

VITALISING ICT RELEVANCE IN AGRICULTURAL LEARNING

Project implementation status

Miljan Cvetković, UNIBL



VIRAL

UNIBL, October, 28-29, 2021.

Viral meeting and workshop

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EUROPEAN EDUCATION AND CULTURE EXECUTIVE AGENCY

Ref: Area(2021)4619904 - 16/07/2021
With qualified electronic signature(s)

EACEA.A - Erasmus+, EU Solidarity Corps
EACEA.A.4 - International Capacity Building

Brussels
EACEA.A.4/RR/07200
File code: 2019-1945

Prof. Dr Gajanin RADOSLAV
Rector
Univerzitet U Banjoj Luci
Bulevar Vojvode Petra Bojovica 1A
BiH - 78000 Banja Luka

Email: rektor@unibl.org
Cc: miljan.cvetkovic@agro.unibl.org

Subject: 609755-EPP-1-2019-1-BA-EPPKA2-CBHE-JP (2019-1945)
Technical Implementation Report of the project

Dear Prof. Dr Radoslav,

We would like to inform you and your project partners that we have carried out the assessment of your Technical Implementation Report submitted on 14 June 2021 and we are pleased to inform you that it has been approved.

Our assessment looks at the partnership's performance as regards the efficient implementation of the project. It takes into account the Technical Implementation Report but also the desk monitoring conducted by the EACEA since the start of the eligibility period and, the field monitoring visits carried out so far. The project implementation should not only respect the CBHE requirements but it should also be in line with the original proposal included under Annex I of the Grant Agreement.

In this context and in accordance with the Grant Agreement and the Erasmus+ Programme Guide, your project implementation has been qualified as 'GOOD' (please refer to the Categories of qualification below). The Comments and recommendations sheet in Annex of the letter provides more detailed feedback.

In addition, we remind you that your project is now online on the [Erasmus+ Project Results Platform](#), so as to ensure transparency and visibility of EU funding. We invite you to update your project data and to upload your project results. Please note though that these results will become publicly available only after the validation of your final report by the Agency.

Finally, we would like to thank you for your "Statement on the use of the previous pre-financing instalment and Request for Payment" received on 14 June 2021.

We take this opportunity to remind you that in order to receive your second pre-financing instalment you will have to submit a "Request for Payment and Statement of the Costs incurred", at the latest six months following the end of reporting period one (Art. I.4.1, I.4.2 and I.5.1 of the Grant Agreement).



„VERY GOOD“



EUROPEAN EDUCATION AND CULTURE
EXECUTIVE AGENCY

Ref. Anns(2021)4619904 – 15/07/2021

EACEA.A - Erasmus+ EU Solidarity Corps
EACEA.A.4 - International Capacity Building

Project Implementation Report COMMENTS AND RECOMMENDATIONS

Project Number: 609755-EPP-1-2019-1-BA-EPPKA2-CBHE-IP
Project Title: VITALISING ICT RELEVANCE IN AGRICULTURAL LEARNING
Coordinating Institution: Univerzitet U Banjoj Luci

The project remains relevant for the agricultural sector in the Western Balkans. The introduction of ICT in agriculture remains a priority in the agenda of the sector at regional level. The activities and the expected results respond to the needs at regional level.

COVID 19 outbreak has caused a delay in project implementation. The consortium managed to adapt to the virtual environment quite quickly. A number of workshops and seminars are converted to online modality.

Most of planned activities are achieved according to plan. Adjustments were necessary to allow the conversion of some activities online and the postponement of 3.2 study visits that are as necessary to be carried out in presence.

The most urgent activities to be concluded are those included in Work package 2, in particular: the Creation of University Train of Trainers (ToT) teams, Development of ToT course toolkits, the Development of project application for selected funding schemes; Development of practical guide for the use of ICT in AET, the creation of crash course on ICT in agriculture.

We acknowledge that equipment purchase is in its final steps. We strongly suggest concluding it before the end of the summer to allow the equipment to be used during the implementation period, by the end beneficiaries.

The quality assurance strategy seems complete and it considers internal procedures, methodologies and project deliverables. External evaluation is planned for the project deliverables and is considered an added value.

Concerning the indicators of progress, the list seems to be completed, but unfortunately it was sent in local language. We would be grateful if you could send the list of indicators of progress, translated into English.

The website is attractive and user friendly; it includes all final version documents of the deliverables already concluded. It includes a lot of dissemination and promotion material, leaflets, videos as well as an intense media coverage. Publicity obligations in terms of use of logo and disclaimer are respected.

Cooperation among partners works smoothly; communications methodologies are appropriate. The coordinating institution, although at its first experience as coordinator of CBHE projects is well organised and the overall management (operational as well financial) run smoothly.



The Dissemination strategy is complete, it takes into consideration different methodologies for promotion. Target groups are well defined and specific channels are adopted to reach out to the different stakeholders.

In the first half of the project, dissemination activities have been already intense; we would like to highlight in particular the media coverage and the various videos already available and uploaded on the web site.

At this stage of project implementation, it is evident that the VIRAL project has a great potential to be successful and to register a deep impact as the deliverables respond in concrete terms to the local and regional needs. The involvement of local stakeholders in project activities is paving the way to the sustainability of the results. The situation caused by COVID pandemic has generated a slight delay. The consortium has showed proactivity and adaptation in relation to the conversion into online activities. These are good precondition for a good and smooth continuation.





EUROPEAN EDUCATION AND CULTURE Ref. Area(2021)6516950 - 22/10/2021
EXECUTIVE AGENCY (EACEA) With qualified electronic signature(s)

EACEA.A - Erasmus+, EU Solidarity Corps
EACEA.A.4 - International Capacity Building

Brussels,
EACEA.A4/RR/GJ/en/21D009778
File code: 2019-1945

Prof. Dr Radoslav GAJANIN
Rector
University of Banja Luka
Bulevar Vojvode Petra Bojovica 1A
BA - 78000 Banja Luka

Email: rektor@unibl.org
Cc: miljan.cvetkovic@agro.unibl.org

Subject: Project Number 609755-EPP-1-2019-1-BA-EPPKA2-CBHE-JP
Ref.: Amendment N° 2019 - 1945 / 001 - 002 / Extension of the Eligibility Period

Dear Prof. Dr Gajanin,

Thank you for your letter of 13/09/2021 received by email on 16/09/2021 and for your email of 29/09/2021.

