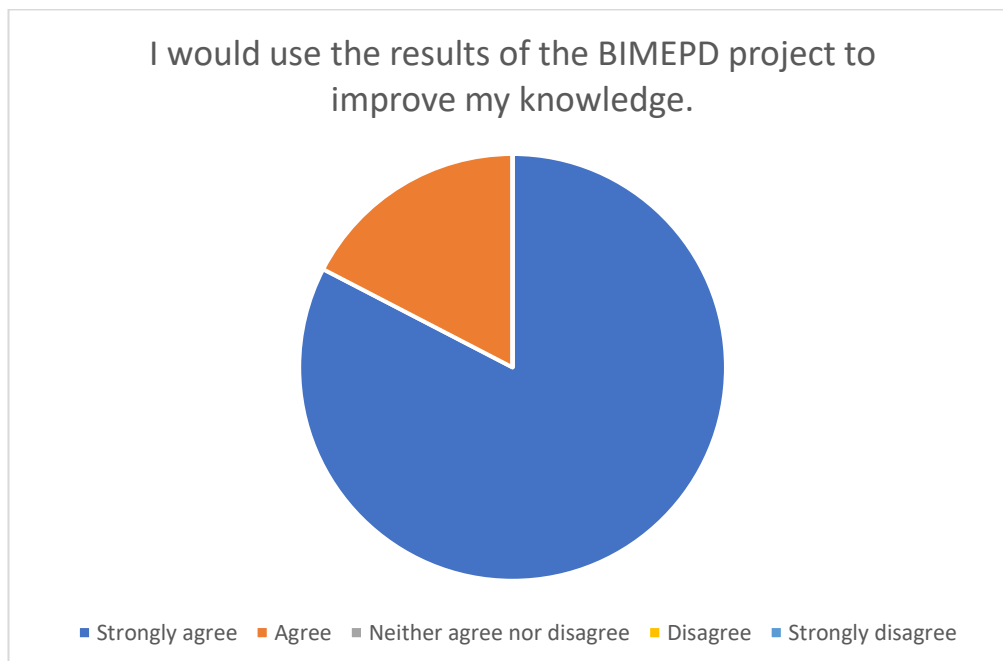


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11. I find the results shown from the BIMEPD project useful and interesting.



12. I would use the results of the BIMEPD project to improve my knowledge.



7. CONCLUSIONS OF THE SURVEY

Based on the analysis of the survey responses, participants were in general highly satisfied with the quality of the seminar, the topics and their interaction during the activity. This is in line with our impressions while attending the seminar, and the excellent working environment within which it took place.