

Twinning excellence on organic soil amendments effect on nutrient and contaminant dynamics in the subsurface

TwinSubDyn

Deliverable D2.2 Report on organizing workshops

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Written by TwinSubDyn project consortium

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1	UNSPMF	University of Novi Sad Faculty of Sciences	CO
2	UNIVIE	University of Vienna	BEN
3	FZJ	Forschungszentrum Jülich	BEN
4	MLU	Martin-Luther-Universität Halle-Wittenberg	BEN
5	CSIC	Spanish National Research Council	BEN

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CO	Confidential, only for members of the consortium (including the Commission Services)	
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3. Workshop on SOM and Nutrient Characterization and Dynamics in Relation to OSA Application – WS1

The first workshop titled "**SOM and Nutrient Characterization and Dynamics in Relation to OSA Application**," took place from September 26th to 29th, 2023, as a hybrid event hosted at UNSPMF and on the Teams platform. Speakers from FSJ, MLU, CSIC, and UNSPMF delivered a total of 20 lectures.

Different topics were presented each day:

- **First Day:** The first day included topics on general aspects of organic soil amendments, with six focused presentations from speakers from UNSPMF and EU partnering institutions.
- **Second Day:** The second day was dedicated to the dynamics and structure of soil organic matter, featuring five lectures from consortium speakers.
- **Third Day:** The third day included presentations on element and nutrient dynamics in soil, with six speakers from the EU and UNSPMF.
- **Fourth Day:** The fourth day focused on experimental examples of the impact of organic soil amendments on soil assessment, including a Lysimeter demo experiment and one presentation.

Each presentation was followed by a short discussion among the audience and presenters, followed by a deeper discussion at the end of each day and topic. These interactions resulted in the strengthened capacity of all participating institutions and researchers.

The agenda, timeframe, and all necessary information were made available before the workshop's realization and can be accessed on the website under the subsection Workshops, <https://twinsubdyn.pmf.uns.ac.rs/workshops.html#workshop1>. All materials presented during the workshop and video recordings are available on the Knowledge HUB at <https://knowledge-hub.pmf.uns.ac.rs/course/view.php?id=8>.

An attendance list, as well as an overview of the participants indicating their nationality, affiliation, and academic status is presented in ANNEX I of this report.



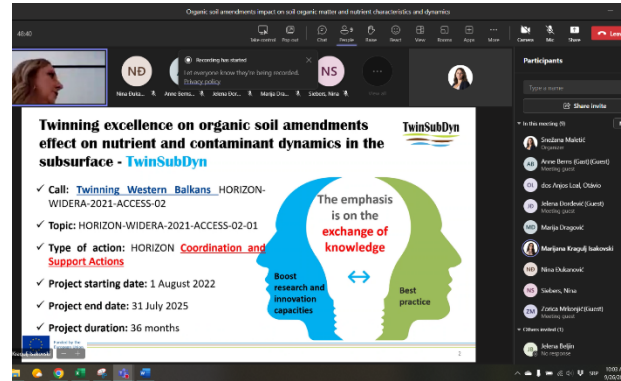
Snežana MALETIĆ



Heike KNICKER



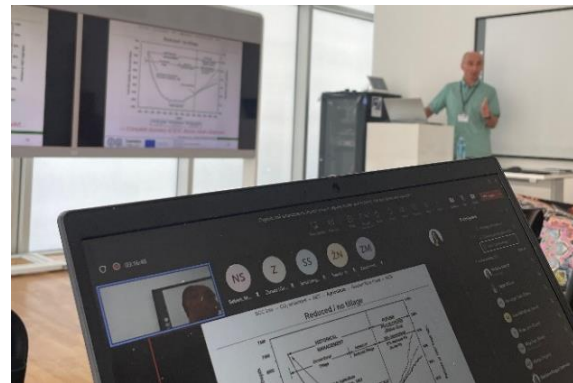
Attendees onsite



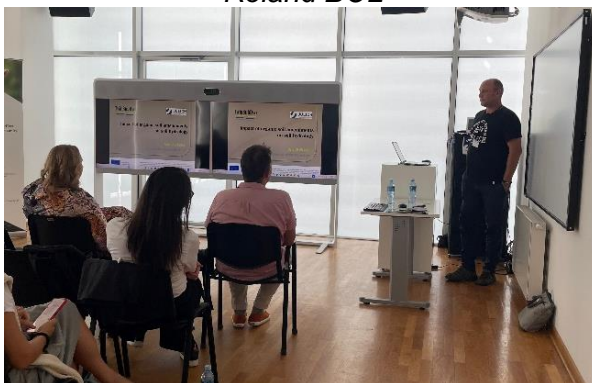
Attendees online



Roland BOL



Bruno GLASER



Lutz WEIHERMULLER



Marijana KRAGULJ ISAKOVSKI



Arthur GROSS



José A. GONZÁLES-PÉREZ



Tamara APOSTOLOVIĆ



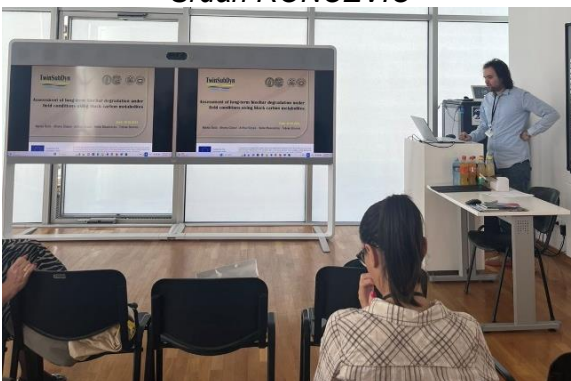
Jelena BELJIN



Srđan RONČEVIĆ



Nina SIEBERS



Marko ŠOLIĆ



Lysimeter experiment



Lysimeter experiment



Lysimeter experiment

Figure 1: Workshop Presenters

Audience analysis

The structural analysis of the audience based on position in the academic community, along with corresponding onsite and online attendance lists for workshops organized at UNSPMF from September 26th to September 29th, are presented in Figure 2 and Table 1.

For the first workshop conducted during this period, the total number of participants was 76 onsite and an additional 100 online participants (as shown in Figure 2, with online attendance tracked via MS Teams). The number of onsite participants per day ranged from 17 to 23, depending on the day. The majority of participants hailed from various faculties of the University of Novi Sad, Serbia (UNSPMF, UNSFTN, UNSPF, IFVCNS), with one participant from the Institute for Public Health of Montenegro. Additionally, attendees from institutions across Europe (highlighted in Figure 2), primarily colleagues from partnering institutions, as well as participants from Middle East Technical University in Turkey, were also present.

The audience composition revealed that the highest proportion of attendees were professors (46%) and researchers (30%), with a slightly smaller share attributed to PhD students (24%). Overall, more than 170 participants in total from across Europe took part in the workshop, facilitating the broader dissemination of the TwinSubDyn project within the academic community.

Table 1: Audience analysis for workshops held at UNSPMF

Date	No of participants	Position (only onsite)	Country	Affiliated
26 September 2023	19 (+29 online)	PhD: 5 Researchers: 5 Proff: 9	Serbia, Montenegro Germany Turkey Spain	University of Novi Sad Institute for Public Health of Montenegro Institute of Field and Vegetable Crops, Novi Sad Spanish National Research Council Martin-Luther-Universität Halle-Wittenberg Forschungszentrum Jülich Middle East Technical University, Turkey
27 September 2023	23 (+29 online)	PhD: 5 Researchers: 6 Proff: 12	Serbia, Montenegro Germany Turkey Spain	University of Novi Sad, Serbia Institute for Public Health of Montenegro Institute of Field and Vegetable Crops, Novi Sad, Serbia Spanish National Research Council, Spain Martin-Luther-Universität Halle-Wittenberg, Germany Forschungszentrum Jülich, Germany Middle East Technical University, Turkey
28 September 2023	17 (+29 online)	PhD: 4 Researchers: 5 Proff: 8	Serbia, Montenegro Germany Turkey Spain	University of Novi Sad, Serbia Institute for Public Health of Montenegro Institute of Field and Vegetable Crops, Novi Sad, Serbia Spanish National Research Council, Spain Martin-Luther-Universität Halle-Wittenberg, Germany Forschungszentrum Jülich, Germany Middle East Technical University, Turkey
29 September 2023	17 (+13 online)	PhD: 4 Researchers: 7 Proff: 6	Serbia, Montenegro Germany Turkey Spain	University of Novi Sad, Serbia Institute for Public Health of Montenegro Institute of Field and Vegetable Crops, Novi Sad, Serbia Spanish National Research Council, Spain Martin-Luther-Universität Halle-Wittenberg, Germany Forschungszentrum Jülich, Germany Middle East Technical University, Turkey

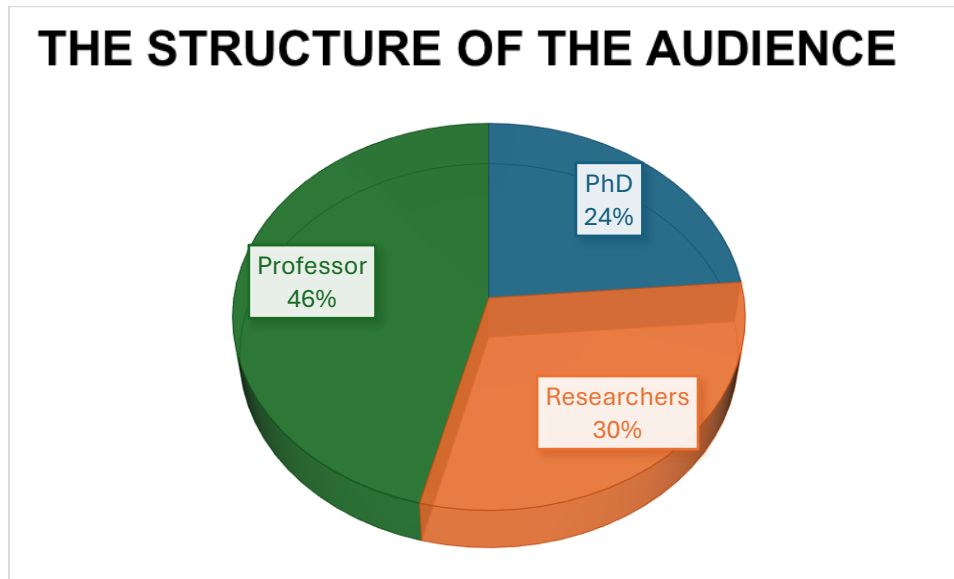


Figure 2: Composition of the audience for the first workshop held at UNSPMF

4. Workshop on Contamination Control in Relation to the Application of Organic Soil Amendments in Soil – WS2

The second workshop, titled "Workshop on Contamination Control in Relation to the Application of Organic Soil Amendments in Soil," was organized in collaboration with UNIVIE and held from November 28th to December 1st, 2023, at UNSPMF. An announcement with the agenda for Workshop 2 was available on the <https://twinsubdyn.pmf.uns.ac.rs/workshops.html#workshop2>, under the subsection Workshop 2. The workshop featured more than 17 presentations which belong to a different topic:

- **First Day:** The focus was on the general aspects of contaminants related to organic soil amendments, with five presentations from UNIVIE and UNSPMF.
- **Second Day:** This day covered the fate of organic contaminants in the organic soil amendment-soil system, including four presentations and a session on ongoing research activities where younger researchers from UNSPMF presented findings from their stays at partnering institutions.
- **Third Day:** Presentations addressed the knowns and unknowns of contaminant dynamics affected by organic soil amendments, featuring two presentations and two breakout

sessions. Participants were divided into five small groups to discuss microplastics and PFAS sources in the Western Balkans, culminating in reports at the end of the sessions.

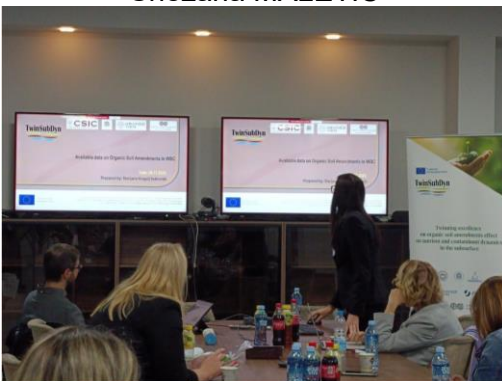
- **Fourth Day:** The final day focused on planning a joint path forward, with six short presentations on pharmaceutical and pesticide usage in the Western Balkans, followed by a deep discussion on the topic. Two presenters from Bosnia and Herzegovina and Montenegro provided information on the status of contaminants in organic soil amendments in their respective countries.



