



SULAWE

Sustainable Livestock Production and Animal Welfare

FORUM SUSTAINABLE LIVESTOCK AND ANIMAL WELFARE dedicated to the World Day for Farmed Animals





Modernized SULAWE curricula implemented in 4 Ukrainian HEIs

Sustainable Livestock Production and Animal Welfare

Funded by the European Commission within the Erasmus+ Programme

Key Action: Capacity-Building in Higher Education (E+CBHE)

Project reference number: 101083023 — SULAWE — ERASMUS-EDU-2022-CBHE





Product of the SULAWE

Work package 2: Development of innovative SuLAWe curricula and implementation

Lead by
Stepan Gzhytskyi National University of Veterinary Medicine and Biotechnologies Lviv –
LNUVMB

As. Prof. PhD Ihor Dvylyuk, As. Prof. PhD Nadiia Magrelo Swedish University of Agricultural Sciences – SLU DVM Elina Åsbjer, Dr. Geir Löe, Galia Zamaratskaia, Assoc. Prof.



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Modernized curricula include:

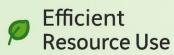


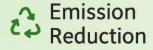
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the European Union

MODULE 1 SUSTAINABLE LIVESTOCK PRODUCTION









MODULE 2 ANIMAL WELFARE



Proper Housing



Health Protection



Humane Treatment

MODULE 3 DIGITAL LIVESTOCK PRODUCTION



Sensors and Detectors



Data Collection



Monitoring Systems



Implementation of training modules

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Module 1	· NIIC	tainable	JVEST	tock	Proc	netion
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Module type PSAU, LNUVMB, SNU named after Dahl: mandatory NUBiP: elective	Regular cycle Annually	Duration 1 semester
Major 204: Bachelor's Degree 211: Master's Degree	ECTS 4 ECTS	Weekly workload 3

Module 2: Animal Welfare

Module type	Regular cycle	Duration
PSAU, LNUVMB, SNU named after Dahl: mandatory	Annually	1 semester
NUBiP: elective		
Major	ECTS	Weekly Wroclaw
204: Bachelor's Degree/ Master's Degree	4 ECTS	4
211: Master's Degree		

Module 3. Digital Livestock Farming

Module type	Regular cycle	Duration
PSAU, LNUVMB, SNU named after Dahl: mandatory	Annually	1 semester
NUBiP: elective		
Major	ECTS кредити	Weekly workload
204: Bachelor's Degree	4 ECTS	3
211: Master's Degree		





Module 1: Sustainable Livestock Production

Sustainable livestock production is a relevant and important discipline in the training highly

qualified specialists in the field of animal husbandry. This module introduces the concept of using available resources in livestock production through well-grounded technological decisions that prioritize resource conservation, animal welfare, and the ecological integrity of areas surrounding production facilities.

Students gain knowledge and skills that enable them to apply sustainable livestock technologies in practice and analyze the cause-and-effect relationships of their implementation in production.

The technological foundations covered in this module helps students to assess the physiological condition of animals in industrial settings. The sustainability criteria and methodology introduced here supports the development of practical evaluation tools for livestock sustainability.

By the end of the module, learners will have built a strong theoretical base and acquired practical skills in animal housing, feeding, and breeding. They will also be equipped to design management strategies for production processes based on best practices in resource conservation.





Module 1: Sustainable Livestock includes the following subtopics:



Concepts of sustainable development, sustainable agricultural production and sustainable livestock management



Impact of livestock production, health and welfare on biodiversity, the environment, climate change and antimicrobial resistance



Innovative and sustainable technologies in livestock farming



Sustainability assessment and sustainability criteria for livestock products



Livestock products, raw materials and final products





¾Module 2: Animal Welfare

The educational component "Animal Welfare" explores a set of concepts related to the physical, psychological, and natural state of an animal at a given moment in its life, as well as its ability to meet its own needs. It examines the algorithm of environmental factors affecting the animal's body, its adaptation, and functioning within temporal and spatial rhythms. Additionally, it covers disease prevention, treatment, provision of proper shelter, housing, feeding, humane handling, use, and slaughter. The component also includes the evaluation of housing conditions and animal welfare across various technological approaches.

Objective: To develop professional and research competencies necessary for innovative professional and scientific activities, and for the implementation of modern technologies in livestock production broadly, and in veterinary medicine specifically.

