



UNIUNEA EUROPEANĂ



Instrumente Structurale  
2014-2020

# METRO FOOD-RO



*Proiect cofinanțat din Fondul European de Dezvoltare Regională prin Programul Operațional Competitivitate 2014-2020*



METROFOOD-RO final Conference  
14th-15th November 2023

# University of Life Sciences “King Mihai I” from Timișoara



EUROPEAN CAPITALS OF CULTURE

**TIMISOARA**

2023

**Timișoara 2023**  
European Capital of Culture



## Cultural Programme

When it comes to Timișoara, people agree that it is Different. Different as in open, brave and diverse. A city that has not shied away from being counter-current, becoming, in moments of grace, a current in itself. A city that has not been ashamed of counter-culture, and has even understood that multiculturalism is not a term that only applies to ethnic groups and denominations.



METRO FOOD·RO



@2023.timisoara



Timișoara 2023



@Timisoara\_2023

[www.metrofood.ro](http://www.metrofood.ro)



# MISSION



- Education and research;
- Extension and consulting;
- Preparing students to obtain the highest academic knowledge and technical skills, which will allow them to integrate professionally in the fields of life sciences.



- ARACIS GUIDES
- SR EN ISO 9001:2015
- SR EN ISO CEI 17025:2018
- GLP- GVCP- GMP
- OHSAS 18001 / ISO 45001: 2018
- HACCP
- INTERNAL MANAGERIAL CONTROL



# Banat's University of Agricultural Sciences and Veterinary Medicine "King Michael I of Romania" from Timisoara

→ 6 faculties:



→ Educational offer:

- bachelor (33 study programs);
- master (27 study programs);
- PhD (2 doctoral schools- – 6 domains, Engineering of animal and plant resources, Veterinary Medicine);

→ 5500 students;

→ 292 teaching staff.

# RESEARCH – INNOVATION- TECHNOLOGICAL TRANSFER



- **fundamental research** with a larger international impact, with several significant publications
- **applied research** with more extensive practical involvement in the business and local industries

- **research domains**

## Bioengineering

- Nanotechnologies
- Smart agriculture
- Animal breeding
- New and emerging technologies

## Biosecurity

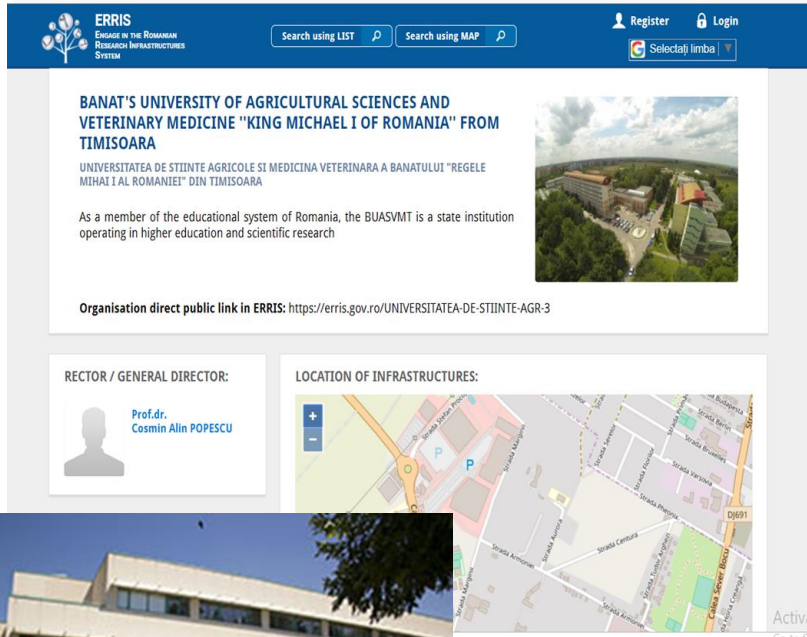
- Renewable energy
- Water management
- Soil erosion and climate change
- Animal and human health
- Food safety
- Geomatics and land cadaster



WORKSHOP - Research for industry and consumers benefit  
Timișoara, 20th of May 2021



# RESEARCH INOVATION AND TECHNOLOGICAL TRANSFER



**ERRIS**  
ENGAGE IN THE ROMANIAN  
RESEARCH INFRASTRUCTURES  
SYSTEM

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### BANAT'S UNIVERSITY OF AGRICULTURAL SCIENCES AND VETERINARY MEDICINE "KING MICHAEL I OF ROMANIA" FROM TIMISOARA

UNIVERSITATEA DE STIINTE AGRICOLE SI MEDICINA VETERINARA A BANATULUI "REGELE MIHAI I AL ROMANIEI" DIN TIMISOARA

As a member of the educational system of Romania, the BUASVMT is a state institution operating in higher education and scientific research

Organisation direct public link in ERRIS: <https://erris.gov.ro/UNIVERSITATEA-DE-STIINTE-AGR-3>

RECTOR / GENERAL DIRECTOR:  
Prof.dr.  
Cosmin Alin POPESCU

LOCATION OF INFRASTRUCTURES:



