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## REPORT ON THEME BASED TRAININGS

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Climate-friendly and innovative solutions in the context of urban development:  
current and future challenges

Project: 101081724 — SmartWB — ERASMUS-EDU-2022-CBHE

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## List of abbreviations

BAT	Best Available Techniques
BiH	Bosnia and Herzegovina
BSc.	Bachelor of Science
CSUD	Climate Smart Urban Development
ECTS	European Credit Transfer System
HEI	Higher Education Institutions
MSc.	Master of Science
NSSD	National Sustainable Development Strategy
SDG	Sustainable Development Goals
SWOT	Strengths, Weaknesses, Opportunities, Threats
URP	Urban Regulatory Plan
WB	Western Balkan
WP	Working Package

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## Executive Summary

Climate-smart urban development (CSUD) plays a crucial role in the European Union and has to be prioritized in the member states regarding both the legislative framework and the implementation of concrete measures. Therefore, countries which want to join the EU need to show their focus on CSUD by formulating specific planning policies according to EU law and realizing innovative measures.

The SmartWB project, which is funded by the EU, focuses on three Western Balkan (WB) countries, namely Montenegro, Bosnia and Herzegovina and Albania, regarding their current conditions in CSUD with the objective to identify existing CSUD projects, but also deriving CSUD measures which still need to be realized. A crucial responsibility in increasing the knowledge and expertise in CSUD in the WB countries is carried by the universities in the region. Therefore, within the framework of Work Package (WP) 2 SmartWB, an analysis of existing curricula and programs related to CSUD in EU member states and in three countries of the Western Balkans was carried out with the aim of identifying deficiencies in the subjects that are taught. This activity was input for the modernization of taught courses or the introduction of missing ones within the framework of WP3.

WP3 also includes (Task 3.3) strengthening teacher capacities at the partner universities involved in the project so that they are ready to teach modernized courses to students. For this purpose, program partners organized a series of six thematic training sessions for the involved teachers to prepare them for delivering modernized courses.

Within the given time frame for Task 3.3, six theme-based training sessions were organized, with 120 participants, of whom 96 were from Western Balkans partner institutions (80 were planned).

This report provides a consolidated report on conducted theme-based training of teaching staff for acquiring new practical skills held from May 2023 to April 2024, delivered themes, and statistics on participation.

## 1. Introduction and objectives of Task 3.3

This Report on Theme-based training of teaching staff for acquiring new practical skills is part of work package (WP) 3 of the 'SmartWB'-project, which is funded by the European Union. The content of the Report is structured as follows:

- 1) Consolidated Report of TG 3.3 Theme-based training of teaching staff for acquiring new practical skills
- 2) Summary of Task 3.3 – Theme-based training of teaching staff for acquiring new practical skills

The objectives of the report are to summarize all theme-based training reports for a quick overview of the performance of whole Task 3.3 and the findings obtained, which will help proceeding to work on WP3.

In the project proposal, the following has been foreseen:

As part of Task 3.3, six three-day trainings of teaching staff from third countries not affiliated to the Program were held (14 employees per training) will be organized in EU member states and third countries affiliated to the Program's higher education institutions.

The program partners who will hold the training will prepare reports on the training after each event, and this Report should be comprehensive in providing an overview of what was collected by third countries that are not affiliated with the Program staff and participated in the training will be given.

The goal of the training was to educate WB teachers about innovative teaching methods in the classroom and laboratories and to improve their professional, pedagogical and methodical knowledge. The following topics were discussed and analyzed: principles of learning, the importance of learning outcomes when choosing course content, innovative visual or digital techniques such as using educational video during lectures, preparing a well-structured lecture, teaching/learning strategies such as problem-based learning, computer-based learning, peer and field learning, creative teaching, scenario teaching.

The adopted teaching methods will enable greater interaction of students in lectures, which will result in much greater satisfaction, greater thinking abilities and increased motivation.

For this purpose, the member states of the European Union and third countries associated with the partners of the Program will prepare training programs, materials, lecturers and technical details important for their successful implementation.

Six trainings with participations of at least 80 WB teaching staff were organized as following:

- M7 – UNI (14 teaching staff),
- M8 – NMBU (14 teaching staff),
- M9 – UNIZG (14 teaching staff),
- M12 – URJC (14 teaching staff),
- M14 - BOKU (14 teaching staff),
- M15 - THOWL (14 teaching staff).

## 2. Conducted theme-based trainings

As planned, six theme-based training have been organized and executed in the foreseen time. Regarding the schedule of conducted trainings one change was introduced. Namely, due to the reconstruction of numerous UNIZG faculty buildings, including the building of the Faculty of Geodesy, the training organized by UNIZG was realized in the Center for Advanced Academic Studies of the University of Zagreb in the available time slot (M5). Following this change, the training schedule, dates, location and organizers are as follows:

- 1) From May 9<sup>th</sup> to 11<sup>th</sup>, 2023, the 1<sup>st</sup> theme-based training for teachers took place in Dubrovnik in Centre for Advanced Academic Studies of University of Zagreb, Croatia, organized by Željko Bačić, Iva Cibilić and Vesna Poslončec-Petrić.
- 2) The second theme-based training of teaching staff for acquiring new practical skills of the Erasmus+ Capacity Building in Higher Education project SmartWB was held at the University of Nis in Nis, Serbia, from 14<sup>th</sup> to 16<sup>th</sup> of June 2023. The training was face-to-face event and organized by Milan Gocić.
- 3) The 3<sup>rd</sup> theme-based staff training “Theme-based training of teaching staff for acquiring new practical skills” took place at Norwegian University of Life Science in Ås and Oslo, Norway from 29<sup>th</sup> August 2023 to 31<sup>st</sup> August 2023. Training was organized by Harsha Ratnaweera.
- 4) 4<sup>th</sup> theme-based training of teaching staff for acquiring new practical skills of the Erasmus+ Capacity Building project SmartWB was held at the Rey Juan Carlos University, in Fuenlabrada Campus, Spain, from 12<sup>th</sup> to 14<sup>th</sup> of December 2023. The training was face-to-face event and organized by Carmen De-Pablos-Heredero and Miguel Blanco-Callejo.
- 5) From March 19<sup>th</sup> to 21<sup>st</sup>, 2024, the 5<sup>th</sup> theme-based training for teachers took place in Hoexter, Germany, at campus of University of Applied Sciences and Arts Ostwestfalen-Lippe, organized by Martin Oldenburg and Anna Mues.
- 6) From 3<sup>rd</sup> to 5<sup>th</sup>, April 2024, the 6<sup>th</sup> theme-based training of teaching staff was held at the University of Natural Resources and Life Sciences (BOKU) in Vienna, Austria, organized by Doris Damjanović.

Each activity of the training in chronological order is captured on photographs including a brief description in training report. The agenda with the program of each training is given in Annex I, while the list of participants is given in Annex II.

### 3. Content of the Theme-based training of teaching staff for acquiring new practical skills

The theme-based trainings covered a variety of topics, starting with some general introduction on innovative teaching methodology and gradually focusing on specific themes which are subject of course modernization or introduction of new one. The aforementioned was achieved in such a way that the order of the training, i.e. the host partner, was selected according to the area of expertise of each EU partner university, which gave the training participants a comprehensive insight into the issues and the training, which, in addition to the theoretical part, also contained numerous practical parts, i.e. a demonstration through a tour of the institutions and companies that promote best practice in its field of activity.

#### 3.1. 1st Theme-based training

1<sup>st</sup> Theme-based training for teachers took place in Dubrovnik in Centre for Advanced Academic Studies of University of Zagreb, Croatia, May 9 to 11, 2023 organized by Željko Bačić, Iva Cibilić and Vesna Poslončec-Petrić, University of Zagreb Faculty of Geodesy, Zagreb, Croatia.

