

## TIP 8. FACTORY OF FACTORIES: 4.0 TECHNOLOGY PILOT PLANT HUB



### FACTORY OF FACTORIES

**TIP:** Factory of Factories to promote the local development of Industry 4.0 technologies.

**Approximate investment:** 22M €

**Expected economic impact:** 41,3M €

#### References:

- The number of companies linked to Industry 4.0 in Catalonia has tripled since 2017.
- Spain ranks 26th out of 67 in Technological Infrastructure, dropping 4 positions compared to 2023.

### Main objective

This hub will serve as a high-value technological open access infrastructure accessible to multiple entities, enabling them to accelerate their own developments by using the plant's advanced tools and resources.

### Expected results

The triple transition promoted by the Agenda requires 4.0 technologies integration into manufacturing and industrial processes.

The creation of a pilot plant to test 4.0 technologies prior to industrial scaling, allowing companies to validate these technologies in a controlled environment, reducing risks associated with implementation and promoting impact in one or more transitions.

This TIP it is directly related to the TIP Lifelong professional training center for Green Jobs, given that it offers the possibility to identify, promote and apply qualified training.

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### Justification

Many companies in the region face challenges in modernizing their operations to stay competitive in an increasingly digitized global market. This pilot plant provides the necessary infrastructure to support this transformation, ensuring that companies can safely test and validate technologies before full-scale implementation.

Additionally, the hub will act as a collaborative space where businesses, universities, and technological institutions can utilize shared resources to speed up their innovation and development processes. It is expected to drive regional economic development and create highly skilled jobs.

It is an infrastructure that must allow the development and/or adaptation of technology linked to the triple transition to be validated, in a common environment where it is possible to experience combinations of technologies that promote results in one or more transitions.

### Contribution towards

#### 2035 Goals - AC LLEIDA TERRA D'OPORTUNITATS

Existing capacity for local 4.0. technological development associated with the new food production model, the new bioindustrial model and the new sustainable energy model.

Technological adoption in the entire primary sector to optimize productivity and efficiency in the use of resources.

Existing data infrastructures and digital tools for decision making.

#### SDG

Directly

Indirectly



#### Shared vision 2050 - AC LLEIDA TERRA D'OPORTUNITATS

**Economic Development:** The hub will attract investments, generate new business opportunities, and create high-value jobs in cutting-edge industries, enhancing the region's global competitiveness.

**Sustainability:** By promoting sustainable production methods, such as energy-efficient processes and waste-reducing technologies, the hub will contribute to reducing environmental impacts.

**Education and Workforce Development:** The plant will serve as a training center, providing future generations of workers with hands-on experience in 4.0 technologies, ensuring that the workforce is well-equipped to meet the demands of the future job market.

**Transformative Innovation Ecosystem:** The hub will foster collaboration between businesses, academia, and technology providers, strengthening the ecosystem as a whole in a key element such as technological development that encourages continuous innovation, supports startups, and speeds up the commercialization of new products and services.

**Improved Quality of Life:** Indirectly, the project's contributions to economic growth, job creation, and sustainability will have a positive impact on society by improving living standards and reducing inequality.

#### NICHES

