

Enhancement of Postgraduate Studies on Sustainable Agriculture and Future Farming Systems

Issue 3, September 2021

Intermediary results

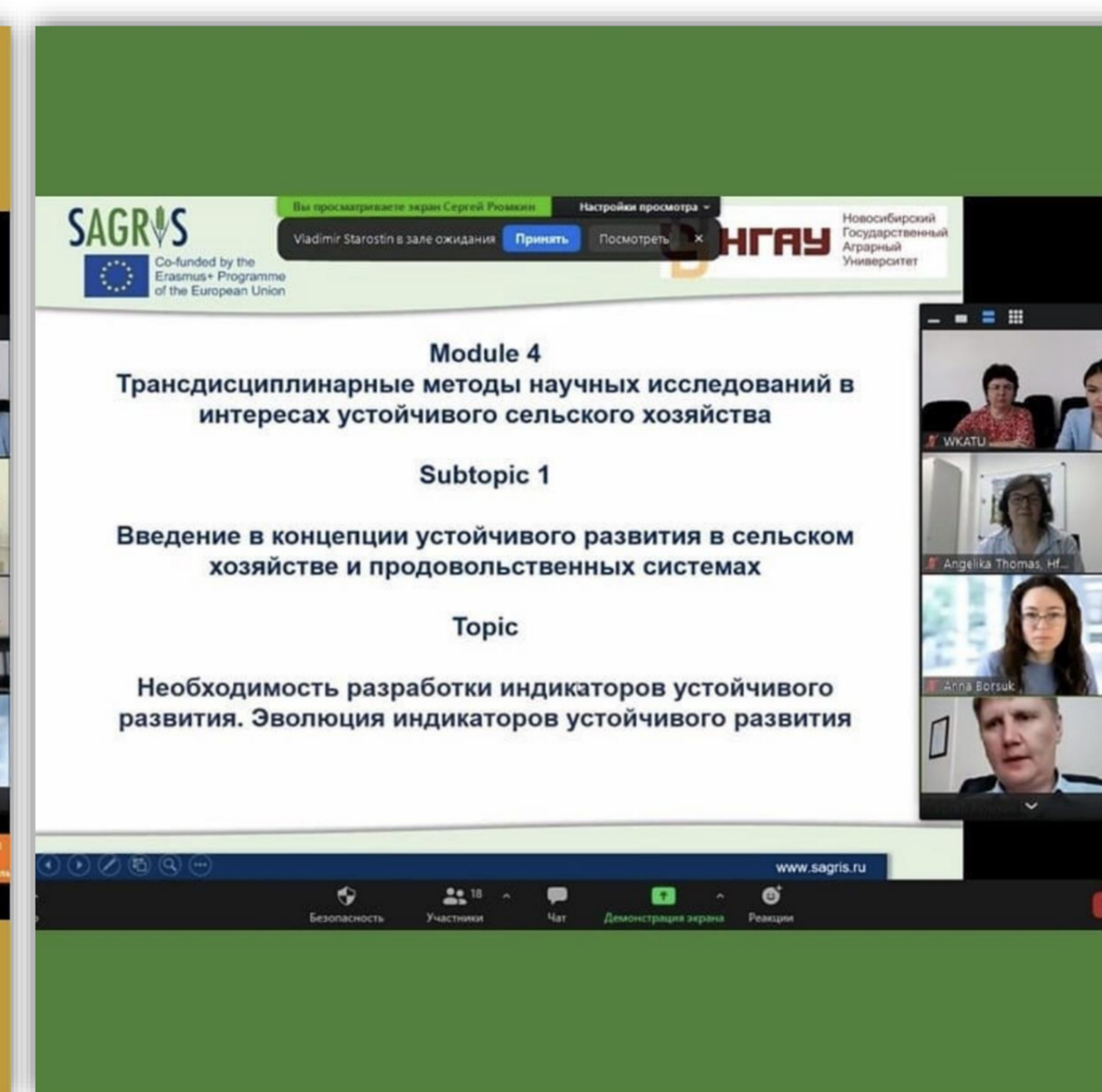
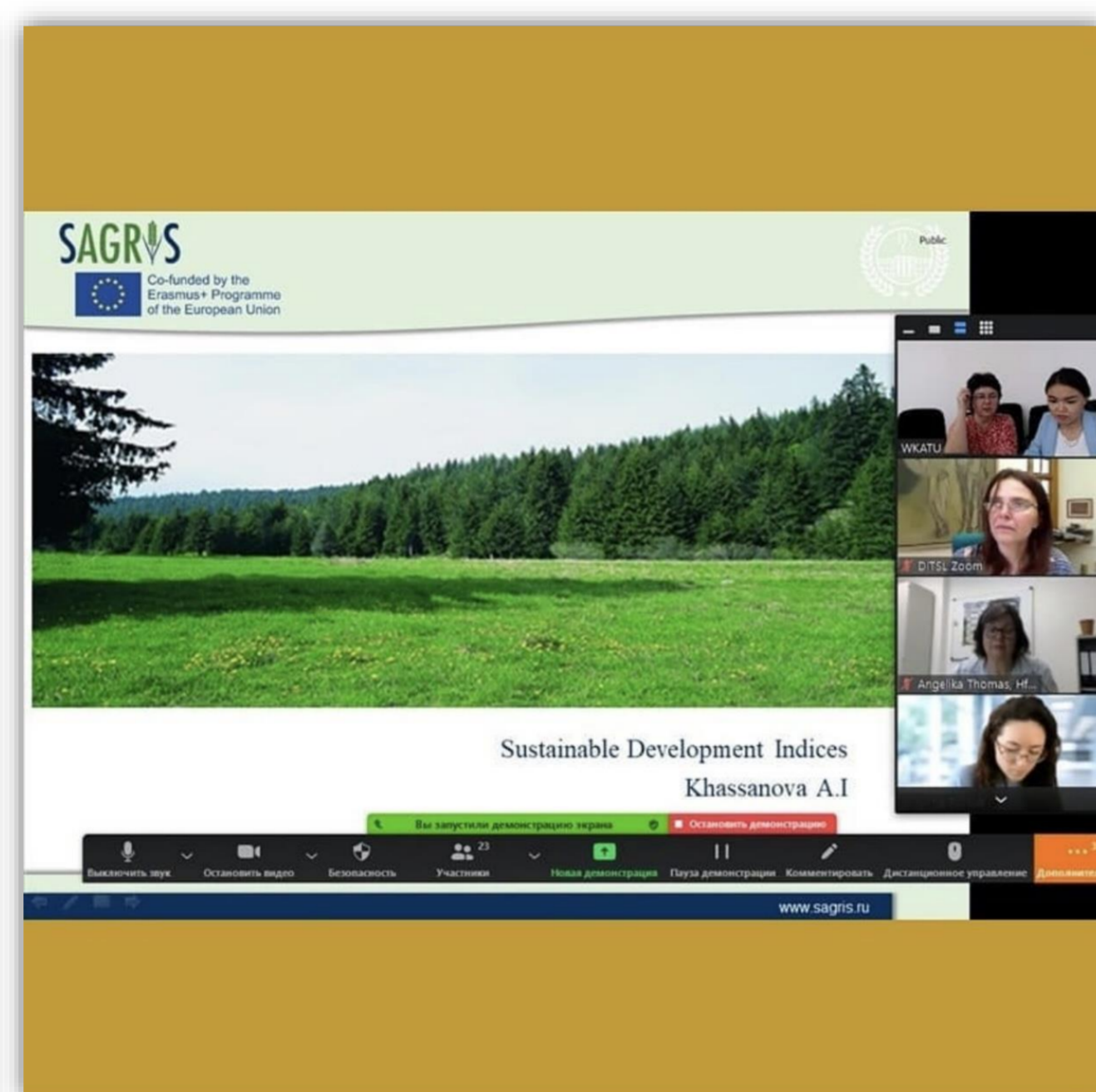