Snežana MALETIĆ



Gabriel SIGMUND



Marijana KRAGULJ ISAKOVSKI



Michael ZUMSTEIN (online)



Aleksandra TUBIĆ



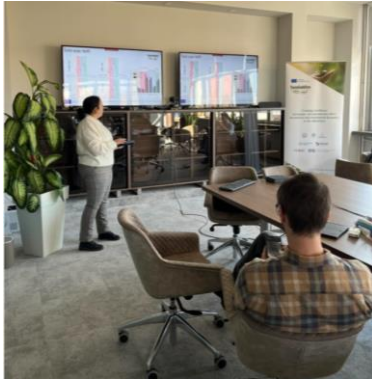
Thorsten HÜFFER



Irina JEVROSIMOV



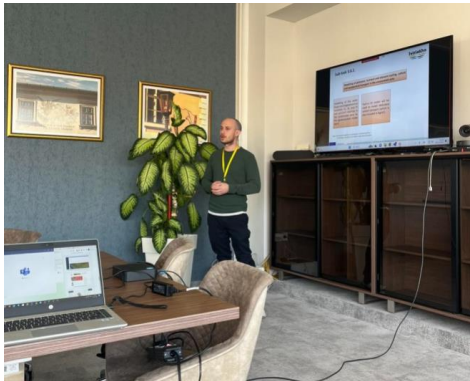
Sanja VASILJEVIĆ



Tamara APOSTOLOVIĆ



Marko ŠOLIĆ



Slaven TENODI



Thilo HOFMANN (online)



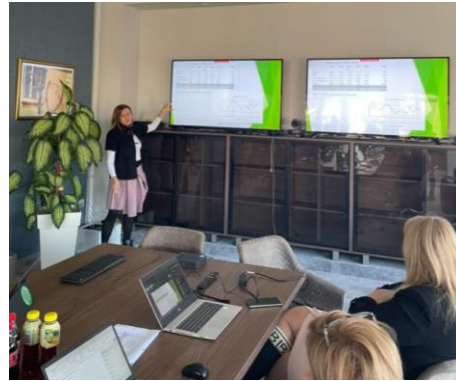
Đurđa KERKEZ



Anita LEOVAC



Nataša ĐURIŠIĆ



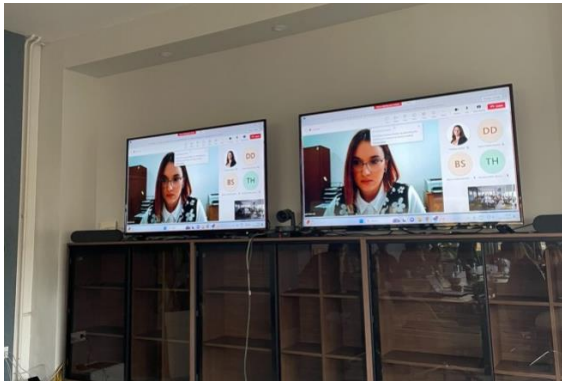
Tijana ZEREMSKI



Jelena BELJIN



Mađa KOLAR, Montenegro



Dijana DRAGIĆ, BiH



Marija LJEŠEVIĆ, UB



Branka LONČARIĆ, UB



discussion during breakout session



discussion during breakout session



discussion during breakout session

Figure 3: Speakers at Workshop 2 and discussion during breakout session

Audience analysis

Figure 4 and Table 2 offer a structural analysis of the audience's positions within the academic community, along with the corresponding onsite and online attendance lists for the second workshop at UNSPMF.

The second workshop hosted a total of 79 onsite participants and 77 online participants, as detailed in Figure 4, with online attendance tracked via MS Teams. Onsite attendance averaged around 20 participants per day.

The audience composition revealed that most attendees were researchers and professors, comprising 49% and 43% of the audience, respectively, with PhD students making up 8%. A total of over 170 participants from Europe and the Western Balkans were recorded. Most attendees were from the Serbia; University of Novi Sad, Serbia (UNSPMF, TFUNS, IFVCNS), the University of Belgrade, and EDUCONS University. Additionally, there were online participants from various European institutions, primarily colleagues from partnering organizations and institutions within the Western Balkans (BiH, Montenegro, North Macedonia).

Two presenters from the Western Balkans (Bosnia and Herzegovina, and Montenegro) provided insights into the status of contaminants in their countries, while an online attendee joined from Macedonia. Participants from the Western Balkans engaged in in-depth discussions about the availability of data on pharmaceuticals and microplastics in the environment.

Table 2: Audience overview at the workshop

Date	No of participants	Position (only onsite)	Country	Affiliated
28 November 2023	18 (+17 online)	PhD: 5 Researchers: 5 Prof: 9	Serbia Nort Macedonia Montenegro Slovenia BiH Spain Austria Germany	University of Novi Sad, Serbia Institute of Field and Vegetable Crops, Novi Sad, Serbia Institute for Chemistry Technology Metallurgy, University of Belgrade, Serbia EDUCONS University, Serbia University ST Kliment Ohridski, N. Macedonia, Faculty of Technology, Banja Luka, BiH PU Water Supply and Sewerage, Podgorica, Montenegro Biotechnical Faculty, Slovenia Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria, INIA-CSIC, Spain University of Vienna Forschungszentrum Jülich, Germany
29 November 2023	30 (+21 online)	PhD: 5 Researchers: 6 Proff: 12	Serbia N.Macedonia BiH Spain Austria	University of Novi Sad, Serbia Institute of Field and Vegetable Crops, Novi Sad, Serbia Institute for Chemistry Technology Metallurgy, University of Belgrade, Serbia, Serbia EDUCONS University, Sebia University ST Kliment Ohridski, N. Macedonia Faculty of Technology, Banja Luka, BiH Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria, INIA-CSIC, Spain University of Vienna, Austria
30 November 2023	23 (+20 online)	PhD: 4 Researchers: 5 Proff: 8	Serbia, BiH Germany Austria	University of Novi Sad, Serbia Institute of Field and Vegetable Crops, Novi Sad, Serbia Institute for Chemistry Technology Metallurgy, University of Belgrade, Serbia, Serbia EDUCONS University, Sebia Faculty of Technology, Banja Luka, BiH Forschungszentrum Jülich, Germany University of Vienna, Austria
1 December 2023	6 (+21 online)	PhD: 4 Researchers: 7	Serbia, BiH	University of Novi Sad, Serbia Institute of Field and Vegetable Crops, Novi Sad, Serbia

		Prof: 6	N.Macedonia Austria	EDUCONS University, Sebia Faculty ofTechnology, Banja Luka, BiH University ST Kliment Ohridski, N. Macedonia University of Vienna, Austria
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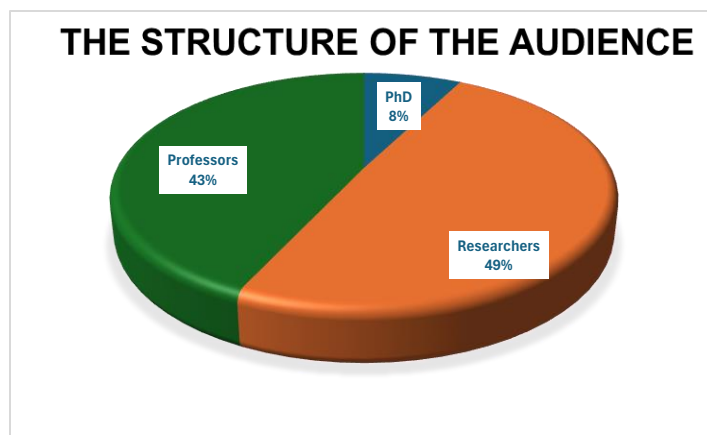


Figure 4: The structure of the audience for the second workshop

5. Workshops on Overcoming challenges in the application of organic soil additives - legislative framework (WS3) and synergy of science and economy (WP4)

To better accommodate stakeholders from the policy and business sectors, these events are organized in two parts:

1. Onsite workshops
2. Follow-up meetings with representatives from both sectors.

Onsite workshops

Two workshops on "Overcoming Challenges in the Application of Organic Soil Additives" were held in March at the Sheraton Hotel in Novi Sad. The third workshop, focused on the legislative framework, took place on March 5th, while the fourth workshop, centered on the synergy of science

and economy, was held on March 6th. Though consecutive, each workshop targeted a different audience. The third workshop was aimed at policymakers and decision-makers from the city, provincial, and governmental administrations. In contrast, the fourth workshop was primarily for stakeholders from the business sector, emphasizing their cooperation with the scientific community. Details and agendas for these workshops can be found in ANNEX III on the project website under the subsection Workshop 3 and Workshop 4 (<https://twinsubdyn.pmf.uns.ac.rs/>).

The third workshop included presentations on "Soil Management in the Frame of the Green Agenda for the Western Balkans" and "Soil Amendments as a Source of Soil Contamination," with representatives from the Serbian Environmental Protection Agency (SEPA) and the Ministry of Environmental Protection of the Republic of Serbia discussing the current state of soil and the Green Agenda.

The fourth workshop addressed the "Challenges of Applying Organic Soil Additives," where professors and scientists from the University of Novi Sad presented on soil status in the Western Balkans and the application of organic soil additives (OSA). The second part of this workshop featured examples of good practices, including presentations by the head of Landfill Subotica as producer of compost from sewage sludge and agricultural households, sharing their experiences with OSA application. The speakers for both workshops are shown in Figure 5.



Snežana MALETIĆ, UNSPMF



Srđan RONČEVIĆ, UNSPMF



Dragana VIDOJEVIĆ, SEPA



Sonja ROGLIĆ, Ministry of Environmental Protection of the Republic of Serbia



Ivan ĐURIČKOVIĆ, Ministry of Environmental Protection of the Republic of Serbia



Snežana KUZMANOVIĆ, Ministry of Environmental Protection of the Republic of Serbia



Stanko MILIĆ, Institut of Field and Vegetable Crops, Institute of National Importance for R. Serbia, Novi Sad



Miodrag VIŠKOVIĆ, University of Novi Sad, Faculty of Technical Sciences, representative of Biogas Society Serbia



Gligor GELLERT, Director of Regional
landfield Subotica



Aleksandra TUBIĆ, UNSPMF



Participants in Workshop 3



Participants in Workshop 4

Figure 5: Presenters and participants in WS3 and WS4

Each section of both workshops was followed by a roundtable discussion (Figure 6), where the main conclusions were drawn. These conclusions emphasized several key points:

- The discussions on March 5th and 6th underscored the importance of sustainable soil management in the Western Balkans, highlighting the critical role of organic soil additives and the need for regulatory clarity.
- Key conclusions included the endorsement of the Green Agenda, the formation of the SWG group, and initiatives like a standardized soil classification system and a digital soil map.
- Concerns about pollutants in organic fertilizers and the contradictory regulations regarding the use of sewage sludge in agriculture were highlighted, calling for policy coherence.
- The sessions also addressed the decline in soil organic carbon in Vojvodina, regulatory challenges in the application of anaerobic digestate, and the potential of composting sewage sludge.

- Practical efforts by agricultural households to improve soil organic matter were showcased, stressing the need for synergy between science and the economy.
- Collaboration among stakeholders and policymakers is essential to tackle these challenges and ensure the long-term fertility and health of soils in the region.



Figure 6: Roundtable discussion at workshops

Audience analysis

The workshop on challenges in the legislative framework attracted more than 20 participants from various policymaking and decision-making sectors, including SEPA, the Ministry, City Administration for Environmental Protection, and the Provincial Secretariat for Urban Planning and Environmental Protection.

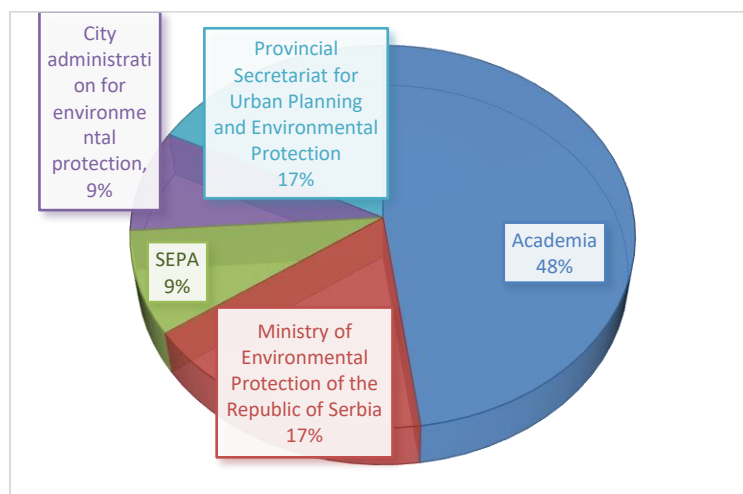


Figure 7: Structural Analysis of Stakeholder Types in the Legislative Framework

The distribution of stakeholders between academia (48%) and policymakers (52%) was relatively balanced (Figure 7). This distribution facilitated effective knowledge transfer from academia to policymakers, aiming to enhance the sustainable agriculture sector and the application of organic soil additives (OSA).

The structural analysis of the workshop audience focused on the synergy between science and business (Figure 8), drawing an equal number of participants (21 in total). The stakeholders included scientists and professors from the University of Novi Sad, alongside representatives from the Chamber of Commerce of Serbia, the Regional Chamber of Commerce Novi Sad in Serbia, the Subotica Landfill as an OSA producer, the Serbian Association of Young Farmers, and agricultural households.

