



**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

**PV no Portugal 2030**

# Inovação

**processo interativo**

**co-criação**

**partilha de conhecimento**

**equipas multiator**

**tendências emergentes**

1. Instituições Ensino Superior
2. Tecido empresarial
3. Autoridades públicas

**oportunidades (negócio)**

4. Sociedade Civil

**construir confiança**

# 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, Jyväskylä 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



resultados ID&I ↔ impacto na região

# Floresta

produtos não lenhosos

madeira

Social

sequestro do carbono

recursos endógenos

design

mobiliário

saúde

termas

arte

produtos valor acrescentado

indústria agroalimentar

materiais

TICE

gestão

EDUCAÇÃO

sustentabilidade económica, social e ambiental

economia circular

# Ongoing projects...



**LigthWood**

Innovative composites of wood and polyurethane

**HOTPUR**

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**

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

**Amoniave**

Control of **ammonia** concentrations in poultry

**Ammonia**

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

**SheepIT**

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

...

**Sustainable agro-food value chain**



**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

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**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 virus in Mediterranean meat supply chains

**Sol-DRY**

Autonomous SOLar DRYing systems (red fruits and other berries)



**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

**GrazeIT; R\_FOREST, BioMasa - AP (Interreg) ...**



Instituto Politécnico de Viseu  
**Guia**  
**Handbook**  
Polytechnic Institute of Viseu



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