RESEARCH FACILITIES



THE AGRICULTURAL EXPERIMENTAL UNIT



EXPERIMENTAL UNITS



PROJECT MANAGEMENT UNIT

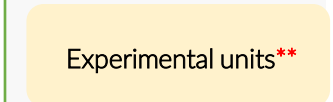
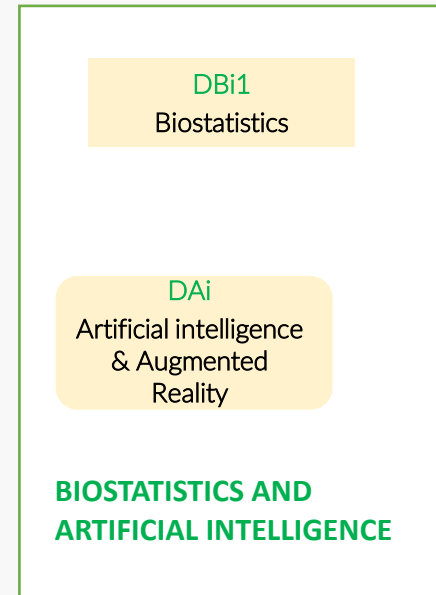
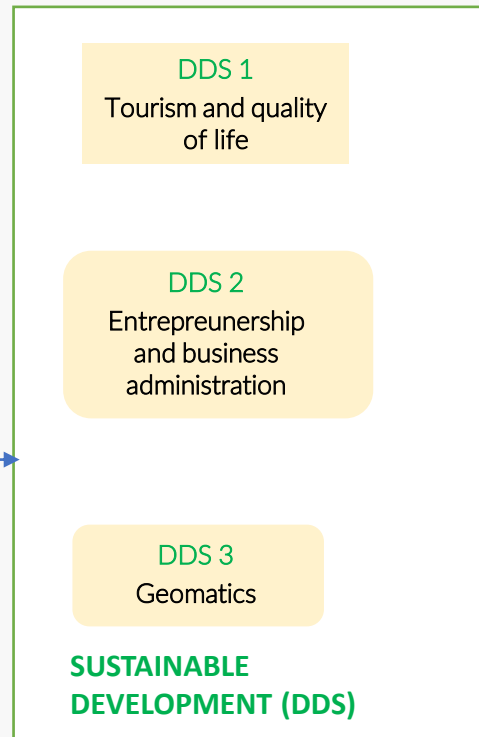
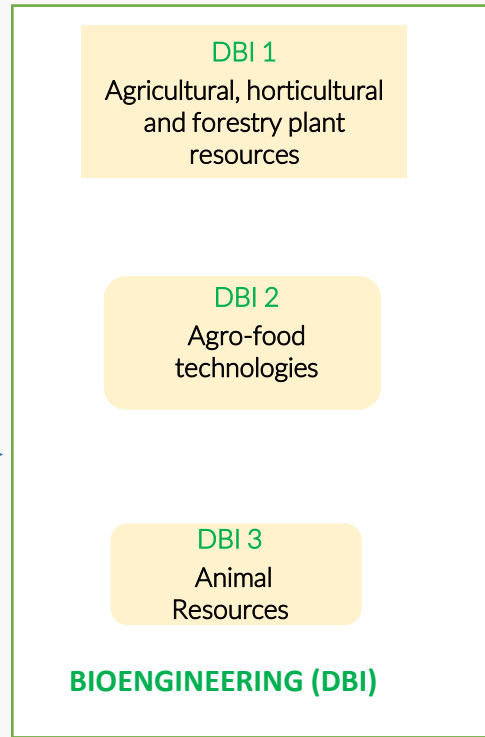
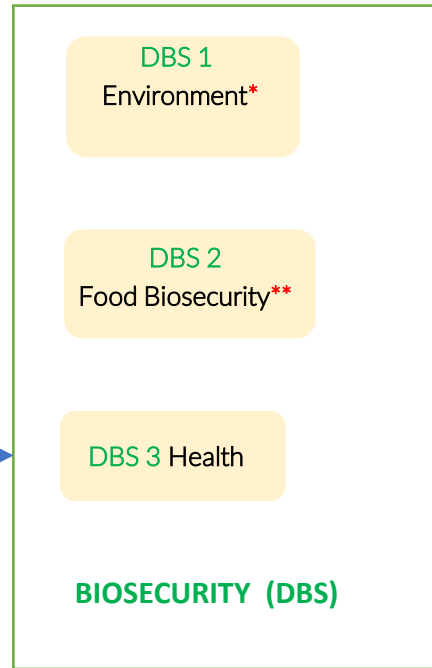


TECHNOLOGY TRANSFER CENTER





# Research facilities. - ULST`s Research Institute for Biosecurity and Bioengineering



\*RENAR accreditation  
 \*\* Sanitary veterinary authorization





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### UNIVERSITY OF LIFE SCIENCES "KING MIHAI I" FROM TIMISOARA

UNIVERSITY OR HIGHER EDUCATION INSTITUTION

Short link: <https://eeris.eu/ERIO-2000-000P-0077>

As a member of the educational system of Romania, the University of Life Sciences „King Mihai I” from Timisoara (ULST) is a state institution operating in higher education and scientific research. The traditions of the ULST are connected to the establishment of the Faculty of Agronomy on July 30, 1945, by Decree No 2394 issued by King Mihai (Michael) I of Romania and Law No 617, published in the Monitorul Oficial (Official Gazette) of Romania on August 1, 1945. The Faculty initially functione...



UNIVERSITATEA DE STIINTE AGRICOLE SI MEDICINA VETERINARA A BANATULUI "REGELEA" TIMISOARA  
www.usab-tm.ro  
rectorat@usab-tm.ro  
0040-256-277009  
Calea Aradului, 119, Timisoara 300645, Timis Romania



Cosmin Alin POPESCU [cosmin\\_popescu@usab-tm.ro](mailto:cosmin_popescu@usab-tm.ro)

PROF.DR.

Location of infrastructures

List of infrastructures

Find RI by name, location, description, domains, organisation Search





# RESEARCH LABORATORIES

- Interdisciplinary Research Platform "*Organic, Sustainable Agriculture and Food Safety*"
- "*Horia Cernescu*„ Research Laboratories
- Research Center for " Food Science,,
- Laboratory of Food and Waterborne Pathogens Detection (LFWPD)
- Invasive species monitoring unit
- Diagnosis Laboratory and Phytosanitary expertise
- Geomatics research laboratory
- Laboratory of Extraction, Isolation and Characterization of Bioactive Compounds
- ELISA Diagnostic Laboratory - Infectious Diseases
- Bacterial Infectious Diseases Laboratory
- Molecular Genetics Laboratory
- Aquaculture research laboratoy
- Research unit for fish farming in recirculating aquaculture system
- Technological platform for sturgeon farming in recirculating aquaculture system