The training was a face-to-face event with 20 participants from 9 different partner institutions. A registration list of the participants as well as the attendance lists for each of the 3 days are in the attachment of this report. From the 20 participants, 4 were from Albania, 7 from Bosnia and Herzegovina and the remaining 4 came from Montenegro. 3 participants were from University of Zagreb (organization of training) and 2 participants were students from University of Benha. 12 persons of the 20 (60%) participants were female and 8 were male (40%).

The purpose of the training was to:

- educate WB teachers about innovative teaching methods,
- improve the professional, pedagogical, and methodological knowledge and
- acquire new practical skills in the field of CSUD.

On first training day, after introduction and host institution presentation, two introductory presentations have been given by Željko Bačić (“Universities in digital revolution era - bridging the skills gap between supply and demand of education and training”), Ana Kuveždić Divjak (“Bologna process for curriculum development: course descriptors and learning outcomes”). In afternoon session introduction to the topic of mobile phones as an educational tool has been given by Iva Cibilić.

On second day of training, Vesna Poslončec-Petrić presented the topic “Problem based learning - involving business stakeholders in educational process” in online mode through MS Teams. In technology driven study programs and courses, problem-based learning combined with involvement of business stakeholders in educational process is seen as one of solutions to cope with changes. Also, GEOBIZ project approach, activities and results were presented, followed by lecture given by Željko Bačić, titled: “Smart cities – concept, approaches, solutions and impact of climate change on it”. Iva Cibilić continued to deal with the topic of noise mapping with the smartphone collected data through practical exercise. The participants were



introduced with the basic concepts of field data collection, they were instructed to download a mobile application for noise collection and guided through the process of noise collection. The main obstacles were emphasized on the field, and collected data was saved and downloaded.

On the last (third) day of the training, the participants, under supervision of Iva Cibilić, used the noise data collected the previous day to create a noise map. Last lecture's topic was Education for sustainable development and Smart cities delivered by Željko Bačić. Training ended with open discussion about the conducted training, topics presented and challenges on the way to introduce climate smart urban development content in partners curricula. Partners from beneficiary countries shortly presented courses they plan to modernize and the way how they intend to do it. Further, discussion was about the Smart cities challenges and possibilities to introduce more Smart cities content in partners syllabuses, up to introducing new study programme.

No specific conclusions have been made but rather expressed participants satisfaction with organized training.



*Figure 1: Participants of 1<sup>st</sup> Theme-based training organized by University of Zagreb Faculty of Geodesy (UNIZG)*

### 3.2. 2nd theme-based training

The second theme-based training of teaching staff for acquiring new practical skills of the Erasmus+ Capacity Building in Higher Education project "Curricula innovation in climate- smart urban development based on green and energy efficiency with the non-academic sector" (SmartWB), was held at the University of Nis in Nis, Serbia, from 14<sup>th</sup> to 16<sup>th</sup> of June 2023. The training was face-to-face event and chaired by Milan Gocić.

The training was a face-to-face event with 24 participants from 8 different institutions. A registration list of the participants as well as the attendance lists for each of the 3 days are in the attachment of this report. From the 18 participants, 7 were from Albania, 6 from Bosnia and Herzegovina and the remaining 2 came from Montenegro. 9 participants were from University of Niš (organization of training). 11 persons of the 24 (46%) participants were female and 54% were male.

The training consisted of three basic parts:

1. Innovative teaching methodology, approaches, usage of digital technology with practical demonstration which covered the topics:
  - Augmented collaboration toolkit (Milica Ćirić, Milan Gocić)
  - E-learning modules for serious games and Open training on eLearning with serious games (Milica Ćirić, Milan Gocić)
2. Set of topics related to urban environment and its protection with practical demonstration of tools used in education (toolkits and games) and it included lectures under the titles
  - Architectural covers as microclimate modifiers (Vuk Milošević)
  - Advances in Managing Built Heritage for Climate-Smart Development (Ljiljana Jevremović, Ana Stanojević)
  - IoT and smart cities (Milan Gocić, Aleksandar
  - Urban Resilience with Nature Based Solutions - Current Eco-oriented Approaches Ljiljana Vasilevska)
  - Urban hydrology - Nature-Based Solutions focused on urban water cycle (Borislava Blagojević)
3. Visits of laboratories of the Faculty of Civil Engineering and Architecture were led by Milan Gocić and Mladen Milanović.



Figure 2: Participants of 2<sup>nd</sup> Theme-based training organized by University of Niš (UNI)

During the preparation of the 2<sup>nd</sup> Theme-based training of teaching staff for acquiring new practical skills in Nis there were no problems. All preparatory activities went without significant implementation issues. The evaluation's results indicated that the event had been successfully completed. According to the survey results, there were no suggestions for the improvement.

### 3.3. 3rd theme-based training

The 3<sup>rd</sup> staff training for acquiring new practical skills took place in Ås and Oslo, Norway from 29<sup>th</sup> August 2023 to 31<sup>st</sup> August 2023 organized by Norwegian University of Life Sciences (NMBU).

The training was a face-to-face event with 17 participants from 8 different institutions. A registration list of the participants as well as the attendance lists for each of the 3 days are in the attachment of this report. From the 17 participants, 6 were from Albania, 6 from Bosnia and Herzegovina and the remaining 2 came from Montenegro. 9 participants were from NMBU (organization of training). 8 persons of the 17 (47%) participants were female and 9 (53%) were male.

This training in Norway brought together participants from three Western Balkans countries: Albania, Bosnia and Herzegovina, and Montenegro along with Norway. The participants represented different universities from the consortium: UET, U-Polis, UNBI, UOM, UNSA, UNMO, UPT, NMBU. They also came from different backgrounds in engineering which enriched this multidisciplinary activity and opened the space to exchange expertise and best practices in education related to Climate-Smart Urban Development (CSUD).

The broader objective of SmartWB is to improve the existing education in climate-smart urban development by building professional and technical capacities of Western Balkans higher education institutions, applying innovative teaching methods and ICT in the education process, and creating permanent links with the non-academic sector. Therefore, this intensive three-day training aimed to:

- Equip participants with essential practical skills geared towards enhancing the quality of higher education in the field of climate-smart urban development (CSUD).
- Provide the necessary space for attendees to network, connect and share the related practices in the education of CSUD.

The outcome of this event was a successful knowledge transfer experience where participants received insightful ideas through presentations and site visits on best practices of CSUD and innovative digital tools for education in Norway. The participants showed high interest in adopting and applying the takeaways from this event in their practices as educators.

Under the overarching theme of climate-smart urban development, the training program encompassed a diverse array of agenda items, categorized into three main sessions:

- First session in Ås – Sustainable architecture, geomatics and internationalizations which included presentations on these topics presented by NMBU professors.
- Second session in Oslo – Urban design in practice: water and building management. This was carried out through site visits to different places in Oslo to show practical examples of green and blue infrastructure.
- Third session in Oslo – Innovations in education and water management where the participants were introduced to the innovative practices in water quality management by DOSCON as well as the innovative practices in education including using the ChatGPT and the digital tools.

“The training session in Norway turned out to be training also for the host, NMBU, as well. It is the most multidisciplinary activity I was involved in and surprised how much I and my team learned from the sessions. The training gave a whole new understanding on how sustainable urban activities could be built around water. It was a daunting task to satisfy the expectations of such a heterogeneous group, but we felt we managed not only to satisfy the expectations of the SmartWB team, but also to create lifelong memories. The event strengthened the social



bonding among the participants which laid a solid foundation for an even stronger sustainability of the project. We wait impatiently for the next gathering “, said Prof. Harsha, the organizer of the event from NMBU, as a reflection on the event.

