

# BIOHUBCAT

Hub de la  
Bioeconomia  
de Catalunya

# DIHAFcat

Digital Innovation Hub  
Agroalimentari i Forestal  
de Catalunya

**From 8 small villages to the entire region:  
The growth of a strategic need**

[www.BioHub.cat](http://www.BioHub.cat)

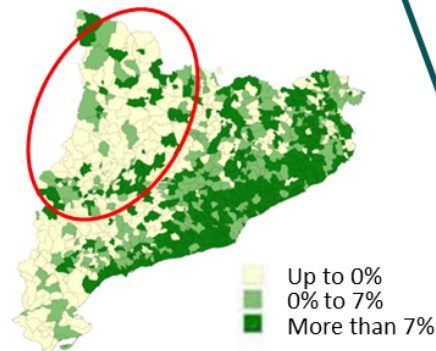
[www.CIDAF.cat](http://www.CIDAF.cat)

# The Shared Agenda of Terres de Lleida, Pirineu i Aran

## LOCAL CHALLENGE

### The territory needs a change in the economic model

The current economic model is not attractive to retain and capture population. The 95% of municipalities have less than 5,000 inhabitants



Predicted population growth (%) 2018-2033. Source: Idescat

Demographic, activity and occupation indicators confirm the loss of human capital coupled with low added value economic production with little capacity to generate attractive jobs

Indicator	Lleida	Catalunya
Cumulative GVA 2007-2018 (crisis/recovery balance)	-4,2%	+6,2%
Affiliation contraction 2007-2018	-5,5%	+1,3%
Population variation (2011-2020)	-1%	+3%

## GLOBAL OPPORTUNITY

Rural territories are rich in natural capital and they are key actors to achieving a green and climate-neutral Europe



# The Multilevel Perspective

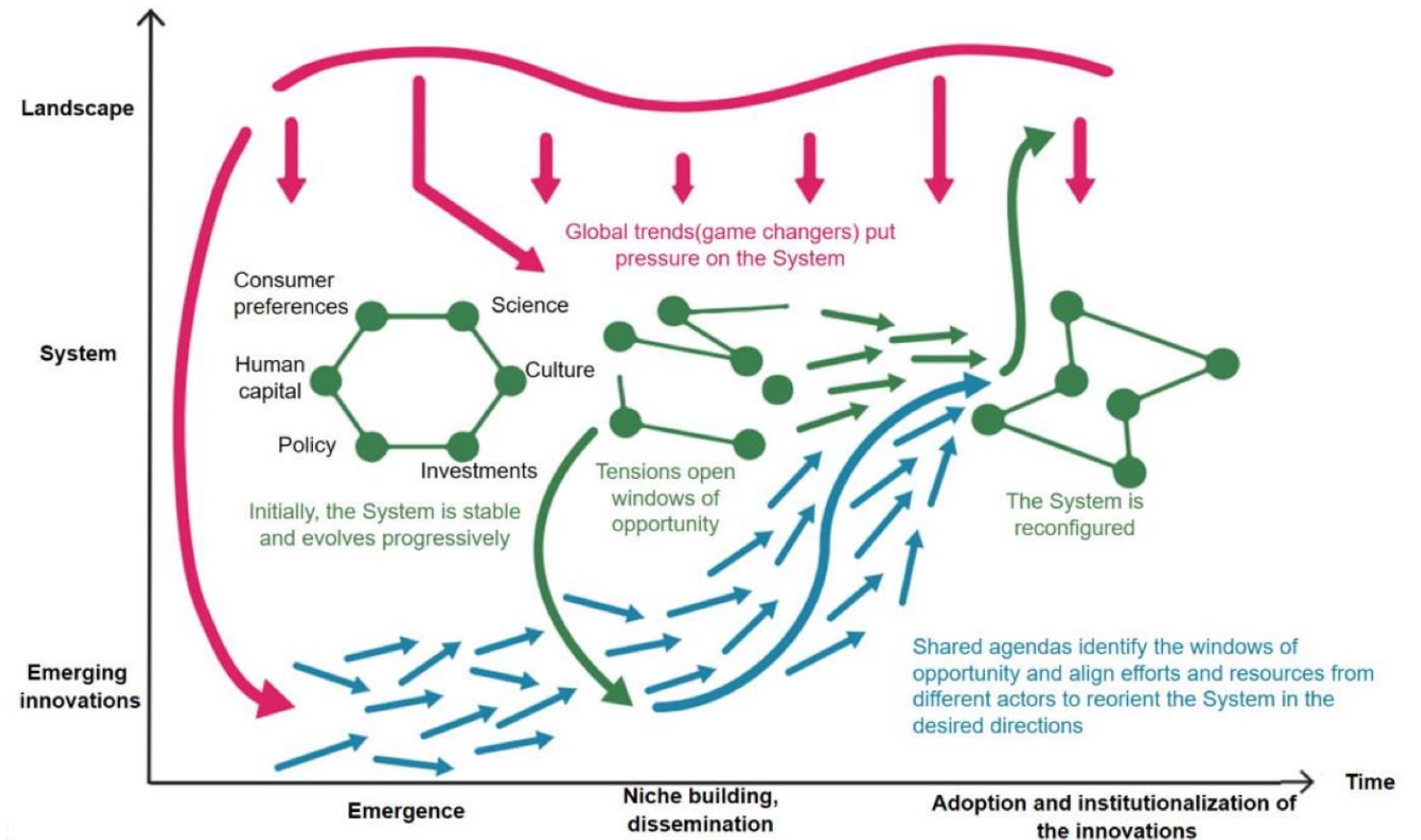
## 2. Preparing the foundations of collective action: vision, context and mindset