Based on the reasons provided, we can agree to extend the eligibility period of the project by 9 months until 14/08/2023. Please note that this extension is conditional on the achievement of the project's objectives and the respect of the budget allocated to the project. No further extension of the eligibility period will be granted.

The deadline for the submission of the Final Report is now 14/10/2023.

You will find attached an amendment to your Grant Agreement.

Should you require any further information, please contact Jessica Giampaolo (Tel: +32 2 29 80670, e-mail: jessica-rosalba.giampaolo@ec.europa.eu and eacea-eplus-cbhe-projects@ec.europa.eu). We also encourage you to regularly consult our Erasmus+ CBHE website https://eacea.ec.europa.eu/erasmus-plus/beneficiaries-space/capacity-building-in-higher-education_en.

We wish you a successful continuation of your activities.

Yours sincerely,

Qualified electronic signature by:
RALF WILHELM HEINRICH RAHDERS
Date: 2021-10-21 01:45:19 +02:00

Ralf RAHDERS
Head of Unit

Copy by email: NEO Bosnia and Herzegovina: suad.muhibic@erasmusbih.com;
NEO Montenegro: neo@ac.me

ARTICLE I

ARTICLE I.2 – ENTRY INTO FORCE OF THE AGREEMENT AND DURATION OF THE ACTION of the Agreement shall read as follows:

I.2.1 The agreement shall enter into force on the date on which the last party signs.

I.2.2 The action shall run for **45 months** as of **15-11-2019** ("the starting date of the action") and shall end on **14-08-2023**.

ARTICLE II

All the other provisions and annexes of the Agreement and any previous amendments, which are not changed by this amendment shall remain unchanged and shall continue to apply.

ARTICLE III

The present amendment shall form an integral part of the Agreement. It shall take effect on the date of its signature.

SIGNATURE

Qualified electronic signature by:
RALF WILHELM HEINRICH RAHDERS
Date: 2021-10-21 01:44:29 +02:00
Ralf RAHDERS,
Head of Unit

14/08/2023

14/08/2022

Erasmus+ Key Action 2: Cooperation for innovation and the exchange of good practices Capacity Building in the Field of Higher Education

ANNEX VI - STATEMENT ON THE USE OF THE PREVIOUS PRE-FINANCING INSTALLMENT AND REQUEST FOR PAYMENT (SECOND PRE-FINANCING)

Project Number	609755-2018-0A-EPRKAC-CBHE-01		Co-financing (in information only)	14.464.00
Budget Headings	1. Grant Awarded (in EUR)	2. Budget spent (in EUR)	3. Pre-financing paid (in EUR) 90% of Grant Awarded	144.120.00
1. Grant Awarded (in EUR)	144.120.00	144.120.00	129.708.00	
2. Budget spent (in EUR)	144.120.00	144.120.00	129.708.00	
3. Pre-financing paid (in EUR) 90% of Grant Awarded	129.708.00	129.708.00	129.708.00	
4. Unpaid pre-financing (in EUR)	14.412.00	14.412.00	14.412.00	

40%

Browser tabs: FW: 609755 RE: VIRAL_second pr... | 609755 Comments and recomm... | 609755_TR- feedback Letter.pdf

Address bar: mail.google.com/mail/u/0/#search/EACEA-EPLUS-CBHE-PROJECTS%40ec.europa.eu/FMfcgzGikPcnVTKkbrdCThfZWRfWksz

Gmail interface: Search: EACEA-EPLUS-CBHE-PROJECTS@ec.europa.eu | Active | 2 of many

- Mail
- Inbox 869
- Starred
- Snoozed
- Sent
- Drafts 75
- VIRAL
- More

Prof.dr Miljan Cvetković

4 Attachments

- VIRAL_Request for ...
- Viral_INTERNATIO...
- VIRAL_Request for ...

EACEA-EPLUS-CBHE-PROJECTS@ec.europa.eu to me

Fri, Oct 22, 8:21 AM (4 days ago)