“The highly different professional backgrounds of the participants posed a difficult task in front of Prof. Harsha's team. However, they succeeded in making an agenda that would fulfil everyone's expectations and professional curiosity. The participants were delighted by the NMBU campus tour, guided by Agnie and Rasha, looking at students' activities and the support they get from their teachers. The organizers succeeded in comprehending all aspects needed to improve education in the climate-smart urban development field in this three-day event. Above all, our NMBU colleagues strengthened our interpersonal relations and made the SmartWB team more coherent by creating a positive and pleasant atmosphere, encouraging everyone to actively participate and express their particularities and uniqueness”, added Marija Jevrić (UoM).



*Figure 3: Teachers from Albania, Bosnia & Herzegovina, and Montenegro in 3<sup>rd</sup> Theme-based training organized by Norwegian University of Life Sciences (NMBU)*

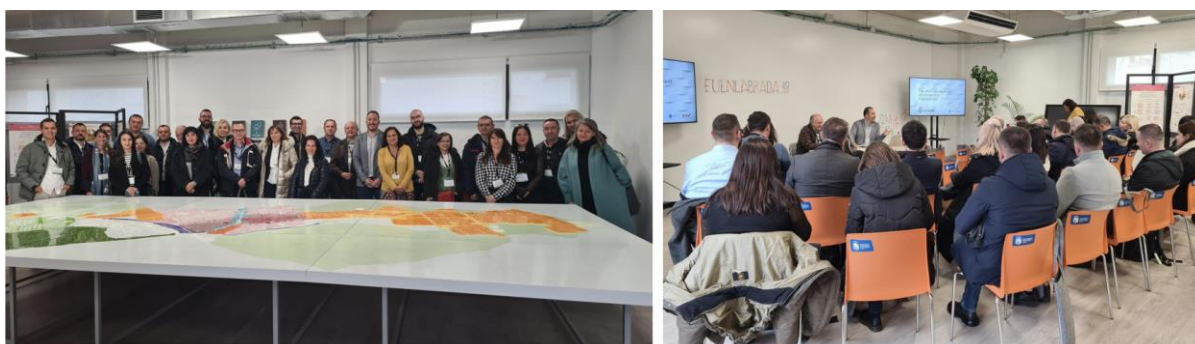
### 3.4. 4th theme-based training

Fourth theme-based training of teaching staff for acquiring new practical skills of the Erasmus+ Capacity Building in Higher Education project "Curricula innovation in climate- smart urban development based on green and energy efficiency with the non-academic sector" (SmartWB), was held at the Rey Juan Carlos University, Spain, from 12<sup>th</sup> to 14<sup>th</sup> of December 2023. The training was face-to-face event and organized by Carmen De-Pablos-Heredero and Miguel Blanco-Callejo.

The training was a face-to-face event with 30 participants from 16 different institutions. A registration list of the participants as well as the attendance lists for each of the 3 days are in the attachment of this report. From the 18 participants, 9 were from Albania, 7 from Bosnia and Herzegovina and the remaining 5 came from Montenegro. 9 participants were from URJC (organization of training), NMBU, UNIZG and THOWL. 13 persons of the 30 (43%) participants were female and 17 (57%) were male.

On the first day of the workshop the lectures were about past and current Engineering and Technical School (ETSIT) projects in energy efficiency in Building using WSN (wireless sensor

networks). First a visit to Municipal Housing Institute of Fuenlabrada IMVF was organized, where directions for energy efficiency in the city and new projects were presented. Also, later, in Fuenlabrada Campus, a workshop took place on monitoring management and visualization techniques in dashboards for a time series ideal for monitoring systems in smart spaces. The workshop was also about creating digital twins with alternative software for creating spaces intelligently and categorizing them. Second day, participants had the opportunity to listen to lectures on educational gamification and create podcasts. On the last day, a workshop was held on circular economy for sustainable waste management and a visit to the packaging recycling plant (Fuenlabrada) was also arranged.



*Figure 4: 4<sup>th</sup> Theme-based training organized by Rey Juan Carlos University, Madrid, Spain*

### 3.5. 5th Theme-based training

From March 19 to 21, 2024, teachers from Albania, Bosnia & Herzegovina, and Montenegro gathered in Hoexter, Germany for a transformative theme-based training organized by Martin Oldenburg and Anna Mues from OWL University of Applied Sciences and Arts.

The training was a face-to-face event with 13 participants from 8 different institutions. A registration list of the participants as well as the attendance lists for each of the 3 days are in the attachment of this report. From the 13 participants, 5 were from Albania, 5 from Bosnia and Herzegovina and the remaining 3 came from Montenegro. 7 persons of the 13 (54%) participants were female and 6 (46%) were male.

Day one started with immersive experiences at THOWL campus, delving into laboratories exploring renewable energy and water treatment technologies. From solar cells to virtual platform of wastewater treatment plants, participants were immersed in a world of innovation.

Day two saw creativity in action with Lego Serious Play sessions, where ideas were visualized and discussions sparked. Later, minds converged to design courses integrating digital platforms, paving the way for future-focused education.

The final day took the group to Essen, where the EmscherGenossenschaft (EGLV), a public water utility with statutory responsibilities, led an eye-opening bicycle tour. From the transformation of the Emscher River to repurposing industrial spaces for community use with a main focus on blue-green infrastructure including sustainable stormwater management, sustainability and education intertwined seamlessly.



*Figure 5: Participants in Theme-based training organized by OWL University of Applied Sciences and Arts*

### 3.6. 6th Theme based training

The 6<sup>th</sup> theme-based training of teaching staff for acquiring new practical skills was held from 3<sup>rd</sup> to 5<sup>th</sup> of April 2024 at BOKU University in Vienna, Austria. The training was a face-to-face event with 18 participants from 8 different institutions. A registration list of the participants as well as the attendance lists for each of the 3 days are in the attachment of this report. From the 18 participants, 8 were from Albania, 8 from Bosnia and Herzegovina and the remaining 2 came from Montenegro. 6 persons of the 18 (33%) participants were female and 12 (66%) were male.

The training was organized by several employees of BOKU University. The chairperson was Christiane Brandenburg from the Institute of Landscape Development, Recreation and Conservation Planning.

The objectives of the training were:

- Presentation of innovative teaching methods and tools including interactive groupwork exercises.
- Presentation and hands-on testing of the LandscapeLab.
- Presentation of current research projects at BOKU University focusing on climate-adapted planning, urban heat islands, recreation planning and management, urban green infrastructure, and participation in landscape planning.
- A guided tour through the new hydraulic laboratory of BOKU University.
- A guided tour through the recreational area 'Wienerberg'.
- A guided tour through the climate-smart urban neighborhood 'Biotope City'.



*Figure 6: Participants in 6<sup>th</sup> theme-based training organized by BOKU University in Vienna, Austria*



## 4. Theme-based training statistics

In this chapter statistics about conducted training sessions is given supported with several graphical representations. In total six conducted trainings have been attended by 120 participants. Out of them, 96 participants came from Western Balkans partner universities while 24 participants from EU universities (as teachers/organizers). The summarized number of participants per training session is given in Table 1.

*Table 1: Number of partners' participation in Theme-based training sessions*

Partner No.	Institution	Partner type	1 TBT	2 TBT	3 TBT	4TBT	5TBT	6TBT	Total
1	UoM	HEI	2	2	2	3	2	2	13
2	UNI	HEI		9		2			11
3	BOKU	HEI				1			1
4	NMBU	HEI			3	1			4
5	UNIZG	HEI	3			2			5
6	URJC	HEI				2			2
7	THOWL	HEI				1			1
8	UNSA	HEI	3	2	2	2	1	3	13
9	UNMO	HEI	2	2	2	2	2	2	12
10	UNBI	HEI	2	2	2	2	2	3	13
11	UET	HEI	2	2	1	4	1	2	12
12	UPT	HEI		3	3	2	2	3	13
13	U_POLIS	HEI	2	2	2	3	2	2	13
14	Co-PLAN	Buss	1			1	1	1	4
15	OZON	Buss	1			1			2
16	ACE BH	Buss				1			1
	<b>Total</b>		<b>18</b>	<b>24</b>	<b>17</b>	<b>30</b>	<b>13</b>	<b>18</b>	<b>120</b>



All partner institutions in the consortium participated in the training. However, as planned, the participation of the program partners was significantly lower (BOKU, NMBU, UNI, URJC, UNIZG, THOWL), see Figure 6. Namely, if there was no progress meeting involved in the training event, only the organizing program partner attended the event.