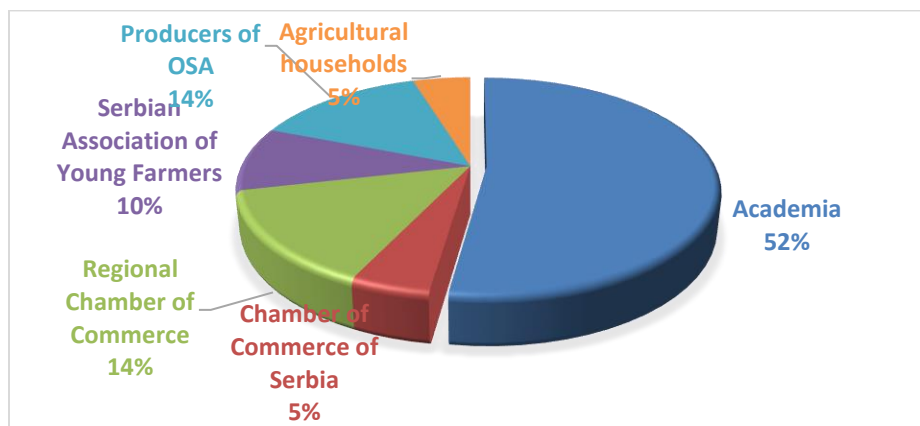


Figure 8: Structural Analysis of the Audience in the Workshop on Synergy Between Science and Economy

Similarly, the distribution was nearly equal, with a slightly higher share of scientists and professors (52%) compared to stakeholders from the economy and business sector (48%). This balance facilitated efficient knowledge transfer between both sides.

Follow up meetings

Five follow-up meetings were organized after the previous workshops. These meetings included a variety of stakeholders from decision-makers to the business sector, such as the Ministry of Environmental Protection of the Republic of Serbia, the Provincial Secretariat for Urban Planning and Environmental Protection, the City Administration for Environmental Protection, the Biogas

Association, and Subotica Landfill as an OSA producer. The text below presents a brief summary of all the meetings.

The follow-up on the Legislative Framework Workshop:

The first follow-up meeting with representatives of Ministry of Environmental Protection of the Republic of Serbia on April 26, 2024 at the Ministry of Environmental Protection. The host of the meeting was Assistant Minister Tatjana Kaluđerović, and employees from the waste and wastewater management sector attended. Snežana Maletić presented the project, as well as the conclusions from the workshop "Unlock the OSA application - legal challenges" about challenges in the application of organic soil amendments. The legal problem of the use of sewage sludge in agriculture was considered - the Regulation On The Manner And Procedure Of Sludge Management From Municipal Wastewater Treatment Plants ("Official Gazette of RS", No. 103/2023) in Article 3 defines: "The provisions of this regulation do not apply is on agricultural land that is used for agricultural production and which, according to the type of land and the way of use, is registered as such in the real estate cadastre." It was explained that the Ministry of Agriculture, Forestry and Water Management has prohibited the use of sewage sludge in agriculture. It is necessary to contact the representatives of the Ministry in order to discuss the possibility of changing the legislation. The representatives of the ministry were interested in the results of the research conducted within the project. The Land Administration is implementing a project that analyzes land from the aspect of sludge use.



Figure 9: Meeting at the Ministry of Environmental Protection (Republic of Serbia)

A very important act for the application of sludge in agriculture is the "end of waste" directive. Operators of wastewater treatment plants should submit a request for the sludge to cease its waste status. It was agreed to establish more direct cooperation between the project team and officials of the Ministry of Environmental Protection during the drafting of legal regulations regulating the application of organic additives in the soil.

The second meeting held on 14th May hosted at the Government of Vojvodina brought together key decision-makers, including Provincial Secretary for Urban Planning and Environmental Protection Dragan Đurica, and project team members Snežana Maletić and Marijana Kragulj Isakovski. The main focus was on addressing challenges related to organic soil additives (OSA) and exploring ways to align scientific insights with economic strategies. Snežana Maletić presented the TwinSubDyn project, highlighting its relevance to OSA and potential synergies.

Dragan Đurica emphasized the environmental benefits of OSA, particularly in reducing greenhouse gas emissions from agricultural practices in Vojvodina. He called for collaboration to study the correlation between OSA use and greenhouse gas emissions. The discussion highlighted the need for deeper research on the impact of agricultural practices on soil health and greenhouse gas emissions, stressing the importance of interdisciplinary collaboration.



Figure 10: Meeting at the Government of Vojvodina

The meeting concluded with a shared commitment to collaborative efforts aimed at overcoming challenges associated with OSA application and reducing greenhouse gas emissions in Vojvodina's agricultural sector. Participants expressed optimism about leveraging the synergy

between science and economy and fostering cooperation among stakeholders to promote sustainable agricultural practices tailored to the region's needs.

The third meeting in the City Administration for Environmental Protection was held on June 19th. Marijana Kragulj Isakovski met with Jelena Moravski, a representative of the city administration for environmental protection, to discuss the TwinSubDyn project and its main results. During the meeting, Jelena Moravski presented the GIS Novi Sad application (zelenilo.com), which maps and analyzes all green surfaces in the city. The city administration approved a project proposal (PI, Marijana Kragulj Isakovski) focused on utilizing green waste for a green economy, aiming to produce biochar from green biomass in Novi Sad with comprehensive characterization and evaluation of potential applications. It was concluded that joint efforts in environmental care should be prioritized to enhance living standards and wellbeing for all citizens.

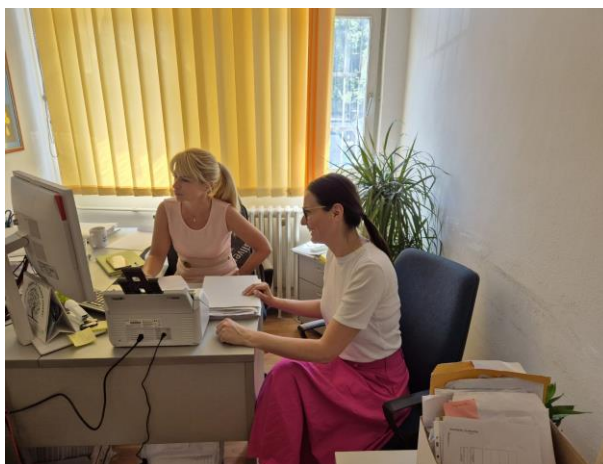


Figure 11: Photos of the meeting in the City Administration for Environmental Protection

The follow-up on the workshop „The potential to commercialize OSA application“.

The fourth meeting with the representatives of the Serbian Biogas Association Goran Knežević, President of the Association, and Lidija Zelić, Managing Director, was held on May 9, 2024, at the UNSPMF. Participants of the meeting from UNSPMF were Snežana Maletić, Srđan Rončević, Marijana Kragulj Isakovski and Jasna Atanasijević.

The Serbian Biogas Association, established in March 2012, aims to promote biogas production and use as renewable energy. It has over 50 members, mainly biogas plant owners, and collaborates with the German and European Biogas Associations on joint projects and studies. At

a recent workshop, Snežana Maletić introduced the TwinSubDyn project, discussing the commercial potential of organic soil amendments (OSA) and the challenges involved. During discussions, the complementary use of biogas digestate for OSA production was proposed. The Association, known for educational events, suggested closer collaboration with UNSPMF, including joint projects and seminars to boost OSA awareness and adoption in agriculture and energy sectors. During discussions, the Association representatives outlined the landscape of biogas production from agricultural residues, emphasizing the potential for constructing biopower plants and the availability of raw materials. Recognizing overlapping interests between biogas producers and OSA manufacturers regarding raw materials, the idea of a complementary approach emerged, leveraging digestate from biogas production for OSA production.

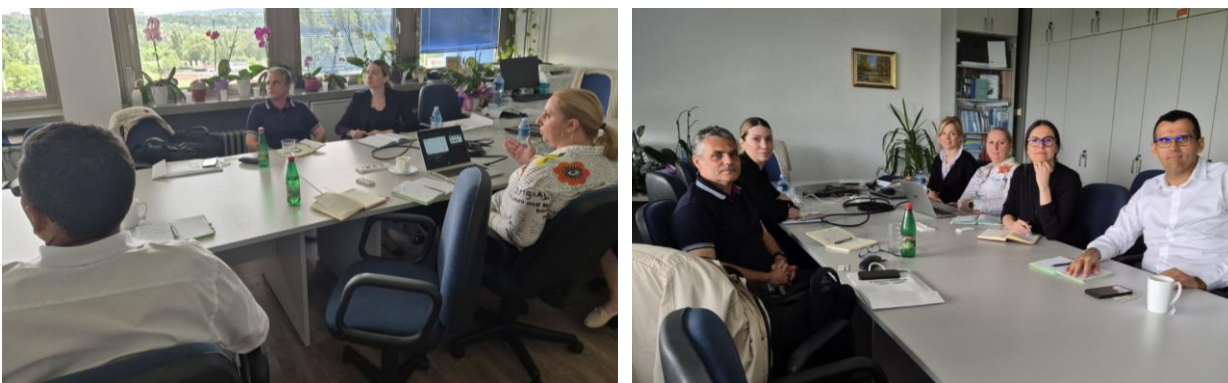


Figure 12: Meeting between representatives of UNSPMF and the Serbian Biogas Association

The fourth follow-up meeting at Regional Landfill doo Subotica, held in May 2024, built on the successful workshop in March titled "Overcoming Challenges in the Application of Organic Soil Additives - Synergy of Science and Economy." Our host was Bjanka Čturilo. Regional Landfill doo Subotica employs specialized technology to produce high-quality compost. This compost is made from anaerobically stabilized sludge, transported on a regulated schedule from the Subotica Wastewater Treatment Plant, and biomass (green waste) collected through the regional waste management system. Key conclusions from the meeting included the need for enhanced collaboration between scientific research and economic strategies to optimize compost quality and the importance of expanding educational initiatives to promote the benefits of organic soil additives in sustainable agriculture. Participants also discussed the potential for scaling up production to meet increasing demand and the necessity of implementing stricter quality control measures to ensure consistency in compost performance. The meeting underscored the pivotal

role of integrated waste management practices in fostering environmental sustainability and economic growth in the region.



Figure 13: Visit of stakeholders Landfill Subotica

6. Conclusion

The four Workshops provided a significant platform for key stakeholders from academia, ministry representatives, and others to engage in productive dialogue and collaboration. These sessions underscored the critical role of organic soil amendments in promoting sustainable agriculture and environmental stewardship. Participants gained valuable insights into the latest research, practical applications, and policy implications surrounding organic soil management. The workshops fostered a comprehensive understanding of the benefits and challenges associated with organic amendments, highlighting their potential to improve soil health, enhance crop productivity, and reduce environmental impacts. The diverse perspectives shared by attendees enriched the discussions and facilitated the exchange of innovative ideas and best practices. Moving forward, the collaborative efforts initiated during these workshops, lead to additional follow up meetings with selected stakeholders which was focused on specific topic for each stakeholder., where additional challenges and possible solutions were identified. In conclusion, the success of these workshops demonstrates the importance of interdisciplinary collaboration in addressing identified challenges.

ANNEX I – SOM and Nutrient Characterization and Dynamics in Relation to OSA Application

Twinning excellence on organic soil amendments effect on nutrient and contaminant dynamics in the subsurface

WORKSHOP ANNOUNCEMENT

The TwinSubDyn project consortium is pleased to announce **first international workshop!**

Organic soil amendments impact on soil organic matter and nutrient characteristics and dynamics

26-29 September 2023
University of Novi Sad, Dr Zorana Dindića 1
Novi Sad, Republic of Serbia (and online)

Workshop background

Current agricultural practices result in harmful environmental effects, including three key problems. Two major issues need to be addressed: deterioration of soil as a key non-renewable resource in our lifetime, groundwater pollution. Additionally, globally valuable resources are continuously lost through waste streams. Therein, organic-based wastes such as biomass residues and biosolids can emit substantial amounts of greenhouse gases if landfilled or burned off. Thus, strategies to utilize these resources following concepts of circular economy are urgently needed. Nowadays, all this waste streams can be used as soil organic amendments. To support further development and a safe and useful application of organic amendments, the TwinSubDyn consortium has developed a project to study the impact of organic soil amendments quality on the soil and the environment. To share knowledge on this topic with a broader scientific community, the project partners are organizing workshop that will focus on the effects of organic soil amendments on soil organic matter and nutrient dynamics. We invite you to view the agenda of the workshop on the following pages and to join us in person or online.

AIMS OF THE WORKSHOP

1. To develop a common understanding of soil organic carbon and his sequestration, as well as gain better understanding of nutrient cycling and transport through the soil and their impact on soil and water quality.
2. To develop new knowledge about organic soil amendments and their impact on soil hydrology and soil organic matter.
3. To review international and Western Balkans region status of nutrients, soil organic carbon and soil organic amendments to identify possible gaps and opportunities for harmonization.
4. To discuss and consider molecular markers and stable isotope techniques for organic matter or pyrolysis for organic soil amendments analysis.