# INTERDISCIPLINARY RESEARCH PLATFORM



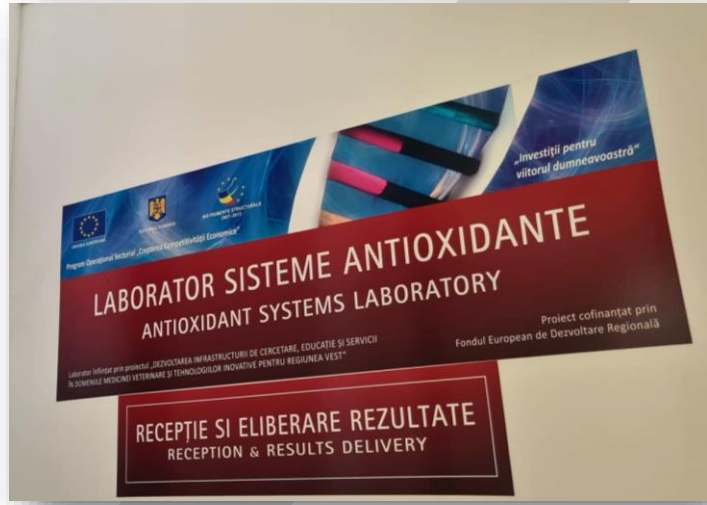




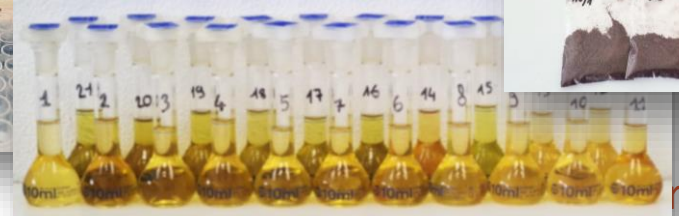
**CLC** COMPLEX DE LABORATOARE DE CERCETARE HORIA CERNESCU



# HORIA CERNESCU RESEARCH UNIT



- ✓ *oxidative stress (MDA, SOD, TAC, GSH/GSSG, GPx, CP);*
- ✓ *colorimetric assays;*
- ✓ *chromatographic assays (volatile compounds profiling GC MS);*
- ✓ *immuno-enzymatic assays (ELISA);*
- ✓ *plant material extracts and characterization;*
- ✓ *freeze-drying for animal and vegetal matrix*
- ✓ *Protein profiling – Chip electrophoresis with fluorescence detection, nanoflow HPLC MS QTOF (Chipcube)*



# THE AGRICULTURAL EXPERIMENTAL UNIT

The Agricultural Experimental Station has **2,507 ha** of agricultural land, of which:

- **2,330 ha** arable land;
- **78 ha** grasslands;
- **64 ha** haymaking fields;
- **24 ha** vineyards;
- **8 ha** orchards.





## R&D PROJECTS

- Horizon 2020 – 3 projects
  - Interreg-IPA Cross-border Cooperation Programme Romania – Serbia – 2 projects
  - Ministry of European Funds – 6 projects
  - Ministry of Agriculture, Agency for Rural Investment Finance – 4 projects
  - Ministry of Education and Research – 8 projects
  - Ministry of Education – 3 projects
  - Erasmus Plus- KA2 – Cooperation for innovation and the exchange of good practices – 6 projects
  - Companies – 20 projects
  - Norway Grants – 1 project
  - HEI Consortium 1 project
- Joint project for conservation and sustainable use of plant genetic resources from border areas as consequences of climate change
  - Strategies to predict, prevent and reduce the effect of fungal contamination on cereals quality, production and food safety
  - Renewable Energy and Circular Economy Applied in an Academic Community as an Example for Smart Sustainable Development
  - SMALL RuminanTs breeding for Efficiency and Resilience
  - Bioeconomic approach to antimicrobial agents - use and resistance
  - Cross – border network for quality monitoring of Bega river to a further sustainable management

## Research projects

- 1 Building ecosystem Integration Labs at HEI to foster Smart Specialization and Innovation on Sustainable Raw Materials cod HEI4S3-R, 2022-2024, <https://eit-hei.eu/projects/hei4s3-rm/>
- 2 Bioeconomical approach to antimicrobial agents- use and bioresistance , PN-III-P1-1.2-PCCDI-2017-0361, <https://clchc.usab-tm.ro>
- 3 RES and Circular Economy Applied in an Academic Community as an Example for Smart Sustainable Development, Norway Grants, code 2020/554215, [https://biocombustibil-tm.ro/res-circular/ro\\_ro/](https://biocombustibil-tm.ro/res-circular/ro_ro/)
- 4 Boosting the green future via university micro-credentials B-Green-ED 2022-1-BG01-KA220-HED-000085821, <https://bgreened-eu>
- 5 Strategies regarding the valorization of horticultural and agricultural byproducts as functional foods in the context of a circular economy (BYPROD) Strategic partnership ERASMUS K2, project no.2020-1-RO01-KA203-080172
- 6 Let's produce new functional bakery products for people with digestive disorders Program Erasmus+ - Strategic partnership ERASMUS K2–2019-1-RO01- KA202-063170 [https://www.usab-tm.ro/utilizatori/tpa/file/cercetare/proiecte%202020/Alexa%20Ersilia-FBforPDD\\_RO01-KA202-063170.pdf](https://www.usab-tm.ro/utilizatori/tpa/file/cercetare/proiecte%202020/Alexa%20Ersilia-FBforPDD_RO01-KA202-063170.pdf)
- 7 Cooperation on innovation and exchange of good practice in the hypoglycemia diet for people with diabetes ERASMUS K2, project nr. 2019-1-RO01-KA203-063499 [https://www.usab-tm.ro/utilizatori/tpa/file/cercetare/proiecte%202020/Alexa%20Ersilia-HYPOGLYCEDIET\\_RO01-KA203-063499.pdf](https://www.usab-tm.ro/utilizatori/tpa/file/cercetare/proiecte%202020/Alexa%20Ersilia-HYPOGLYCEDIET_RO01-KA203-063499.pdf)
- 8 Development of an innovative pork product with dehydrated fruit filling and crust - PN-III-P2-2.1-CI-2017-0562 - <https://www.usab-tm.ro/ro/proiecte-cercetare-consultanta/picpuf-11995>
- 9 Use of stearin obtained by dry fractionation from lard as a substitute for margarine in the puff pastry manufacturing process - PN-III-P2-2.1-CI-2017-0493 - [https://www.usab-tm.ro/utilizatori/tpa/file/cercetare/Proiect\\_Rinovetz\\_Alexandru.pdf](https://www.usab-tm.ro/utilizatori/tpa/file/cercetare/Proiect_Rinovetz_Alexandru.pdf)
- 10 Research on the recovery of biologically active substances in order to obtain food products with high nutritional intake [https://www.usab-tm.ro/utilizatori/tpa/file/cercetare/proiecte%202020/Velciov%20Ariana\\_1545-28.02.2019\\_%20FIA.pdf](https://www.usab-tm.ro/utilizatori/tpa/file/cercetare/proiecte%202020/Velciov%20Ariana_1545-28.02.2019_%20FIA.pdf)