From Figure 7 is visible that the presence of the participants from partner universities was even, with almost no oscillation (oscillating in number from 12 to 13), while presence of non-academic partners was lower.

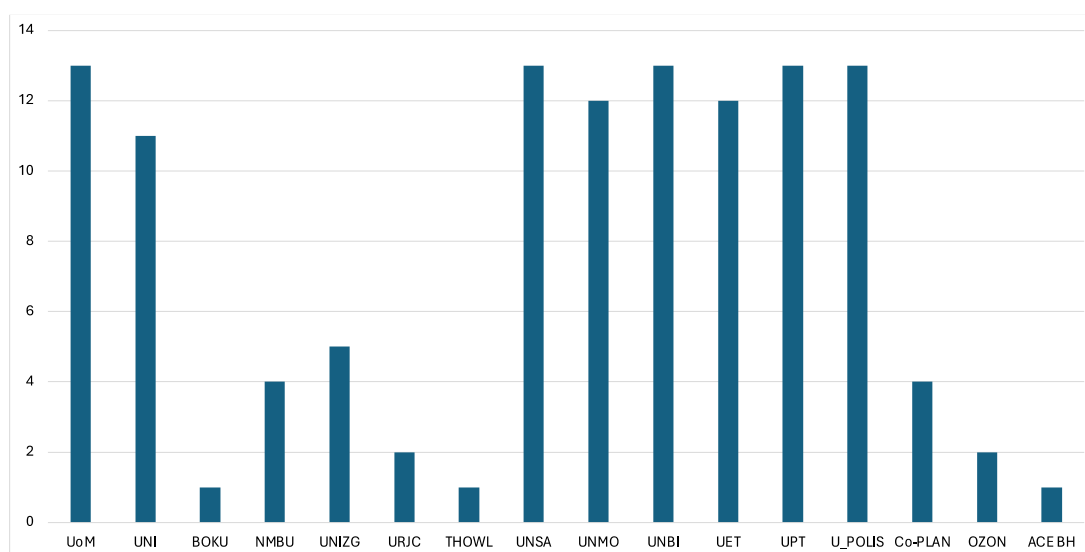


Figure 7: The participation by universities in training sessions.

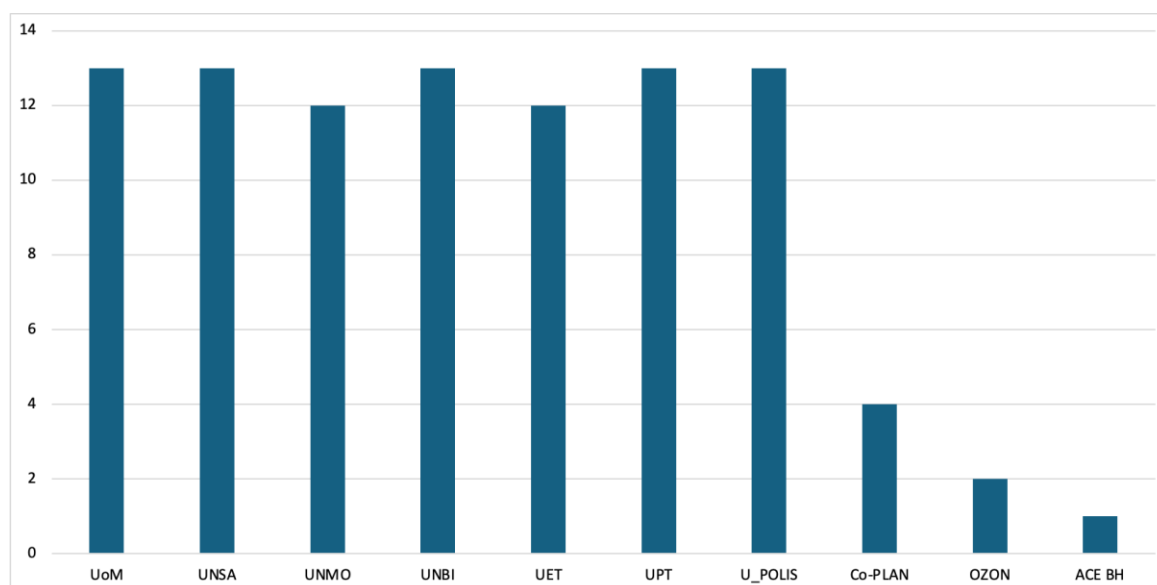


Figure 8: The participation of partner country partners in training sessions

Above mentioned is also confirmed in Figures 8 and 9, showing representation per training and per countries, keeping in mind that Albania and Bosnia and Herzegovina were represented by two universities and one company/NGO, while Montenegro with one university and one company/NGO.