Dear Prof.dr Miljan Cvetković

Well received

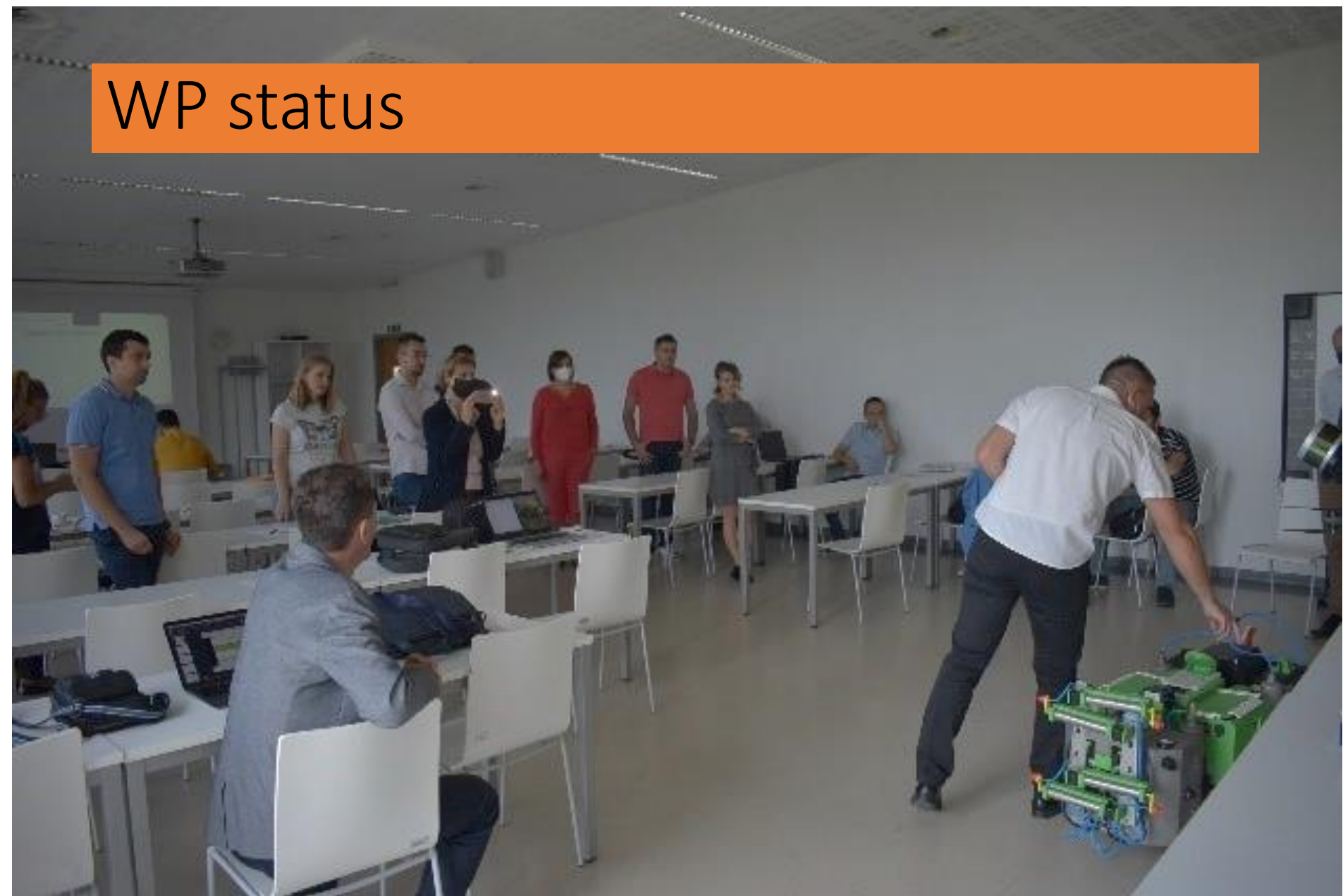
All the best

Teresa Romano

Windows taskbar: Search, Task View, Edge, Mail, WhatsApp, File Explorer, Word, Excel, Chrome, PowerPoint, System tray (6°C Clear, SRP, 10:58 PM 10/26/2021)



WP status



WP	Outcome	Description (from the project application)	Status	Due date (project application)	Delay	On time
			completed			
			ongoing			
			not started			
WP1	1.1.	Comparative analysis report with recommendations		12/31/2019		
	1.2.	Needs assessment/knowledge transfer update report		12/31/2019		
	1.3.	Web portal		1/31/2020		
	1.4.	Introduction conference		1/31/2020		

WP1.1. Comparative analysis report ([link](#))

WP1.2. Needs assessment report ([link](#))

Both reports were carried out. The input data was collected through the questionnaire surveys which were carried out in all participating countries (BA, ME, RS, SI, RO, NL). Surveyed population include: 256 farmers, 89 extension service providers, 164 professors i 643 students.

WP1.3. Web <http://viralerasmus.org/>

WP1.4. Introduction conference ([link](#)), ([link](#)), ([link](#))

Completed

COMPARATIVE ANALYSIS OF
UNIVERSITY-BUSINESS
COOPERATION IN AGRICULTURE
IN THE WESTERN BALKANS AND
EU AND DEVELOP POLICY
RECOMMENDATIONS

VIRAL
WP 1.1. REPORT

NEEDS
ASSESSMENT/KNOWLEDGE
TRANSFER UPDATE REPORT

VIRAL
WP 1.2 REPORT

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WP	Outcome	Description (from the project application)	Status	Due date (project application)	Delay	On time
			completed			delay
			ongoing			on time
			not started			
WP2	2.1.	Improved competences of use of ICT in agriculture a) educational seminar on use of ICT in agriculture which will be held in Wageningen, NL b) 1 st training on use of robotics and drones which will be held in Podgorica (Mostar) c) 2 nd training on use of mobile applications and GIS, which will be held in Tuzla		2/28/2020		
	2.2.	Purchased and installed equipment		5/31/2020		
	2.3.	Created University ToT teams		10/14/2020		
	2.4.	ToT course toolkits		10/14/2020		
	2.5.	Project applications for selected funding schemes		3/31/2022		
	2.6.	Practical Guide for the use of ICT in AET		12/14/2020		
	2.7.	Crash course on ICT in agriculture		2/28/2021		

WP2.1. Educational seminar on ICT in agriculture

Introduction seminar on ICT in agriculture was prepared and delivered by WU online. 87 persons applied and 77 attended the seminar. ([link](#))

Architecting IoT-based Farm Management Information Systems



WP2.2. Training sessions

First ToT training session focusing on training in ICT and agriculture, was held in Tuzla. 47 persons attended the training, out of which 25 were online ([link](#)).



Second ToT training session focusing on training in ICT and agriculture, was held in Mostar. 39 persons attended the training, out of which 16 were online ([link](#)).



WP2.3. Creation of University ToT

Following the completion of 2 training sessions cross-institutional ToT teams of educators were constituted for all 5 disciplines: IoT; Mobile Applications; Drones in Agriculture; Robotics in Agriculture; GIS

Completed

GIS team of trainers			
	Name and surname	Academic title	E-mail address
University of Donja Gorica	Milan Šipka	Teaching assistant	milan.sipka@agro.unibl.org
University of Tuzla "Džemal Bijedić"	Emina Bajraktarević	Teaching assistant	emina.bajraktarevic@fet.ba
University of Mostar	Aleksandra Šupljeglav	Teaching assistant	aleksandra@unmo.ba
University of Mostar	Antonio Stipanović	Associate, MSc	antonio.stipanovic@aptf.sum.ba
University of Donja Gorica	Tomo Popović	Assistant professor	tomo.popovic@udg.edu.me
University of Donja Gorica	Stevan Čakić	Research assistant	stevan.cakic@udg.edu.me
University of Bijeljina	Miroslav Nedeljković	Assistant professor	miroslav.nedeljkovic.bn@gmail.com
University of Agronomic Sciences and Veterinary Medicine of Bucharest	Doru Mihai	Professor	doru.mihail@gmail.com
University of Agronomic Sciences and Veterinary Medicine of Bucharest	Cristian Moise	Lecturer	cristian.moise@rosa.ro

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WP2.6. Practical Guide for the use of ICT in AET

Practical guide for the use of ICT in agriculture in English ([link](#))

Practical guide for the use of ICT in agriculture in Serbian ([link](#))

Practical guide for the use of ICT in agriculture in Croatian ([link](#))

Practical guide for the use of ICT in agriculture in Bosnian ([link](#))

Practical guide for the use of ICT in agriculture in Montenegrin ([link](#))

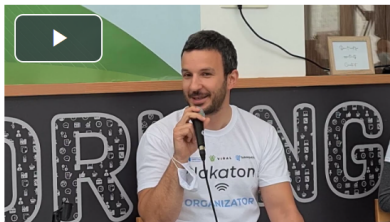


WP2.7. Creation of crash course on ICT in agriculture

In the period covered by this report the structure of the crash courses has been developed. The structure covers 5 specific fields: IoT; Mobile Applications; Drones in Agriculture; Robotics in Agriculture; GIS). The structure of each specific field has also been developed, along with design and training materials for educators and learners.