DAY 1	26.09.2023. Organic Soil Amendments General Aspects	
9:30-10:00	Registration	
	Welcome	
10:00-10:15	Introduction to the workshop objectives and TwinSubDyn project	Snežana Maletić
10:15-10:45	Soil carbon importance and benefits	Heike Knicker
10:45-11:15	General overview of soil organic carbon status in WBC	Snežana Maletić
11:15-11:45	Coffee break	
11:45-12:15	Organic soil amendments for soil carbon management	Roland Bol
12:15-13:00	Soil organic carbon sequestration: importance and State-of-the-Science, Terra Preta phenomenon	Bruno Glaser
13:00-14:00	Networking Lunch	
14:00-14:45	Impact of organic soil amendments on soil hydrology	Lutz Weihermüller
14:45-15:30	Overview of organic soil amendments in WBC	Marijana Kraguj Isakovski
15:30-16:00	Q&A session	
DAY 2	27.09.2023. Dynamic and Structure of the Soil Organic Matter	
10:00-10:15	Agenda overview	
10:15-11:00	Assessment of dynamic and structure of the soil organic matter by solid-state NMR data	Heike Knicker
11:00-11:30	Coffee break	
11:30-12:10	Functional analysis of soil organic matter using molecular markers and stable isotope techniques	Bruno Glaser
12:10-12:50	Composition of the soil and organic soil amendment analysis using pyrolysis techniques (Py-GC/MS)	José A. González-Pérez
12:50-13:00	Q&A session	
13:00-14:00	Networking Lunch	
14:00-14:45	Large-scale field experiments for assessment of the impact of organic soil amendment	Arthur Gross
14:45-15:30	Example – Effects of the soil organic amendments on the soil organic matter	Tamara Apostolović
15:30-16:00	Q&A session	

DAY 3	28.09.2023. Element and Nutrient Dynamics in Soil	
10:00-10:15	Agenda overview	
10:15-10:45	Isotope signatures of biogeochemical processes and nutrient cycling in soil	Roland Bol
10:45-11:15	Coffee break	
11:15-12:00	Modelling of pollutants and nutrient cycling	Lutz Weihermüller
12:00-12:45	Turnover and transport of phosphorus in soil aggregates - From macroaggregates to nanoparticles	Jens Kruse and Nina Siebers
12:45-13:00	Q&A session	
13:00-14:00	Networking Lunch	
14:00-14:30	Impact of the fertilization on nitrogen oxides emission	Roland Bol
14:30-15:00	Water quality and nutrients (Nitrate directive)	Srdan Rončević
15:00-15:30	General overview of nutrient status in WBC	Jelena Beljin
15:30-16:00	Q&A session	
DAY 4	29.09.2023. Experimental Examples for Organic Soil Amendments Impact on Soil Assessment	
10:00-10:15	Agenda overview	
10:15-11:30	Demo experiment – Lysimeter experiment	Lutz Weihermüller and Slaven Tenodi
11:30-12:00	Coffee break	
12:00-12:45	Large-scale field experiments for assessment of the impact of organic soil amendment	Marko Solić
12:45-13:00	Final discussion	
13:00-14:00	Networking Lunch	

LOCATION

University of Novi Sad
Dr Zorana Bindića 1
21 000 Novi Sad
Republic of Serbia

The workshops will be organized in a hybrid format in English. The number of participants is limited, so please let us know as soon as possible if you would like to attend. A registration fee is not required.

Link for online participation (MS Teams): will be provided after registration.

CONTACT INFORMATION AND REGISTRATION

Reserve your spot: <https://forms.gle/YPYQY69uzw5PFPBc6j>

Be sure to mark your calendars! A confirmation mail from TwinSubDyn about your registration will be send to you before event - so be sure to look out for it!

If you have any suggestions for our agenda topic or require further information, please do not hesitate to contact us on our email address: twinsubdyn@pmf.uns.ac.rs

More information about the event and TwinSubDyn project are available at: <https://twinsubdyn.pmf.uns.ac.rs/> and our social networks



Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Research Executive Agency (REA). Neither the European Union nor the granting authority can be held responsible for them. Grant agreement No. 101059546.

Figure 14: Agenda for Workshop 1

Name	First join	Last leave	Duration	Email	Role	Participant ID (UPN)
Zorana Maletić	Tue, 26 Sept, 09:15	Tue, 26 Sept, 15:33	6hr 18min	snezana.maletic@one.pmf.uns.ac.rs	Organizer	snezana.maletic@one.pmf.uns.ac.rs
Marijana Kragulj Isakovski	Tue, 26 Sept, 09:15	Tue, 26 Sept, 15:27	6hr 11min	marijana.kragulj@one.pmf.uns.ac.rs	Presenter	marijana.kragulj@one.pmf.uns.ac.rs
Nina Đukanović	Tue, 26 Sept, 09:16	Tue, 26 Sept, 15:21	4hr 36min	nina.djukanovic@one.pmf.uns.ac.rs	Presenter	nina.djukanovic@one.pmf.uns.ac.rs
Jelena Bordenić	Tue, 26 Sept, 09:30	Tue, 26 Sept, 11:30	1hr 59min		Presenter	
Marija Dragović	Tue, 26 Sept, 09:44	Tue, 26 Sept, 13:05	3hr 20min	marija.dragovic@eko.gov.rs	Presenter	marija.dragovic@eko.gov.rs
Anne Berns (Gast)	Tue, 26 Sept, 09:56	Tue, 26 Sept, 11:19	1hr 23min		Presenter	
Siebers, Nina	Tue, 26 Sept, 09:58	Tue, 26 Sept, 15:21	5hr 22min	n.siebers@fz-juelich.de	Presenter	n.siebers@fz-juelich.de
Adelsh, Sara	Tue, 26 Sept, 10:00	Tue, 26 Sept, 10:01	50sec	s.adelsh@fz-juelich.de	Presenter	s.adelsh@fz-juelich.de
dos Anjos Leal, Otávio	Tue, 26 Sept, 10:02	Tue, 26 Sept, 15:18	5hr 15min	o.dos.anjos.leal@fz-juelich.de	Presenter	o.dos.anjos.leal@fz-juelich.de
Zorica Mrkonjić	Tue, 26 Sept, 10:03	Tue, 26 Sept, 10:13	10min 6sec		Presenter	
Ivana Mihajlović	Tue, 26 Sept, 10:04	Tue, 26 Sept, 13:14	3hr 9min	ivanamihajlovic@uns.ac.rs	Presenter	ivanamihajlovic_uns.ac.rsEXT#@pmfns.onmicrosoft.com
Zorana	Tue, 26 Sept, 10:06	Tue, 26 Sept, 13:45	3hr 38min		Presenter	
Sema Sengor	Tue, 26 Sept, 10:07	Tue, 26 Sept, 15:21	5hr 13min	ssengor@metu.edu.tr	Presenter	ssengor@metu.edu.tr
JK	Tue, 26 Sept, 10:08	Tue, 26 Sept, 11:59	1hr 46min		Presenter	
Žvančev Nevena	Tue, 26 Sept, 10:10	Tue, 26 Sept, 14:52	4hr 41min	nevenasenk@uns.ac.rs	Presenter	nevenasenk@uns.ac.rs
Zorica Mrkonjić	Tue, 26 Sept, 10:12	Tue, 26 Sept, 13:38	3hr 25min		Presenter	
Jay	Tue, 26 Sept, 10:20	Tue, 26 Sept, 11:53	1hr 32min		Presenter	
Aleksandra Tubić	Tue, 26 Sept, 10:24	Tue, 26 Sept, 11:29	39min 51sec	aleksandra.tubic@one.pmf.uns.ac.rs	Presenter	aleksandra.tubic@one.pmf.uns.ac.rs
De Matteis, Antonio	Tue, 26 Sept, 10:25	Tue, 26 Sept, 11:29	1hr 3min	a.de.matteis@fz-juelich.de	Presenter	a.de.matteis@fz-juelich.de
Mohammed, Gihan	Tue, 26 Sept, 10:47	Tue, 26 Sept, 14:40	44min 52sec	g.mohammed@fz-juelich.de	Presenter	g.mohammed@fz-juelich.de
Hela	Tue, 26 Sept, 10:53	Tue, 26 Sept, 12:28	1hr 35min		Presenter	
Roland	Tue, 26 Sept, 11:01	Tue, 26 Sept, 12:12	1hr 10min		Presenter	
Neđa Bašković	Tue, 26 Sept, 11:05	Tue, 26 Sept, 11:06	1min 38sec		Presenter	
Maja Vujic	Tue, 26 Sept, 11:41	Tue, 26 Sept, 14:39	2hr 56min		Presenter	
Kruse, Jens	Tue, 26 Sept, 12:04	Tue, 26 Sept, 14:57	1hr 57min	j.kruse@fz-juelich.de	Presenter	j.kruse_fz-juelich.deEXT#@pmfns.onmicrosoft.com
Dejan Krčmar	Tue, 26 Sept, 12:22	Tue, 26 Sept, 13:06	43min 57sec	dejan.krčmar@one.pmf.uns.ac.rs	Presenter	dejan.krčmar@one.pmf.uns.ac.rs
Anne Berns	Tue, 26 Sept, 14:00	Tue, 26 Sept, 14:44	43min 47sec		Presenter	
Ivana Mihajlović	Tue, 26 Sept, 14:01	Tue, 26 Sept, 14:16	15min 49sec		Presenter	
Ivana Mihajlović	Tue, 26 Sept, 14:16	Tue, 26 Sept, 15:28	1hr 11min		Presenter	

Figure 15: Online attendance list 26th September 2023

AutoSave Off Organic soil amendments impact on soil organic matter and nutrient chara

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S18

	A	B	C	D	E	F	G	H
1	Meeting Summary							
2	Total Number of Participants	29						
3	Meeting Title	Organic soil amendments impact on soil organic matter and nutrient characteristics and dynamics						
4	Meeting Start Time	Wed, 27 Sept, 09:24						
5	Meeting End Time	Wed, 27 Sept, 15:43						
6	Meeting Id	d7535e84-78d8-451b-8a3f-bce30369fcbd						
7								
8	Name	First join	Last leave	Duration	Email	Role	Participant ID (UPN)	
9	Snežana Maletić	Wed, 27 Sept, 09:	Wed, 27 Sept, 15:43	6hr 18min	snezana.maletic@one.pmf.uns.ac.rs	Organizer	snezana.maletic@one.pmf.uns.ac.rs	
10	Marijana Kragulj Isakov	Wed, 27 Sept, 09:	Wed, 27 Sept, 15:43	6hr 13min	marijana.kragulj@one.pmf.uns.ac.rs	Presenter	marijana.kragulj@one.pmf.uns.ac.rs	
11	Nina Đukanović	Wed, 27 Sept, 09:	Wed, 27 Sept, 15:22	3hr 4min	nina.djukanovic@one.pmf.uns.ac.rs	Presenter	nina.djukanovic@one.pmf.uns.ac.rs	
12	Zorica Mrkonjić	Wed, 27 Sept, 09:	Wed, 27 Sept, 12:11	2hr 17min		Presenter		
13	Nada Bašić	Wed, 27 Sept, 09:	Wed, 27 Sept, 11:13	1hr 15min	Nada.Basic@UGent.be	Presenter	Nada.Basic@UGent.be	
14	Siebers, Nina	Wed, 27 Sept, 09:	Wed, 27 Sept, 15:24	5hr 25min	n.siebers@fz-juelich.de	Presenter	n.siebers@fz-juelich.de	
15	Nevena Živančev	Wed, 27 Sept, 10:	Wed, 27 Sept, 14:37	4hr 33min		Presenter		
16	Dajana Dragić	Wed, 27 Sept, 10:	Wed, 27 Sept, 15:35	4hr 21min	dajana.dragic@tf.unibLorg	Presenter	dajana.dragic@tf.unibLorg	
17	Dijana Drljača	Wed, 27 Sept, 10:	Wed, 27 Sept, 15:35	4hr 22min		Presenter		
18	Srdan Rončević	Wed, 27 Sept, 10:	Wed, 27 Sept, 15:35	4hr 14min	srdjan.roncivic@one.pmf.uns.ac.rs	Presenter	srdjan.roncivic@one.pmf.uns.ac.rs	
19	Zorana Srečkov	Wed, 27 Sept, 10:	Wed, 27 Sept, 13:11	3hr 3min		Presenter		
20	Tajana Simetić	Wed, 27 Sept, 10:	Wed, 27 Sept, 13:22	3hr 11min	tajana.simetic@one.pmf.uns.ac.rs	Presenter	tajana.simetic@one.pmf.uns.ac.rs	
21	Jelena Đorđević	Wed, 27 Sept, 10:	Wed, 27 Sept, 10:39	26min 48sec		Presenter		
22	Dejan Krčmar	Wed, 27 Sept, 10:	Wed, 27 Sept, 13:22	1hr 14min	dejan.krcmar@one.pmf.uns.ac.rs	Presenter	dejan.krcmar@one.pmf.uns.ac.rs	
23	Anne Berns	Wed, 27 Sept, 10:	Wed, 27 Sept, 12:49	2hr 34min		Presenter		
24	Bojana	Wed, 27 Sept, 10:	Wed, 27 Sept, 10:56	39min 41sec		Presenter		
25	Jasmina Agbaba	Wed, 27 Sept, 10:	Wed, 27 Sept, 15:34	4hr 21min	jasmina.agbaba@one.pmf.uns.ac.rs	Presenter	jasmina.agbaba@one.pmf.uns.ac.rs	
26	Đurđa Kerkez	Wed, 27 Sept, 10:	Wed, 27 Sept, 14:03	3hr 9min	djurdja.kerkez@one.pmf.uns.ac.rs	Presenter	djurdja.kerkez@one.pmf.uns.ac.rs	
27	Hela	Wed, 27 Sept, 10:	Wed, 27 Sept, 12:51	2hr 12min		Presenter		
28	Sema Sengor	Wed, 27 Sept, 10:	Wed, 27 Sept, 15:37	4hr 58min	ssengor@metu.edu.tr	Presenter	ssengor@metu.edu.tr	
29	Jasmina Nikić	Wed, 27 Sept, 10:	Wed, 27 Sept, 14:26	3hr 41min	jasmina.nikic@one.pmf.uns.ac.rs	Presenter	jasmina.nikic@one.pmf.uns.ac.rs	
30	dos Anjos Leal, Otávio	Wed, 27 Sept, 10:	Wed, 27 Sept, 13:40	2hr 47min	o.dos.anjos.leal@fz-juelich.de	Presenter	o.dos.anjos.leal@fz-juelich.de	
31	Јована Пешић	Wed, 27 Sept, 11:	Wed, 27 Sept, 13:07	1hr 59min		Presenter		
32	Adeleh, Sara	Wed, 27 Sept, 11:	Wed, 27 Sept, 12:02	7min 50sec	s.adeleh@fz-juelich.de	Presenter	s.adeleh@fz-juelich.de	
33	Ivana Mihajlović	Wed, 27 Sept, 11:	Wed, 27 Sept, 13:22	1hr 45min		Presenter		
34	alvaro.garcia	Wed, 27 Sept, 11:	Wed, 27 Sept, 15:35	2hr 42min	alvaro.garcia@irnas.csic.es	Presenter	alvaro.garcia@irnas.csic.es	
35	Natasa	Wed, 27 Sept, 12:	Wed, 27 Sept, 14:27	1hr 55min		Presenter		
36	Anne Berns	Wed, 27 Sept, 13:	Wed, 27 Sept, 14:42	44min 51sec		Presenter		
37	Ivana Mihajlović	Wed, 27 Sept, 14:	Wed, 27 Sept, 15:31	1hr 20min		Presenter		
38								
39								