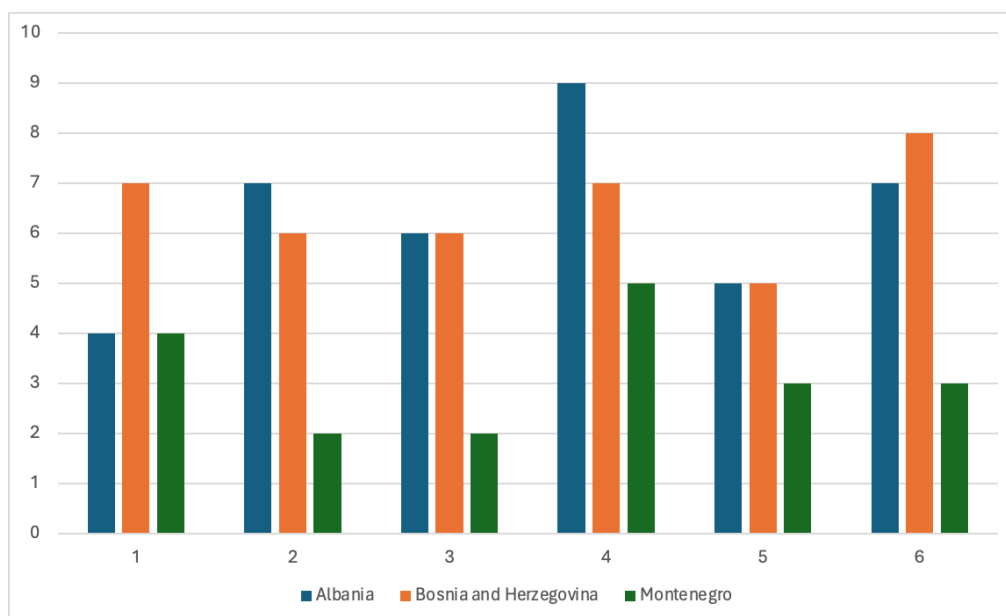


Figure 9: The participation per training per *partner country*

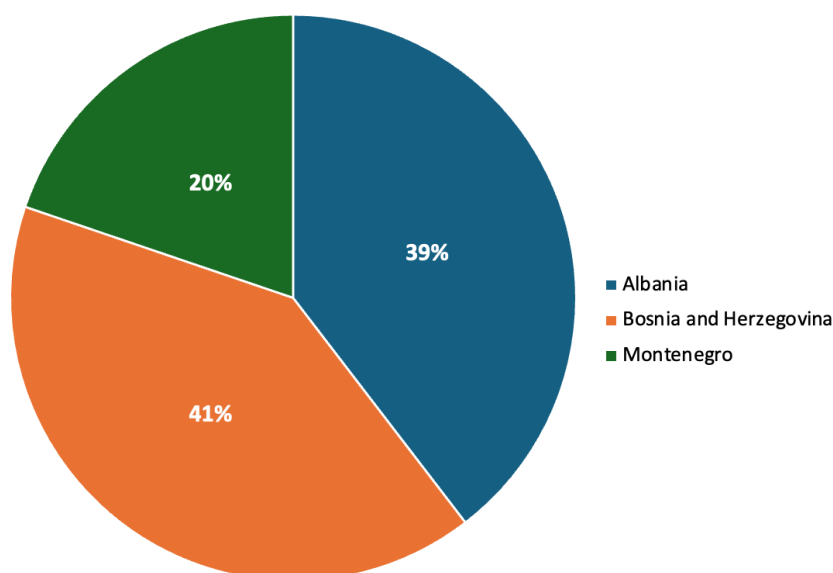


Figure 10: Total trained participation per *partner country*

## 5. Conclusions and outlook

Task 3.3 Theme-based training of teaching staff for acquiring new practical skills has been executed in full extent inside foreseen timeframe covering numerous relevant themes as well as methodology and practical examples demonstrating different innovative approaches. In the way the trainings were organized, how the lecturers presented the thematic content, as well as how the theoretical part was combined with practical examples and demonstrations in companies and institutions, this task provided the participants with complete information and a basis for the introduction of modernized content into the curricula of partner universities.

In six conducted theme-based trainings, 96 teachers from Western Balkans partner institutions attended training, which represents an execution of 120% compared to the planned 80 participants.

In accordance with the results of the internal evaluation, which participants filled after each training session, they were very satisfied with the training conducted without special comments or remarks.

Based on everything presented, it can be concluded that the theme-based training fulfilled its purpose and gave the teachers at the partner universities the necessary theoretical knowledge and practical skills for the successful introduction of modernized courses in teaching at their universities.

## Annex I - Agendas of Theme-based trainings

### Agenda of 1<sup>st</sup> Theme-based training

Tuesday, 9 <sup>th</sup> May 2023		
CAAS, Don Frana Bulića 4, Dubrovnik		
09:00-09:30	SmartWB participants registration	
09:30-09:50	Presentation of the University of Zagreb, Faculty of Geodesy and Centre for Advanced Academic Studies in Dubrovnik	Dean CAAS director
09:50-10:00	Agenda for the training activities at CAAS	Željko Bačić
10:00-11:30	Universities in digital revolution era - bridging the skills gap between supply and demand of education and training.	Željko Bačić
11:30-12:00	Coffee break (atrium)	
12:00-13:00	Bologna process for curriculum development: course descriptors and learning outcomes.	Ana Kuveždić Divjak (online)
13:00-14:00	Lunch break (atrium)	
14:00-15:00	Mobile phone as educational tool – example: Noise map project.	Iva Cibilić
18:00	Old city guided tour	
Wednesday, 10 <sup>th</sup> May 2023		
09:00-10:30	Problem based learning - involving business stakeholders in educational process.	Vesna Poslončec-Petrić (online)
10:30-11:00	Coffee break (atrium)	
11:00-12:30	Smart cities – concept, approaches, solutions and impact of climate change on it	Željko Bačić
12:30-13:30	Lunch break (atrium)	
13:30-16:00	Mobile phone as educational tool – example: Noise map project	Iva Cibilić
20:00	Social event	
Thursday, 11 <sup>th</sup> May, 2023		
CAAS, Don Frana Bulića 4, Dubrovnik		
09:00-10:30	Mobile phone as educational tool – example: Noise map project	Iva Cibilić
10:30-11:00	Coffee break (atrium)	
11:00-12:30	Education for sustainable development and Smart cities	Željko Bačić
12:30-13:30	Lunch break (atrium)	
13:30-15:00	General discussion	Željko Bačić

## Agenda of 2<sup>nd</sup> Theme-based training

Wednesday, 14 <sup>th</sup> June 2023		
University of Nis, Univerzitetski trg 2, Nis (room 38)		
09:00-09:30	SmartWB participants registration	
09:30-09:50	Presentation of the University of Nis and the Faculty of Civil Engineering and Architecture	Milan Gocić
09:50-10:00	Agenda for the training activities at UNI	Milan Gocić
10:00-11:30	<p>Architectural covers as microclimate modifiers</p> <p>Description: In addition to their other functions, architectural covers can also be used as microclimate modifiers in order to provide optimal comfort for the users. Non-enclosed and lightweight covers will be specifically examined and illustrative examples will be presented. Structural and thermal properties will be analysed with respect to the climate-smart urban development.</p>	Vuk Milošević
11:30-12:00	Coffee break (room 38)	
12:00-13:30	<p>Advances in Managing Built Heritage for Climate-Smart Development</p> <p>Description: Built Heritage is considered an essential vehicle for sustainable development. In this context, adaptive measures that address current vulnerabilities in the built heritage will be presented, including interventions to reduce exposure and facilitate cultural heritage adaptation while preserving their authenticity.</p>	Ljiljana Jevremović, Ana Stanojević
13:30-15:00	<p>IoT and smart cities</p> <p>Description: Smart cities use IoT devices such as connected sensors, lights, and meters to collect and analyze data to predict traffic movement, adjust signal timing to ensure smooth traffic flows, and help decrease commute time.</p>	Milan Gocić, Aleksandar Đorđević
15:00-15:30	Conclusions of the day	

Thursday, 15 <sup>th</sup> June 2023		
University of Nis, Univerzitetski trg 2, Nis (room 38)		
9:30-11:00	<p>Augmented collaboration toolkit</p> <p>Description: The augmented collaboration toolkit is being developed to support trainers and teachers within higher education and LLL programs, as a support for serious games to create a shared narrative, and for the skills to work in digital environments. It has been jointly designed through the academia and Lifelong Learning programs.</p> <p>The toolkit is created using:</p> <ul style="list-style-type: none"> <li>Digital tools: Miro, GroupMap and How space.</li> <li>Collaborative skill development tools: InterVision (peer-coaching) methodology, Deep Democracy (Lewis) and Culture Mapping Tool (Erin Meyer)</li> </ul>	Milica Ćirić, Milan Gocić
11:00-13:00	<p>E-Learning modules for serious games</p> <p>Description: Due to the COVID-19 challenge, education leaders must swiftly design responses with specific contexts in mind transforming traditional learning into online using e-modules. It is needed to establish effective forms of online education that will free up institutional capacities and resources in order to redirect their focus on delivering alternative (online) learning methods for students and LLL practitioners. Online learners should be motivated to take the course, to complete the course or to come back and attempt to do better. Adding game mechanics in course designing and behavior-based solutions can be solutions to immerse learners wisely.</p>	Milica Ćirić, Milan Gocić
13:00-14:00	Buffet lunch (room 38)	
14:00-16:00	Open training on eLearning with serious games	Milica Ćirić, Milan Gocić
16:00-16:30	General discussion	
19:00	Social event	