**Global trends (landscape)** that actors cannot influence: aging of the population, climate change, digitalization, geopolitical tensions... generate pressure on the dominant systems, destabilising them and opening windows of opportunity for alternative practices.

**Current regime:** "business as usual" in policies, technologies, markets, social values, infrastructures... is not adapted to global trends and become dysfunctional (it is not in balance and it is not delivering the expected results).

**Challenge-led and place-based experimental spaces to develop alternative practices:** stakeholders experiment and develop alternative practices that allow progress in the desired directions (**niches**).

**Figure 1. The Shared Agendas in the multilevel framework.**



Fernández & Romagosa (2020), based on Geels & Schot (2007).

# From 8 small villages to the entire region: the growth of a strategic need.

Municipal level

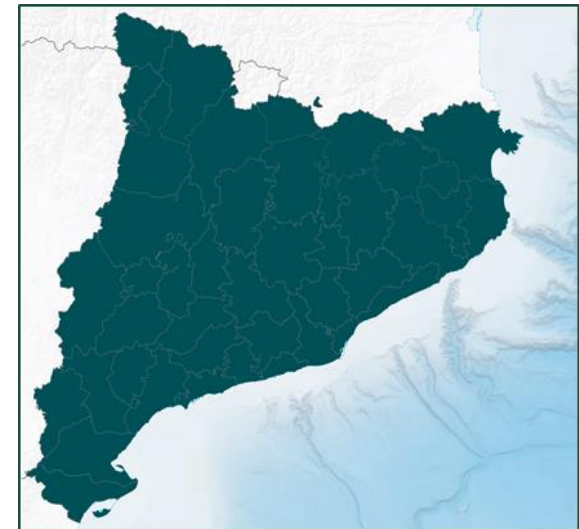
Territorial level

Territorial level (NUTS3)

Regional level (NUTS2)

