



Aitiip: Manufacturing ideas



Aitiip technology centre

RTO (Research institution)

Zaragoza, Spain



+150

Multidisciplinary experienced professionals – Technology Centre and Spin-offs



20,000 m²

Innovative pilot lines for circular processes and sustainable products



4 spin offs

MOSES Productos, Tecnopackaging, AM3D and Nsolver



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21 M turnover

3 M€ yearly investment for key enabling technologies to the European Industry



250⁺

44 European Projects from 2012 to 2024 (A) + 16 (T) + 9 (M) = 69 (+6 in 2025)

21 Coordinated from 2012 to 2024.

Currently, 12 active in coordination and 33 projects ongoing in total.





Aitiip research areas

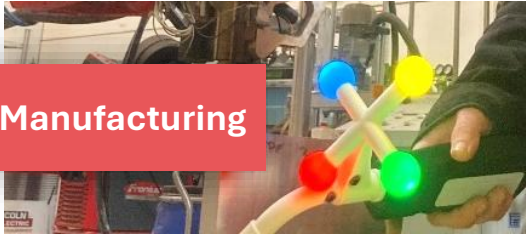


Innovative Materials

New formulations and advanced high-performance materials. Thermoplastic, thermoset, **bio-based** and **compostable** materials.

Developing **innovative solutions**, products and technologies for a variety of sectors based on the circular economy principles.

Advanced Manufacturing

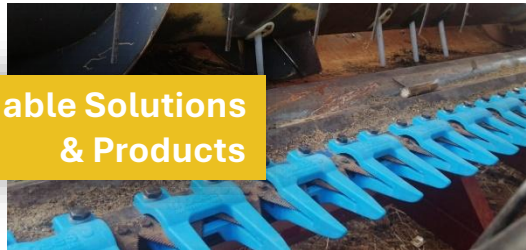


Recycling Technologies

Chemical and biological recycling technologies to improve the quality of recyclate.

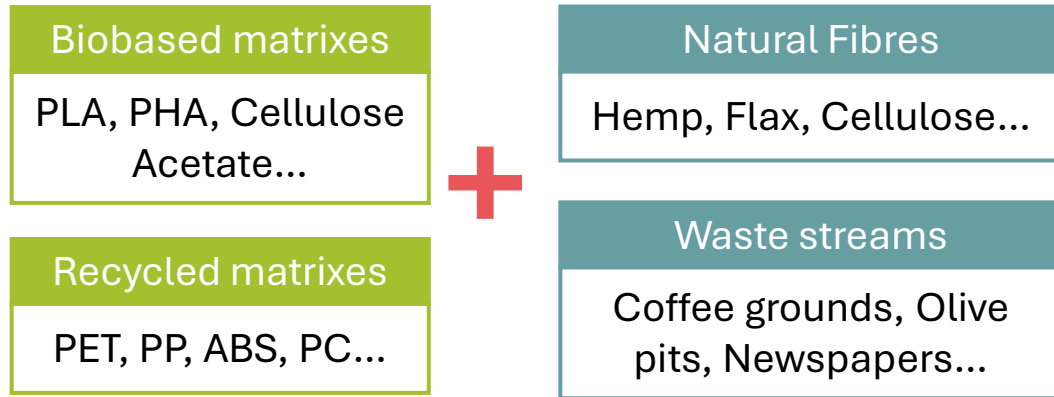
Acceleration of the product development cycle from the concept to the successful introduction into the market

Sustainable Solutions & Products



Materials Innovation and Pilot Plants

We have a **dedicated laboratory** for the development of **new sustainable formulations**, covering the entire process from **chemical formulation to compounding and extrusion**.



We have successfully developed a wide range of innovative formulations, integrating:

- **Natural fibres:** Flax and hemp (Inn-Pressme), Lemon and Pomgranate Pigments (Barbara), Wool (Innovawool) providing bio-based reinforcement for composites.
- **Ceramic-based additives:** (Keramik), improving mechanical and thermal properties.
- **Algae-derived materials:** (PlastiSea), promoting biodegradable and bio-based solutions for packaging and beyond.

To support innovation in eco-friendly materials, we operate pilot plants for:

- **Casting** (Seaweed)
- **Thermoforming** (Fish4Fish)
- **Film extrusion** (UNLOCK)
- **Rotomoulding**
- **Blow moulding** (Citruspack)



Advanced Manufacturing

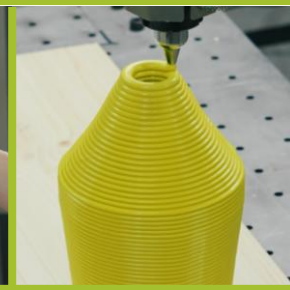
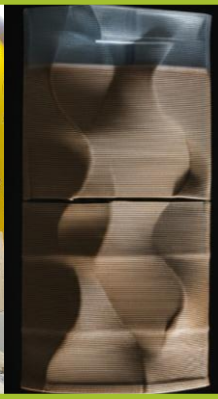
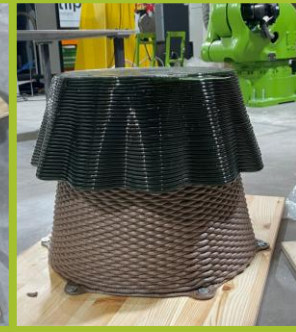
At Aitiip, we specialize in **polymer transformation and advanced manufacturing**, providing solutions across multiple industrial sectors, including **automotive, industrial applications and packaging**.

- **Injection moulding** is one of our core industrial activities. We operate a diverse fleet of injection moulding machines, covering a broad range of part sizes, clamping forces and materials, allowing us to tailor solutions for various applications at mass scale
- **Additive manufacturing** is a key enabler of **sustainable and efficient production**, allowing us to **reduce material waste** compared to traditional manufacturing. We operate a wide range of **3D printing technologies**, including:
 - **Powder bed fusion**
 - **Resin photopolymerization**
 - **Filament-based FDM/FGF printing**
 - **Large-format robotic 3D printing** Our **dedicated industrial facility** for large-scale AM enables us to print with:
 - **WAAM (Wire Arc Additive Manufacturing)** for metallic components (Kraken).
 - **LFAM (Large Format Additive Manufacturing)** for large-scale polymer-based structures (ATRIUM).





Advanced Manufacturing - LFAM





Topics of interest



HORIZON-NEB-2026-01-REGEN-01

Sustainable, inclusive, affordable and beautiful solutions for thermal comfort in buildings

HORIZON-NEB-2026-01-REGEN-03

Innovative solutions for the sustainable and beautiful use of vertical space

HORIZON-NEB-2026-01-BUSINESS-03

Approaches to reuse vacant, obsolete or underutilised spaces

HORIZON-NEB-2026-01-PARTICIPATION-02

Innovative approaches for the spatial design of neighbourhoods

HORIZON-MISS-2026-04-CIT-NEB-B4P-CCRI-03

Introducing circular economy models in the construction sector, from building to city scale (joint topic)

If you are interested in collaborating on upcoming proposals, we would be delighted to connect.

Feel free to reach out!

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