The curriculum includes educational material that substantiates the professional responsibilities of specialists in veterinary medicine and in the production and processing of livestock products. It encompasses ethical, veterinary, legal, and psychological aspects of animal welfare. The program provides theoretical foundations of welfare, ethology, housing conditions, slaughter, and euthanasia in accordance with national and European standards.





Module 2: Animal Welfare includes the following subtopics:



Welfare of animals in livestock farming (biological, physiological, ethological aspects)



National and International Legal Implications and Restrictions for Animal Welfare



Modern and innovative methods/technologies for improving and assessing animal welfare in livestock production



Animal welfare during the transportation and trade of live animals



Animal slaughter and euthanasia





***Module 3. Digital Livestock Farming**

Digital Livestock Farming involves the integration of advanced digital technologies to improve the management, monitoring, and optimization of livestock production processes on farms.

This module introduces students to key digital tools and systems used in animal husbandry, highlighting their benefits and limitations.

It provides a theoretical foundation for understanding telemetry devices that measure physiological parameters, health indicators, and productivity. Students explore ethological monitoring techniques related to animal welfare, as well as software platforms for managing livestock production.

Through this module, students acquire both theoretical knowledge and practical skills in applying digital technologies to livestock operations. They become familiar with innovative solutions and learn to develop strategies for enhancing management efficiency and optimizing production at livestock enterprises





Module 3: Digital Livestock farming includes the following subtopics:



Creation of innovative Centres of Excellence for lifelong learning



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ns and institutions

Purpose: Development of sustainable livestock farming and introduction of modern educational technologies in universities to improve the quality of specialist training and strengthen the role of universities in regional development.

Training and education:

Conducting trainings, seminars, workshops, conferences, forums. Modernization of educational programs for the training of highly qualified specialists. Implementation of innovative technologies and methods in the educational process.

Science and Counselling:

Conducting research to study the effectiveness of innovations in animal husbandry. Provision of advisory services to farms. Involvement of experienced scientists and specialists.

Information and communication:

Promotion of the concept of sustainable development of livestock production and animal welfare. Raising awareness of producers and consumers. Expanding international cooperation.

Expected results:

Raising awareness among farmers. Creating a platform for the exchange of ideas and research.

Promoting sustainable development of rural areas.

<u>/ww.sulawe.org</u>



Innovative Centres of Excellence for lifelong learning



Erasmus+ - Cooperation among organisations and institutions



«Innovative Center for Sustainable Cattle Breeding and Milk Production» Stepan Gzhitskyi Lviv National University of Veterinary Medicine and Biotechnology



«Innovative sector of excellence for lifelong learning: sustainable poultry farming»
Poltava State Agrarian University



«Centre for Innovative Technologies for Sustainable Livestock Development and Animal Welfare» National University of Life and Environment Sciences of Ukraine



«Center for Modern Education and Information Technologies» of Volodymyr Dahl East Ukrainian National University

Official website of the project: www.sulawe.org

Formation of innovation centres of excellence for lifelong learning



SULAWE Sustainable Livestock Produc

and Animai Weifare

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Legalization of innovation centers: tasks and areas of activity have been formed, Regulations have been approved, which regulate their work.

Creation of a working group: a working group of specialists responsible for the implementation of the assigned tasks was created. Involvement of partners: cooperation with partner enterprises has been established for the practical implementation of innovations. Material and technical support: the preparation of the physical space for the work of the centers has been completed, key equipment has been installed, which ensures the implementation of the main tasks.

Training on assessing the sustainability of the RISE method (March – November 2024)

Six executors of the project underwent theoretical and practical training on the use of the RISE (Response-Inducing Sustainability Evaluation) method to assess the sustainable development of farms. The program was implemented in cooperation with the Bern University of Applied Sciences.

Practical component:

Work in groups for the analysis of real farms:

- **«LLL «Yastrubchanske» (dairy production)**
- « Dobro-Kraft» (goat breeding)
- « Dairy farm of the Lelyk» family

Results:

On December 18, 2024, the participants presented assessment reports, identified weaknesses in the functioning of farms and proposed ways to increase their sustainability.

RISE software was purchased and installed in the innovation centers of four HEIs, which provided an institutional base for further work. Each university received 30 licenses to use the RISE method (term -3 years) for integration into educational programs.