2017

2022





# From 8 small villages to the entire region: the growth of a strategic need.

Municipal level

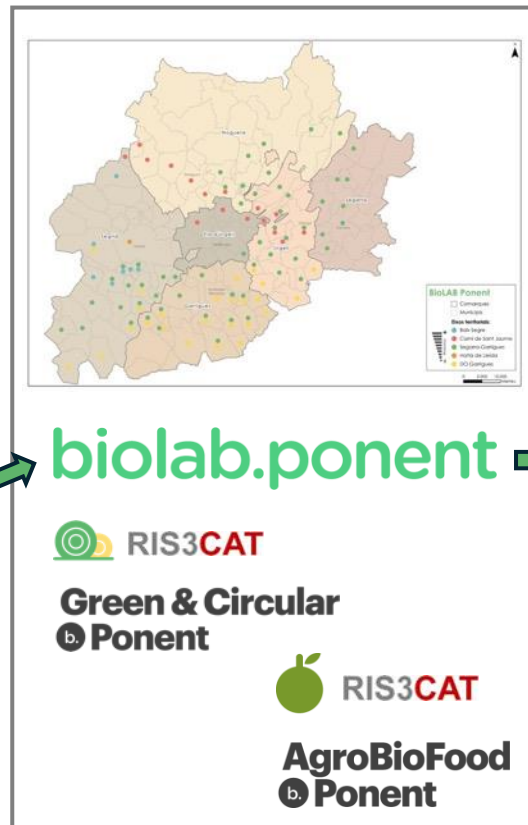
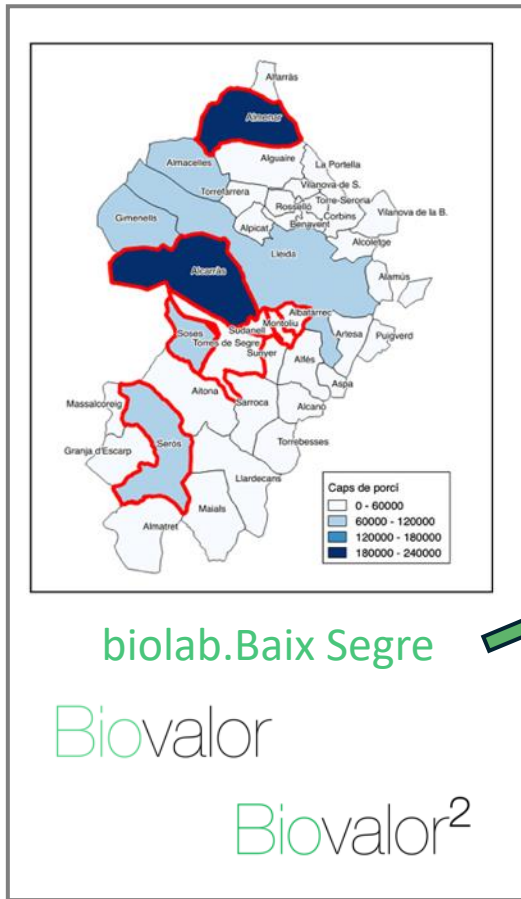
Territorial level

Territorial level (NUTS3)

Regional level (NUTS2)

2017

2022





European Network for  
Rural Development

# Bioeconomy Case Study

## The initiative

The BIOLAB PONENT is a mission-oriented Rural Open Innovation Living Lab. It aims to facilitate innovation and the co-creation, co-development and testing of local-based bio business models able to materialise the systemic transition towards the circular bioeconomy, as a model of sustainable development for rural areas. The initiative is a pilot bottom-up approach based on awareness raising and open innovation.