Organic soil amendments impact

Figure 16: Online attendance list 27th Septembar 2023

Name	First join	Last leave	Duration	Email	Role	Participant ID (UPN)
Snežana Maletić	Thu, 28 Sept, 09 Thu, 28 Sept, 15	6hr 46sec	snezana.maletic@one.pmf.uns.ac.rs	Organizer	snezana.maletic@one.pmf.uns.ac.rs	
Jelena Beljin	Thu, 28 Sept, 09 Thu, 28 Sept, 09	9min 56sec	jelena.beljin@one.pmf.uns.ac.rs	Presenter	jelena.beljin@one.pmf.uns.ac.rs	
Marijana Kragulj Isakov	Thu, 28 Sept, 09 Thu, 28 Sept, 15	5hr 31min	marijana.kragulj@one.pmf.uns.ac.rs	Presenter	marijana.kragulj@one.pmf.uns.ac.rs	
Jasmina Agbaba	Thu, 28 Sept, 09 Thu, 28 Sept, 15	4hr 14min	jasmina.agbaba@one.pmf.uns.ac.rs	Presenter	jasmina.agbaba@one.pmf.uns.ac.rs	
Siebers, Nina	Thu, 28 Sept, 09 Thu, 28 Sept, 14	3hr 44min	n.siebers@fz-juelich.de	Presenter	n.siebers@fz-juelich.de	
Nina Dukanović	Thu, 28 Sept, 09 Thu, 28 Sept, 15	5hr 20min	nina.djukanovic@one.pmf.uns.ac.rs	Presenter	nina.djukanovic@one.pmf.uns.ac.rs	
Sema Sengor	Thu, 28 Sept, 09 Thu, 28 Sept, 15	5hr 20min	ssengor@metu.edu.tr	Presenter	ssengor@metu.edu.tr	
BoL, Roland	Thu, 28 Sept, 10 Thu, 28 Sept, 10	50min 53sec	r.bol@fz-juelich.de	Presenter	r.bol@fz-juelich.de	
Nadežda Stojanov	Thu, 28 Sept, 10 Thu, 28 Sept, 14	3hr 37min		Presenter		
Ivana Mihajlović	Thu, 28 Sept, 10 Thu, 28 Sept, 13	2hr 54min		Presenter		
tijana.zeremski	Thu, 28 Sept, 10 Thu, 28 Sept, 15	5hr 13min	tijana.zeremski_ifvcns.n.s.ac.rs	Presenter	tijana.zeremski_ifvcns.n.s.ac.rs	
Dajana Dragić	Thu, 28 Sept, 10 Thu, 28 Sept, 10	6min 13sec	dajana.dragic@tf.uniblog	Presenter	dajana.dragic@tf.uniblog	
Jelena Molnar Jazić	Thu, 28 Sept, 10 Thu, 28 Sept, 11	1hr 22min	jelena.molnar@one.pmf.uns.ac.rs	Presenter	jelena.molnar@one.pmf.uns.ac.rs	
Claudia Walraf	Thu, 28 Sept, 10 Thu, 28 Sept, 13	2hr 58min		Presenter		
Kruse, Jens	Thu, 28 Sept, 10 Thu, 28 Sept, 13	2hr 46min	j.kruse@fz-juelich.de	Presenter	j.kruse_fz-juelich.de	
Marija Perović	Thu, 28 Sept, 10 Thu, 28 Sept, 12	1hr 53min	marija.perovic@jcerni.rs	Presenter	marija.perovic@jcerni.rs	
Anne Berns	Thu, 28 Sept, 10 Thu, 28 Sept, 12	2hr 7min		Presenter		
khaled BRIMO	Thu, 28 Sept, 10 Thu, 28 Sept, 11	15min 25sec		Presenter		
khaled brimo	Thu, 28 Sept, 11 Thu, 28 Sept, 12	1hr 44min		Presenter		
Mohammed, Gihan	Thu, 28 Sept, 11 Thu, 28 Sept, 12	1hr 28min	g.mohammed@fz-juelich.de	Presenter	g.mohammed@fz-juelich.de	
Srdan Rončević	Thu, 28 Sept, 11 Thu, 28 Sept, 12	20min 37sec	srđan.roncevic@one.pmf.uns.ac.rs	Presenter	srđan.roncevic@one.pmf.uns.ac.rs	
Jasmina Nikić	Thu, 28 Sept, 12 Thu, 28 Sept, 12	6min 33sec	jasmina.nikic@one.pmf.uns.ac.rs	Presenter	jasmina.nikic@one.pmf.uns.ac.rs	
Dejan Krčmar	Thu, 28 Sept, 12 Thu, 28 Sept, 13	29min 20sec	dejan.krčmar@one.pmf.uns.ac.rs	Presenter	dejan.krčmar@one.pmf.uns.ac.rs	
Tajana Simetić	Thu, 28 Sept, 13 Thu, 28 Sept, 13	47sec	tajana.simetic@one.pmf.uns.ac.rs	Presenter	tajana.simetic@one.pmf.uns.ac.rs	
Roland	Thu, 28 Sept, 13 Thu, 28 Sept, 14	13min 28sec		Presenter		
Roland	Thu, 28 Sept, 14 Thu, 28 Sept, 14	38min 14sec		Presenter		
Nadežda Stojanov	Thu, 28 Sept, 14 Thu, 28 Sept, 15	52min 36sec		Presenter		
Ivana Mihajlović	Thu, 28 Sept, 14 Thu, 28 Sept, 15	50min 48sec		Presenter		

Figure 17: Online attendance list 28th September 2023

Name	First join	Last leave	Duration	Email	Role	Participant ID (UPN)
Snežana Maletić	Fri, 29 Sep Fri, 29 Sep	1hr 56min	snezana.maletic@one.pmf.uns.ac	Organizer	snezana.maletic@one.pmf.uns.ac.rs	
Marijana Kragulj Isakov	Fri, 29 Sep Fri, 29 Sep	1hr 56min	marijana.kragulj@one.pmf.uns.ac	Presenter	marijana.kragulj@one.pmf.uns.ac.rs	
Nina Dukanović	Fri, 29 Sep Fri, 29 Sep	42min 16sec	nina.djukanovic@one.pmf.uns.ac	Presenter	nina.djukanovic@one.pmf.uns.ac.rs	
Jelena Beljin	Fri, 29 Sep Fri, 29 Sep	16min 56sec	jelena.beljin@one.pmf.uns.ac.rs	Presenter	jelena.beljin@one.pmf.uns.ac.rs	
Ivana Mihajlović	Fri, 29 Sep Fri, 29 Sep	56min 24sec	ivanamihajlovic@uns.ac.rs	Presenter	ivanamihajlovic_uns.ac.rs	
Zvančević Nevena	Fri, 29 Sep Fri, 29 Sep	1hr 9min	nevenasenk@uns.ac.rs	Presenter	nevenasenk@uns.ac.rs	
Kruse, Jens	Fri, 29 Sep Fri, 29 Sep	1hr 9min	j.kruse@fz-juelich.de	Presenter	j.kruse_fz-juelich.de	
Tamara Apostolović	Fri, 29 Sep Fri, 29 Sep	1hr 23min	tamara.apostolovic@one.pmf.uns	Presenter	tamara.apostolovic@one.pmf.uns.ac.rs	
Sema Sengor	Fri, 29 Sep Fri, 29 Sep	57min 31sec	ssengor@metu.edu.tr	Presenter	ssengor@metu.edu.tr	
Maja Lončarski	Fri, 29 Sep Fri, 29 Sep	56min 2sec	maja.loncarski@one.pmf.uns.ac	Presenter	maja.loncarski@one.pmf.uns.ac.rs	
Jelena Molnar Jazić	Fri, 29 Sep Fri, 29 Sep	48min 19sec	jelena.molnar@one.pmf.uns.ac.rs	Presenter	jelena.molnar@one.pmf.uns.ac.rs	
Dijana Drljača	Fri, 29 Sep Fri, 29 Sep	1hr 34min		Presenter		
Siebers, Nina	Fri, 29 Sep Fri, 29 Sep	42min 13sec	n.siebers@fz-juelich.de	Presenter	n.siebers@fz-juelich.de	

Figure 18: Online attendance list 29th September 2023

ATTENDANCE LIST
Organic soil amendments impact on soil organic matter and nutrient characteristics and dynamics
Day 1 26. Sep. 2023.

Twinning excellence on organic soil amendments effect on nutrient and contaminant dynamics in the subsurface – TwinSubDyn (Grant agreement No 101059546)

No	Attendee name	Institution name	e-mail	Signature
1	Sanja Vasićević	UNSPMF	sanjav@dh.uns.ac.rs	[Signature]
2	IRINA ŽERVIČIĆ	UNSPMF	irina@dh.uns.ac.rs	[Signature]
3	Sanja Vasićević	UNSPMF	sanjav@dh.uns.ac.rs	[Signature]
4	KLARA ŠTAMBUK	CCIC	klara.stambuk@ccic.rs	[Signature]
5	BRANA GLAČAR	IZZ CCRG	dijana.pavicevic@vrbao.com	[Signature]
6	ANDRIJANA BILIĆ	UNSPMF	andrijana.bilic@dh.uns.ac.rs	[Signature]
7	SAŠA MARČIĆ	UNSPMF	asa@unspmf.uns.ac.rs	[Signature]
8	MARJANA K. KIRILOVIĆ	UNSPMF	marjana.kirilovic@unspmf.uns.ac.rs	[Signature]
9	BRANA GLAČAR	MLU	brana.glacar@mlu.uns.ac.rs	[Signature]
10	BRANA GLAČAR	MLU	brana.glacar@mlu.uns.ac.rs	[Signature]
11	IRINA ŽERVIČIĆ	IFVENS	irina.zervic@ifvens.uns.ac.rs	[Signature]
12	BRANA GLAČAR	IFVENS	brana.glacar@ifvens.uns.ac.rs	[Signature]
13	MADEŽDA STJEPANOV	IFVENS	madezda.stjepanov@ifvens.uns.ac.rs	[Signature]
14	SPENKA KALIB	PMF NS	spenka.kalib@pmf.uns.ac.rs	[Signature]
15	TEODORA GAJIĆ	PMF NS	teodora.gajic@pmf.uns.ac.rs	[Signature]
16	ANJKA JOVAČIĆ	PMF UNIS	anjka.jovacic@pmf.uns.ac.rs	[Signature]
17	ANJKA JOVAČIĆ	PMF UNIS	anjka.jovacic@pmf.uns.ac.rs	[Signature]
18	TAMARA PROSDORČIĆ	PMF UNIS	tamara.prosdoracic@pmf.uns.ac.rs	[Signature]
19	BRANKO SOLIĆ	PMF UNIS	branko.solc@pmf.uns.ac.rs	[Signature]
20				
21				
22				

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Research Executive Agency (REA). Neither the European Union nor the granting authority can be held responsible for them. Grant agreement No. 101059546. 1

ATTENDANCE LIST
Organic soil amendments impact on soil organic matter and nutrient characteristics and dynamics
Day 2 27. Sep. 2023.

