

Bijeljina University, Bijeljina – Educational seminar and training on the use of unmanned aerial vehicles in agriculture

(WP5, WP7) 10th March, 2021.

Minutes

Recognizing the need to get acquainted with the goals of the VIRAL project, and to disseminate (dissemination) its significance, a seminar for agricultural producers and other stakeholders in agriculture and agribusiness entitled: "Challenges of agricultural production in 2021" was held. It was organized on March 10th, 2021 at the Faculty of Agriculture, Bijeljina University starting at 10:00.

The seminar was primarily intended for agricultural producers, the business sector in the field of agriculture, advisors as well as other individual and economic entities in the field of agriculture. The organizer of the seminar was the Bijeljina University. Participants were informed in advance about the most important details of the meeting through its program. The activity was realized within the Erasmus + VIRAL project, within the work package five, which includes introduction and education of ICT in the field of agriculture.

There were 48 participants which are employees of the Bijeljina University, representatives of local agricultural institutions that cooperate with the University (Department of Agriculture, Agrarian Fund), representatives of the City of Bijeljina (the mayor), representatives of the project VIRAL, representatives of the Administration of Bosnia and Herzegovina for Plant Health Protection, representatives of the Republic of Srpska Ministry of Agriculture, Forestry and Water Management, numerous individual agricultural producers from the municipality of Bijeljina, and their representatives organized in professional associations. With the consent of all participants, the materials from the seminar can be used for further distribution and popularization of this topic.



The lecturers were professors from the Bijeljina University, the University of Belgrade, the University of Banja Luka, and representatives of the company in the field of precision agriculture (UAV-drones). At the very beginning of the meeting, the lecturers and participants were greeted and welcomed by the director of the Bijeljina University, Boro Krstić, PhD. In the continuation, the welcoming speech was given by the mayor, Ljubiša Petrović, then the director of the Administration of BiH for Plant Health Protection, Goran Perković, PhD, one of the participants of the VIRAL project, Aljo Mujčić, PhD, from the Faculty of Electrical Engineering in Tuzla, as well as the representative of the Ministry of Agriculture, Forestry and Water Management of the Republic of Srpska, Zoran Maletić.



Photos 1-4. Welcoming speeches by representatives of institutions, hosts and Bijeljina's mayor



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According to the agenda, 4 topics in the field of agricultural education were presented during the seminar:

Grigorije Trifunović, professor emeritus

Possibilities of intensifying milk production in cattle breeding in Semberija



Gorica Cvijanović, PhD

The importance of microorganisms in agricultural production





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Željko Dolijanović, PhD

Special cultivation systems in order to increase the sustainability of field production



Momir Alvirović, Milan Šipka, Đurađ Hajder

Application of unmanned aerial vehicles in precision agriculture and regular agricultural production



The lecturers gave their lectures using appropriate presentations. They strictly adhered to the scheduled time for presentation, which was of special importance for the dynamics of the meeting.

Grigorije Trifunović pointed out the ways of intensifying milk production in cows and presented several purposeful suggestions on how to achieve them. Particular emphasis was placed on the area of Semberija.



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Through a presentation, Gorica Cvijanović showed all the importance of microorganisms in agricultural production, their role and effect.

Željko Dolijanović showed how certain alternative cultivation systems can greatly influence the sustainability of field production, and he presented the ways of their introduction into modern agricultural production.

Momir Alvirović, from the Agrodron company, spoke about the practical aspects of the application of drones in agriculture, with a special emphasis on field production, which is one of the leaders in the area of Semberija.



Photos 5-8. Practical demonstration of the use of drones in plant protection

In the second part of the work activities, participants had the opportunity to see a practical demonstration of the use of unmanned aerial vehicles in remote detection and treatment of protection against diseases and pests, which was performed by representatives of Agrodron team from Belgrade.



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All lecturers expressed interest in further cooperation with stakeholders through additional communication.

The most significant results of the dissemination meeting can be listed as it follows:

- ³ the meeting enabled the participants to get acquainted with the latest achievements in the field of ICT from renowned lecturers;
- ^d the meeting enabled participants to get acquainted with the importance of participating in the project for further scientific and research development of the University;
- ³ the participants were introduced to the basic goals of the VIRAL project and the expected activities in the coming period;
- ³ the participants had the opportunity to attend the practical application of modern methods (drones) in agricultural production, crop detection and protection;
- contact was established for all those interested in further cooperation and development of new ideas and common activities.

Numerous media reports, which can be found at the following links, also testify about the importance of the meeting:

https://mondo.ba/Info/Drustvo/a1029911/Bespilotne-letjelice-u-poljoprivredi-Dronovi-svevide.html

https://www.youtube.com/watch?v=e6w1IlwfCF0

https://ntvarena.com/predstavljena-inovacija-bespilotnih-letjelica-koje-bi-detektovala-probleme/ https://www.rtvbn.com/4002183/naucna-dostignuca-vazna-za-svakog-poljoprivrednika https://www.youtube.com/watch?v=LGOimaWjgtk

For all those interested, who were not able to attend the seminar itself, the appropriate material (recording of the lecture on drones) will be available on the project website.

Bijeljina, 15th March, 2021

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