Development and implementation of training courses



National University of Life and Environment Sciences of

Ukraine:

«The Welfare of Pigs on an Industrial Farm»

Duration: 12-13.03.2025

Participants: 75

«Farm Sustainability Assessment as a Tool for Successful

Transformation of Agriculture»

Duration: 19-20.02.2025

Participants: 54

Volodymyr Dahl East Ukrainian National University:

«Livestock Production Waste and By-products: Processing and Use »

Duration: 19.03.2025 -22.03.2025

Participants: 26

«Veterinary Telemedicine»

Duration: 14.04.2025 - 19.04.2025

Participants: 24.

Stepan Gzhitskyi Lviv National University of Veterinary Medicine and Biotechnology:

«Proper Calf Rearing - The Key to Sustainable Dairy Production»

Duration: 26-27.11.2024

Participants: 15

«Recording Productivity and Reproductivity in Sustainable Dairy

Farming»

Duration: 4-5.12.2024

Participants: 20

Poltava state agrarian university:

«Innovative Poultry Production: MHP Experience ».

Duration: 22.02.2024 - 22.03.2024 and 18.10.2024 - 22.11.2024

Participants: 32 and 20.

«Biosafety and Sustainable Poultry Production: MHP Experience »

Duration: 21.02.2024 – 20.03.2024 and 23.10.2024 – 28.11.2024

Participants: 29 and 30.





Academic mobility of students is an opportunity to temporarily study, intern, or conduct research at another higher education institution or scientific organization, both in Ukraine and abroad, without being withdrawn from one's primary place of study.

Academic mobility is a student right that offers a unique experience, enhances competitiveness, improves language skills, and broadens professional horizons. Student mobility in Ukraine during wartime presents a challenge for organizing the educational process, but also a realized opportunity that has strengthened partnerships among consortium members.

Academic Mobility Consortium 2024 – 2025 Academic Year (Second Semester)



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4 students TLPFT

National University of Life Resources and Environmental Sciences of Ukraine, Kyiv

4 students TLPFT

Poltava State Agrarian University, Poltava

3 students
vet. medicine;
1 student
zoophysiotherapy;
2 students
TLPFT

Lviv National University of Veterinary
Medicine and Biotechnology named after
Stepan Gzhytsky, Lviv

Volodymyr Dahl East Ukrainian National University Luhansk – Kyiv 2 students vet. medicine;

www.sulawe.org



MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE POLTAVA STATE AGRARIAN UNIVERSITY

1/3 Skovorody Street, Poltava, 36003, tel./fax: (0532) 50-02-73, E-mail: pdaa@pdau.edu.ua https://www.pdaa.edu.ua Code 00493014



Reference Letter

IRYNA VASYLENKO, a master's student of the National University of Life and Environmental Sciences of Ukraine, at the Faculty of Livestock and Aquatic Bioresources of the National University of Life and Environmental Sciences of Ukraine, participated in an academic mobility program at the Faculty of Livestock and Food Technologies at the Poltava State Agrarian University from January 20, 2025, to June 20, 2025.

This program was conducted within the framework of the international Erasmus+ project under Key Action 2: Cooperation among Organizations and Institutions, Capacity Building in Higher Education, Sustainable Livestock Production, and Animal Welfare (Grant Agreement No. 101083023-SuLAWe).

During the academic mobility period, the student acquired learning outcomes, general and professional competencies in the following modules, and the earned credits were recognized by the home university:

- Sustainable Livestock
- · Animal Welfare
- Digital Livestock

The total number of credits earned: 12 ECTS

Dean

Svitlana USENKO



НАЦІОНАЛЬНИЙ УНІВЕРСИТЕТ БІОРЕСУРСІВ І ПРИРОДОКОРИСТУВАННЯ УКРАЇНИ



ФАКУЛЬТЕТ ТВАРИННИЦТВА ТА ВОДНИХ БІОРЕСУРСІВ

03041, м. Київ, вул. Горіхуватський исякх, 19, новчальний корпус № 1; тех.: (044) 527-82-58

Reference Letter

Andrii NOSYK, a master's student of the Poltava State Agrarian University, Faculty of Livestock and Food Technologies, participated in an academic mobility program at the Faculty of Animal science and Aquatic Bioresources of the National University of Life and Environmental Sciences of Ukraine from February 3, 2025, to July 3, 2025.

This program was conducted within the framework of the international Erasmus+ project under Key Action 2: Cooperation among Organizations and Institutions, Capacity Building in Higher Education, Sustainable Livestock Production, and Animal Welfare (Grant Agreement No. 101083023-SuLAWe).