Twinning excellence on organic soil amendments effect on nutrient and contaminant dynamics in the subsurface – TwinSubDyn (Grant agreement No 101059546)

No	Attendee name	Institution name	e-mail	Signature
1	SEĐAN SEPEMČIĆ	UNS P. FAKULTET	sedjan@pmf.uns.ac.rs	[Signature]
2	IRINA ŽERVIČIĆ	UNSPMF	irina@dh.uns.ac.rs	[Signature]
3	Sanja Vasićević	UNSPMF	sanjav@dh.uns.ac.rs	[Signature]
4	KLARA ŠTAMBUK	CCIC	klara.stambuk@ccic.rs	[Signature]
5	BRANA GLAČAR	IZZ CCRG	dijana.pavicevic@vrbao.com	[Signature]
6	ANDRIJANA BILIĆ	IFVENS	andrijana.bilic@dh.uns.ac.rs	[Signature]
7	SAŠA MARČIĆ	IFVENS-CCIC	asa@unspmf.uns.ac.rs	[Signature]
8	MARJANA K. KIRILOVIĆ	UNSPMF	marjana.kirilovic@unspmf.uns.ac.rs	[Signature]
9	MADEŽDA STJEPANOV	IFVENS	madezda.stjepanov@ifvens.uns.ac.rs	[Signature]
10	BRANA GLAČAR	MLU	brana.glacar@mlu.uns.ac.rs	[Signature]
11	BRANA GLAČAR	UNSPMF	brana.glacar@unspmf.uns.ac.rs	[Signature]
12	IRINA ŽERVIČIĆ	IFVENS	irina.zervic@ifvens.uns.ac.rs	[Signature]
13	IRINA ŽERVIČIĆ	IFVENS	irina.zervic@ifvens.uns.ac.rs	[Signature]
14	ANDRIJANA BILIĆ	UNSPMF	andrijana.bilic@dh.uns.ac.rs	[Signature]
15	TEODORA GAJIĆ	PMF NS	teodora.gajic@pmf.uns.ac.rs	[Signature]
16	TAMARA PROSDORČIĆ	UNSPMF	tamara.prosdoracic@unspmf.uns.ac.rs	[Signature]
17	BRANKO SOLIĆ	CCIC	branko.solc@ccic.rs	[Signature]
18	ANJKA JOVAČIĆ	UNSPMF	anjka.jovacic@unspmf.uns.ac.rs	[Signature]
19	ANJKA JOVAČIĆ	UNSPMF	anjka.jovacic@unspmf.uns.ac.rs	[Signature]
20	ANJKA JOVAČIĆ	UNSPMF	anjka.jovacic@unspmf.uns.ac.rs	[Signature]
21				
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ATTENDANCE LIST

**Organic soil amendments impact on soil organic matter and nutrient characteristics and dynamics
Day 3 28. Sep. 2023.**

Twinning excellence on organic soil amendments effect on nutrient and contaminant dynamics in the subsurface – TwinSubDyn (Grant agreement No 101059546)

No	Attendee name	Institution name	e-mail	Signature
1	MARKO Solić	UNS PMF	marko.solic@pmf.uns.ac.rs	[Signature]
2	TAMARA APSTOLONIĆ	UNSPMF	tamara.apstolonice@pmf.uns.ac.rs	[Signature]
3	Suzana Hladik	UNSPMF	suzana.hladik@pmf.uns.ac.rs	[Signature]
4	MARJANA KRALJIC	UNI PMF	marjana.kraljic@pmf.uns.ac.rs	[Signature]
5	DELINA BEGIN	UNS PMF	delina.begin@pmf.uns.ac.rs	[Signature]
6	Walter Mader	FE - Jozef Strojnik	w.mader@fe.uni-lj.si	[Signature]
7	Hilke Knicker	CSIC	hilke.knicker@csic.es	[Signature]
8	Andriana Bilić	UNS PMF	andriana.bilic@pmf.uns.ac.rs	[Signature]
9	Dina Perić	IJZ CG	dina.peric@ijz.hr	[Signature]
10	Arthur Gross	MLU	gross@mlu-wg.at	[Signature]
11	Sanja Vasilić	MLU	sanja.vasilic@mlu-wg.at	[Signature]
12	Sanja Vasilić	UNSPMF	sanja.v@pmf.uns.ac.rs	[Signature]
13	Željka Jevrosinović	UNS PMF	zeljka.jevrosinovic@pmf.uns.ac.rs	[Signature]
14	Andriana Bilić	UNSPMF	andriana.bilic@pmf.uns.ac.rs	[Signature]
15	Srdjan Roncevic	IFV CAS	srdjan.roncevic@ifv.cas.cz	[Signature]
16	SEDAN Roncevic	UNSPMF	sedan.roncevic@pmf.uns.ac.rs	[Signature]
17	TEODORA GAJO	PMF NS	teodora.gajo@pmf.ns.ac.rs	[Signature]
18				
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ATTENDANCE LIST

**Organic soil amendments impact on soil organic matter and nutrient characteristics and dynamics
Day 4 29. Sep. 2023.**

Twinning excellence on organic soil amendments effect on nutrient and contaminant dynamics in the subsurface – TwinSubDyn (Grant agreement No 101059546)

No	Attendee name	Institution name	e-mail	Signature
1	Suzana Hladik	UNSPMF	suzana.hladik@pmf.uns.ac.rs	[Signature]
2	MARKO Solić	UNSPMF	marko.solic@pmf.uns.ac.rs	[Signature]
3	MARJANA KRALJIC	UNI PMF	marjana.kraljic@pmf.uns.ac.rs	[Signature]
4	Walter Mader	FE - Jozef Strojnik	w.mader@fe.uni-lj.si	[Signature]
5	TEODORA GAJO	PMF NS	teodora.gajo@pmf.ns.ac.rs	[Signature]
6	Nadežda Stojanov	IFV NS	nadezda.stojanov@ifv.ns.ac.rs	[Signature]
7	SEBASTIAN WITTMANN	IFV NS	sebastian.wittmann@ifv.ns.ac.rs	[Signature]
8	Andriana Bilić	IFV CAS	andriana.bilic@ifv.cas.cz	[Signature]
9	Sanja Vasilić	UNSPMF	sanja.v@pmf.uns.ac.rs	[Signature]
10	Željka Jevrosinović	UNSPMF	zeljka.jevrosinovic@pmf.uns.ac.rs	[Signature]
11	Andriana Bilić	UNSPMF	andriana.bilic@pmf.uns.ac.rs	[Signature]
12	Dina Perić	IJZ CG	dina.peric@ijz.hr	[Signature]
13	Arthur Gross	MLU	gross@mlu-wg.at	[Signature]
14	Sanja Vasilić	MLU	sanja.vasilic@mlu-wg.at	[Signature]
15	SEDAN Roncevic	UNSPMF	sedan.roncevic@pmf.uns.ac.rs	[Signature]
16	TEODORA GAJO	UNSPMF	teodora.gajo@pmf.uns.ac.rs	[Signature]
17	TEODORA GAJO	PMF NS	teodora.gajo@pmf.ns.ac.rs	[Signature]
18				
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Figure 19: Attendance lists for onsite participants WS1

ANNEX II - Workshop on contamination control in relation to the application of organic soil amendments in soil

Funded by the European Union

Twinning excellence on organic soil amendments effect on nutrient and contaminant dynamics in the subsurface

WORKSHOP ANNOUNCEMENT

The TwinSubDyn project consortium in Novi Sad is pleased to announce **second international workshop!**

Contamination Control In Relation To The Application Of Organic Soil Amendments In Soil

28.11.-01.12.2023.
University of Novi Sad, Faculty of Sciences
Teachers club, Trg Dositeja Obradovića 4
Novi Sad, Republic of Serbia (and online)

Workshop background

Current agricultural practices result in harmful environmental effects, including three key problems. Two major issues need to be addressed: deterioration of soil as a key non-renewable resource in our lifetime, groundwater pollution. Additionally, globally valuable resources are continuously lost through waste streams. Therein, organic-based wastes such as biomass residues and biosolids can emit substantial amounts of greenhouse gases if landfilled or burned off. Thus, strategies to utilize these resources following concepts of circular economy are urgently needed. Nowadays, all this waste streams can be used as soil organic amendments. To support further development and a safe and useful application of organic amendments, the TwinSubDyn consortium has developed a project to study the impact of organic soil amendments quality on the soil and the environment. To share knowledge on this topic with a broader scientific community, the project partners are organizing workshop that will focus on the effects of organic soil amendments on soil organic matter and nutrient dynamics. We invite you to view the agenda of the workshop on the following pages and to join us in person or online.

University of Novi Sad Faculty of Sciences, Department of Chemistry, Biochemistry and Environmental protection

University of Vienna, Centre for Microbiology and Environmental Systems Science

Forschungszentrum Jülich, The Institute of Bio- and Geosciences Agrosphere (IBG-3)

Martin-Luther-Universität Halle-Wittenberg, Soil Biogeochemistry


Spanish National Research Council - Instituto de Recursos Naturales y Agrobiología de Sevilla

AIMS OF THE WORKSHOP

- To develop a common understanding of direct and indirect effects of organic soil amendments on contaminant dynamics in soil and waters.
- To develop new knowledge about biodegradation and biotransformation of organic contaminants in receiving environment and mobility of charged and ionizable organic compounds and microplastic in organic soil amendments, soil and subsurface
- Discussion through the topical breakout sessions on mobility, plastic-derived compounds, plastics, colloids and transformation

DAY 1.	28.11.2023. Organic Soil Amendment related contaminants general aspects
14:00 – 14:30	Opening Remarks, Introduction to the workshop/project objectives and participants Snežana Maletić
14:30 – 15:00	General overview of contaminants detected in organic soil amendments Gabriel Sigmund
15:00 – 15:30	Coffee break
15:30 – 16:00	Available data on organic soil amendments in WBC Marijana Kragulj Isakovski
16:00 – 16:30	Direct and indirect effects of organic soil amendments on contaminant dynamics in soil and waters Gabriel Sigmund
16:30 – 17:00	Biodegradation and Biotransformation of organic contaminants in receiving environment Michael Zumstein
17:00 – 17:15	Q&A session
DAY 2.	29.11.2023. Fate of organic contaminants in Organic soil amendment-soil system
10:00 – 10:15	Agenda overview
10:15 – 11:00	Mobility of charged and ionizable organic compounds Gabriel Sigmund
11:00 – 11:30	Coffee break
11:30 – 12:00	Overview on microplastic in organic soil amendments, soil and the subsurface Aleksandra Tubić
12:00 – 12:45	Plastic components deriving from organic soil amendments Thorsten Hüffer
12:45 – 13:00	Q&A session
13:00 – 14:00	Networking Lunch
Reports and updates on ongoing research activities:	
14:00 – 16:00	Irina Jevrosimov Sanja Vasiljević Tamara Apostolović Marko Šolić Nina Đukanović Slaven Tenodi Moderation by Snežana Maletić and Gabriel Sigmund
16:00 – 16:30	Lessons learned from scientific exchange with a focus on pitfalls and opportunities for future collaborations Gabriel Sigmund
16:30 – 16:45	Q&A session

DAY 3.	30.11.2023. Knowns and unknowns on organic soil amendment affected contaminant dynamics
10:00 – 10:15	Agenda overview
10:15 – 11:00	Colloids and their significance in organic soil amendment affected soils Thilo Hofmann
11:00 – 11:30	Coffee break
11:30 – 12:00	Introduction and kick-off of discussion session Gabriel Sigmund
12:00 – 13:00	Beyond the Horizon: Unveiling the Environmental Impact of Microplastics and PFAS as Enduring Symbols of Persistent Organic Pollution – part 1 All participants
13:00 – 14:00	Lunch break
14:00 – 15:30	Beyond the Horizon: Unveiling the Environmental Impact of Microplastics and PFAS as Enduring Symbols of Persistent Organic Pollution – part 2 All participants
15:30 – 16:00	Closing remarks of discussion session All participants
DAY 4.	01.12.2023. Planning a joint path forward
10:00 – 12:30	Echoes in the Ecosystem: Pharmaceuticals and Pesticide Residues as Ubiquitous Organic Pollutants Shaping Our Environment All participants
12:30-13:00	Closing remarks and discussion on next steps Snežana Maletić and Gabriel Sigmund
13:00-14:00	Networking Lunch



University of Novi Sad, Faculty of Sciences
Teachers club, Trg Dositeja Obradovića 4
Novi Sad, Republic of Serbia

The workshops will be organized in a hybrid format in English. The number of participants is limited, so please let us know as soon as possible if you would like to attend. A registration fee is not required.