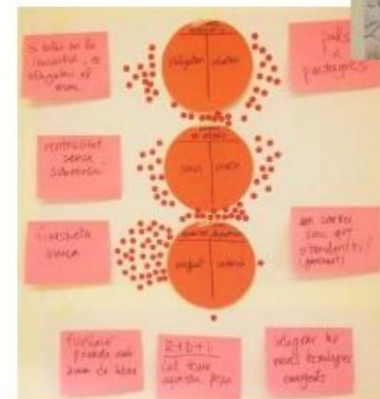
### AVAILABLE RESOURCES AND POTENTIAL BIO-VALUE CHAINS



Presentation of the workshop



Maps of resources and value chains



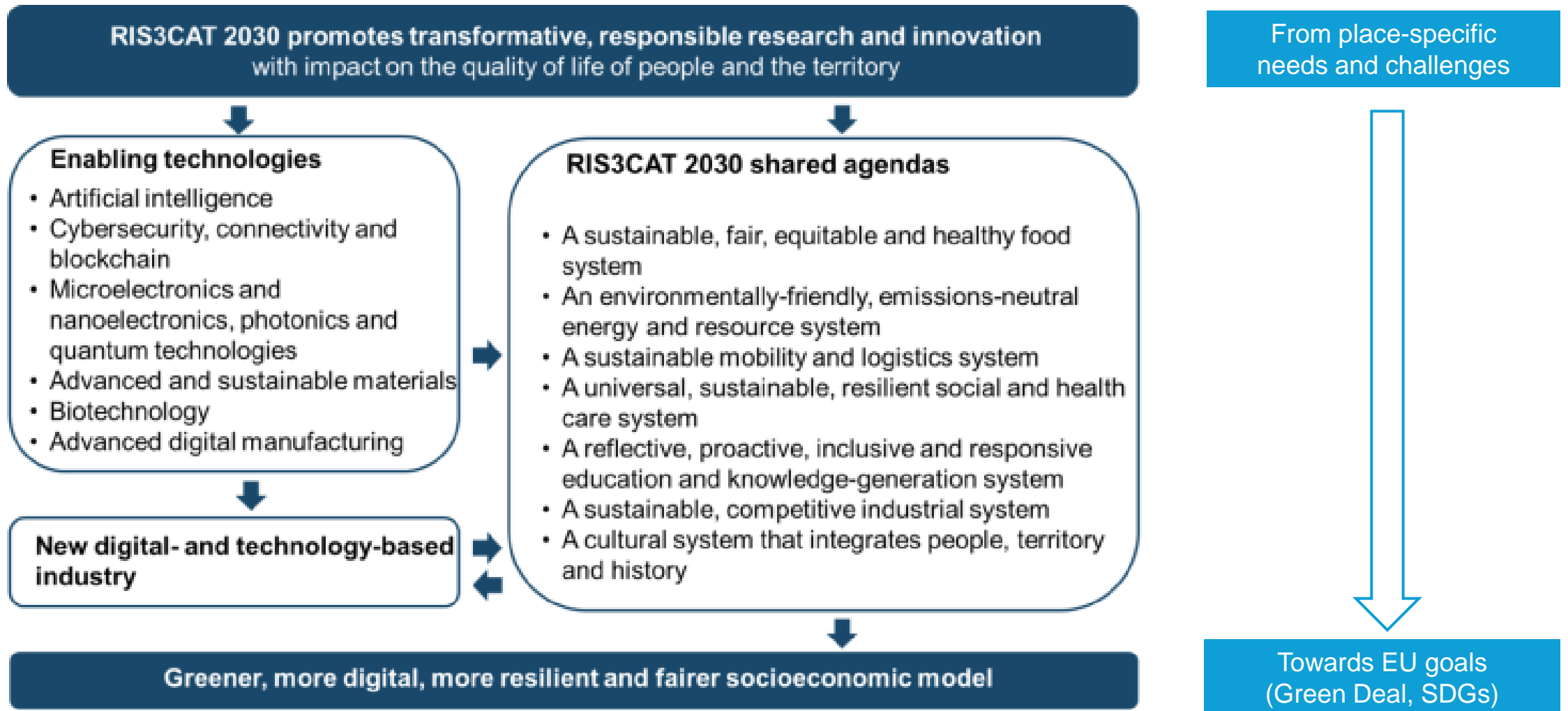
Biorefinery model characterization



Work groups discussion about the biorefinery model



# RIS3CAT 2030, Catalonia's smart specialisation strategy



# RIS3CAT 2030 main instruments

Moving from traditional S3 towards transformative innovation S3	RIS3CAT instruments
Creation of “new structures” for transformative innovation	<ul style="list-style-type: none"> <li>Shared agendas</li> <li>Opportunities Discovery Mechanism (MDO)</li> <li>Transformative social innovation labs (LIST)</li> </ul>
Development of skills and capacities for transformative innovation	<ul style="list-style-type: none"> <li>RIS3CAT co-creation and learning space</li> <li>RIS3CAT MEL frameworks</li> <li>New structures (<b>shared agendas</b>, MDO, LIST)</li> </ul>
Mobilisation and reorientation of existing innovation structures towards regional challenges and SDGs	<ul style="list-style-type: none"> <li>Public procurement of innovation</li> <li>Singular projects</li> <li>Support to technology’s transfer</li> <li>Support to SMEs innovation</li> </ul>

## The implementation requires:

- Abilities to develop, test and ensure the wider acceptance and uptake of innovation, novel practices and solutions
- Abilities to identify and frame place-based problems and regional vulnerabilities
- Strong orchestration capacities to coordinate multi-actor processes; mediate between different interests and minimise trade-offs and conflicts between regional innovation and path development, activities and scales; formulate shared visions and set collective priorities.