<http://viralerasmus.unibl.org/moodle/>

Ongoing...



Poštovane kolege studenti,

Informaciono-komunikacione tehnologije su veoma značajne i u poljoprivrednoj proizvodnji.

Uloga informaciono-komunikacionih tehnologija (IKT) u poljoprivredi je poslednjih godina znatno porasla i razmerom i područjem primene. Proširenje opsežne povezanosti, sve veća primena "interneta stvari" (IoT), poboljšana analitika, pristupačniji uređaji i inovativne aplikacije, osnova su onoga što danas nazivamo digitalnim društvom.

Iskorišćavanje napretka i inovacija u IKT-u postaje sve značajnije dok tražimo načine za ublažavanje nekih izazova s kojima se suočava poljoprivreda, u svetu u kojem moramo proizvesti 60 posto više hrane do 2050 (FAO, 2017).

Promena paradigme u poljoprivredi se već odavno dogodila. Otvaraju se nove mogućnosti za efikasnije, produktivnije i u mnogim aspektima, održivo upravljanje poljoprivrednim gazdinstvima. U budućnosti poljoprivrede, nove tehnologije neće biti pitanje, već odgovor na suočavanje sa različitim izazovima.

U cilju da bar malo približimo neke vrste informaciono-komunikacionih tehnologija i mogućnost njihove primene u poljoprivredi, pripremili smo za vas ovaj kurs. On ima za cilj da vas upozna sa osnovama "interneta stvari" (IoT), mobilnih aplikacija, dronova, GIS i robotike i mogućnostima njihove primene u poljoprivrednoj proizvodnji.

Kurs su pripremile kolege sa tehničkih fakulteta Univerziteta u Banjoj Luci, Univerziteta u Tuzli, Univerziteta u Donjoj Gorici i Univerziteta u Mariboru uz podršku svojih kolega sa poljoprivrednih fakulteta istih univerziteta. Značajnu podršku u izradi kursa dale su i kolege sa Univerziteta u Vageningenu.

Polaznici koji odslužaju čitav kurs i uspešno odgovore na prateća pitanja uz svaku od celina, dobijaju i sertifikat o položenom kursu. Nadamo se da će on kao oblik dodatnog obrazovanja biti od značaja u vašem daljem radu i zapošljavanju.

Najviše se ipak nadamo, da će vam kurs biti interesantan i da će vas potaknuti na razmišljanje o mogućnostima koje informaciono-komunikacione tehnologije nude u poljoprivredi.



Senzori

Course >



Komunikacijski sistemi

Course >



IoT sistemi

Course >



GIS

Course >



Mobilne aplikacije

Course >



Dronovi u poljoprivredi

Course >



Robotika

Course >



PDF materijali

Course >

		completed					delay
		ongoing					on time
		not started					
WP	Outcome	Description (from the project application)	Status	Due date (project application)	Delay	On time	
WP3	3.1.	Improved teachers and students knowledge on student pitching competitions – hackatons		4/30/2020			
	3.2.	Implemented student pitching competitions - hackatons		8/31/2022			
	3.3.	Video compendium		10/31/2021			

WP.3.1. DEVELOPMENT OF STUDENT PITCHING COMPETITIONS – HACKATONS

Video guide for organizing student pitching competitions ([link](#))

Guidelines for organizing student pitching competitions ([link](#))

Manual for organizing student pitching competitions ([link](#))



Completed



www.viralerasmus.org
viral.erasmus@unibl.org

The total of **18,100 EUR** raised from businesses by project partners for rewards.



Completed

FW: 609755 RE: VIRAL_second pr x Preuzimanja – Viral












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VIRAL

NOVOSTI IKT U POLJOPRIVREDI **PREUZIMANJA** KONTAKT

Title	Update Date	Download
 Banja Luka Hackathon	04/10/2021	DOWNLOAD
 Banja Luka aftermovie	04/10/2021	DOWNLOAD
 Compendium_08_Mechanic Crops	04/10/2021	DOWNLOAD
 Compendium_07NK_Go Digital	04/10/2021	DOWNLOAD
 Compendium_06NK_Demetra	04/10/2021	DOWNLOAD
 Compendium_05MO_Green	04/10/2021	DOWNLOAD
 Compendium_04MO_Mechanic Crops	04/10/2021	DOWNLOAD
 BL_Compendium_03MO_Mechanic Crops	04/10/2021	DOWNLOAD
 BL_Compendium_02MO_Mechanic Crops	04/10/2021	DOWNLOAD
 Compendium_03BL_Full Stack	04/10/2021	DOWNLOAD
 Hakaton Niskic after movie	25/06/2021	DOWNLOAD

Completed

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WP	Outcome	Description (from the project application)	Status	Due date (project application)	Delay	On time
			completed			delay
			ongoing			on time
			not started			
WP4	4.1.	Improved knowledge on university-business cooperation		6/30/2020		
	4.2.	Set of EXPO founding documents, guidelines and materials		3/31/2021		
	4.3.	Constituted EXPO managing structures and plan of work		3/31/2021		
	4.4.	Organized EXPO		8/31/2022		
	4.5.	EXPO membership extended				

WP4.1. Introduction seminar on university-business cooperation

The Introduction academic-business cooperation (ABC) seminar was held online via ZOOM with participation of more than 60 professors, business representatives and stakeholders ([link](#)).

Academy-Business Cooperation
(ABCoolab)

Introduction Workshop

Improving knowledge on university-business cooperation



VIRAL



Development workshops on university-business cooperation

Chamber of Commerce and Industry of the Republic of Serbia and participants in the “Scaleup4europe” project ([link](#)).

