УНИВЕРЗИТЕТ У НОВОМ САДУ
UNIVERSITY OF NOVI SAD

TOP ACHIEVEMENTS 2022

FACULTY OF SCIENCES

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

HORIZON-VIDERA-2021-ACCESS-02 Twinning Western Balkans, Grant Agreement no. 101059546

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Globally valuable resources, potential organic soil amendments, are continuously lost through waste streams. This problem is highlighted in the Western Balkan countries, where these resources are used even less. There is a wide pool of such resources (anaerobic digestate, manure, sewage sludge, compost, as well as biochar) are available, and continuously growing in WBC region. But these amendments could affect soil structure, element cycling, and nutrient composition in the soil. Additionally, they can be a source and/or a sink of nutrients as well as organic and inorganic pollutants (predominately pharmaceuticals, pesticides and microplastics). Thus, they are expected to affect soil and groundwater quality.

Within this project University of Novi Sad, Faculty of Sciences aims to increase its capacity for scientific excellence in the field via collaborations and training with 4 top-class leading EU partners. These internationally renowned research institutions will help UNSPMF to unlock its scientific potential through networking and transfer of knowledge, as well as by increasing technical expertise aiming to uplift University of Novi Sad, Faculty of Sciences to reach excellence in the field of organic soil amendments affected subsurface dynamics.

Project activities will include training of early stage and experienced researchers from University of Novi Sad, Faculty of Sciences at renowned partner institutions, workshops for researchers and WBC stakeholders (decision makers, public enterprises, companies, and organizations working in the protection of environmental protection and agriculture, etc.) and the organization of a summer school for researchers

and stakeholders from WBC and whole Europe. The project will also include small strategic research project around the impact of organic supplements on the dynamics of nutrients and contaminants in the subsurface and their impact on groundwater.
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Project information: https://twinsubdyn.pmf.uns.ac.rs/

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