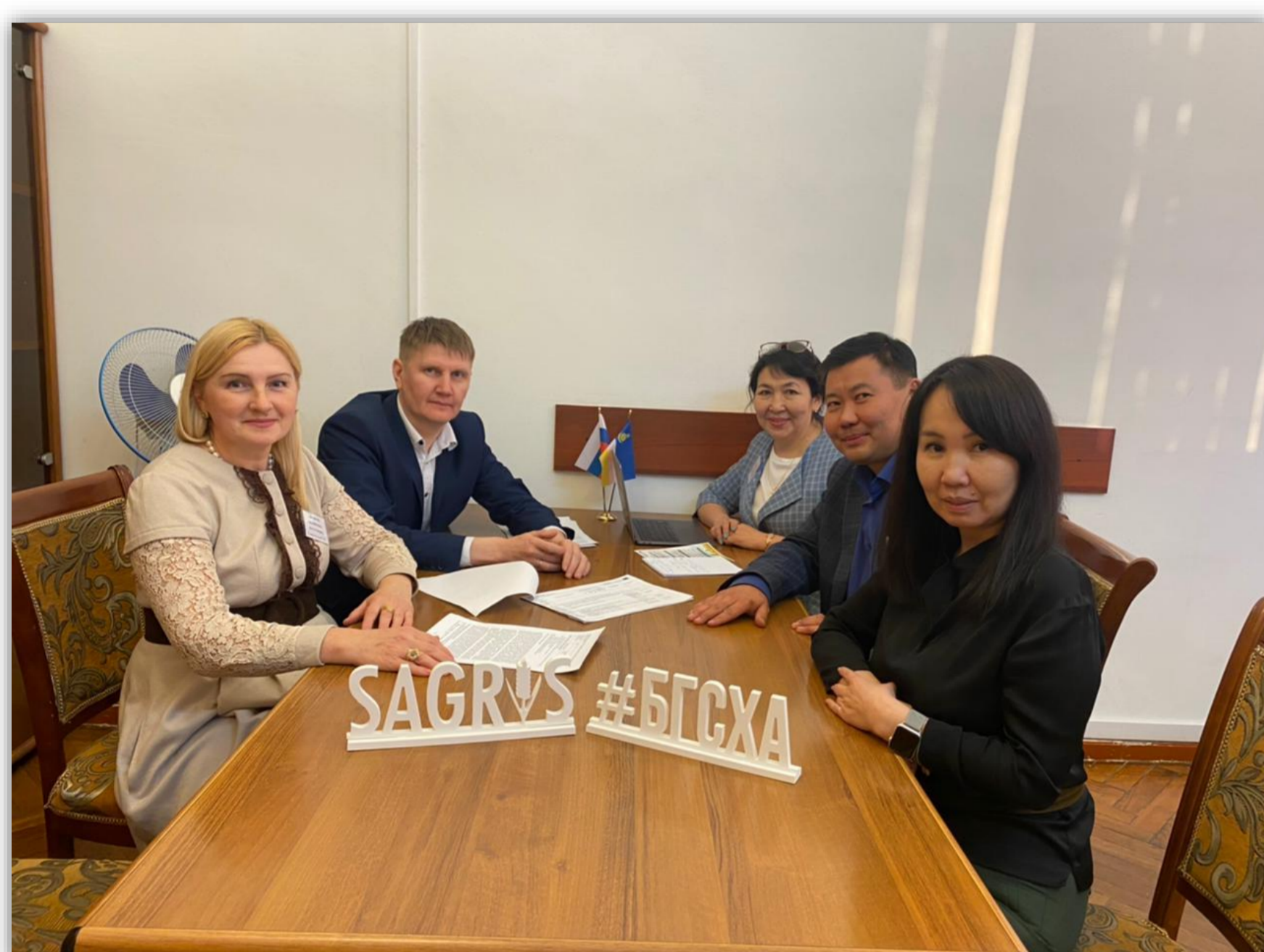
The second year of SAGRIS project implementation (January-August 2021) focused on methodological content of SAGRIS Modules, approbation of the designed innovative materials, capacity building of partner-universities and strategic networking of agricultural Universities of Russia and Kazakhstan in respect to doctoral education and project quality control. The following activities and events were implemented:

- ✓ development of content-tables to the Module templates;
- ✓ thematic workshops of SAGRIS Modules developers;
- ✓ Block Seminars on SAGRIS Modules;
- ✓ finalization of the strategic document on networking on improvement of doctoral education;
- ✓ external evaluation of project results (intermediary report);
- ✓ purchase of equipment by Russian and Kazakhstani Universities for SAGRIS Modules implementation and enhancement of doctoral education.

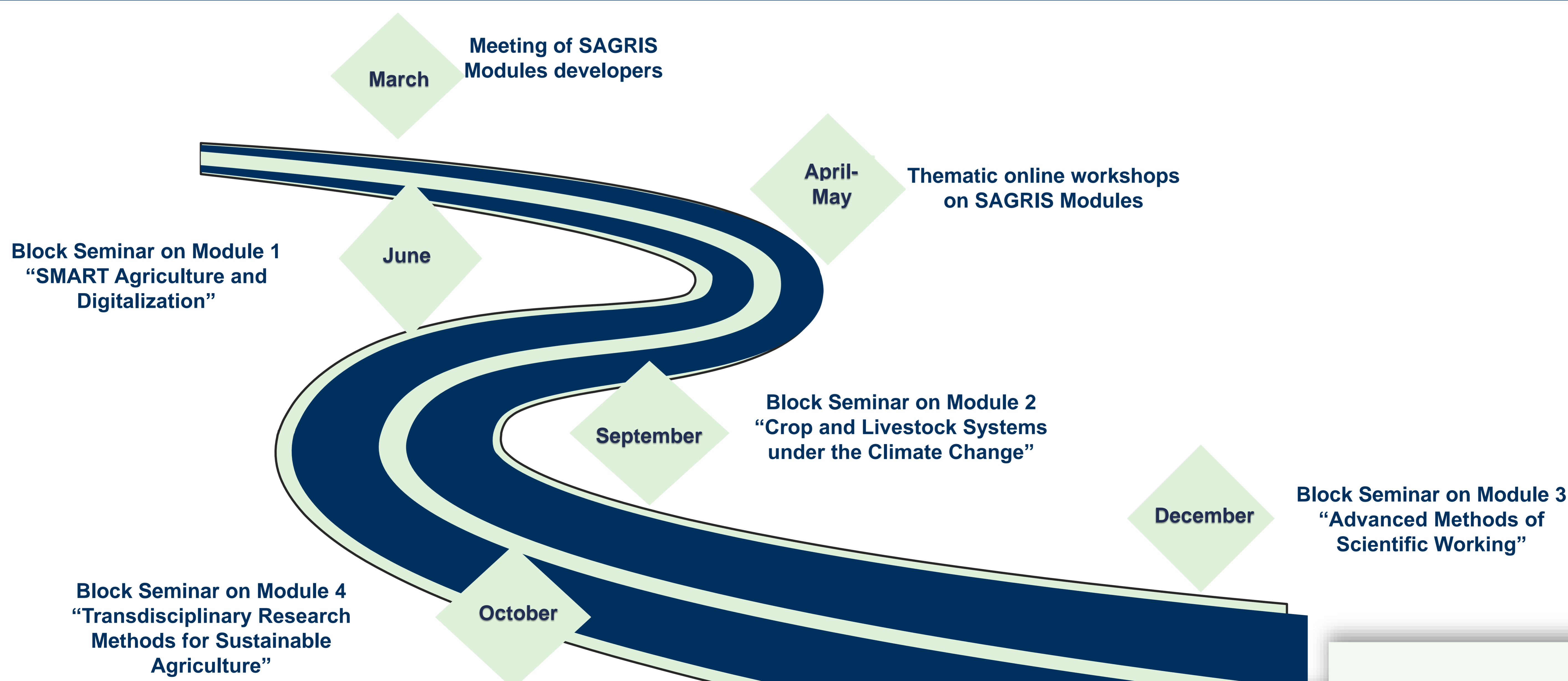
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SAGRIS Modules and Block Seminars: implementation in 2021