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Digital Innovation Hub  
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Generalitat  
de Catalunya



Diputació de Lleida

La força dels municipis

LA PAERIA



Ajuntament de Lleida

PARC  
AGROBIOTECH  
LLEIDA

Funding

Operation

June 2023

## The one-stop-shop for promoting bioeconomy in Catalonia

### MISSION

#### RESOURCE VALORIZATION

To promote the valorization of biological local resources to produce goods and services with high added value.

### VISION

#### BIO-INDUSTRIES DEVELOPMENT

Through new value chains that favor the sustainability of the agri-food sector and the retention and attraction of talent.

### AMBITION

#### PROMOTING CIRCULAR BIOECONOMY

Through innovation, entrepreneurship and international collaboration to improve the competitiveness of companies.

## S01

Promoting specific services to reduce the risks associated with the development of business models.

## OE2

Creating the ideal environmental conditions for attracting bio-industries and improving the competitiveness of existing ones.

## S03

Bringing together the actors of the RDI system and promote their orientation towards the resolution of business challenges.

## S04

Encouraging public and private demand for products and services linked to the circular bioeconomy.

## S05

Contributing to the definition, implementation and validation of policies and public support instruments.

## S06

Building alliances with the main European actors.



## How?

1. Connecting and promoting existing capacities.
2. Identifying service gaps and promoting initiatives to fill in such gaps.





### BIOHUB CAT Tech

Open access pre-industrial plants for validation of biotechnologies and bioproducts.



### BIOHUB CAT Industrial Areas

Promotion of specialized industrial areas.



### BIOHUB CAT Business services

Portfolio of specific services for companies and business models.



### BIOHUB CAT Accelerator Lab

Spaces & programs to encourage and accelerate entrepreneurship.



### BIOHUB CAT Feedstock push

Platform for locating and characterizing local renewable biological resources.



### BIOHUB CAT Arena

Territorial investment planning, and enhancement of existing capacities.



### BIOHUB CAT Sustainability constrains

Assessment parameters for decision making.



### BIOHUB CAT Skills

Identification of professional profiles and needed training.



### BIOHUB CAT RDI Nodes

Exploitation of the existing capacities in the RDI ecosystem.



### BIOHUB CAT Market Pull

Replacement of fossil consumables by bioproducts.



### BIOHUB CAT EU links

Missions and contacts with leading European regions.



### BIOHUB CAT Policy Instruments

Measures and regulation to support the development of the bioeconomy.