# EU Strategy on STANDARDISATION - Setting global standards in support of a resilient, green and digital EU single market - 2022

<https://ec.europa.eu/docsroom/documents/48598>

## KEY SET ACTIONS

- Anticipate, prioritise and address standardisation needs in strategic areas
- Improve the governance and integrity of the European standardisation system
- Enhance European leadership in global standards
- **Support innovation**
- **Enable the next generation of standardisation experts**



The screenshot shows the European Commission's JoinUp portal. The header includes the European Commission logo and navigation links for 'Interoperable Europe', 'Interoperability Solutions', 'Sign in', and 'Get started'. The main content area features a collection titled 'Rolling Plan for ICT standardisation' with a 'Join this collection' button. Below the collection title, there is a navigation menu with options: 'About', 'Rolling Plan 2023', 'Rolling Plan 2022', 'Rolling Plan 2021', 'Rolling Plan 2020', and 'See more'. The 'Rolling Plan 2023' option is currently selected. A 'Translate' button is visible on the right side of the page.

<https://joinup.ec.europa.eu/collection/rolling-plan-ict-standardisation/rolling-plan-2023>



# MICRO – CREDENTIALS

## for education in standardization

*The use of micro-credentials by higher education providers has the potential to support lifelong learning, fill the knowledge and skills gap, increase the efficiency of higher education systems, encourage innovation in the provision, and reach a diverse group of learners.*

(<http://www.ehea.info> )

- A European Approach to Micro-Credentials: Output of the Micro-Credentials Higher Education Consultation Group. December 2020. <https://ec.europa.eu/edu>
- A Recommendation on a European approach to micro-credentials for lifelong learning and employability. 2022. <https://education.ec.europa.eu/education-levels/higher-education/micro-credentials>
- <https://enhanceuniversity.eu/wp-content/uploads/2022/12/ENHANCE-Template-for-Micro-credentials.pdf>

Without common standards ensuring their quality, transparency, cross-border comparability, recognition and portability, micro-credentials cannot reach their full potential.

<https://education.ec.europa.eu/education-levels/higher-education/micro-credentials>

Co-funded by the  
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of the European Union



BOOSTING THE GREEN FUTURE VIA  
UNIVERSITY MICRO-CREDENTIALS  
B-Green-ED  
2022-1-BG01-KA220-HED-000085821

2022-2024



UNIVERSITAT  
POLITÈCNICA  
DE VALÈNCIA



asro  
ORGANISMUL NAȚIONAL  
DE STANDARDIZARE

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MYKOLO ROMERIO  
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METROFOOD-RO final Conference  
14th-15th November 2023



## RISK MANAGEMENT IN BIOECONOMY

- ISO 31000:2018 Risk management — Guidelines
- ISO 31073:2022 Risk management — Vocabulary
- IEC 31010:2019 and EN IEC 31010:2019 Risk management — Risk assessment techniques
- IWA 31:2020 Risk management — Guidelines on using ISO 31000 in management systems.
- **EN ISO 22005:2007 Traceability in the feed and food chain — General principles and basic requirements for system design and implementation**

## CARBON FOOTPRINT ASSESSMENT

- IWA 42:2022 Net zero guidelines
- EN ISO 14067: 2018 Greenhouse gases — Carbon footprint of products — Requirements and guidelines for quantification
- EN ISO 22526-1:2021 Plastics — Carbon and environmental footprint of biobased plastics — Part 1: General principles
- EN ISO 14090:2019 Adaptation to climate change - Principles, requirements and guidelines
- EN ISO 14091:2021 Adaptation to climate change — Guidelines on vulnerability, impacts and risk assessment

## BIOMASS AND GOOD PRACTICES IN THE MANAGEMENT OF DEGRADED AND DESERTIFIED LANDS

- EN ISO 17225- 1:2021 Solid biofuels
- ISO 17828:2015 - Solid biofuels — Determination of bulk density
- BS EN ISO 18135:2017 - Solid Biofuels — Sampling
- ISO 14055- 1:2017 Environmental management — Guidelines for establishing good practices for combatting land degradation and desertification — Part 1: Good practices framework
- ISO/TR 14055-2:2022 Environmental management — Guidelines for establishing good practices for combatting land degradation and desertification — Part 2: Regional case studies.



## ENVIRONMENTAL MANAGEMENT SYSTEMS STANDARDS

1. ISO 14001:2015 - Environmental management systems - Requirements with guidance for use
2. ISO 14004:2016 - Environmental management systems - General guidelines on implementation
3. ISO 14006:2011 - Environmental management systems - Guidelines for incorporating eco-design
4. ISO 14031:2013 - Environmental management - Environmental performance evaluation - Guidelines
5. ISO 14040:2006 - Environmental management - Life cycle assessment - Principles and framework
6. ISO 14044:2006 - Environmental management - Life cycle assessment - Requirements and guidelines

## WASTE MANAGEMENT AND INDUSTRIAL POLLUTION CONTROL STANDARDS

1. ISO 24161:2022 Waste collection and transportation management — Vocabulary
2. ISO 15270:2008 - Guidelines for the recovery and recycling of plastics waste
3. ISO 18601:2013 - Packaging and the environment - General principles
4. ISO 18602:2013 - Packaging and the environment - Handling and storage
5. ISO 14064-1:2018 - Greenhouse gases - Part 1
6. ISO 14064-2:2019 - Greenhouse gases - Part 2