Friday, 16 <sup>th</sup> June 2023		
<i>Faculty of Civil Engineering and Architecture, Aleksandra Medvedeva 14, Nis</i>		
9:30-11:00	<p>Urban Resilience with Nature Based Solutions - Current Eco-oriented Approaches</p> <p>Description: Nature-Based Solutions, Ecosystem-Based Adaptation, Urban Green Infrastructure and Ecosystem Services - definitions, goals, common and specific characteristics, best management practices.</p>	Ljiljana Vasilevska
11:00-12:30	<p>Urban hydrology - Nature-Based Solutions focused on urban water cycle</p> <p>Description: Global challenges to urban water cycle; Urban stormwater management solutions/approaches. Measures and elements in contemporary practices - emphasize on Low Impact Development (LID) elements installed in EPA Storm Water Management Model (SWMM); Examples.</p>	Borislava Blagojević
12:30-13:00	Coffee break	
13:00-14:30	Visits of laboratories of the Faculty of Civil Engineering and Architecture	Milan Gocić, Mladen Milanović
14:30-15:00	General discussion and closing the training	

## Agenda of 3<sup>rd</sup> Theme-based training

Tuesday, 29 <sup>th</sup> August 2023		
<i>Meeting room Alfa, RealTek- NMBU, Drøbakkveien 31, Ås</i>		
09:00-09:10	SmartWB participants registration & coffee	
09:10-09:20	Welcome, Anne Cathrine Gjærde, Dean of the Faculty of Sciences & Technology, NMBU	
09:20-09:30	Introduction to the SmartWB project, Marija Jevric, Coordinator	
09:30-09:50	Self introduction to participants: affiliation, specialities and interests	
09:50-10:00	Brief introduction and logistics info on the workshop, Harsha Ratnaweera	
10:00-10:15	Coffee break	
10:15-11:00	Project management issues, Dr Marija Jervic	
First session –Sustainable architecture, geomatics and internationalisations		
11:00-12:00	Timber as a sustainable urban building materials with a low carbon-footprint: presentation & discussion	Prof. Anders Q Nyrud
12:00-13:00	Lunch	
13:00-14:00	Visit to labs and pilot facilities	Dr Agnieszka Cuprys
14:00-15:00	Teaching activities on Geomatics at NMBU	Prof. Ivar Maalen-Johansen
15:00-16:00	<a href="#">SITRAP - Centre for Excellence in Education (SFU)</a>	Prof Elin Børrud
16:00-17:00	International Project development at NMBU	Prof Harsha Ratnaweera
19:15	Dinner hosted by NMBU: <a href="#">Brasilia restaurant, Kronprinsesse Märthas plass 1, 0160 Oslo</a>	



Wednesday, 30th August 2023		
	<i>Meet at various places as noted in links</i>	
<b>Second session – Urban design in practice: water and building management</b>		
10:00-12:30	Management of Climate Change impacts: <a href="#">Klosterenga park</a> . Buildings, storm water management and sculptures in harmony with urban living	Tbc
12:30	Lunch (own arrangements)	
14:00-18:00	Sustainable urban architecture & water management in buildings with historical conservation values- in harmony with culture, local community and urban setting	
14:00	Site 1: Voldsløkka school, <a href="#">Uelands gate 85, 0462 Oslo</a> <input type="checkbox"/> Marit R Myklestad, Landscape Architect, LARK architects <input type="checkbox"/> Øystein Johansen, Project Manager, Oslo municipality	Dr Leif D Houck, NMBU
16:00	Site 2: Faculty of Justice- Domus Juridica, University of Oslo, <a href="#">Kristian Augusts gate 19, 0164 Oslo</a>	Dr Chandani Ratnaweera, Senior Architect, University of Oslo
19:00	Dinner hosted by NMBU. Benares Restaurant, <a href="#">Tordenskiolds gate 8, 0160 Oslo</a>	

Thursday, 31 <sup>st</sup> August 2023		
	<i>Meet at DOSCON AS, Østre akers vei 19. Opposite Økern Metro</i>	
<b>Third session – Innovations in education and water management</b>		
09:00-10:00	Innovations in water quality surveillance	Dr Natalia Sivchenko, Project Manager, DOSCON
10:00-11:00	Innovative process control in water utilities	Dr Abhilash Nair, Project Manager, DOSCON
11:00-12:00	Design and planning of sewers	Hristian Naumovski, Project Manager, ROSIM
12:00-13:00	Lunch	
13:00-14:30	ChatGPT in Education: opportunities and challenges	Dr Kim A Paus, NMBU
15:00-16:30	Digital tools in education	Dr Zakhar Maletskyi, NOM

## Agenda of 4<sup>th</sup> Theme-based training

Tuesday, 12 <sup>th</sup> December 2023		
URJC, Fuenlabrada Campus		
09:00-09:30	SmartWB participants registration (room 027, “Departamental” Building)	
09:30-10:00	Welcome Presentation of the Rey Juan Carlos University and the Fuenlabrada Campus	Carmen de Pablos Heredero (WP3 Smart WB leader, URJC) Pablo Tomás Salvadores (Head of International Relations, URJC) (room 027 “Departamental Building”)
10:00-11:30	Visit to the Municipal Housing Institute of Fuenlabrada IMVF Presentation of lines of action in energy efficiency in the city. New projects. General plan of urbanism. Collaborations with the URJC	Julio Ramiro Bargaño- Municipal Housing Institute of Fuenlabrada. Organized bus from campus
11:30-12:00	Coffee break	
12:00-12:20	Class on past and current Engineering and Technical School (ETSIT) projects in Energy Efficiency in Building using WSN (wireless sensor networks) + WSN technological presentation with "Deep Insight" OMEGA project. Smart Campus Project. "Stulz" Project. "CHALLENGES" Project	Julio Ramiro Bargaño (room 3205 laboratory building 3, Fuenlabrada Campus)
12:20-12:30	Summary of the Multidisciplinary Seminar "Smart Cities URJC-IBM" held in October 2023. IX SEMINAR SMART CITIES URJC - IBM: Quantum Computing Artificial Intelligence and Data in Urban Decision Making and Energy Efficiency in New Smart Cities. Technological and legal challenges.	Julio Ramiro Bargaño (room 3205 laboratory building 3)
12:30-13:30	Visit to the Laboratories	Julio Ramiro Bargaño (room 3205 laboratory building 3)
13:30-15:00	Lunch (Cafeteria Fuenlabrada Campus)	
Tuesday, 12 <sup>th</sup> December 2023		
Fuenlabrada Campus, Cam. del Molino, 5, 28942 Fuenlabrada, Madrid		
15:00-15:30	Presentation of SmartE2 chair projects and demos related to projects such as Smart Campus (smart campus and deployment in 3 URJC campuses), preventive monitoring projects for emergency services and unique projects	Cristina Rodríguez Sánchez, Robert Novak & Marcos Delgado (room 3205 laboratory building 3)

15:30-16:15	Workshop on monitoring management and visualization techniques in DashBoards for time series ideal for monitoring systems in smart spaces	Cristina Rodríguez Sánchez, Robert Novak & Marcos Delgado (room 3205 laboratory building 3)
16:15-17:00	Workshop on the creation of Digital Twins with Software alternatives for the creation of spaces <b>intelligently</b> and their categorization	Cristina Rodríguez Sánchez, Robert Novak & Marcos Delgado (room 027 Departmental room 3205 laboratory building)
Wednesday, 13 <sup>th</sup> December 2023		
Fuenlabrada Campus, Cam. del Molino, 5, 28942 Fuenlabrada, Madrid		
9:30-10:50	What is educational gamification? Why gamify the class? How to apply gamification in the classroom	César Cáceres Taladriz (room 027)
10:50-11:10	Coffee break	
11:10-12:30	Educational Escape Room, what it is and how to apply it Lessons learnt: what to do and what not to do	César Cáceres Taladriz (room 027)
12.30-13.30	What is a podcast? Pedagogical use of podcasts in higher education	Manuel Gértrudix, Alejandro Carbonell Alcocer & Juan Romero (Computing room 2S1, Aulario Building II)
13.30-14.00	Lunch	Cafeteria Fuenlabrada Campus
14:00-15:45	Approach and Scripting <b>Recording and Editing</b> <b>Publishing</b>	Manuel Gértrudix & Alejandro Carbonell Alcocer & Juan Romero (Computing room 2S1, Aulario Building II)
15:45-16:05	Coffee break	
Thursday, 14 <sup>th</sup> December 2023		
Fuenlabrada Campus, Cam. del Molino, 5, 28942 Fuenlabrada, Madrid		
9:30-11:00	<p>Presentation of the Chair “Circular economy for waste sustainable management”. How the Council of Fuenlabrada and University Rey Juan Carlos collaborate to boost the circularity of the productive systems</p> <ul style="list-style-type: none"><li>✓ Presentation of the Chair. History, origin, and mission</li><li>✓ Contributing to knowledge generation: R&amp;D projects developed for improving waste recovery and valorization.</li><li>✓ Training activities for companies, technicians from municipalities, and other specialists</li></ul> <p>The circular economy and the Council of Fuenlabrada</p> <ul style="list-style-type: none"><li>✓ Waste management program</li></ul>	<p>Jovita Moreno, María Inmaculada Concepción Suárez, Adrián García Bruzón, Inés Bozalongo Hita, María Isabel Pariente Castilla &amp; María Linares Serrano.</p> <p>room 027 “Departamental” Building</p>