Meeting of SAGRIS Modules developers was held at Buryat SAA

The Meeting of SAGRIS Modules developers was held on 3-5 March on the premises of Buryat State Academy of Agriculture. Due to COVID-19 constraints, the meeting was held in a hybrid format: participants of Module Working Groups from Russian partner-universities joined the meeting in presence form while partners from Kazakhstan and module leads from the EU universities joined the meeting online. The participants took part in a team-building communication training and outlined the expertise and competences of partner-universities for module development and implementation of Block Seminars for doctoral students from Russia and Kazakhstan. The Module leads presented SAGRIS module templates and interim results on innovative materials elaboration; parallel sessions with EU professors and experts were carried out and devoted to finalization of learning outcomes, application of student-centred approach and interactive teaching methods.



Module 1

"SMART Agriculture and Digitalization"



Module 2

"Crop and Livestock Systems under the Climate Change"



Module 3

"Advanced Methods of Scientific Working"



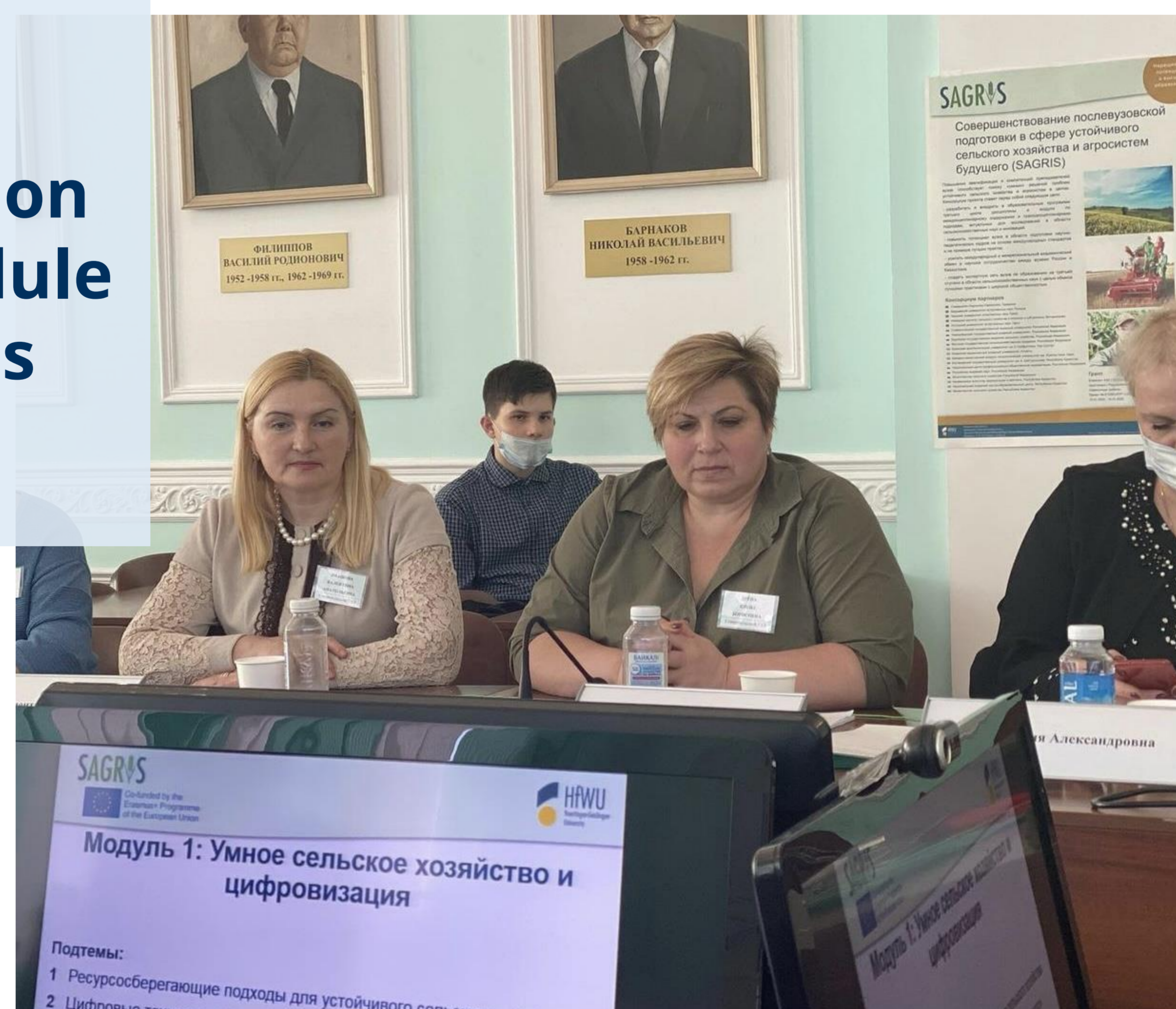
Module 4

"Transdisciplinary Methods for Research Sustainable Agriculture"



Discussion on SAGRIS Module Templates

Team-building training



Модуль 1: Умное сельское хозяйство и цифровизация
Подтемы:
1. Ресурсосберегающие подходы для устойчивого сельского хозяйства
2. Цифровые технологии

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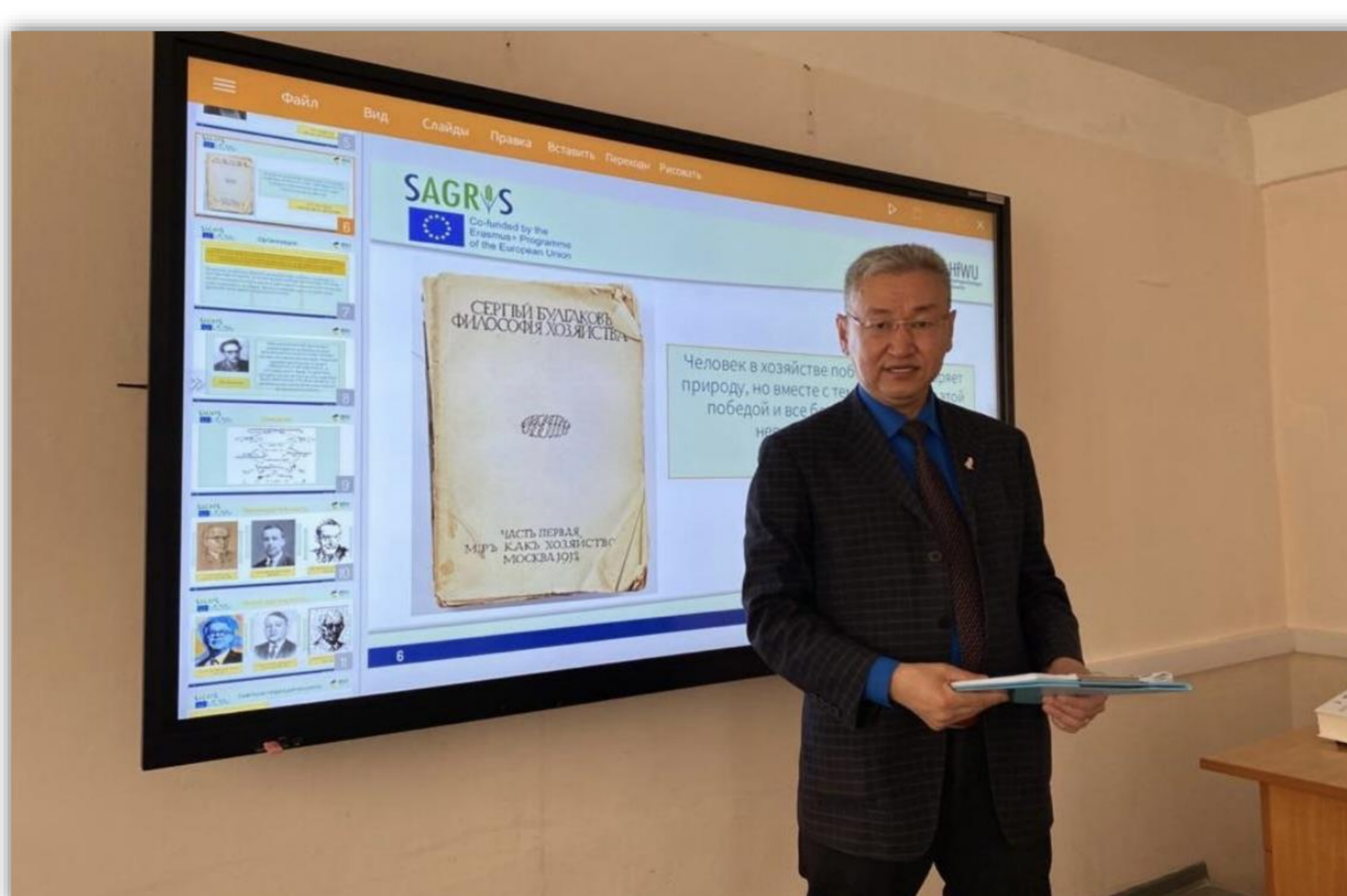
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SAGRIS Online Thematic Workshops