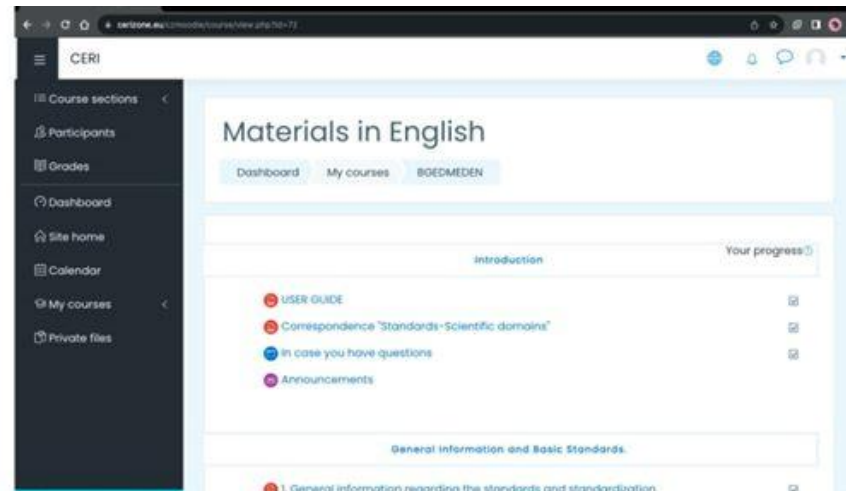
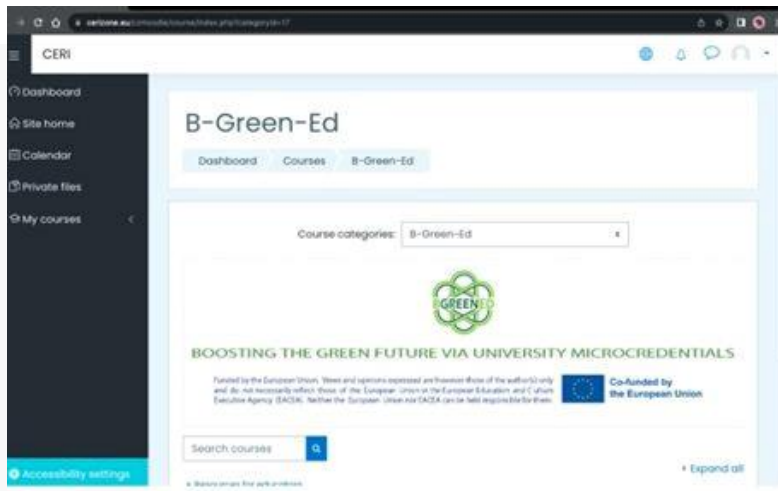
## CIRCULAR ECONOMY BUSINESS MODELS

- CLC/TR 45550:2020 Definitions related to material efficiency.
- EN 45555:2019 General methods for assessing the recyclability and recoverability of energy-related products.
- EN ISO 14006:2020 Environmental management systems - Guidelines for incorporating eco-design (ISO 14006:2020)
- EN 45554:2020 General methods for the assessment of the ability to repair, reuse and upgrade energy-related products



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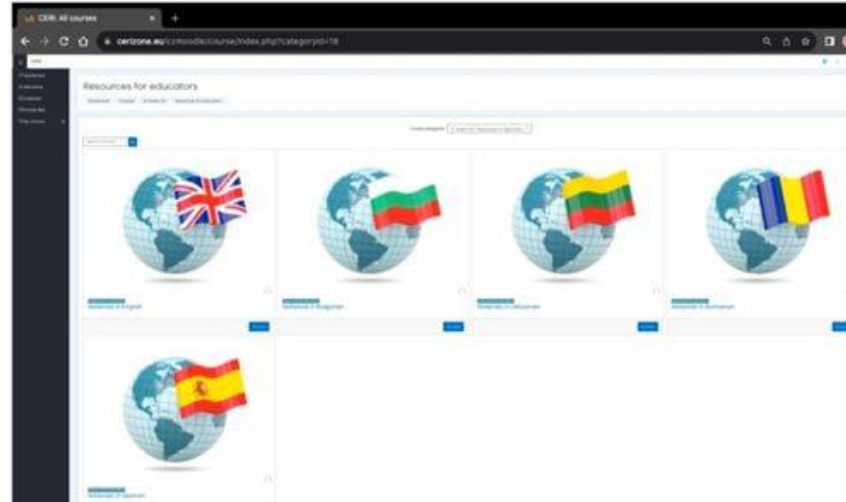
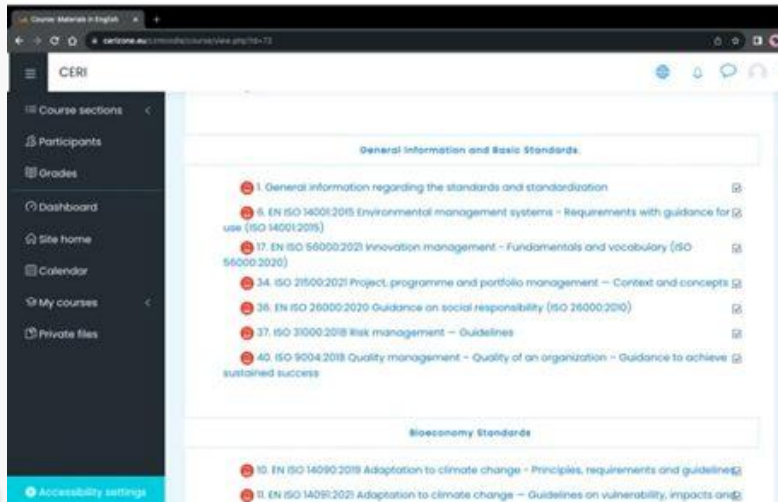




