



Funded by
the European Union

AGENDA

SONATA Summer School

From Soil to Landscape: Integrating Biodiversity, Spatial Science and Policy for Sustainable Land Use

Day 1 – Setting the Scene: Soil, Nature and Society (Amphitheatre dr Vasko Sazdovski)

- 10:00-12:00** Registration and Welcome Refreshments
- 12:00-12:30** SONATA Conceptual Overview – Dr. Tijana Nikolić Lugonja (BIOS)
- 12:30-13:15** Nature-based Solutions (NbS) Framework – online session – Dr. Leonard Sandin (NINA)
- 13:15-14:00** Drought, Land-use Change, and SOC in Vojvodina – SONATA Case Studies – Dr. Maja Knežević (BIOS)
- 14:00-14:15** **Short Break**
- 14:15-15:45** **Workshop** Social Perspectives on Land-use Decisions: How to Work with Stakeholders on Soil Health through Co-creation, Storytelling and Living Lab – Dr. Berit Köhler (NINA)
- 15:45-16:00** SONATA Summer School Roadmap – Dr. Ljiljana Šašić Zorić (BIOS)
-

Day 2 – From Data to Decisions: Linking Soil, Biodiversity and Spatial Tools (Amphitheatre dr Vasko Sazdovski)

Morning – Theoretical Foundations

- 9:00-9:45** Landscape and Soil Data Foundations – Datasets and Multi-scale Integration – Dr. Branko Brkljač and Miljana Marković (BIOS)
- 9:45-10:30** Soil Microbiome Diversity across Land-use Types – Linking Land Use, Ecosystem Function and Soil Carbon: Evidence from Soil Health Guards Project – Dr. Jelena Jović (BIOS)
- 10:30-10:45** **Short Break**
- 10:45-11:30** Translating Soil and Biodiversity Data into Spatial Indicators for Landscape Assessment – Dr. Jose Manuel Álvarez-Martinez (UNIOVI)



- 11:30-12:15** Spatial Optimization in Support of Farming, Policy and Ecology – the SONATA Spatial Tool and Geo-platform – Dr. Frederik Priem (VITO)
- 12:15-12:30** EU Soil Mission – Vladislava Grbović (BIOS)
- 12:30-13:00** From Environmental Tools to Socio-economic and Policy Impact: Decision Support in Practice – Maja Vasilijević (NINA)
- 13:00-14:00** Lunch Break
- Afternoon – Co-creation and Practical's**
- 14:00-15:00** **Workshop** Co-creation: Synthesizing Soil, Biodiversity and Landscape Data with Stakeholder Knowledge – Link to Policy, Soil Mission-oriented Outputs and Potential Impacts – Vladislava Grbović and Sandra Jovanović (BIOS)
- 15:00-15:15** Workshop Wrap-up: Presenting the Answers – Vladislava Grbović and Sandra Jovanović (BIOS)
- 15:15-15:30** Short Break
- 15:30-16:00** Introduction to the Practical Part
Group A: Soil Mapping & Landscape Modelling – Dr. Branko Brkljač (BIOS)
Group B: Soil Microbiome & Bioinformatics – Dr. Sanja Brdar (BIOS)
-

Day 3 – Science – Policy – Practice Interface (Amphitheatre dr Vasko Sazdovski)

- 9:00-9:15** Wrap up of the First Two Days of Summer School and the Roadmap for the Day 3 – Dr. Maja Knežević (BIOS)
- Invited Lectures**
- 9:15-10:15** Optimizing Land for Climate, Carbon, Biodiversity & Society – Dr. Thomas Blaschke, University of Salzburg
- 10:15-11:15** Large-scale Mechanistic Modelling of Crop Production, Soil Health, Climate Impacts, and Climate Mitigation – online session – Dr. Christian Folberth, International Institute for Applied Systems Analysis, Austria
- 11:15-11:30** Short Break
- 11:30-12:30** Exploring Soil Organic Matter Dynamics to Provide Ecosystem Services under Nature-based Solutions – Prof. Dr. Ir. Jetse J. Stoorvogel, Open University of Netherlands
- 12:30-13:30** Soil Health: Nutrient Dynamics & Organic Matter Stabilization – Dr. Thalea Stuckenberg, University of Marburg
- 13:30-14:30** Lunch Break
- 14:30-16:30** Discussion for **Seniors**: Policy Roundtable on Horizon Europe 2027 Calls – Moderator: Dr. Sanja Brdar, BIOS ([Meeting Room U4.06](#))



14:30-15:30	Discussion for Students : Wrap-up of the Theoretical Part – Moderator: Anastasija Čeprić, BIOS (Amphitheatre dr Vasko Szdovski)
15:30-16:15	From Soil Data to Carbon Credits: GHG Accounting and Market Mechanisms for Nature-based Solutions – online session – mag. ing. mech. Nikola Žarak (OIKON)
16:15-17:00	Banking for a Cooler Climate: How Banks Drive Climate Action – Sanja Prvulović, ERSTE Bank
18:00	Social Part

Day 4 – Hands-on Integration and Analysis

Group A – Soil Mapping & Modelling – Dr. Branko Brkljač, Dr. Kristina Kalkan, Miljana Marković (BIOS) - [Lecture Room 2](#)

Group B – Soil Microbiome & Bioinformatics – Dr. Sanja Brdar, Andrea Simeon, Ivana Pejović (BIOS) - [Lecture Room 3](#)

9:00-10:45	Interactive Practical Session 1
10:45-11:00	Short Break
11:00-13:00	Interactive Practical Session 2
13:00-14:00	Lunch Break
14:00-15:45	Interactive Practical Session 3
15:45-16:00	Short Break
16:00-17:00	Wrap-up of the Practical Sessions – Dr. Kristina Kalkan, Miljana Marković & Andrea Simeon, Ivana Pejović (BIOS)

Day 5 – Synthesis, Communication and Outlook (Lecture Room 2)

9:00-11:00	Presentations of Group A & Group B Results – Dr. Kristina Kalkan, Ivana Pejović (BIOS)
11:00-11:15	Short Break
11:15-11:45	Cross-track Synthesis: Integrating Soil, Biodiversity and Spatial Perspectives – Dr. Tijana Nikolić Lugonja (BIOS)
11:45-12:15	Roundtable Discussion: Implications for Soil Health & Soil Conservation for Future Generations and Community Lead Initiatives – Dr. Maria Kireeva (BIOS)
12:15-13:00	Soil Quiz for Students – Dr. Maria Kireeva, Branislav Pejak (Lecture Room 1)
13:00-13:30	Summer School Wrap-up and Future Collaboration Opportunities – Dr. Tijana Nikolić Lugonja (BIOS)
13:30-14:30	Lunch