Link for online participation (MS Teams): will be provided after registration.


CONTACT INFORMATION AND REGISTRATION

Reserve your spot: <https://forms.gle/YPQY69ruzWSPfPBc6>

Be sure to mark your calendars! A confirmation mail from TwinSubDyn about your registration will be sent to you before event - so be sure to look out for it!

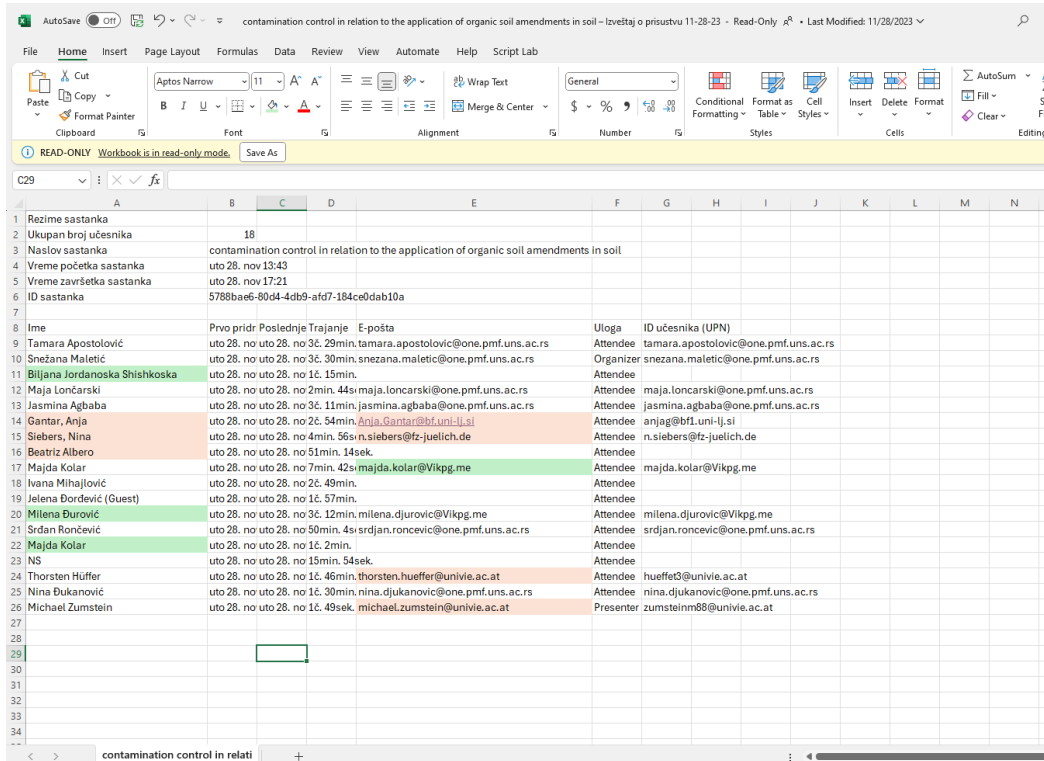
If you have any suggestions for our agenda topic or require further information, please do not hesitate to contact us on our email address: twinsubdyn@pmf.uns.ac.rs

More information about the event and TwinSubDyn project are available at: <https://twinsubdyn.pmf.uns.ac.rs/> and our social networks



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Figure 20: Agenda for Workshop 2



ID	Ime	Prvo pridr	Poslednje Trajanje	E-pošta	Uloga	ID učesnika (UPN)
1	Rezime sastanka					
2	Ukupan broj učesnika	18				
3	Naslov sastanka	contamination control in relation to the application of organic soil amendments in soil				
4	Vreme početka sastanka	uto 28. nov 13:43				
5	Vreme završetka sastanka	uto 28. nov 17:21				
6	ID sastanka	5788bae6-80d4-4db9-afd7-184ce0dab10a				
7						
8	Ime	Prvo pridr	Poslednje Trajanje	E-pošta	Uloga	ID učesnika (UPN)
9	Tamara Apostolović	uto 28. no uto 28. no 3ċ. 29min.	tamara.apostolovic@one.pmf.uns.ac.rs	Attendee	tamara.apostolovic@one.pmf.uns.ac.rs	
10	Snezana Maletic	uto 28. no uto 28. no 3ċ. 30min.	snezana.maletic@one.pmf.uns.ac.rs	Organizer	snezana.maletic@one.pmf.uns.ac.rs	
11	Biljana Jordanoska Shishkoska	uto 28. no uto 28. no 1ċ. 15min.		Attendee		
12	Maja Lončarski	uto 28. no uto 28. no 2min. 44s	maja.loncarski@one.pmf.uns.ac.rs	Attendee	maja.loncarski@one.pmf.uns.ac.rs	
13	Jasmina Agbaba	uto 28. no uto 28. no 3ċ. 11min.	jasmina.agbaba@one.pmf.uns.ac.rs	Attendee	jasmina.agbaba@one.pmf.uns.ac.rs	
14	Gantar, Anja	uto 28. no uto 28. no 2ċ. 54min.	Anja.Gantar@bfl.uni-lj.si	Attendee	anjag@bfl.uni-lj.si	
15	Siebers, Nina	uto 28. no uto 28. no 4min. 56s	n.siebers@fz-juelich.de	Attendee	n.siebers@fz-juelich.de	
16	Beatriz Alberro	uto 28. no uto 28. no 51min. 14sek.		Attendee		
17	Majda Kolar	uto 28. no uto 28. no 7min. 42s	majda.kolar@Vikpg.me	Attendee	majda.kolar@Vikpg.me	
18	Ivana Mihajlović	uto 28. no uto 28. no 2ċ. 49min.		Attendee		
19	Jelena Đorđević (Guest)	uto 28. no uto 28. no 1ċ. 57min.		Attendee		
20	Milena Đurović	uto 28. no uto 28. no 3ċ. 12min.	milena.djurovic@Vikpg.me	Attendee	milena.djurovic@Vikpg.me	
21	Srdan Rončević	uto 28. no uto 28. no 50min. 4s	srdrjan.roncivic@one.pmf.uns.ac.rs	Attendee	srdrjan.roncivic@one.pmf.uns.ac.rs	
22	Majda Kolar	uto 28. no uto 28. no 1ċ. 2min.		Attendee		
23	NS	uto 28. no uto 28. no 15min. 54sek.		Attendee		
24	Thorsten Hüffer	uto 28. no uto 28. no 1ċ. 46min.	thorsten.hueffer@univie.ac.at	Attendee	hueffet3@univie.ac.at	
25	Nina Đukanović	uto 28. no uto 28. no 1ċ. 30min.	nina.djukanovic@one.pmf.uns.ac.rs	Attendee	nina.djukanovic@one.pmf.uns.ac.rs	
26	Michael Zumstein	uto 28. no uto 28. no 1ċ. 49sek.	michael.zumstein@univie.ac.at	Presenter	zumsteinm8@univie.ac.at	

Figure 21: Online attendance list 28th November 2023

contamination control in relation to the application of organic soil amendments in soil - Attendance report 11-29-23 - Read-Only				
1. Summary				
2	Meeting title: contamination control in relation to the application of organic soil amendments in soil			
3	Attended participants	30		
4	Start time	11/29/23, 9:30:15 AM		
5	End time	11/29/23, 4:31:54 PM		
6	Meeting duration	7h 1m 39s		
7	Average attendance time	2h 47m 38s		
2. Participants				
9	Name	First Join	Last Leave	In-Meeting Email
10	Snezana Maletic	11/29/23, 9:31	11/29/23, 6h 36m 35s	snezana.maletic@one.pmf.uns.ac.rs
11	Jelena Beljin	11/29/23, 9:31	11/29/23, 6h 37m 14s	jelena.beljin@one.pmf.uns.ac.rs
12	Jelena Mohar Jastic	11/29/23, 9:57	11/29/23, 6h 34m 40s	jelena.mohar@one.pmf.uns.ac.rs
13	Maja Loncarski	11/29/23, 9:56	11/29/23, 5:1m	maja.loncarski@one.pmf.uns.ac.rs
14	Ivana Mihajlovic	11/29/23, 9:56	11/29/23, 3h 20m 12s	
15	NS	11/29/23, 10:0	11/29/23, 19m 30s	
16	Nina Dukanovic	11/29/23, 10:0	11/29/23, 4h 3m 17s	nina.djukanovic@one.pmf.uns.ac.rs
17	Dusan	11/29/23, 10:0	11/29/23, 4h 9m 10s	
18	Beatriz Albero	11/29/23, 10:1	11/29/23, 3h 16m 44s	
19	Biljana Jordanovska Shakhoska	11/29/23, 10:1	11/29/23, 3h 5m 1s	
20	Tijana Zeremski	11/29/23, 10:1	11/29/23, 2h 22m 18s	tijana.zeremski@one.pmf.uns.ac.rs
21	Dijana Drjajca	11/29/23, 10:4	11/29/23, 5h 35s	
22	Alvaro	11/29/23, 10:4	11/29/23, 2h 31m 38s	
23	Srdjan Roncevic	11/29/23, 11:1	11/29/23, 2h 19m 52s	srđjan.ror@one.pmf.uns.ac.rs
24	Dajana Dragic	11/29/23, 11:1	11/29/23, 4h 31m 44s	dajana.dragic@ft.unilb.org
25	NS	11/29/23, 11:1	11/29/23, 21m 35s	
26	Thorsten Huffer	11/29/23, 12:1	11/29/23, 3h 3m 18s	thorsten.huffer@univie.ac.at
27	NS	11/29/23, 12:1	11/29/23, 2h 8m 29s	
28	Denis Zetovic	11/29/23, 1:56	11/29/23, 2h 8m 29s	denis.zetovic.b142.19@one.pmf.uns.ac.rs
29	Andela Savic	11/29/23, 1:56	11/29/23, 2h 10m 20s	asavic.b11@one.pmf.uns.ac.rs
30	Jovana Delic	11/29/23, 2:0	11/29/23, 2h 7m 43s	jdalic.b17@one.pmf.uns.ac.rs
31	Kristina Zalik	11/29/23, 2:0	11/29/23, 2h 8m 49s	kzalic.b5@one.pmf.uns.ac.rs
32	Milica Semic	11/29/23, 2:0	11/29/23, 2h 3m 42s	msemic.b2@one.pmf.uns.ac.rs
33	Milica Duric	11/29/23, 2:0	11/29/23, 2h 3m 40s	mduric.b1@one.pmf.uns.ac.rs
34	Marijana Andelic	11/29/23, 2:04	11/29/23, 2h 5m 20s	mandjelic.b208.18@one.pmf.uns.ac.rs
35	stamisljca.milica@gmail.com	11/29/23, 2:11	11/29/23, 2h 3m 52s	
36	Marijan Ostrogovac	11/29/23, 2:15	11/29/23, 1h 52m 12s	m.ostrogovac.b131.19@one.pmf.uns.ac.rs
37	Ageta Berta	11/29/23, 2:2	11/29/23, 1h 53m 10s	aberta.b20.15@one.pmf.uns.ac.rs
38	NS	11/29/23, 2:3	11/29/23, 36m 10s	
39	Jasmina Agbaba	11/29/23, 3:0	11/29/23, 1h 17m 50s	jasmina.agbaba@one.pmf.uns.ac.rs
40				
41				
42	3. In-Meeting Activities			
43	Name	Join Time	Leave Time	Duration
44				

