

Main objective

To improve the environmental conditions to accelerate the development and implementation of biorefineries and bioindustries close to the biological resources through the creation of specific and specialized industrial areas that allow:

Expected results

Promote biomanufacturing deployment from a value chain perspective: from biomass supply over biomass processing to the biobased materials production. BIPs are conceived as environments that respond to cross-cutting, intersectoral and circular nature of the bioeconomy and that promote coexistence between traditional and emerging sectors, insofar as they all process renewable and local biological resources.

Overcome obstacles linked to the current regulatory framework and generate evidence that allows this regulatory framework to be adapted to the new industrial model.

Improve the economic, social and environmental performance of the companies that settle there through, for example, by using each other's waste material and waste (residual) energy flows.

The leading BIPs are located in **Alcarràs**, focused on sustainable agri-food production; **Alguaire**, related to sustainable mobility; and **Balaguer**, on sustainable energies.

Justification

The concept of bio-industrial parks has been developed collaboratively since the beginning of the Shared Agenda. It is the result of the change in perception on the part of the producers of renewable biological material, who have seen that the processing and conversion of these resources is an opportunity to attract industries with high added value to rural territories and at the same time make their own business model more sustainable.

The various interventions on the agenda in this regard have allowed, among others, to quantify, characterize and geolocate the available biological resources, analyze available technologies and learn first-hand about successful experiences. The concept of bio-industrial Parks makes it possible to exploit all this knowledge and at the same time face two of the most important challenges linked to the effective deployment of biomanufacturing model that must replace the current one based on fossil resources and linear processes, specifically, the need to adapt the regulatory framework and seek social acceptance of the model. As long as we talk about waste management plants and not sustainable industrial environments with high added value, it will be very difficult to make this paradigm shift effective.

Contribution towards

2035 Goals - AC LLEIDA TERRA D'OPORTUNITATS

Biopolygons in operation, with a regulatory framework, developed infrastructure and social acceptance, which allow the implementation of biorefineries and bioindustries that valorize endogenous resources, promote industrial symbiosis, create qualified jobs and are compatible and complementary with agro-food production.

SDG



Shared vision 2050 - AC LLEIDA TERRA D'OPORTUNITATS

Economic Development: BIP will attract green industries (secondary sector), promote new auxiliary services (tertiary sector) and will contribute to diversifying the incomes of the primary sector.

Sustainability: By promoting circular and biobased production method to supply multiples economic sectors and contribute to their descarbonization.

Education and Workforce Development: by creating qualified jobs in the industrials and services sectors, making the primary sector more for youth.

Transformative Innovation Ecosystem: BIP will foster collaboration between businesses, academia, and technology providers, creating an ecosystem that encourages continuous innovation, supports startups, and speeds up the commercialization of new products and services.

Improved Quality of Life: directly, BIP contributions to economic growth, job creation, and sustainability will have a positive impact on society by improving living standards and reducing inequality.

NICHES

BIOFERTILIZERS

BIOFUELS

BIOTECH PARKS

TIP: Boosting bio-industrial parks through 3 pilot initiatives in Alcarràs, Balaguer, and Alguaire.

Approximate investment: 74M €

Expected economic impact: 145M €

References:

- The global biotech market, valued at EUR 720 billion in 2021, drives economic security with alternative products.

Large biorefineries thrive in specific conditions, with rural EU regions key to sustainable industrial growth and local jobs.
Local operations support circular models, with small-scale solutions and innovative cooperation across sectors.

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