B-Green-Ed online platform

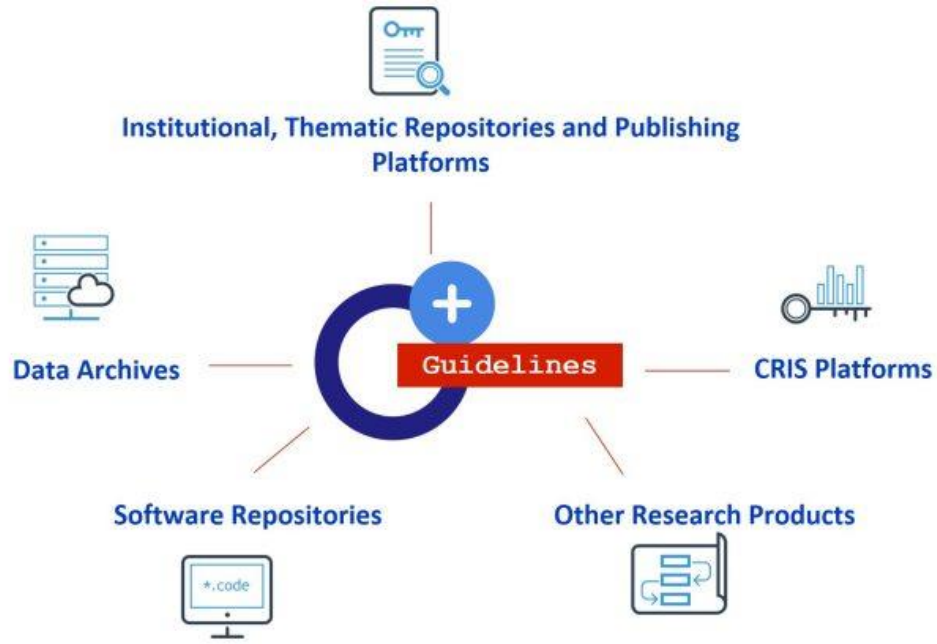


Boosting the green future via university micro-credentials

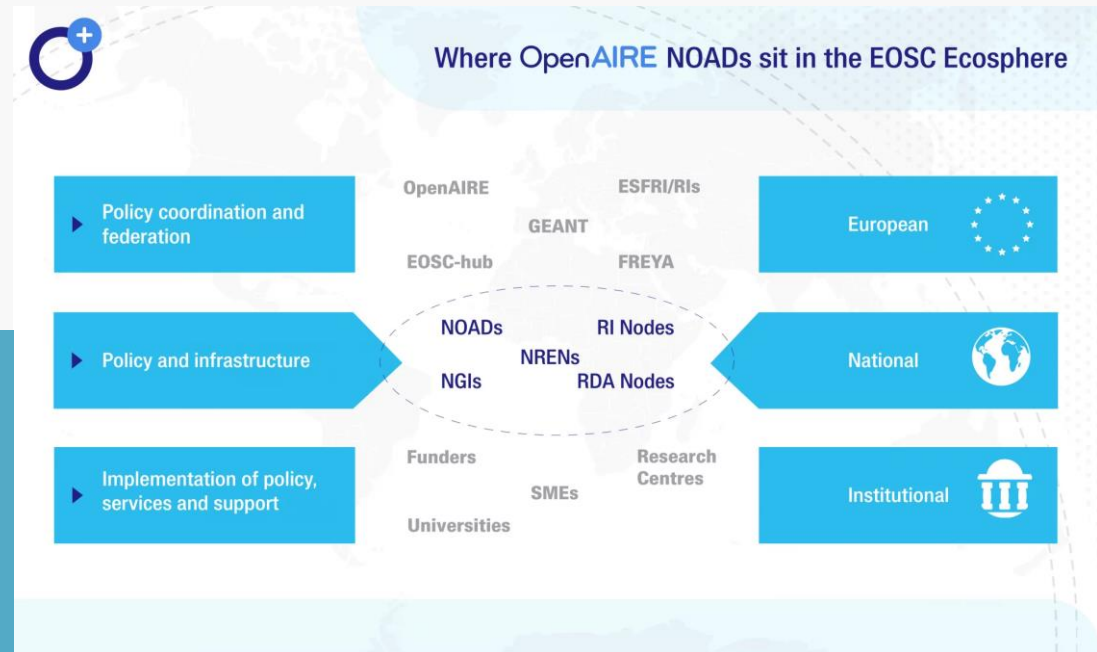


# ORGANIZATION AT INSTITUTIONAL LEVEL TO ENSURE EFFICIENT DATA MANAGEMENT

Open digital learning campus in life sciences – PNRR code 1831216209



**LIMS**



## RESEARCH DATA - OPEN BY DEFAULT



[h2020-hi-oa-data-mgt\\_en.pdf](#)