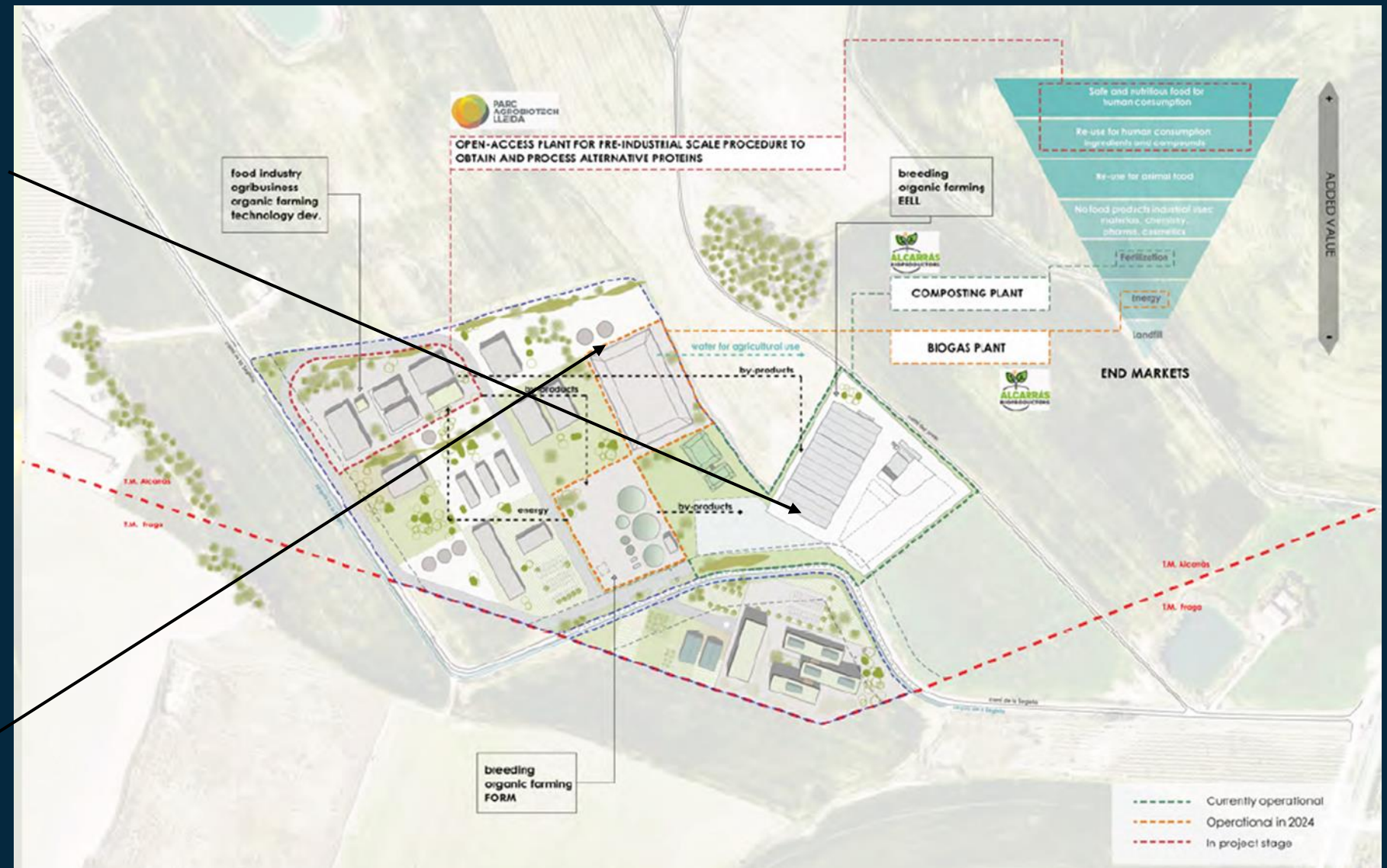
### BIOHUB CAT Awareness

Awareness, communication and dissemination



# BIOHUB CAT Industrial Areas

Promotion of specialized industrial areas





# BIOHUB CAT EU Links

Missions and contacts with leading European regions



<https://primed-project.eu/>



We learn



We practice



We share

**B H C**






November 2021 →


June 2023




**Membres fundadors**




**Generalitat de Catalunya**



**Diputació de Lleida**  
La força dels municipis




**Ajuntament de Lleida**




**PARC AGROBIOTECH LLEIDA**


**Membres promotors**




Universitat de Lleida




**CTFC**  
SCIENCE FOR FOREST MANAGEMENT, BIODIVERSITY & BIOECONOMY



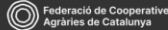
**eurecat**  
Centre Tecnològic de Catalunya




**IRTA**  
Institut de Recerca i Tecnologia Agroalimentàries




**SINERGIA**




Federació de Cooperatives Agràries de Catalunya




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**LEITAT**  
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(EDIH)