Developing a model of a multifunctional robot for use in protected areas ([link](#)).

HORIZON 2020 project “Scaleup4europe” ([link](#)).

Project AgroLIFE is funded by GIZ (German Technical Assistance Agency) and implemented by the International Alliance for Local Economic Cooperation) and TeleGroup doo ([link](#)).

Cooperation agreement in the field of ICT application in agriculture was signed between the Faculty of Agriculture, University of Banja Luka, and the Association for Unmanned Systems in Agriculture and Agrobotron Consortium ([link](#)).

Ongoing...





SPORAZUM

O SARADNJI U OBLASTI ORGANIZOVANJA

SmAgTECH EXPO

S obzirom na to da potpisnice predstavljaju konsorcijskim visokoškolskim institucijama, privrednim društvima, udruženjima i fondacijama, koji učesnicima i podržavaju istraživačke, međunarodne projekte pod nazivom "VITALIZING ICT RELEVANCE IN AGRICULTURAL EDUCATION AND LEARNING", izrazili su: "VIRAL", koji finansira EU u okviru programa ERASMUS+ KA2 CBHE.

S obzirom na to da projekat ima za cilj da osnaži kapacitete visokoškolskih institucija na Zapadnoj Balkanu da aktivno doprinesu primeni ICT tehnologija u poljoprivredi.

S obzirom na to da istraživanja i analize identifikuju potrebu u zemljama Zapadnog Balkana za većim stepenom saradnje između aktera u oblasti poljoprivrede i aktera u oblasti razvoja novih tehnologija.

Potpisnice su se sporazumela o sledećem:

Predmet Sporazuma

Član 1.

Ovim Sporazumom uređuje se osnivanje SmAgTECH EXPO-a, organizacije koja će biti sastavljena od članova SmAgTECH EXPO-a, saradnja institucija u organizovanju SmAgTECH EXPO-a, i druga bitna pitanja od značaja za održavanje SmAgTECH EXPO-a.

Uspostavljanje SmAgTECH EXPO-a

Član 2.

Ovim Sporazumom potpisnice uspostavljaju SmAgTECH EXPO kao oblik saradnje između institucija iz akademskog, biznis i javnog sektora za promociju primene



informaciono-komunikacionih tehnologija u poljoprivrednoj proizvodnji i srodnim poljima primene.

SmAgTECH EXPO se uspostavlja kao koncept koji čine vertikalni i horizontalni sadržaji.

Vertikalni sadržaji su: konferencijski segment, izlagački segment, berza zapošljavanja i takmičarski takson.

Horizontalni sadržaji su: upravljačka i radna tela i administrativna jedinica.

Svrha i ciljevi SmAgTECH EXPO-a

Član 3.

SmAgTECH EXPO se organizuje kao godišnji događaj na svrhu da okupi i umozri različite grupe aktera aktivnih u razvoju na području Zapadnog Balkana.

Ciljevi SmAgTECH EXPO-a su da:

- » Promovira trendove u poljoprivrednoj proizvodnji i razvoju novih tehnologija i aktera koji razvijaju istraživačke kapacitete u oblasti poljoprivrede i razvoja novih tehnologija
- » Doprinosi ostvarenju ciljeva aktera, naučice i akademske zajednice u oblasti poljoprivrede i razvoja novih tehnologija, kao i njihovoj međusobnoj saradnji
- » Doprinosi stvaranju studenata za rad u realnom radnom okruženju u oblasti poljoprivrede i razvoja novih tehnologija



Principi SmAgTECH EXPO-a

Član 4.

SmAgTECH EXPO se razvija na sledećim opštim pravilima:

- **Dobrovoljnost** – učesnici u organizaciji i realizaciji SmAgTECH EXPO-a čine to dobrovoljno.
- **Otvorenost** – SmAgTECH EXPO je otvoren za sve institucije i pojedince koji žele da učestvuju u ostvarenju ciljeva SmAgTECH EXPO-a
- **Apolitičnost** – SmAgTECH EXPO se organizuje kao apolitičan događaj koji ne promovira delovanje i programe političkih stranka i pokreta



SmAgTECH EXPO se organizuje da bi neposrednim prikupio, uspostavio saznanja o tehnološkim trendovima i proizvodnji hrane, da bi studentima omogućio da se uključe u istraživačke projekte i da bi javnoj upravi, obrazovnom sistemu i nauci omogućio da se povežu i ostvare praktičnu saradnju.

Samoodrživost – SmAgTECH EXPO se organizuje kao samoodrživ događaj koji takođe u vezi sa organizacijom događaja namiruje iz sopstvenih prihoda SmAgTECH EXPO-a.

Članstvo u SmAgTECH EXPO-u

Član 5.

SmAgTECH EXPO ima članstvo koje čine osnivači i pravna lica koja su naknadno pristupila, a koji su u pogledu prava i obaveza međusobno jednaki.

Član SmAgTECH EXPO-a može postati visokoškolska institucija, privredno društvo, privredna komora, zadruga, udruženje, fondacija, opština, grad, kanton i županija, koji prihvataju ciljeve, principe i Pravilnik o radu SmAgTECH EXPO-a.

O zahtevu odlučuje Bord SmAgTECH EXPO-a.

Članstvo u SmAgTECH EXPO-u je dobrovoljno.

Članstvo u SmAgTECH EXPO-u može prestati:

- Istupanjem člana
- Isključenjem člana
- Konstatovanjem prestanka postojanja člana.

Mogućnosti za članova SmAgTECH EXPO-a

Član 6.

Član SmAgTECH EXPO-a ima mogućnost da:

- Bude bitan u radna tela SmAgTECH EXPO-a
- Bude bitan za administrativnu jedinicu SmAgTECH EXPO-a
- Učestvuje u aktivnostima i događajima koji se organizuju u okviru SmAgTECH EXPO-a
- Doprinosi ostvarenju ciljeva SmAgTECH EXPO-a u skladu sa svojom poslovnom politikom.

Horizontalni sadržaji - upravljačka i radna tela

Član 7.





PRAVILNIK O RADU

SmAgTECH EXPO-a

Član 1.

SmAgTECH EXPO je uspostavljen kao oblik saradnje institucija iz akademskog, biznis i nevladnog sektora za promociju primene informaciono-komunikacionih tehnologija u poljoprivrednoj proizvodnji i sredstva poljinske primene.