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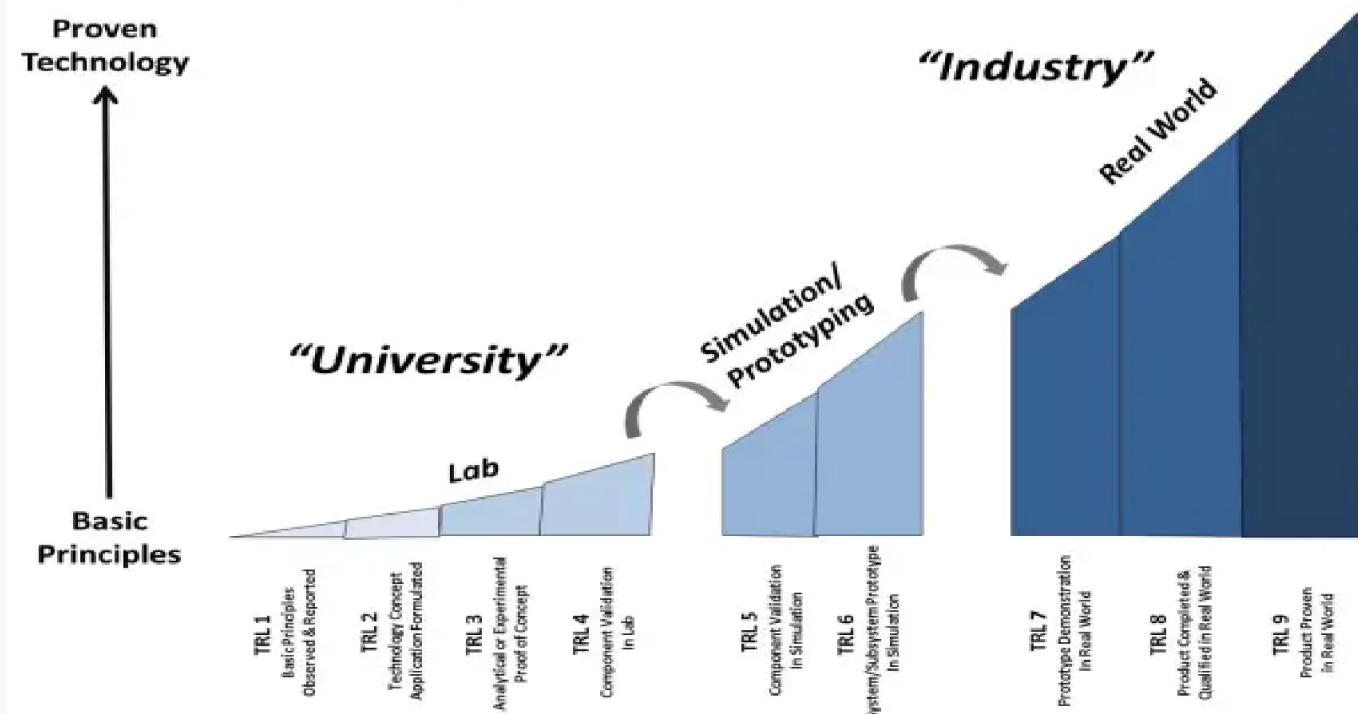


# Project management unit

- identifies and distributes project calls within the university
- participates in writing projects
- provides financial assistance in the implementation of projects
- ensures project management







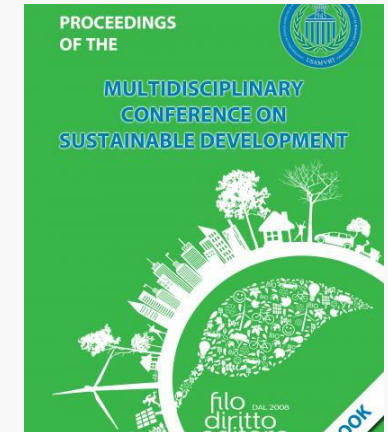
## Technology transfer center

- ensures the transfer of research results to the economic environment
- Patents
- registered trademarks

# MULTIDISCIPLINARY CONFERENCE ON **SUSTAINABLE DEVELOPMENT**



<https://content.sciendo.com/view/journals/arls/arls-overview.xml>



<https://www.filodiritto.com/proceedings>

# Monitoring of research & innovation activity

- scientific papers
- patents
- approved products
- scientific books / chapters in scientific books
- attendance at conferences
- citations/ h index
- projects



INREGISTRAT / ENREGISTRÉ 07/08/2019

No 018054085

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**OFFICE DE L'UNION EUROPÉENNE POUR LA PROPRIÉTÉ INTELLECTUELLE**  
**CERTIFICAT D'ENREGISTREMENT**

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**AKADEMIKAFOOD**

Director executiv / Le Directeur exécutif



**ROMÂNIA**  
**OFICIUL DE STAT PENTRU INVENȚII ȘI MĂRCI**

**BREVET DE INVENȚIE**  
Nr. 132235

Acordat în temeiul Legii nr.84/1991 privind brevetarea de invenții, republicată în Monitorul Oficial al României, Partea I, nr.613, din 19 august 2014.

Titular: UNIVERSITATEA DE ȘTIINȚE AGRICOLE ȘI MEDICINĂ VETERINARĂ A BANATULUI "REGELE MIHAI I AL ROMÂNIEI" DIN TIMIȘOARA, TIMIȘOARA, TM, RO

Titlu invenție: CREAMĂ HIDRATANTĂ PENTRU PIELE ȘI TEN, PE BAZA DE CENȘTERHA BIENNIS

Inventatori: HORABLAGA ADINA, TIMIȘOARA, TM, RO; MILVANOV CORNELIA, TIMIȘOARA, TM, RO; AHMAD-KHOJE MIRELA, MOFTANICA, TM, RO; MEDERLE NARCISA, TIMIȘOARA, TM, RO; MORARIU SORIN, DUMBRĂVIȚA, TM, RO; MORARIU FLORICA EMILIA, DUMBRĂVIȚA, TM, RO; HORABLAGA NICOLETA ELEONORA, TIMIȘOARA, TM, RO; MEDERLE OVIDIU ALEXANDRU, TIMIȘOARA, TM, RO; POPESCU GABRIELA, TIMIȘOARA, TM, RO

Descrierea invenției, revendicările și desenul la care se face referință în acest caz, fac parte integrantă din prezentul brevet de invenție. Durata brevetului de invenție este de 20 ani, cu începere de la data de 08/05/2017, cu condiția plății taxelor anuale de menținere în vigoare a brevetului.

București, Data eliberării 30/08/2020



**ROMÂNIA**  
**OFICIUL DE STAT PENTRU INVENȚII ȘI MĂRCI**

**BREVET DE INVENȚIE**  
Nr. 132411

Acordat în temeiul Legii nr.84/1991 privind brevetarea de invenții, republicată în Monitorul Oficial al României, Partea I, nr.613, din 19 august 2014.

