



Instituto Politécnico de Viseu
Guia
Handbook
Polytechnic Institute of Viseu



School of **Education**

School of **Health**

Agrarian School

School of **Technology and Management of Viseu**

School of **Technology and Management of Lamego**

Acelerar o crescimento regional...

Construir sobre ativos específicos do território

I&I força motriz de desenvolvimento territorial

Triple Helix (o Quadruple Helix)

Internacionalização

- 
1. Instituições Ensino Superior
 2. Indústria
 3. Autoridades públicas
 4. Sociedade Civil

Inovação

processo interativo

co-criação

partilha de conhecimento

equipas multiator

tendências emergentes

oportunidades (negócio)

construir confiança

1. Instituições Ensino Superior
2. Tecido empresarial
3. Autoridades públicas
4. Sociedade Civil

Direções da evolução I+D+I

1. Digitalização

- agricultura de precisão
- indústria 4.0
- *big data*
- internet das coisas (IoT)



2. Descarbonização da energia*

- eficiência energética
- produção animal
- armazenamento de energia de fontes renováveis

3. Economia Circular

- prolongar o tempo de vida dos materiais / produtos
- reduzir o desperdício / resíduos
- reutilizar / reciclar

* contributo para a redução da emissão de gases com efeito de estufa

Direções da evolução I+D+I

4. Sistemas alimentares mais sustentáveis

- Segurança alimentar
- Alimentos saudáveis
- Uso eficiente de recursos naturais
- Doenças e pragas
- Agricultura familiar (região, bacia mediterrâneo, CPLP)
- Biodiversidade

5. Atividades para a qualidade de vida

- MaisSaúdeMental
- Dieta Mediterrânica
- Controlo de percursos de aplicação turístico-social
- Encontro entre gerações e a prática de estilos de vida saudável

Porquê projetos colaborativos internacionais ?

Respostas a desafios globais

- mudanças climáticas
- escassez de matéria-prima
- perda de biodiversidade
- degradação do solo
- segurança alimentar
- nutrição

Partilha alargada
do conhecimento
científico



Melhorar a capacidade
de inovar do território

Melhorar a
competitividade regional

Finlândia

JAMK, Jyvaskyla University of Applied Sciences**
Haaga-Helia, Porvoo University of Applied Sciences
LAMK, Lahti University of Applied Sciences*
University of Helsinki
TAMK, Tampere University of Applied Sciences*

Suíça

HES-SO: University of Applied Sciences and Arts, Suisse occidentale
Delémont**

Irlanda

ITT, Tralee Institute of Technology
LIT, Limerick Institute of Technology*
UCC, University College Cork
CIT: Cork Institute of Technology*
WIT: Waterford Institute of Technology*

Alemanha

FH-Do, Dortmund University of Applied Sciences and Arts*

Espanha

Universitat de Barcelona*

Building up...

Innovation in value chains

Bioproducts and organic agriculture

Forest diversification of wood and
non-wood products

Animal diseases

By-products of food systems

Social inclusion and healthy living

Tourism, Gastronomy, Health

SMEs and Small Holders

Sustainable agroforestry systems

Intergenerationality, immaterial heritage and digitization

Materials - Furniture - Design

Floresta

produtos não lenhosos

madeira

sequestro do carbono

recursos endógenos

design

mobiliário

saúde

termas

arte

produtos valor acrescentado

indústria agroalimentar

materiais

TICE

gestão

EDUCAÇÃO

sustabilidade económica, social e ambiental

Social

economia circular

Ongoing projects...

LighWood

HOTPUR

Innovative composites of wood and polyurethane

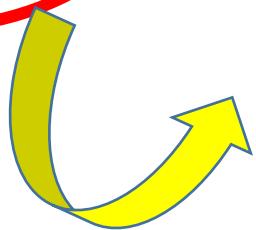
Development of reactive polyethylene resins for use as hotmelt in the wood industry

Wood industry/ Furniture design

Learnin's
Creatin'

Solving SI&DT problems, reducing drop-out and improving students' qualifications, using active learning methodologies

Energy efficiency/Active learning



Wine

Strategic project to support the **wine sector** in the Central Region

MobFood

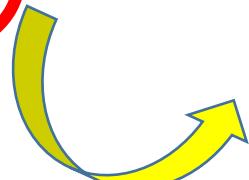
Mobilization of scientific and technological knowledge in response to challenges of the **agri-food market**

QCLASSE

Valorization of the authenticity of **Serra da Estrela Cheese PDO** and its vocation for health promotion

iCheese

Cynara innovation for best **cheese**



Sustainable agro-food value chain

BagaConValor

Amoniave

Ammonia

SheepIT

...