SmAgTECH EXPO je uspostavljen kao koncept koji čine vertikalni i horizontalni sadržaji.

Vertikalni sadržaji su: konferencijski segment, izlagački segment, berza zapošljavanja, i takmičarski bakat.

Horizontalni sadržaji su upravljačka i radna tela i administrativna jedinica.

Svrha i ciljevi SmAgTECH EXPO-a

Član 3.

SmAgTECH EXPO se organizuje kao godišnji događaj regionalnog karaktera sa svrhom da okupi i umreži različite grupe aktera aktivnih u poljoprivredi i tehnološkom razvoju, na području Zapadnog Balkana.

Ciljevi SmAgTECH EXPO-a su da:

- » Promovise trendove u primeni novih IKT tehnologija u poljoprivrednoj proizvodnji
- » Doprinosi boljem informisanju aktera u poljoprivredi, studenata i aktera koji razvijaju nova tehnološka i praktična saznanja u oblasti poljoprivrede i primene IKT tehnologija
- » Doprinosi boljoj povezanosti poljoprivrednih aktera, naučne i stručne zajednice i aktera koji razvijaju nova tehnološka, kao i njihovu razmenu informacija, ideja i inicijativa
- » Doprinosi boljoj osposobljenosti studenata za rad u realnom sektoru i za primenu IKT tehnologija u poljoprivredi



- » Promovise veću efikasnost poljoprivredne proizvodnje upotrebom IKT tehnologija.

Principi SmAgTECH EXPO-a

Član 4.

SmAgTECH EXPO se zasniva na sledećim opštim pravilima:

- **Dobrovoljnost** – učesnici u organizaciji i realizaciji SmAgTECH EXPO -a čine to dobrovoljno,
- **Otvorenost** – SmAgTECH EXPO je otvoren za sve institucije i pojedince koji žele učestvovati u ostvarenju ciljeva SmAgTECH EXPO-a
- **Apolitičnost** – SmAgTECH EXPO se organizuje kao apolitičan događaj koji ne promovira delovanje i programa političkih stranaka i pokreta
- **Praktičnost** – SmAgTECH EXPO se organizuje da bi neposredno proizvođačima omogućio da prikupi najnovija saznanja o tehnološkim inovacijama u poljoprivredi i proizvodnji hrane, da bi studentima omogućio bolja osposobljavanje za rad u struci, preduzetništvo i učestvovanje u poslovnim procesima, i da bi javnoj upravi, obrazovnim institucijama omogućio da steknu uvid u potrebe neposrednih proizvođača i omogućio da se povežu i otvore praktičnu saradnju
- **Samedrživost** – SmAgTECH EXPO se organizuje kao zajednički projekt koji raspodele u vezi sa organizacijom i realizacijom SmAgTECH EXPO-a.

SmAgTECH EXPO se organizuje kao zajednički projekt svih pravnih lica koja su zakonodavno priznata i imaju prava i odgovornosti u skladu sa svojim ustrojstvom i ciljevima.

SmAgTECH EXPO se organizuje kao zajednički projekt svih pravnih lica koja su zakonodavno priznata i imaju prava i odgovornosti u skladu sa svojim ustrojstvom i ciljevima.

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Član 6.

Str: 2 od 5

- Član SmAgTECH EXPO-a
- Bira i buda biračima SmAgTECH EXPO-a
 - Bude biračima SmAgTECH EXPO-a
 - Učestvuje u organizaciji u okviru SmAgTECH EXPO-a

Član SmAgTECH EXPO-a

Član SmAgTECH EXPO-a

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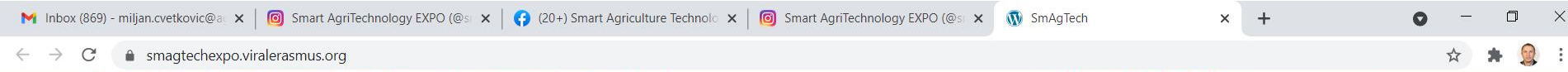
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Član SmAgTECH EXPO-a

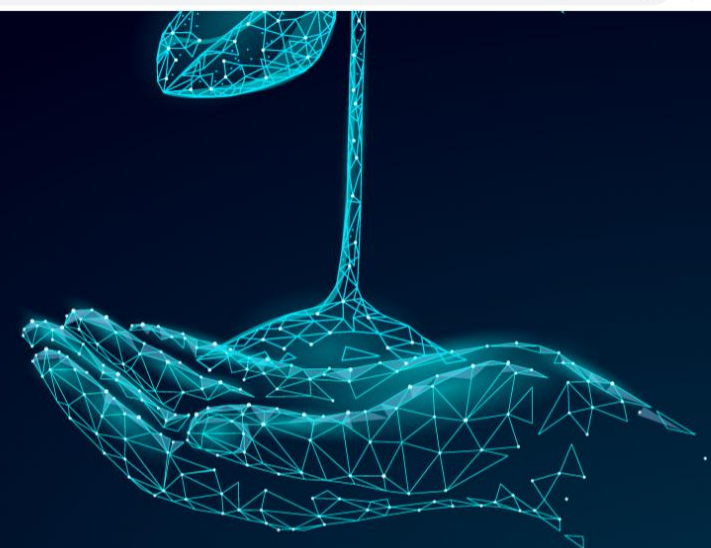
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SMAG TECH EXPO

SMART AGRITECHNOLOGY EXPO

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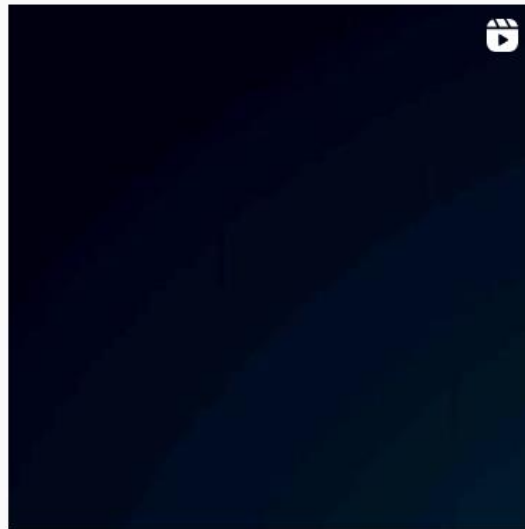
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SMART AGRITECHNOLOGY EXPO

