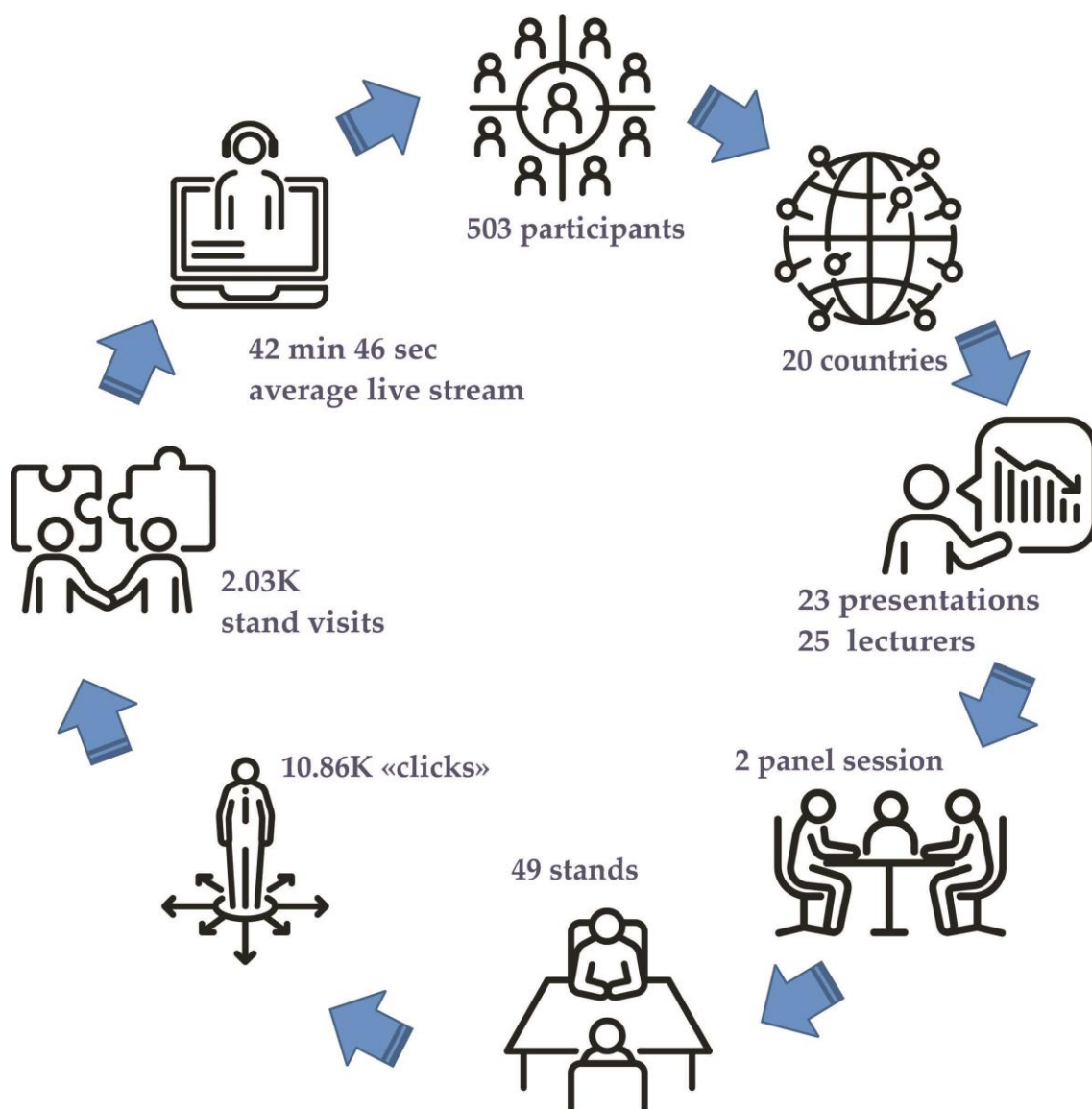




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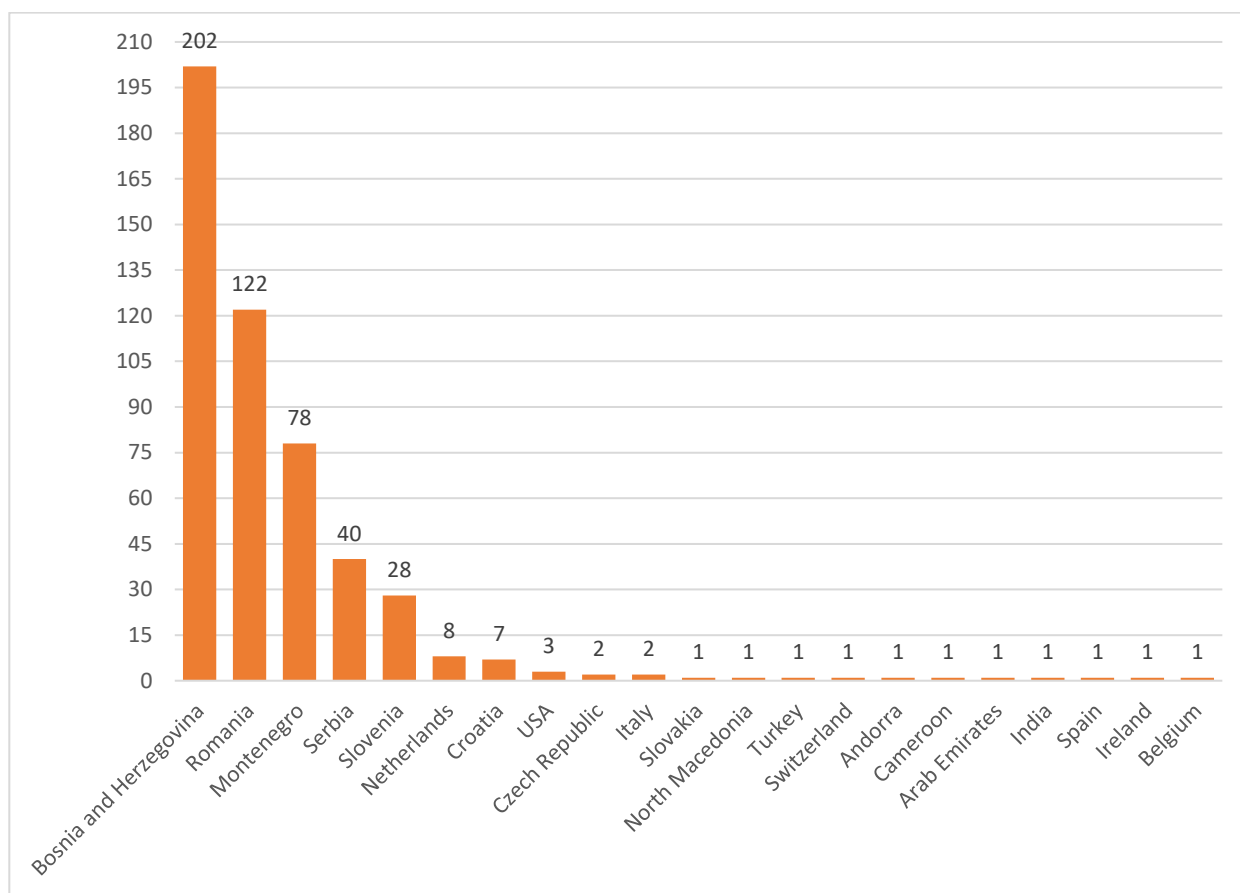
## SmAgTech EXPO 2021 Event realization report



Co-funded by the  
Erasmus+ Programme  
of the European Union

SmAgtech EXPO 2021, was held in the period 16-17.11.2021. The event was realized through a virtual platform, which was prepared on that occasion in accordance with the requirements of the project and the visual environment of the University of Banja Luka, as the location of the event.