Creation of value in the **elderberry juice** technological process of production

Control of **ammonia** concentrations in poultry

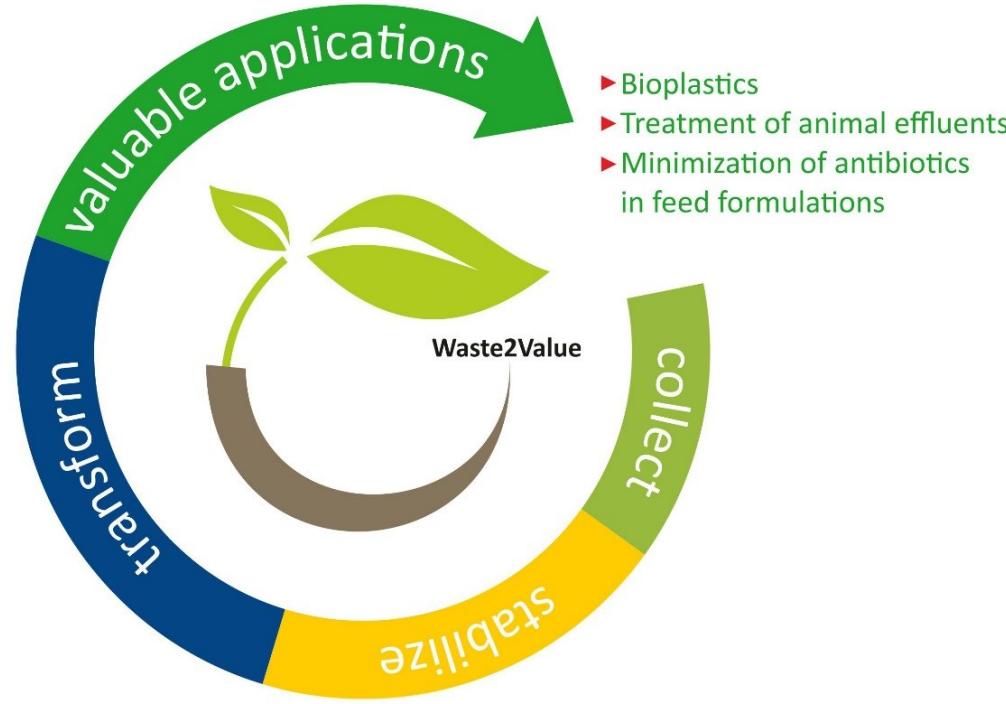
Processes, measurements and technology for reducing **ammonia** emissions from field-applied manure

Control system for **grazing** based on **IT technologies**

Sustainable agro-food value chain

Waste2Value - Valuation of agricultural by-products for animal feed, biodegradable plastics and treatment of animal effluents

CIRCULAR ECONOMY



I4@TMAD

Promotion of **Industry 4.0** in the Region of Trás-os-Montes and Alto Douro

INFO PATHS

Monitoring system and route control for **tourism** and **social** applications

CityAction

Integrated technology platform for **smart city** operation

BlueEyes

To help blind citizens to know the environment in which they live, where navigation and signaling are crucial to ensure their mobility and improve their quality of life

Digitization

• • •

VIAS

An APP for promoting **social inclusion** and **healthy living habits**

MAISaúdeMental

Monitoring and evaluation of **mental health indicators** of children and teenagers: from research to practice

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Health / Education Sciences

TraDish

Shaping tradition with innovation – the role of regional foods to potentiate local development

Broiler

Developing resilient and sustainable broiler production systems for the Mediterranean region

HepatMeat

Integrated monitoring and control of hepatitis E vírus in Mediterranean meat supply chains

Sol-DRY

Autonomous SOLar DRYing systems (red fruits and other berries)

Submitted

wFB

Constructing retarding plant barriers to slow down forest fires using native species

VALRUR

Rural and burned areas: valorization of the wood and barks of Acacias for the development of products in an eradication perspective

RuralRMT

Rural fires: building resilience models in mountain territories

ForestFA

Measuring the moisture content of forest fuels and assessing their behavior in the light of new climatic conditions

Submitted



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