



"This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 952396".



УНИВЕРЗИТЕТ У БАЊОЈ ЛУЦИ
UNIVERSITY OF BANJA LUKA

Promoting SMART agricultural WATER management in Bosnia and Herzegovina - SMARTWATER

SMART WATER

PROMOTING SMART AGRICULTURAL WATER MANAGEMENT
IN BOSNIA AND HERZEGOVINA

The first Advanced Training Course - Programme *Advanced remote sensing technologies and tools for crop water requirements estimates and irrigation scheduling*

Lisbon, Portugal

Instituto Superior de Agronomia | Universidade de Lisboa
(ISA | Ulisboa, *Salão Nobre*/Noble Hall)

LEAF – Linking Landscape, Environment, Agriculture and Food
27.09.2021 - 01.10.2021

Participants:

- Early-stage researchers and scientists from **UNI-BL** (Univ. Banja Luka) and **UNSA** (Univ. Sarajevo) (**online**)
- ISA students (presential, limited to room capacity, registration before 22.09.2021: https://docs.google.com/forms/d/e/1FAIpQLScHQIUxyMUUkieswFaDXjTy1NqL2JLGbnbXLhpT3npxihcWIw/viewform?usp=sf_link)



Grant Agreement number: 952396

SMARTWATER — H2020-WIDESPREAD-2018-2020 / H2020- WIDESPREAD-2020-5



"This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 952396".



УНИВЕРЗИТЕТ У БАЊОЈ ЛУЦИ
UNIVERSITY OF BANJA LUKA

Promoting SMART agricultural WATER management in Bosnia and Herzegovina - SMARTWATER

The first Advanced Training Course
Lisbon, Portugal
27.09.2021 - 01.10.2021

Advanced remote sensing technologies and tools for crop water requirements estimates and irrigation scheduling **PROGRAMME**

Monday, September 27, 2021

🕒	TOPIC	WITH
10:00 - 10:30	Registration for presential participants - Noble Hall -	
10:30 - 11:00	WELCOME SPEECH	António Guerreiro de Brito President of ISA (University of Lisbon) Mihajlo Marković Project Coordinator (University of Banja Luka – BH)
11:00 - 11:30	Project implementation - status and perspectives -	Mihajlo Marković UNI-BL
11:30 - 12:00	ISA participation in SMARTWATER	Teresa A. Paço ISA-ULisboa
	Short break	
12:15 - 12:45	Joint experimental studies - status and perspectives -	Nataša Čereković UNI-BL
	Lunch	
14:30 - 15:00	Advanced Training Course Programme	Teresa A. Paço ISA-ULisboa

Grant Agreement number: 952396

SMARTWATER — H2020-WIDESPREAD-2018-2020 / H2020- WIDESPREAD-2020-5



"This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 952396".



УНИВЕРЗИТЕТ У БАЊОЈ ЛУЦИ
UNIVERSITY OF BANJA LUKA

Tuesday, September 28, 2021

🕒	TOPIC	WITH
09:30 - 10:30	Crop water requirements: from direct measurement to tabled values	Teresa A. Paço ISA-ULisboa
	Discussion	
10:45 - 11:45	Modelling crop water requirements with the FAO56 approach *	Paula Paredes ISA-ULisboa
	Discussion	
	Lunch	
14:30 - 16:00	Modelling crop water requirements with the FAO56 approach - Hands on activity *	Paula Paredes ISA-ULisboa
	Discussion and wrap up	

*this activity requires the use of a computer

Wednesday, September 29, 2021

🕒	TOPIC	WITH
09:30 - 10:30	Remote sensing techniques and irrigation – state of the art	Isabel Pôças ForestWISE CoLAB
	Discussion	
10:45 - 11:45	Using satellite data to estimate evapotranspiration	Isabel Pôças ForestWISE CoLAB
	Discussion	
	Lunch	
14:30 – 15:30	Assessment of crop sustainability by modelling	M^a Rosário Cameira ISA-ULisboa
	Discussion	
15:30 – 16:30	Irrigation requirements modeling in a climate change context	João Rolim ISA-ULisboa
	Discussion and wrap up	



"This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 952396".



УНИВЕРЗИТЕТ У БАЊОЈ ЛУЦИ
UNIVERSITY OF BANJA LUKA

Thursday, September 30, 2021

🕒	TOPIC	WITH
09:30 - 11:00	Sentinel 2 for estimating basal crop coefficients – hands on activity*	Isabel Pôças ForestWISE CoLAB
	Discussion	
11:15 – 12:15	Determination of plant stomata density for different levels of water stress - Hands on activity	Mariana Mota ISA-ULisboa
	Discussion	
	Lunch	
14:30 – 15:30	Application of remote sensing for precision soil and crop management and efficient and sustainable use of water and nitrogen	Milica Čolović CIHEAM-IAMB, University of Bari
	Discussion and wrap up	

*this activity requires the use of a computer with the software QGIS 3.16 (open access) installed
QGIS - version 3.16 (64 bit):

https://qgis.org/downloads/QGIS-OSGeo4W-3.16.10-1-Setup-x86_64.exe

QGIS - version 3.16 (32 bit):

<https://qgis.org/downloads/QGIS-OSGeo4W-3.16.10-1-Setup-x86.exe>

Friday, October 1, 2021

🕒	TOPIC	WITH
09:30 - 10:00	Western Balkans in the spotlight: opportunities for collaborative projects	Rui Munhá PERIN-FCT*
	Discussion	
	Break	
14:30 – 15:30	Writing of peer reviewed scientific publications	David Fangueiro ISA-ULisboa
	Discussion	
	Conclusions and final remarks	

*Portugal in Europe Research and Innovation Network