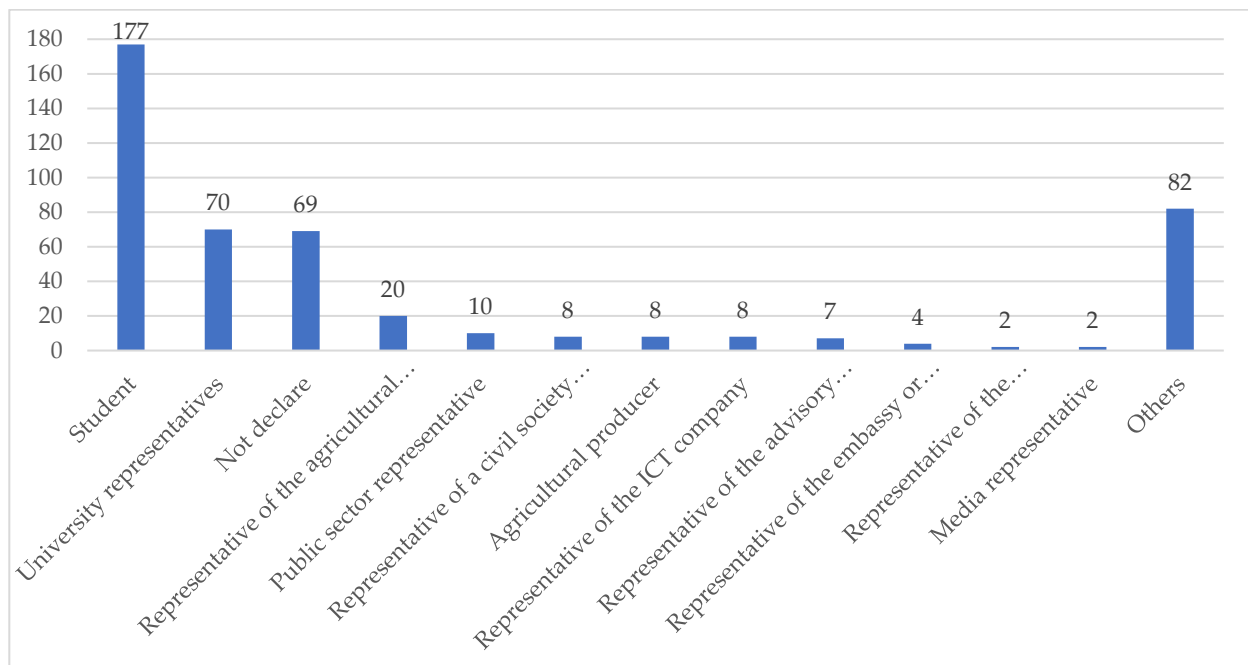
A total of 503 participants from 20 countries registered for the EXPO SmAgTech event (Chart 1). Most participants were from Bosnia and Herzegovina, Romania and Montenegro.



**Chart 1.** Distribution of participants based on the country they came from

The largest number of participants is from the category of students and teaching staff. A significant number of participants did not declare themselves or pointed out that they belong to the category of others. A slightly smaller number of participants were from the business sector, regardless of whether they were agricultural producers or companies in the field of ICT (Chart 2).

It is important to point out that among the registered participants were representatives of the public sector and civil society organizations.



**Chart 2.** Distribution of participants according to the category to which they belong

Within the conference part of the event, four plenary lectures by invitation and 19 lectures within five thematic sections (food processing, fruit growing, viticulture and winemaking, plant protection and new technologies in agriculture) were presented. Two panel sessions were held on the use of ICT in agriculture, as well as the opinions of students of electrical engineering and agriculture towards the application of new technologies in the field of agriculture.

In the exhibition part of the event, a total of 49 exhibitors presented themselves; 21 companies in the field of agriculture and ICT, 11 projects implemented with the theme of ICT application in agriculture and 17 members of the consortium of the VIRAL project.