From April to June, the SAGRIS project has launched a series of thematic online workshops on SAGRIS modules where module developers have presented their lectures, practical and innovative materials to the wider scientific and academic audience. The materials were elaborated by international scientific groups supervised by European scientists and practical experts. The Modules developers received feedback from the scientists and researchers of Russian Academy of Sciences, National Agrarian Scientific and Educational Centre as well as from the experts of National Centre of Public Accreditation and International Agency for Accreditation and Rating.



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Block Seminar on Module 1 "SMART Agriculture and Digitalisation"

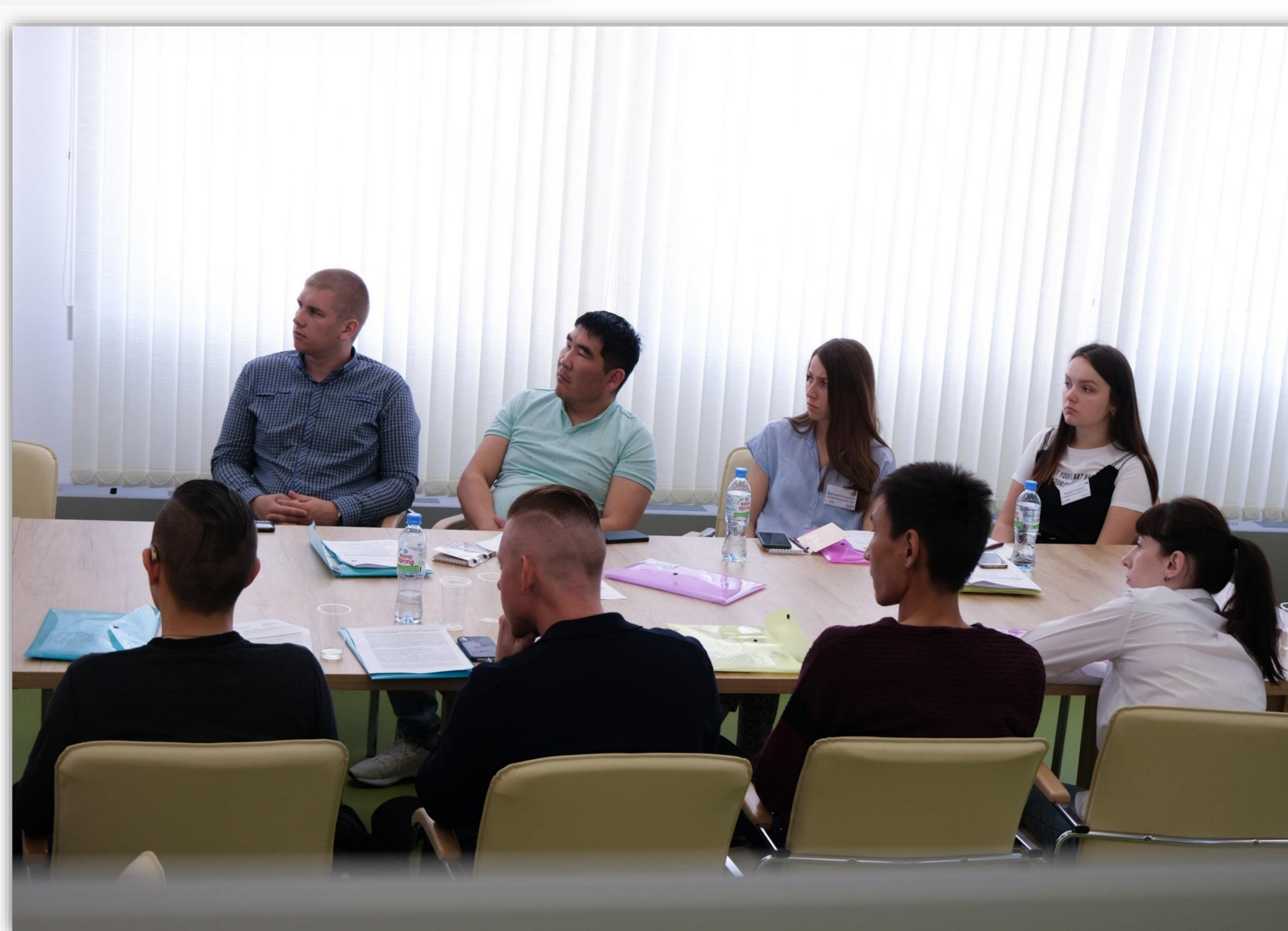
The first block seminar on Module 1 "SMART agriculture and digitalization" in frames of SAGRIS project was held in a hybrid format. The module leading universities – Novosibirsk SAU from Russia and KazNARU from Kazakhstan - hosted PhD-students and teaching staff from the respective countries. A video conference was arranged between the countries, whereas scientists and experts from the European Union connected online.



Programme of Block Seminar

- ✓ lectures of scientists from Germany, Poland and Czech Republic;
- ✓ seminars;
- ✓ group projects;
- ✓ presentation of Doctoral theses and integration into scientific community;

- ✓ practice-oriented tasks;
- ✓ study trips to the leading regional agricultural enterprises (Breeding Factory "Irmen" in Russia and Agricultural hub "Centre for Sustainable Farming" of KazNARU and experimental farm "Saimasai").



Block Seminar on Module 1 "SMART Agriculture and Digitalization"



PhD-students of Russia and Kazakhstan defended their group projects SMARTagro.



Group project reflect young scientists' innovative ideas on applying and promotion of digital technologies and smart farming tools in agriculture.

Then follows the panel discussion where the leading producers of agricultural machinery, agricultural producers, representatives of regional authorities and research institutes discussed the topical issues of smart farming and digitalization. The discussion turned out to be very lively and vivid; participants discussed the key areas of digitalisation in agriculture relevant to Russia and Kazakhstan, federal projects that stimulate growth of digitalisation and improve its efficiency, existing barriers to implementing digital technologies in the agricultural industry and ways to solve them, etc.

In conclusion, the SAGRIS project scientific leader Professor Dr. Heinrich Schuele (University of Nuertingen-Geislingen) summed up the results and received feedback from postgraduate students. Novosibirsk SAU and KazNARU awarded certificates of advanced training to all the participants of the Block Seminar.



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-  **Ministry of Agriculture of the Republic of Kazakhstan**

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