During the academic mobility period, the student acquired learning outcomes, general and professional competencies in the following modules, and the earned credits were recognized by the home university:

- Sustainable Livestock
- Animal Welfare
- · Digital Livestock

The total number of credits earned: 12 ECTS

Dean



Ruslan KONONENKO

Assessment of the quality of the educational process by students





QUESTIONNAIRE

SULAWE Student mobility

Project "SULAWE - Sustainable Livestock Production and
Animal Welfare"

EU program Erasmus +, project KA2 n° 101083023 — SULAWE — ERASMUS-EDU-2022-CBHE

Organiser / LOCATION

Stepan Gzhytskiy national university of Veterinary medicine and biotechnologies Lviv 50, Pekarska Street, Lviv, 79010 Date

Date 24/06/2025

 How do you evaluate the selection process at the Home Institution? (1=minimum; 5=maximum)

Did you receive adequate support from the Home Institution in regard to organization of your travel arrangements, insurance etc.?

yes 🛘 no

3. How do you evaluate the organisation and the facilities at your disposal during your stay at the Host Institution?

(1=minimum; 5=maximum)

1 02 03 4

4. Was your accommodation duly arranged by the Host Institution?

yes • n

 How would you evaluate the teachers' involvement in the programme at the Host Institution?

(1=minimum; 5=maximum)

6. What were your most important goals for mobility and were they achieved?

During my academic mobility, my main goals were to deepen my professional knowledge and practical skills in my field, actively integrate into a new educational environment, and establish strong partnerships between my university and the host institution. I sought not only to gain new academic knowledge, but also to understand how another educational system works and to adopt the best teaching and learning practices. I paid particular attention to establishing professional communication, which could become the basis for further joint projects, academic exchanges or research cooperation.

7. Did you find the style and method of teaching to be similar to your Institution?

yes • no • hard to say

 How do you mark the knowledge gained during your stay at the Host University? (1=minimum; 5=maximum)

L **0**2 03 04

9. What kind of new skills (if any) have you gained to update your knowledge?

As part of my academic mobility, I acquired valuable skills, including integration into new educational environments, which allowed me to quickly adapt to a different learning culture and effectively interact with international teachers and students. While studying the modules, I mastered modern approaches to the implementation of digital technologies in animal husbandry, including methods of monitoring, automation and data analysis. In addition, I have significantly improved my ability to analyse animal welfare conditions based on European standards and practices, which is important in the context of modern sustainable and ethical livestock production.

Do you think that the knowledge gained during the mobility will be useful in your home

ves • no hard to say

11. What is your plan to use your gained experience during your studies in your home

The experience gained will be useful for me when studying specialised disciplines within the main educational programme, as I will be able to apply new knowledge and practical skills in the classroom. In addition, I plan to use the tools and approaches acquired during the mobility in my own research activities, in particular when writing term papers, diploma theses or research papers. This will improve their quality and relevance in accordance with modern European standards.

 How would you evaluate the social aspects during your stay at the Host University? (1=minimum; 5=maximum)

п1 п2 п3 ■4 п

13. Did you face any difficulties settling into your new surroundings/adapting to the new culture?

□ ves ■ no

If so, please comment on your experience?

I had no problems with adapta

14. Did the scholarship fully co

yes • no

 How would you generally e (1=minimum: 5=maximum)



Academic Online Mobility June 2 – 13, 2025 Holding the International Erasmus+ Summer School

"SUSTAINABLE ANIMAL PRODUCTION AND ANIMAL WELFARE"



National University of Life Resources and Environmental Sciences of Ukraine, Kyiv

Poltava State Agrarian University, Poltava

Lviv National University of Veterinary Medicine and Biotechnology named after Steelpan Gzhytsky, Lviv

Volodymyr Dahl East Ukrainian National University Luhansk – Kyiv 98 students of the Master's program

www.sulawe.org

Program of the international summer school Erasmus +

"SUSTAINABLE ANIMAL PRODUCTION AND ANIMAL WELFARE"

June 2 - 13, 2025



















Erasmus+ International Summer School

«SUSTAINABLE LIVESTOCK PRODUCTION AND ANIMAL WELFARE». activities are organized within the framework of an international project under the Erasmus+ Key Action: Capacity-Building in Higher Education (E+CBHE) Project reference number: 101083023 - SULAWE - ERASMUS-EDU-2022-CBHE "Sustainable Livestock Production and Animal Welfare" (SuLAWe).

The duration of the event is June 2-13, 2025.