**SmAgTech EXPO**  
SMART AGRI-TECHNOLOGY EXPO  
17 November 2021, 10-12 PM CET

**SMART FRUIT GROWING**

**Present and perspectives of European fruit production**  
**PROF. PHD. FLORIN STANICA, PROF. DR. I.R.**  
Professor Faculty of Horticulture, University of Agriculture Sciences and Veterinary Medicine of Bucharest

**How the use of sensors and camera's and IoT make it possible to manage at an tree level in fruit growing**  
**PETER FRANS DE JONGE, I.R.**  
Nageningen University & Research

**Agricultural land management using GIS-based multicriteria analysis of hazelnut land suitability**  
**MLADEN JURISTIĆ, PROFESSOR**  
Faculty of Agrobiotechnical Sciences Osijek, Josip Juraj Strossmayer University of Osijek

**Efficient orchards and vineyards management using AI-driven UAVs**  
**DR. JOAO VALENTE**  
Assistant Professor, Information Technology, Wageningen University & Research

17 November 2021  
10 - 12 PM CET

**37** izlagača exhibitors

**Prilike za privrednike i studente**  
Opportunities for businessmen and students

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SMART AGRI-TECHNOLOGY EXPO  
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**VITICULTURE AND WINEMAKING SECTION**

**Viticulture and winemaking: new possibilities and challenges**  
**SANJA RADONJIC, PhD**  
Enologist, "V. d.o.o. - PLANTAZIJE" s.d.

**From farm to fork - DEMETER style**  
**BRDAN KRČO, PhD**  
Co-founder and CEO of SustainNET

**Prototype system for adaptive application of phytosanitary products used in agriculture**  
**JURIJ RAKUN, PHD, PROFESSOR**  
Faculty of Agriculture and Life Sciences University of Maribor

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**FOOD INDUSTRY**

**Food quality and safety - Centre of Excellence (FoodHub)**  
**DR. ALEKSANDRA MARTINDOVIĆ**  
Professor and Director of the Centre of Excellence (FoodHub) University of Džerđa Gorica

**Automation and Robotics in the Food Industry**  
**PROF. DR. SC. MIRJANA CURLIN**  
Department of Process Engineering Institute for Fundamental Engineering, Faculty of Food Technology and Biotechnology

**Software solutions for risk assessment - application of digital tools**  
**ANDREA MILAČIĆ**  
Young researcher University of Džerđa Gorica Centre of Excellence (FoodHub)

**Food safety risk assessment**  
**AMIL ORAHOVAC**  
Young researcher University of Džerđa Gorica Centre of Excellence (FoodHub)

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**FUTURE TODAY**

**Current status and innovation in technologies of plant factory in China**  
**YUXIN TONG, ASSOCIATE PROFESSOR**  
Chinese Academy of Agricultural Sciences (CAAS) Institute for Environment and Sustainable Development in Agriculture

**Advance learning techniques and digital tools for water management systems**  
**DR. LUIGI CAPODIECI**  
Research Project: Sarpis, Sarpis S.r.l., Italy

**What is needed for smart fertilization?**  
**SERGEJ KRANJIC**  
CEO Terramare, Co-Founder

**Smart approaches to livestock production**  
**DOC. ING. DANIEL FALTA, PhD**  
Masaryk University in Brno, Department for Animal Breeding

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**SAVE THE PLANTS**

**A Multi-Task Deep Learning Model for Plant Disease Classification**  
**DR. AYDIN KAYA, DR. CATAL CAGATAY**  
Associate Professor, Hacettepe University Computer Engineering Department Professor, Džerđa University Computer Science & Engineering (Wageningen University & Research)

**Digital technologies and beekeeping**  
**ZDENKA BABIĆ, PROFESSOR**  
Faculty of Electrical Engineering University of Banja Luka

**Experience with: www.agropozicorengers decision support system in plant protection**  
**DR. DRAGAN VAJGAND, FLORIAN FARKAS**  
Agropozicorengers Plant Consulting Pte

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Figure 1-5. Lectures held in parallel sessions





**Figure 6-8.** Prospects of stands of companies, projects and representatives of the project consortium (top to bottom) presented at the fair

During EXPO SmAgTech event, 10.86K of separate interactions on the platform were registered, of which 2.03K represents activities at the stands (Table 1).