Titular: UNIVERSITATEA DE ȘTIINȚE AGRICOLE ȘI MEDICINĂ VETERINARĂ A BANATULUI "REGELE MIHAI I AL ROMÂNIEI" DIN TIMIȘOARA, TIMIȘOARA, TM, RO

Titlu invenție: PREMIK MINERAL DESTINAT GÂNILOR CUATOARE CREȘTUTE ÎN SISTEM ECOLOGIC

Inventatori: ȘTEFĂVINA, TIMIȘOARA, TM, RO; JLEANCĂLĂN ARAD, AR, RO; SRAZ ELIZA, TIMIȘOARA, TM, RO; PET IONAN, COMUNA DUMBRĂVIȚA, TM, RO

Descrierea invenției, revendicările și desenul la care se face referință în acest caz, fac parte integrantă din prezentul brevet de invenție. Durata brevetului de invenție este de 20 ani, cu începere de la data de 07/05/2016, cu condiția plății taxelor anuale de menținere în vigoare a brevetului.

București, Data eliberării 29/01/2021



**ROMÂNIA**  
**OFICIUL DE STAT PENTRU INVENȚII ȘI MĂRCI**

**BREVET DE INVENȚIE**  
Nr. 130489

Acordat în temeiul Legii nr.84/1991 privind brevetarea de invenții, republicată în Monitorul Oficial al României, Partea I, nr.613, din 19 august 2014.


Titular: UNIVERSITATEA DE ȘTIINȚE AGRICOLE ȘI MEDICINĂ VETERINARĂ A BANATULUI "REGELE MIHAI I AL ROMÂNIEI" DIN TIMIȘOARA, TIMIȘOARA, TM, RO

Titlu invenție: SUPPLEMENT ALIMENTAR DIN PLANTE, UTILIZAT ÎN PREVENIREA ȘI COMBATAREA NOZEMOZELI LA ALBINE

Inventatori: MEDERLE NARCISA, TIMIȘOARA, TM, RO; MORARIU SORIN, DUMBRĂVIȚA, TM, RO; GÂMBĂȘIU GHORGHE, TIMIȘOARA, TM, RO; BOGDAN ALEXANDRU, BUCUREȘTI, B, RO; CRĂCIUN CĂTĂLIN, COMUNA GÂRLA MARE, MH, RO

Descrierea invenției, revendicările și desenul la care se face referință în acest caz, fac parte integrantă din prezentul brevet de invenție. Durata brevetului de invenție este de 20 ani, cu începere de la data de 14/02/2014, cu condiția plății taxelor anuale de menținere în vigoare a brevetului.

București, Data eliberării 28/02/2021



**ROMÂNIA**  
**OSIM**  
**REGISTRUL GENERAL**

Decizie de admitere a înregistrării mărcii


Prezenta decizie are ca obiect depunerea și înregistrarea mărcii comerciale, individuale, VPAS F, M 2020 0989 în anul data de depozit 07.02.2020.

**VoF**  
PASS

In conformitate cu art.30 al. (1) din Legea nr.84/1991, republicată, se admite înregistrarea mărcii, M 2020 0989 în anul data de depozit 07.02.2020.

Clasa 9. Supliment alimentar deosebit.

București, Data eliberării 07/02/2020



**ROMÂNIA**  
**OFICIUL DE STAT PENTRU INVENȚII ȘI MĂRCI**

**BREVET DE INVENȚIE**  
Nr. 131619

Acordat în temeiul Legii nr.84/1991 privind brevetarea de invenții, republicată în Monitorul Oficial al României, Partea I, nr.613, din 19 august 2014.

Titular: UNIVERSITATEA DE ȘTIINȚE AGRICOLE ȘI MEDICINĂ VETERINARĂ A BANATULUI "REGELE MIHAI I AL ROMÂNIEI" DIN TIMIȘOARA, TIMIȘOARA, TM, RO

Titlu invenție: GEL PENTRU TRATAMENTUL LEZIUNILOR USCATE D'EMODICOZA CANNĂ

Inventatori: MEDERLE NARCISA, TIMIȘOARA, TM, RO; MEDERLE OVIDIU, TIMIȘOARA, TM, RO; MORARIU SORIN, DUMBRĂVIȚA, TM, RO; DĂRĂȘIU GHORGHE, TIMIȘOARA, TM, RO; OPRESCU ION, COMUNA VĂRȘAȘ, TM, RO; LIE MARIL, ȘTELIAN, COMUNA BEICHEȘTECI MIC, TM, RO; NEGRESCU JULIANA ADINA, COMUNA GRECI, MH, RO

Descrierea invenției, revendicările și desenul la care se face referință în acest caz, fac parte integrantă din prezentul brevet de invenție. Durata brevetului de invenție este de 20 ani, cu începere de la data de 01/02/2016, cu condiția plății taxelor anuale de menținere în vigoare a brevetului.

București, Data eliberării 10/11/2020



**ROMÂNIA**  
**OFICIUL DE STAT PENTRU INVENȚII ȘI MĂRCI**

**Certificat de înregistrare a mărcii**

Nr. 163230

Acordat în temeiul Legii nr.84/1991 privind mărcile și indicațiile geografice (republicată), pentru marca:

**HAIR 10 TONIC**

Marca este înregistrată pentru clasele de produse servite înscris în Fișa de înregistrare a mărcii. Prezentul certificat este valid numai înscris în Fișa de înregistrare a mărcii înregistrate.

București, Data eliberării 10/08/2020



**ROMÂNIA**  
**OFICIUL DE STAT PENTRU INVENȚII ȘI MĂRCI**

**Certificat de înregistrare a mărcii**

Nr. 159881

Acordat în temeiul Legii nr.84/1991 privind mărcile și indicațiile geografice (republicată), pentru marca:

**Acad Polica**

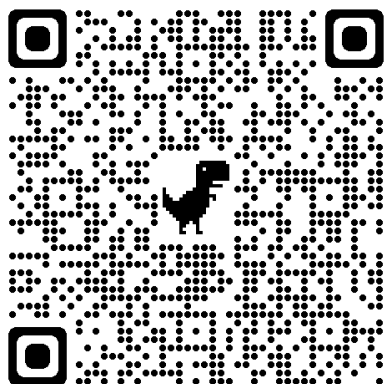
Marca este înregistrată pentru clasele de produse servite înscris în Fișa de înregistrare a mărcii. Prezentul certificat este valid numai înscris în Fișa de înregistrare a mărcii înregistrate.

București, Data eliberării 10/11/2020





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