FOOD INNOVATION | VIRAL | Co-funded by the European Programme of the European Union

 Food quality and safety - Centre of Excellence (FoodHub)	 Automation and Robotics in the Food Industry	 Software solutions for risk assessment - Application of digital tools	 Food safety risk assessment
DR. ALEK SANDRA MARTINOVIC Professor and Director of the Centre of Excellence (FoodHub)	PROF. DR. IG. MIRJANA GURLIN Department of Process Engineering, Faculty of Technical Science, University of Novi Sad	ANDREA MILAGLIO Visiting researcher, University of Zagreb, Centre of Excellence (FoodHub)	AMEL ORAHOVIC Visiting researcher, University of Zagreb, Centre of Excellence (FoodHub)

17 November 2021 10-12 CET

37 Izlagača exhibitors | Prilike za privrednike i studente Opportunities for businessmen and students

Registracija / Register smagtechexpo.vratarasmsuz.org

SmAgTech EXPO
SMART AGRITECHNOLOGY EXPO

FOOD INNOVATION | VIRAL | Co-funded by the European Programme of the European Union

PRIMARY SESSION:
OPTIMIZING FRUIT TREE ARCHITECTURE FOR PRODUCTION EFFICIENCIES, ICT ADAPTATION, HIGH YIELDS AND PREMIUM QUALITY FRUIT

GOVERNOR / SPEAKER: **GREGORY LANG, PROFESSOR**
Michigan State University

Moderator: **ALMA ŠEĆERBEGOVIĆ, DR**
VIRAL project

16 November 2021 12:30-13:00 PM CET

37 Izlagača exhibitors | Prilike za privrednike i studente Opportunities for businessmen and students

Registracija / Register smagtechexpo.vratarasmsuz.org

SmAgTech EXPO
SMART AGRITECHNOLOGY EXPO

FOOD INNOVATION | VIRAL | Co-funded by the European Programme of the European Union

PRIMARY SESSION:
DIGITAL TRANSFORMATION OF SERBIAN AGRICULTURE

GOVERNOR / SPEAKER: **OSKAR MARKO PHD**
Assistant Director at BioSense, co-founder of Cropit

Moderator: **ALMA ŠEĆERBEGOVIĆ, DR**
VIRAL project

16 November 2021 12:00-12:30 PM CET

37 Izlagača exhibitors | Prilike za privrednike i studente Opportunities for businessmen and students

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SmAgTech EXPO
SMART AGRITECHNOLOGY EXPO

FOOD INNOVATION | VIRAL | Co-funded by the European Programme of the European Union

PRIMARY SESSION:
PRECISION AGRICULTURE BOTTLENECKS AND OBSTACLES FOR ITS EXTENSIVE DEPLOYMENT

GOVERNOR / SPEAKER: **BORIS ANTIĆ ASSISTANT PROFESSOR**
Faculty of Technical Science, University of Novi Sad

Moderator: **ALMA ŠEĆERBEGOVIĆ, DR**
VIRAL project

16 November 2021 11:30-12:00 PM CET

37 Izlagača exhibitors | Prilike za privrednike i studente Opportunities for businessmen and students

Registracija / Register smagtechexpo.vratarasmsuz.org

SmAgTech EXPO
SMART AGRITECHNOLOGY EXPO

FOOD INNOVATION | VIRAL | Co-funded by the European Programme of the European Union

PRIMARY SESSION:
DIGITAL TWIN PATTERNS FOR PRECISION AGRICULTURE

GOVERNOR / SPEAKER: **BEDIR TEKINERDOGAN PROF.DR.IR**
Wageningen University & Research

Moderator: **ALMA ŠEĆERBEGOVIĆ, DR**
VIRAL project

16 November 2021 11:00-11:30 PM CET

37 Izlagača exhibitors | Prilike za privrednike i studente Opportunities for businessmen and students

Registracija / Register smagtechexpo.vratarasmsuz.org

EXPO in numbers:

- 17 – Consortium members
- 20 – Companies from Agriculture or ICT
- 12 – Projects related the ICT in Agriculture
- 1 – Plenary session
- 5 – Topic sessions
- 20 – Speakers
- 3 – EXPO friends



		completed				delay
		ongoing				on time
		not started				
WP	Outcome	Description (from the project application)	Status	Due date (project application)	Delay	On time
WP5	5.1.	Improved student employability		3/31/2022		
	5.2.	Improved knowledge of extension service providers about ICT in agriculture		3/31/2022		
	5.3.	Improved knowledge of agronomists and agriculture cooperatives about ICT in agriculture		3/31/2022		
	5.4.	Improved knowledge of policy makers about ICT in agriculture		3/31/2022		
	5.5.	Improved knowledge of agriculture businesses about ICT in agriculture		3/31/2022		