During the first day, 262 separate participants were registered, who achieved 6,859 interactions on the platform and 1,460 accesses to the stands.

On the second day, there were 128 registered participants, who realized 3,124 interactions on the platform, of which 570 visited the stands.

The average duration of the live broadcast was 42 minutes and 46 seconds.

Table 1. Number of individual activities on the platform during the realization of the event

	number of individual users	number of events on the platform	number of events per user	number of events on the stands
16.11.2021.	262	6.589	25	1.460
17.11.2021.	128	3.124	24	570
Conference	467	10.860	21	2.030

Most visits were at the stands of the University of Maribor and Technopolis, as well as the companies Bambi and Hepok (Chart 3).

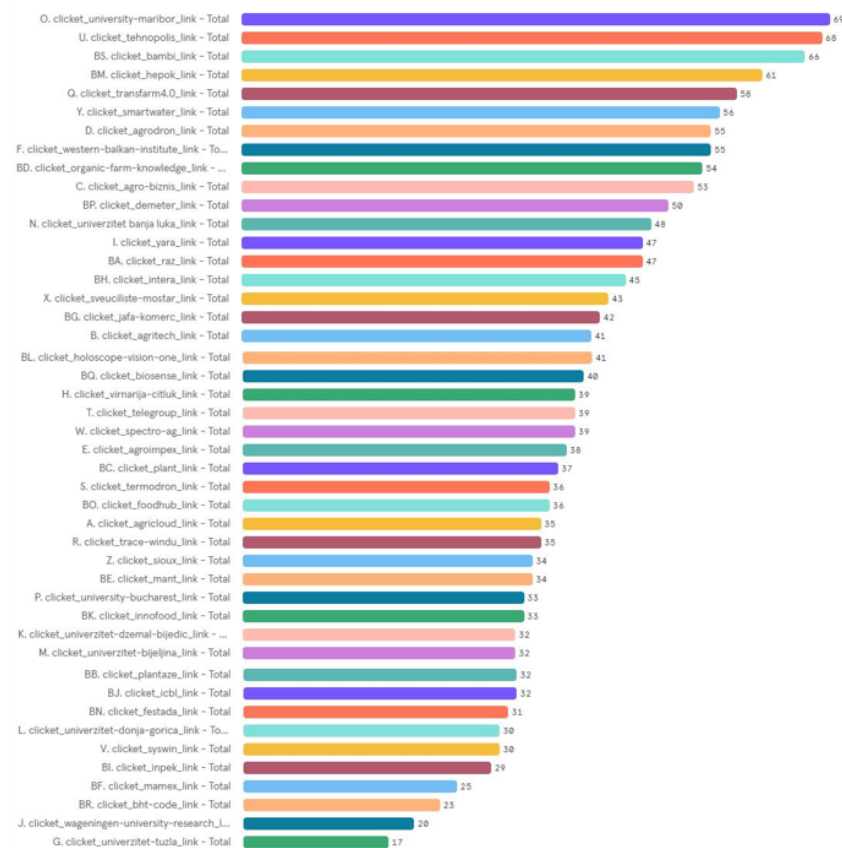


Chart 3. Number of visits to individual stands during the event



The organization of the event itself, represents a significant step forward in connecting different entrants in agricultural production and the application of ICT. In the technical sense, realization is a challenge, the successful realization of which enables more efficient distribution of new knowledge and better connections.

The lessons learned from the realization of this event will be an excellent basis for improving the process itself and more efficient realization of the next event in 2022.

Prepared by:  
Miljan Cvetković  
Petar Nikolić



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