	<ul style="list-style-type: none"> <li>✓ Recycling facilities: present and future</li> <li>✓ Designing sustainable cities</li> </ul>	
11:00-11:15	Coffee break	
11:15-12:15	<p>The Chair and the skills of our students.</p> <ul style="list-style-type: none"> <li>✓ Professional training of students in the environmental department of the Council of Fuenlabrada</li> <li>✓ Final degree projects in collaboration with the Council of Fuenlabrada</li> <li>✓ Other teaching methodologies developed by the Chair's team: service-learning</li> </ul> <p>Open discussion and final remarks</p> <ul style="list-style-type: none"> <li>✓ Strengths and difficulties of this kind of projects</li> <li>✓ Is that experience transferable?</li> <li>✓ How can we increase the impact of these activities?</li> <li>✓ Questions of the assistants, debate.</li> </ul>	<p>Jovita Moreno, María Inmaculada Concepción Suárez, Adrián García Bruzón, Inés Bozalongo Hita, María Isabel Pariente Castilla &amp; María Linares Serrano.</p> <p>room 027 "Departamental" Building</p>
12:15-14:15	Visit to the packaging recycling plant (Fuenlabrada)	Transport by organized bus from Campus
20:30-22:30	Social event "Restaurant Taste Gallery"	Plaza San Miguel 8, 28005 Madrid (metro stop: Sol or Opera)

## Agenda of 5<sup>th</sup> Theme-based training

Tuesday, 19 <sup>th</sup> March 2024		
TH OWL, An der Wilhelmshoehe 44, Hoexter		
9:30-10:00	SmartWB participants registration (R 6.406)	
First session – Opening ceremony and project presentation (R 6.406)		
10:00 – 11:00	Welcome words from the host - Faculty of Environmental Engineering	Yvonne Knepper-Bartel
	Presentation of the OWL University of Applied Sciences and Arts and the Sustainable Campus in Hoexter	Martin Oldenburg
11:00 – 11:30	Coffee break (room 6.406)	
11:30 – 12:00	Visit of the OWL Campus Hoexter	Martin Oldenburg Anna Mues
Lunch		
12:00 - 13:00	Lunch	
Second session		
13:00- 14:00	Guided tours in the laboratories	Martin Oldenburg Claudia Steinert Anna Mues
14:00- 14:45	Introduction to the lab exercises	Martin Oldenburg Heike Stromberg Anna Mues
14:45 - 15:00	Coffee break (room 6.406)	
15:00 - 16:00	Digital learning platform (R 5.302) Example for virtual tours	Martin Oldenburg Anna Mues
16:00 - 16:45	Examples for CO <sub>2</sub> Balancing as a tool for sustainability (R 5.302)	Hendrik Laue
16:45-17:00	Conclusions of the day	

Wednesday, 20 <sup>th</sup> March 2024		
Faculty of Environmental Engineering, TH OWL, An der Wilhelmshoehe 44, Hoexter		
Third session – Serious play		
9:00-10:45	Lego serious play (LSP) (room 6.406) - Introduction (method) - Warm up - Skill Building - Introduction to the method	Tanja Osterhagen Yvonne Fischer
10:45-11:15	Coffee break (room 6.406)	
11:15 – 13:00	Lego serious play (LSP) (room 6.406) - Single model - Group - Discussion of the result	Tanja Osterhagen Yvonne Fischer
13:00-14:00	Lunch	

Fourth session – Digital learning platform		
14:00 – 15:00	Learning platform (room 5.302) - Learning theories - Introduction Learning platform - Examples	Tanja Osterhagen Yvonne Fischer
15:00 – 15:30	Coffee break (room 6.406)	
15:30 - 17:15	Group work - Build up of an on Learning course - Discussion of the result	Tanja Osterhagen Yvonne Fischr
17:15 - 17:45	Waterplus owlnetwork project	Jörg Felmeden
From 19:00	Social event: Dinner at Lion (thai & indian)	

Thursday, 21 <sup>st</sup> March 2024		
Faculty of Environmental Engineering, TH OWL, An der Wilhelmshoehe 44, Hoexter		
Fifth session – Excursion day		
07:30	Departure from Hoexter	

10:00	Bike rental station at central station Essen	
10:30	Introduction to urban transformation processes Conversion of an industrial area to climate-friendly urban areas Site visit Discussion about needs and activities of administrations	Ulrike Raasch Mario Sommerhaeuser
13:00 – 14:00	Lunch	
14:00	Introduction to urban transformation processes Conversion of an industrial area to climate-friendly urban areas Site visit Discussion about needs and activities of administrations	Ulrike Raasch Mario Sommerhaeuser
16:00	Departure to Hoexter	
19:00	Arrival in Hoexter	
19:00 – 19:15	Conclusion of the workshop (R 6.406)	

## Agenda of 6<sup>th</sup> Theme-based training

	<b>Wednesday, 3<sup>rd</sup> April 2024</b>	
	BOKU University; Oskar-Simony-House, Room SIMH-DG/01 (SR19/2), Top floor Peter-Jordan-Straße 65, 1180 Vienna	
09:30 - 10:00	SmartWB participants registration + coffee & snacks	
10:00 - 10:15	Welcome speech: Presentation of the University of Natural Resources and Life Sciences, Vienna	Doris Damyanovic, BOKU University Christiane Brandenburg, BOKU University
10:15 - 12:30	Presentation of the 'LandscapeLab' – an innovative landscape visualization tool developed at BOKU University	Thomas Schauppenlehner, BOKU University Karl Bittner, BOKU University
12:30 - 13:30	Lunch Break	
13:30 - 14:00	Public transport to the Hydraulic Laboratory of BOKU University (Am Brigittenauer Sporn 3, 1200 Vienna)	
14:00 - 14:20	Background information about the historical bridge + weir and lock system next to the Hydraulic Laboratory	Michael Tritthart, BOKU University
14:20 - 14:45	Coffee Break	
14:45 - 16:30	Presentations of current BOKU University research projects incl. discussions	Arne Arnberger, BOKU University Christiane Brandenburg, BOKU University Beatrix Schiesser, BOKU University
16:30 - 17:00	Coffee Break	
17:00 - 18:30	Guided tour through the Hydraulic Laboratory	Michael Tritthart, Julian Binder, BOKU University
18:30 - 19:00	Public transport to a traditional Austrian restaurant nearby	
19:00	Social event at the traditional Austrian restaurant 'Müllers Heuriger & Weingut', Cobenzlgasse 38, 1190 Vienna	