+		Week I			
	Time	Topic	Speaker		
	June 2 - Monday				
	11:00	Welcome address:	Ruslan KONONENKO, Dean of the Faculty of Livestock and Aquatic Bioresources, National University of Life and Environmental Sciences of Ukraine.		
			Svitlana USENKO, Dean of the Faculty of Livestock Technologies and Food Production, Poltava State Agrarian University.		
			Ihor DVYLYUK, Vice-Rector for Scientific and Pedagogical Work, Stepan Gzhytskiy National University of Veterinary Medicine and Biotechnologies, Lviv		



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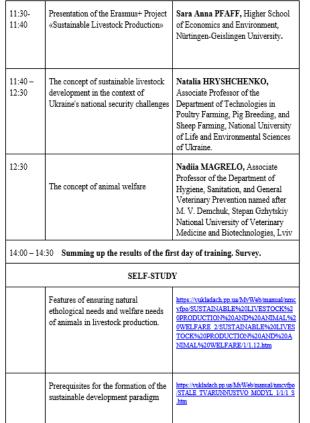














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3 June – Tuesday				
10:00 - 11:00	Hippotherapy as part of sustainable livestock development.	Liudmyla ZLAMANIUK, Associate Professor of the Department of Technologies in Poultry Farming, Pig Breeding, and Sheep Farming, National University of Life and Environmental Sciences of Ukraine.		
11:15 – 12:30	Practical application of digital technologies in dairy farming and poultry farming	Pavlo VASCHENKO, Professor of the Department of Livestock Production Technology at Poltava State Agrarian University, Doctor of Agricultural Sciences, Senior Scientific Researcher		
12:45 – 14:00	Technology for livestock production in conditions of organisational change	Natalia HRYSHCHENKO, Associate Professor of the Department of Technologies in Poultry Farming, Pig Breeding, and Sheep Farming, National University of Life and Environmental Sciences of Ukraine.		
14:00	14:00 Summing up the results of the second day of training. Surveying.			
	SELF-STUDY			
	Social perception of sustainable livestock development from the perspective of consumers and producers	http://vukladach.pp.ur/MyWebinamual/mmcvfpo/STA LE_TVARUNNUSTVO_MODYL_1/1/4_S.htm		



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СЕРТИФІКАТ

Цей сертифікат засвідчує, що

Данило ДЬОМІН

успішно пройшов (ла) Erasmus+ Міжнародну Літню Школу

Стале тваринництво та благополуччя тварин (SULAWE)

2 – 13 червня 2025 рік обсяг 90 год/3 кредити ECTS

CERTIFICATE

This certificate confirms that

Danylo DOMIN

has successfully completed the Erasmus+ International Summer School

Sustainable Livestock Production and Animal Welfare (SULAWE)

held from June 2 to June 13, 2025 and has earned 90h/3 ECTS credits



Oleg GORB

Vice-Rector for Scientific and Pedagogical Work and International Relations, Poltava State Agrarian University

ice-Rector for Ihor cational, Scientific Work DVYLYUK and Digitalization, Stepan Gzhytskyi National University of Veterinary Medicine and Biotechnologies Lviv

Консорціум SULAWE - 2025

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Published educational materials

module 1

Sustainable Livestock Production

module 2

Animal Welfare

module 3

Digital Livestock Farming



Університет Нюертінген-Гайслінген (NGU), Німеччина



Національний університет біоресурсів і природокористування України

MINISTRY
OF AGRARIAN POLICY AND FOOD
OF UKRAINE

Міністерство аграрної політики та продовольства України



Шведський університет сільськогодарських наук (SLU), Швеція



Полтавський державний аграрний університет





Університет Любляни (UL), Словенія



Львівський національний університет ветеринарної медицини та біотехнологій імені Степана Гжицького



Українська корпорація з виробництва м'яса на промисловій основі «Тваринпром» (УК «Тваринпром»)



Науково-методичний центр вищої та фахової передвищої освіти (НМЦ ВФПО), Україна



Східноукраїнський національний університет імені Володимира Даля



Асоціація свинарів України (АСУП)

https://nmcbook.com.ua/ep-vyrobnytstvo-i-pererobka-produktsii

СТАЛЕ ТВАРИННИЦТВО ТА БЛАГОПОЛУЧЧЯ ТВАРИН SULAWE SUSTAINABLE LIVESTOCK PRODUCTION AND ANIMAL WELFARE МОДУЛЬ 1 СТАЛЕ ТВАРИННИЦТВО/