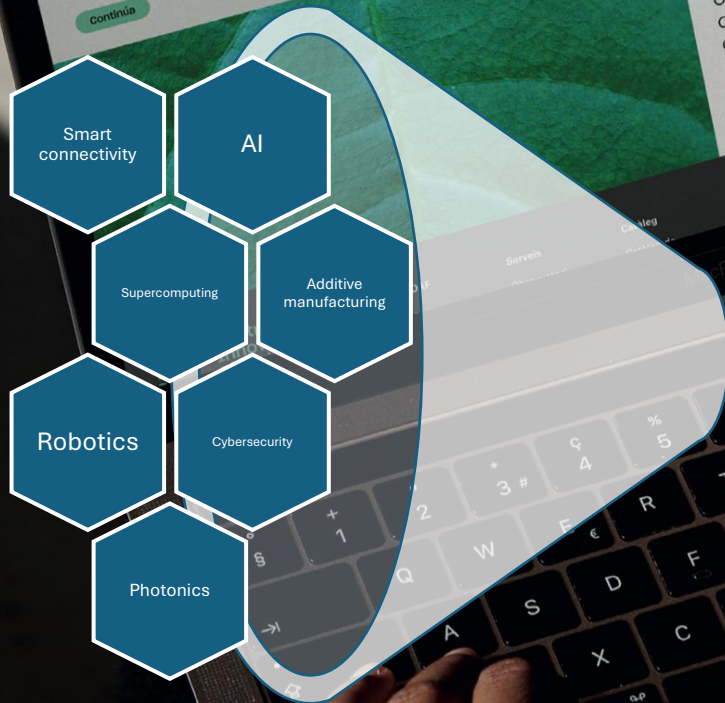
# DIH4CAT

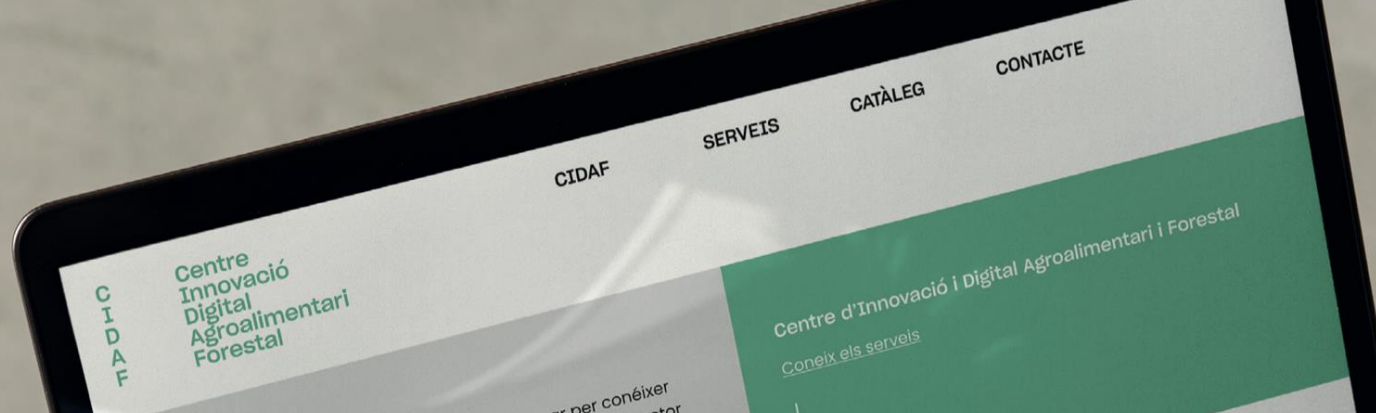
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Specific Objective	Lines of activity	Examples
<b>SO1</b> Reducing digital gaps	Success cases showcase	Shared newsletter with the associated partners
	Training	Agriculture 4.0 course (FEMAC)
	Digital diagnose and planning	Digital roadmap service (Eurecat)
	Partner search	Catalogue of forest sector digital tools (WoodMarkets-CTFC)
<b>SO2</b> Boosting data use and experimenting	Data	Catalan Forest Observatory (CTFC)
	Experimentation infrastructure	<b>agrifoodTEF.eu</b>
	Digital solutions	Promotion of associated partners services
<b>SO3</b> Boosting new business models	Innovation ecosystems	X-Agritech network (IRTA)
	Funding	APTEEnisa Investors Network
	Business development suport services	Market studies, strategic planning, PoC
<b>SO4</b> Boosting demand of digital services	Challenges, needs and opportunities	Collaboration network, innovation camps
	Digitization services promotion	Service access incentives
<b>SO5</b> CIDAFcat promotion and positioning	CIDAFcat promotion	Participation in events, workshops and conferences
	CIDAFcat positioning	Participation in EU projects and high-level discussion forums

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Feel free to ask!