Thursday, 4 <sup>th</sup> April 2024		
	<i>Tram 'Schottentor', 1010 Vienna</i>	
09:30	Meeting point at tram station 'Schottentor', 1010 Vienna; Bring weather-proof clothes, good shoes and water for the day. <b>Please, also bring your own lunch for this day</b> – there is a supermarket, bakery, etc. next to the meeting point.	
09:30 - 10:15	Public transport to recreational area 'Wienerberg'	
10:15 - 12:30	Guided tour through the recreational area 'Wienerberg'	Uwe Skacel, City of Vienna – Climate, Forestry and Agriculture Department
12:30 - 13:30	Lunch Break ( <b>Bring your own food!</b> )	
13:30 - 17:00	Presentation + guided tour through the housing project 'Biotope City Wienerberg'	Florian Reinwald, BOKU University
17:00	End of day 2 - Participants are guided to the next public transport station	

Friday, 5 <sup>th</sup> April 2024		
	BOKU University; Oskar-Simony-House, Room SIMH-DG/01 (SR19/2), Top floor; Peter-Jordan-Straße 65, 1180 Vienna	
09:30 - 10:00	Starting the day with coffee & snacks	
10:00 - 12:30	Training in didactics: <ul style="list-style-type: none"> <li>Applied Teaching and Learning</li> <li>Didactics in practice</li> </ul>	Alexandra Strauss-Sieberth, BOKU University Verena Vlajo, BOKU University Andreas Zitek, BOKU University
12:30 - 13:30	Lunch Break	
13:30 - 13:45	Group photo at the park nearby	
13:45 - 15:15	Training in didactics: <ul style="list-style-type: none"> <li>Applied Teaching and Learning</li> <li>Didactics in practice</li> </ul>	Alexandra Strauss-Sieberth, BOKU University Verena Vlajo, BOKU University Andreas Zitek, BOKU University
15:15 - 15:30	Coffee Break	
15:30 - 17:00	Training in didactics: <ul style="list-style-type: none"> <li>Applied Teaching and Learning</li> <li>Didactics in practice</li> </ul>	Alexandra Strauss-Sieberth, BOKU University Verena Vlajo, BOKU University Andreas Zitek, BOKU University
17:00 - 17:15	Summary + conclusion of the training	Christiane Brandenburg, BOKU University
17:15	Closing + farewell with coffee & snacks	

## Annex II

### List of participants on 1<sup>st</sup> Theme-based training

No.	Name and surname	Institution / Acronym
1	Marija Jevrić	UoM
2	Olga Čalasan	UoM
3	Emina Hadžić	UNSA
4	Amir Hajdar	UNSA
5	Hata Milisic	UNSA
6	Vesna Poslončec-Petrić	UNIZG
7	Željko Bačić	UNIZG
8	Iva Cibilić	UNIZG
9	Mili Selimović	UNMO
10	Merima Salčin	UNMO
11	Paola Iljazi	POLIS U.
12	Sadmira Malaj	POLIS U.
13	Enkela Poro	CO-PLAN
14	Agim Kasaj	UET
15	Jani Petro	UET
16	Nikola Petrović	OZON
17	Aida Husetić	UNBI
18	Aladin Crnkić	UNBI
19	Arwa Tarek	UNIZG – BENHA UNIVERSITY, EGYPT
20	Abdelhamid Elharty	UNIZG – BENHA UNIVERSITY, EGYPT

## List of participants on 2<sup>nd</sup> Theme-based training

No.	Name	Institution acronym
1	Milena Ostojić	UoM
2	Olga Čalasan	UoM
3	Emina Hadžić	UNSA
4	Ammar Šarić	UNSA
5	Mili Selimotić	UNMO
6	Marko Čećez	UNMO
7	Aladin Crnkić	UNBI
8	Amel Totoman	UNBI
9	Otjela Lubonja	UET
10	Gazmir Hallaci	UET
11	Eduart Blloshmi	UPT
12	Bledar Sina	UPT
13	Arli Llabani	UPT
14	Sadmira Malaj	U_POLIS
15	Armela Reka	U_POLIS
16	Milan Gocić	UNI
17	Ljiljana Jevremović	UNI
18	Vuk Milošević	UNI
19	Aleksandar Đorđević	UNI
20	Milica Ćirić	UNI
21	Ana Stanojević	UNI
22	Mladen Milanović	UNI
23	Ljiljana Vasilevska	UNI
24	Borislava Blagojević	UNI

**List of participants on 3<sup>rd</sup> Theme-based training**

No.	Name and surname	Institution / Acronym
1	Milena Ostojić	UoM
2	Olga Čalasan	UoM
3	Amir Hajdar	UNSA
4	Emina Hadžić	UNSA
5	Merima Salčin	UNMO
6	Emina Junuz	UNMO
7	Edis Softić	UNBI
8	Emir Bajramović	UNBI
9	Laert Osmeni	UET
10	Genti Qirjazi	UPT
11	Freskida Abazaj	UPT
12	Doriana Musaj	U_Polis
13	Llazar Kumaraku	U_Polis
14	Imeldi Sokoli	Co-PLAN

## List of participants on 4<sup>th</sup> Theme-based training

No.	Name	Institution acronym
1	Marina Rakočević	UoM
2	Marija Jevrić	UoM
3	Ivana Ćipranić	UoM
4	Milan Gocić	UNI
5	Vuk Milošević	UNI
6	Karin Weber	BOKU
7	Rasha Hassan	NMBU
8	Željko Bačić	UNIZG
9	Vesna Poslončec-Petrić	UNIZG
10	Carmen De-Pablos-Heredero	URJC
11	Miguel Blanco-Callejo	URJC
12	Martin Oldenburg	THOWL
13	Emina Hadžić	UNSA
14	Ammar Šarić	UNSA
15	Merima Šahinagić-Isović	UNMO
16	Marko Ćećez	UNMO
17	Aladin Crnkić	UNBI
18	Husein Rošić	UNBI
19	Ketrina Cabiri	UET
20	Agim Kasaj	UET
21	Reni Dreko	UET
22	Otjela Lubonja	UET
23	Bledar Sina	UPT
24	Arli Llabani	UPT

25	Flora Krasniqi	U_POLIS
26	Elona Karafili	U_POLIS
27	Aurel Plasa	U_POLIS
28	Ogerta Gjknuri	Co-PLAN
29	Nikola Perović	OZON
30	Nataša Stanišić	ACE BH

### List of participants on 5<sup>th</sup> Theme-based training

No.	Name and surname	Institution Acronym
1	Milena Ostojić	UoM
2	Milena Ostojić	UoM
3	Amir Hajdar	UNSA
4	Merima Salčin	UNMO
5	Emina Junuz	UNMO
6	Edis Softić	UNBI
7	Emir Bajramović	UNBI
8	Laert Osmeni	UET
9	Genti Qirjazi	UPT
10	Freskida Abazaj	UPT
11	Doriana Musaj	U_POLIS
12	Llazar Kumaraku	U_POLIS
13	Imeldi Sokoli	Co-PLAN

### List of participants on 6<sup>th</sup> Theme-based training

No.	Name	Institution
1	Ammar Šarić	UNSA
2	Haris Kalajdžisalihović	UNSA
3	Dževad Imamović	UNSA
4	Nataša K. Vuković	UoM
5	Nina Serdar	UoM
6	Aladin Crnkić	UNBI
7	Husein Rošić	UNBI
8	Redžo Hasanagić	UNBI
9	Arli Llabani	UPT
10	Eduart Blloshmi	UPT
11	Bledar Sina	UPT
12	Elvis Ndreka	Co-PLAN
13	Djani Rahimić	UNMO
14	Merima Ćupina	UNMO
15	Sadmira Malaj	POLIS
16	Emi Hoxholli	POLIS
17	Silvana Sukaj	UET
18	Hasimin Keçi	UET