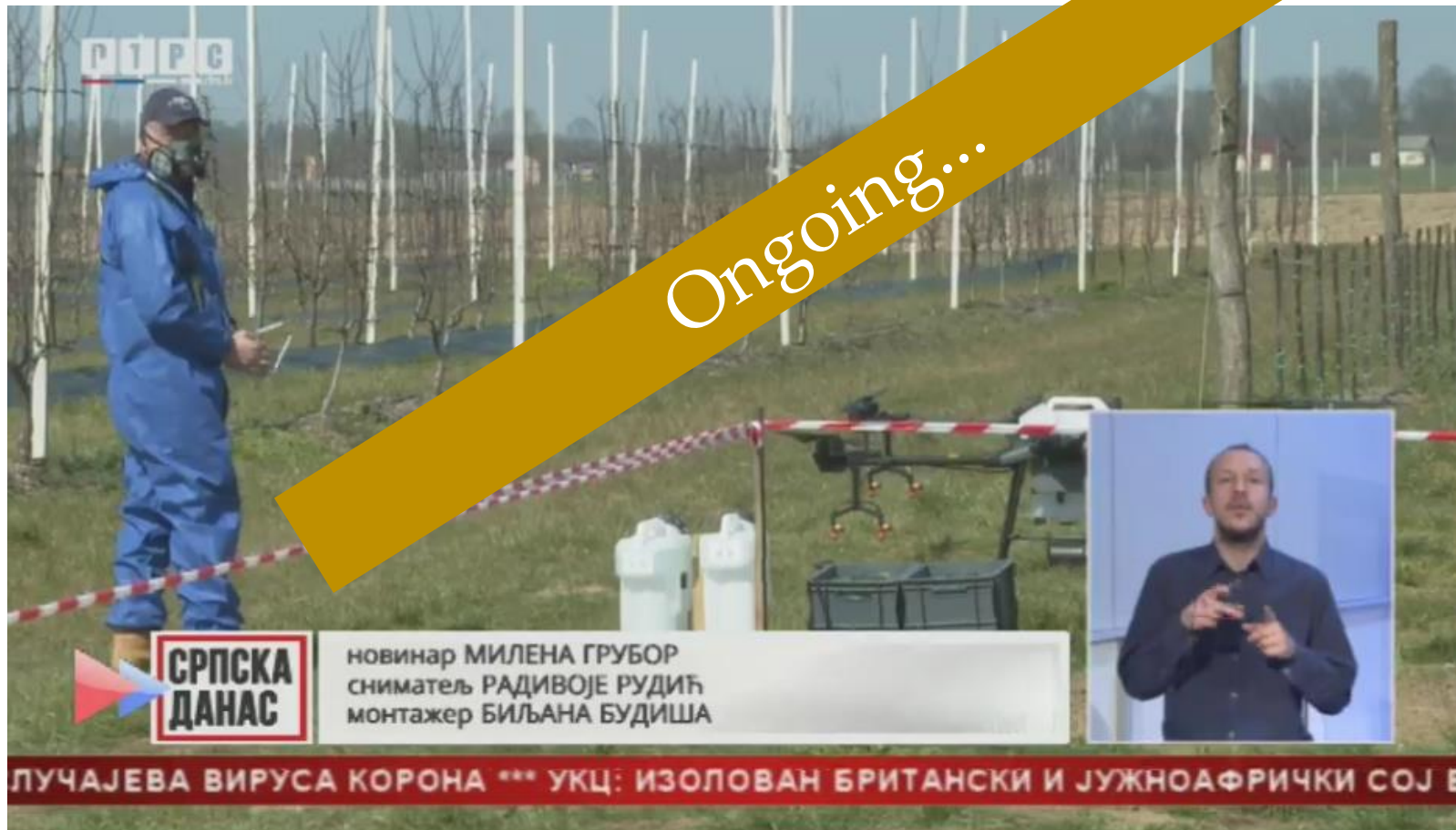
WP5.1. Implementation of student crash courses

Agrodrone lecture for students about the use of drones in agriculture ([link](#))



WP5.2. Knowledge transfer seminar for extension service providers

On 26/03/2021 within the VIRAL project, the Faculty of Agriculture of the University of Banja Luka and the Ministry of Agriculture, Forestry and Water Management of the Republic of Srpska organized the practical demonstration of the use of drones for extension service providers ([link](#)). The activity is realized in cooperation with the company "Agrodron" from Serbia and "Agro" from Laktaši. More information is available at the following ([link](#)).



WP5.3. Knowledge transfer seminar for agriculture businesses

The seminar about the challenges of agricultural production in 2021, was organized by the Faculty of Agriculture of the University of Bijeljina on 10/03/2021 within the "Viral" project and co-organized by the Ministry of Agriculture, Forestry and Water Management of Republika Srpska and the City of Bijeljina. The seminar was attended by more than 50 participants, mostly farmers from Bijeljina. More information is available at the following ([link](#)).



WP	Outcome	Description (from the project application)	Status	Due date (project application)	Delay	On time
			completed			delay
			ongoing			on time
			not started			
WP6	6.1.	Ensured high quality implementation & results		10/14/2022		
	6.2.	Progress evaluation reports		12/31/2021		
	6.3.	External evaluation report		10/14/2020		
	6.4.	Auditing report		10/14/2022		

		completed							
		ongoing							
		not started							
WP	Outcome	Description (from the project application)	Status	Due date (project application)	Delay	On time			
WP7	7.1.	Updating of web portal		10/14/2022					
	7.2.	Wider audience at home institution aware of the project		3/31/2021					
	7.3.	Small-scale improvements in agriculture teaching practice		4/30/2022					
	7.4.	Disseminated project results		10/14/2022					

Project dissemination

Ongoing...

31/05/2021

Presentation of results of the work of the Viral project at the MECO conference 2021

This year, the VIRAL project will be presented at the MECO conference. Project partners from the company "13. Jul Plantaže", Montenegrin Association for New Technologies (MANT), University of Donja Gorica and University of Banja Luka, present a paper entitled **"A Feasible IoT-Based System for Precision Agriculture"**. The paper presents the development of the application of digital technologies in the field of agriculture, with new applications and design solutions, which contributes to the application of technologies that support smart computers. The authors of the paper are Radovan Stojanović, Vesna Maraš, Sanja Radonjić, Anita Martić, Jovan Durković, Katarina Pavićević, Vasilije Mirović and Miljan Cvetković.

X Mediterranean Conference on Embedded Computing Systems (MECO) will be held from 7-10 June 2021 in Budva. The Conference is attended by

31/05/2021
Alisa Hadžićević presented the results of the research within WPI at the Agros 2021 conference

31/05/2021
ICT in agriculture is an important but still underdeveloped segment

31/05/2021
VIRAL workshop – The role and importance of ICT in Agriculture future development

26/05/2021
Panel section on the use of ICT in agriculture at Agros 2021

26/05/2021
Research within WPI will be presented at the Agros 2021 conference

		completed				delay
		ongoing				on time
		not started				
WP	Outcome	Description (from the project application)	Status	Due date (project application)	Delay	On time
WPS	8.1.	Project kick off meeting held, enhanced competences of project teams to manage EU grants		31.11.2019		
	8.2.	Project implementation Manual		2/28/2020		
	8.3.	Smooth project management, administration and reporting ensured		10/14/2022		

...equipment...

...training toolkits...

...crash course...

...project application...

...regional hakaton...

...EXPO x 2...

...trainings...

...dissemination...

... small-scale improvements...

...traveling to...



...reporting...

...reporting...

...reporting...

...reporting...

...reporting...

THERE IS - * -
always
always
— something to be —
THANKFUL FOR

Thank you !



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