MODULE 1 SUSTAINABLE LIVESTOCK PRODUCTION

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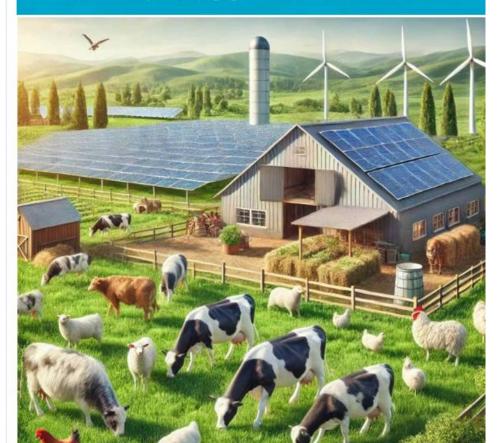


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The electronic manual compiled by

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Світлана УСЕНКО, доктор сільськогосподарських наук, старший науковий співробітник, Полтавський державний аграрний університет



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Policy recommendations from the project



SULAWE Sustainable Livestock Production and Animal Welfare

Erasmus+ - Cooperation among organisations and institutions

Policy recommendations Sustainable Livestock Production and Animal Welfare

Funded by the European Commission within the Erasmus+ Programme Key Action: Capacity-Building in Higher Education (E+CBHE)

Project reference number: 101083023 — SULAWE — ERASMUS-EDU-2022-CBHE

Sustainable livestock farming and animal welfare

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Key action: Capacity building in higher education (E+CBHE)

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Product of the SULAWE

Work package 5: Knowledge transfer and policy dialogue

Lead by

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Product SULAWE

Policy recommendations



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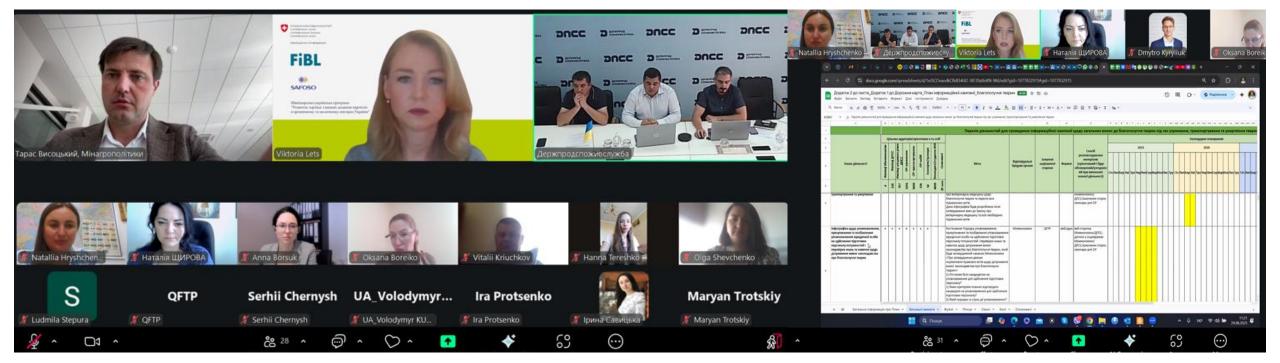
Official website of the project: www.sulawe.org

Proposals of the project consortium for the Ministry of Economy, Environment and Agriculture of Ukraine within the framework of preparing negotiating positions for the bilateral meeting between Ukraine and the European Commission within the framework of the official screening of compliance with the legislation:

- 1. A differentiated approach to the terms of transition to new welfare standards, namely:
- for new facilities put into operation from 01.01.2026 and operators involved in the export production chain, leave the transition terms unchanged;
- for operating farms, extend the transition period by 4 years until 2030, which is equal to the period of martial law in Ukraine
- 2. Active participation in the project "Roadmap" to ensure the implementation of farm animal welfare in Ukraine for 2025-2027";
- 3. Realization of the potential of consortia and LLL Centers in improving the skills of livestock producers in the field of welfare.







Link to the "Roadmap":

https://docs.google.com/spreadsheets/d/1u25MLOgPT0o43mVz6xEMAOIn_lvaFBtC/edit?usp=sharing&ouid=115999956021105646947&rtpof=true&sd=true

Annex 1 to the Roadmap Information Campaign Plan:

https://docs.google.com/spreadsheets/d/1_GG_4412ANm_5zZCibf-

onmHF7VXFk7l/edit?usp=sharing&ouid=115999956021105646947&rtpof=true&sd=true