Figure 22: Online attendance list 29th November 2023

contamination control in relation to the application of organic soil amendments in soil - Attendance report 11-30-23 (1) - Last Modified: Yesterday at 3:03 PM				
1. Summary				
2	Meeting title: contamination control in relation to the application of organic soil amendments in soil			
3	Attended participants	23		
4	Start time	11/30/23, 9:29:25 AM		
5	End time	11/30/23, 3:37:05 PM		
6	Meeting duration	6h 7m 39s		
7	Average attendance time	2h 3m 54s		
2. Participants				
9	Name	First Join	Last Leave	In-Meeting Email
10	Snezana Maletic	11/30/23, 11/30/23,	6h 3m 35s	snezana.maletic@one.pmf.uns.ac.rs
11	Jelena Beljin	11/30/23, 11/30/23,	5h 54m 13s	jelena.beljin@one.pmf.uns.ac.rs
12	Thilo Hofmann	11/30/23, 11/30/23,	1h 49s	thilo.hofmann@univie.ac.at
13	Mohammed, Gihan	11/30/23, 11/30/23,	52m 23s	g.mohammed@ft-zuelich.de
14	Jelena Đorđević (Guest)	11/30/23, 11/30/23,	43m 56s	
15	Srdjan Roncevic	11/30/23, 11/30/23,	5h 8m 12s	srđjan.ror@one.pmf.uns.ac.rs
16	NS	11/30/23, 11/30/23,	1h 3m 10s	
17	Jasmina Agbaba	11/30/23, 11/30/23,	4h 48m 51s	jasmina.agbaba@one.pmf.uns.ac.rs
18	De Mattes, Antonio	11/30/23, 11/30/23,	18m 24s	a.de.mattes@ft-zuelich.de
19	Natasa Rokovic 120/20	11/30/23, 11/30/23,	1h 32m 55s	nrokovics.b120.20@one.pmf.uns.ac.rs
20	Ivan Đurić-ković	11/30/23, 11/30/23,	4h 29m 8s	ivan.djurickovic@eko.gov.rs
21	Ivan Đurić-ković	11/30/23, 11/30/23,	4h 29m 3s	
22	SONJA ROGLIĆ	11/30/23, 11/30/23,	2h 6m 10s	
23	Dajana Dragić	11/30/23, 11/30/23,	1h 58m 54s	dajana.dragic@ft.unilb.org
24	Dijana Drjajca	11/30/23, 11/30/23,	36m 39s	
25	Valentina Zilavski 142/20	11/30/23, 11/30/23,	1h 32m 32s	vzilavski.b142.20@one.pmf.uns.ac.rs
26	Maja Lukic 466/20	11/30/23, 11/30/23,	1h 28m 57s	mlukic.b4@one.pmf.uns.ac.rs
27	Zahida Ademovic	11/30/23, 11/30/23,	26m 8s	z.ademovic@fsa.unsa.ba
28	marija	11/30/23, 11/30/23,	42m 54s	
29	Jovana Gajic 137/20	11/30/23, 11/30/23,	50m 1s	jgajic.b137.20@one.pmf.uns.ac.rs
30	Milana Zotovic	11/30/23, 11/30/23,	59m 8s	
31	Natasa Sirotnin	11/30/23, 11/30/23,	8m 45s	
32	Natasa Sirotnin	11/30/23, 11/30/23,	15m 46s	
33				
34				
35	3. In-Meeting Activities			
36	Name	Join Time	Leave Time	Duration
37				

Figure 23: Online attendance list 30th November 2023

1. Summary					
Meeting title	contamination control in relation to the application of organic soil amendments in soil				
Attended participants	6				
Start time	12/01/23, 9:38:57 AM				
End time	12/01/23, 12:51:07 PM				
Meeting duration	3h 12m 9s				
Average attendance time	2h 30m 21s				
2. Participants					
Name	First Join	Last Leave	In-Meeting Email	Participator Role	
Snezana Maletic	12/01/23, 12/01/23, 2h 37m 22s	snezana.maletic@one.pmf.uns.ac.rs	snezana.r	Organizer	
Jelena Beljin	12/01/23, 12/01/23, 2h 34m 14s	jelena.beljin@one.pmf.uns.ac.rs	jelena.bel	Presenter	
Dijana Drijača	12/01/23, 12/01/23, 2h 55m 23s			Attendee	
Biljana Jordanoska Shist	12/01/23, 12/01/23, 2h 22m 16s			Attendee	
Dajana Dragić	12/01/23, 12/01/23, 2h 17m 48s	dajana.dragic@ftf.unib-l.org	dajana.dr	Presenter	
Thorsten Hüffer	12/01/23, 12/01/23, 2h 15m 3s	thorsten.hueffer@univie.ac.at	hueffes@	Attendee	
3. In-Meeting Activities					
Name	Join Time	Leave Time	Duration	Email	Role
Snezana Maletic	12/01/23, 12/01/23, 2h 37m 22s	snezana.maletic@one.pmf.uns.ac.rs			Organizer
Jelena Beljin	12/01/23, 12/01/23, 2h 34m 14s	jelena.beljin@one.pmf.uns.ac.rs			Presenter
Dijana Drijača	12/01/23, 12/01/23, 2h 55m 23s				Attendee
Biljana Jordanoska Shist	12/01/23, 12/01/23, 2h 22m 16s				Attendee
Dajana Dragić	12/01/23, 12/01/23, 2h 17m 48s	dajana.dragic@ftf.unib-l.org			Presenter
Thorsten Hüffer	12/01/23, 12/01/23, 2h 15m 3s	thorsten.hueffer@univie.ac.at			Attendee

Figure 24: Online attendance list 1st December 2023

ATTENDANCE LIST
Contamination control in relation to the application of organic soil amendments in soil
Day 1 28. Nov. 2023.
Twinning excellence on organic soil amendments effect on nutrient and contaminant dynamics in the subsurface – TwinSubDyn (Grant agreement No 101059546)

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ATTENDANCE LIST
Contamination control in relation to the application of organic soil amendments in soil
Day 2 29. Nov. 2023.

Twinning excellence on organic soil amendments effect on nutrient and contaminant dynamics in the subsurface – TwinSubDyn (Grant agreement No 101059546)

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ATTENDANCE LIST
Contamination control in relation to the application of organic soil amendments in soil
Day 3 30. Nov. 2023.

Twinning excellence on organic soil amendments effect on nutrient and contaminant dynamics in the subsurface – TwinSubDyn (Grant agreement No 101059546)

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ATTENDANCE LIST
Contamination control in relation to the application of organic soil amendments in soil
Day 4 01. Dec. 2023.
Twinning excellence on organic soil amendments effect on nutrient and contaminant dynamics in the subsurface – TwinSubDyn (Grant agreement No 101059546)

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Figure 25: Attendance lists for onsite participants WS2

ANNEX III- Overcoming Challenges in the Application of Organic Soil Additives

Twinning excellence on organic soil amendments effect on nutrient and contaminant dynamics in the subsurface

WORKSHOP ANNOUNCEMENT

The TwinSubDyn project consortium in Novi Sad is pleased to announce **third workshop!**

**Round table:
Overcoming challenges in the application of organic soil additives - legislative framework**

05.03.2024.
Hotel "Sheraton"
Polgar Andraša 1, Novi Sad, R. Serbia

Workshop background

Current agricultural practices result in harmful environmental effects. Two major issues need to be addressed: deterioration of soil as a key non-renewable resource in our lifetime, groundwater pollution. Additionally, globally valuable resources are continuously lost through waste streams. Therein, organic-based wastes such as biomass residues and biosolids can emit substantial amounts of greenhouse gases if landfilled or burned off. Thus, strategies to utilize these resources following concepts of circular economy are urgently needed. Nowadays, all this waste streams can be used as soil organic amendments. To support further development and a safe and useful application of organic amendments, the TwinSubDyn consortium has developed a project to study the impact of organic soil amendments quality on the soil and the environment.

University of Novi Sad Faculty of Sciences, Department of Chemistry, Biochemistry and Environmental protection

University of Vienna, Centre for Microbiology and Environmental Systems Science

Forschungszentrum Jülich, The Institute of Bio- and Geosciences Agrosphere (IBG-3)

Martin-Luther-Universität Halle-Wittenberg, Soil Biogeochemistry

Spanish National Research Council - Instituto de Recursos Naturales y Agrobiología de Sevilla

AIMS OF THE WORKSHOP

Focused on the knowledge transfer to academia in the field of soil organic matter and nutrient characterization and dynamics in relation to organic soil amendments application.

10:00 – 10:10	Round table opening	Snežana Maletić, University of Novi Sad, Faculty of Sciences
Round table 1 – Soil management in frame of Green Agenda for the Western Balkans		
<i>introductory presentations:</i>		
10:10 – 10:20	Soil management	Srdan Rončević, University of Novi Sad, Faculty of Sciences
10:20 – 10:30	Green Agenda for the Western Balkans	Dragana Vidojević, Serbian Environmental Protection Agency
10:30 – 11:00	Round table discussion	
Round table 2 – Soil amendments as a source of soil contamination		
<i>introductory presentations:</i>		
11:00 – 11:10	Challenges of applying organic soil additives	Snežana Maletić, University of Novi Sad, Faculty of Sciences
11:10 – 11:20	Hazardous chemicals in organic fertilizers	Sonja Roglić i Ivan Đuričković, Ministry of Environmental Protection of the Republic of Serbia
11:20 – 11:30	Short-term and long-term options of the Sludge Management Program in the Republic of Serbia for the period from 2023 to 2032.	Snežana Kuzmanović, Ministry of Environmental Protection of the Republic of Serbia
11:30 – 13:00	Round table discussion	

ЛОКАЦИЈА

Хотел "Шератон"
Полгар Андраша 1, Нови Сад
Република Србија

КОНТАКТ

Ако имате било какве сугестије на агенду догађаја или су вам потребне додатне информације, слободно нас контактирајте на емаил адресу : twinsubdyn@pmf.uns.ac.rs

Више информација о догађају и *TwinSubDyn* пројекту доступно је на: <https://twinsubdyn.pmf.uns.ac.rs/> и нашим друштвеним мрежама:

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Figure 26: Agenda for the third workshop 3

Funded by the European Union

Twinning excellence on organic soil amendments effect on nutrient and contaminant dynamics in the subsurface

WORKSHOP ANNOUNCEMENT

The TwinSubDyn project consortium in Novi Sad is pleased to announce **fourth workshop!**

Round table:
Overcoming challenges in the application of organic soil additives - synergy of science and economy

06.03.2024.
 Hotel "Sheraton"
 Polgar Andraša 1, Novi Sad, R. Serbia

Workshop background

Current agricultural practices result in harmful environmental effects. Two major issues need to be addressed: deterioration of soil as a key non-renewable resource in our lifetime, groundwater pollution. Additionally, globally valuable resources are continuously lost through waste streams. Therein, organic-based wastes such as biomass residues and biosolids can emit substantial amounts of greenhouse gases if landfilled or burned off. Thus, strategies to utilize these resources following concepts of circular economy are urgently needed. Nowadays, all this waste streams can be used as soil organic amendments. To support further development and a safe and useful application of organic amendments, the TwinSubDyn consortium has developed a project to study the impact of organic soil amendments quality on the soil and the environment.

University of Novi Sad Faculty of Sciences, Department of Chemistry, Biochemistry and Environmental protection

University of Vienna, Centre for Microbiology and Environmental Systems Science

Forschungszentrum Jülich, The Institute of Bio- and Geosciences Agrosphere (IBG-3)

Martin-Luther-Universität Halle-Wittenberg, Soil Biogeochemistry

Spanish National Research Council - Instituto de Recursos Naturales y Agrobiología de Sevilla and Instituto de la Grasa

AIMS OF THE WORKSHOP

10:00 – 10:10	Opening	Snežana Maletić, University of Novi Sad, Faculty of Sciences
Round table 1 – Challenges of applying organic soil additives		
<i>Introductory presentations:</i>		
10:10 – 10:20	Soil management	Srdjan Rončević, University of Novi Sad, Faculty of Sciences
10:20 – 10:30	The importance of managing organic matter in the soil and the application of organic fertilizers	Stanko Milić, Institut of Field and Vegetable Crops, Institute of National Importance for R. Serbia, Novi Sad
10:30 - 10:40	Challenges of applying organic soil additives	Snežana Maletić, University of Novi Sad, Faculty of Sciences
10:40 – 10:50	Biogas sector in Serbia – source of organic nutrients, state and future	Miodrag Višković, University of Novi Sad, Faculty of Technical Sciences
10:50-11:00	Potential pollutants in organic soil amendments	Marijana Kragulj Isakovski, Aleksandra Tubić, University of Novi Sad, Faculty of Sciences
11:00 - 11:30	Round table discussion	
Round table 2 – Examples of good practice		
<i>Introductory presentations:</i>		
	Examples of good practice Regional landfill Subotica	Gilgor Gellert, Director of Regional landfill Subotica
11:30 - 12:00	Example of good practice: application of organic fertilizers in vegetable production	Ivan Buzarski, President of the International Association of Agricultural and Related Students (IAARS), Novi Sad
12:00 – 13:00	Round table discussion	

LOCATION

Hotel "Sheraton"
 Polgar Andraša 1, Novi Sad, R. Serbia

CONTACT INFORMATION

If you have any suggestions for our agenda topic or require further information, please do not hesitate to contact us on our email address: twinsubdyn@pmf.uns.ac.rs

More information about the event and TwinSubDyn project are available at: <https://twinsubdyn.pmf.uns.ac.rs/> and our social networks

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Figure 27: Agenda for the fourth workshop 4

ATTENDANCE LIST
Overcoming challenges in the application of organic soil additives - legislative framework
March 5, 2024.

Twinning excellence on organic soil amendments effect on nutrient and contaminant dynamics in the subsurface – TwinSubDyn (Grant agreement No 101059546)

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Figure 28: Attendance list for the third workshop

ATTENDANCE LIST
Overcoming challenges in the application of organic soil additives - synergy of science and economy
March 6, 2024.

Twinning excellence on organic soil amendments effect on nutrient and contaminant dynamics in the subsurface – TwinSubDyn (Grant agreement No 101059546)

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Figure 29: Attendance list for fourth workshop