

FOR IMMEDIATE RELEASE – 25 June 2025

## **REGEN Project Selected by EDA to Drive Circularity in Defence**

**Esch-sur-Alzette, Luxembourg:** The European Defence Agency (EDA) has selected the REGEN project as one of three groundbreaking initiatives to integrate circularity into the defence sector. Uplift360, a pioneer in advanced material recycling technologies, will play a critical role in this effort, leveraging its specialist expertise in the recycling and regeneration of aramid fibres to advance sustainable material solutions for high-performance defence applications.

### **Driving Circularity in Defence**

As part of the REGEN project, Uplift360 will focus on the recovery and reuse of continuous aramid fibres, a critical component in defence applications. This effort includes overcoming the complex challenge of PFAS coating removal, a significant barrier to scaling up advanced material recycling. By developing innovative technologies to increase the quality and characteristics of recycled spun aramids, Uplift360 aims to directly engage with material users for ongoing product evolution and development.

The REGEN project brings together a powerful consortium, including FECSA and AITEX from Spain, Uplift360 and the Luxembourg Institute of Science and Technology (LIST). This collaboration aims to accelerate the transition to a circular economy within the defence sector by fostering knowledge sharing, technical innovation, and sustainable resource management.

### **Uplift360's Role in REGEN**

- **Advanced Fibre Recovery:** Expertise in recycling and regeneration of aramid fibres.
- **PFAS Coatings Removal Technology:** Developing solutions to overcome this critical scaling challenge.
- **Direct Industry Collaboration:** Engaging with material users to refine and evolve product performance.

- **Circular Economy Leadership:** Contributing to the long-term sustainability of defence materials.
- **Techno-economic analysis (TEA):** To optimise the process accordingly.

## Quotes

*"Project REGEN marks a defining moment for defence material circularity, one that the team at Uplift360 are immensely proud to be a part of. It is also a significant milestone for Uplift360 as we push to demonstrate the real-world applications of its aramid recycling technology, RENEW."* said Chris Jenkins, Research & Innovation Director of Uplift360.

## Our Partners' Roles in REGEN

- **FECSA:** Coordinator of the REGEN project, FECSA leads the consortium and communication strategy, contributing its expertise in advanced protective textiles and sustainable innovation for the defence sector.
- **AITEX:** As a partner in the REGEN project consortium, AITEX is leading the development of the fabric and characterization testing. It is also supporting Uplift360 by contributing its expertise in optimizing the wet-spinning process.
- **LIST:** As a partner in the REGEN project consortium, LIST is responsible for the life cycle assessment (LCA).

## Quotes

*"We are proud to lead a project like REGEN, which directly contributes to Europe's strategic autonomy and supports sustainable innovation in the defence sector. Circularity in high-performance textiles is no longer optional – it's a mission,"* said Arantxa Díaz Bautista PhD. R&D Researcher at FECSA.

## Ends

**About Uplift360:**

Uplift360 is a cleantech innovator specializing in the recycling of advanced materials, including carbon fibre and aramid. With a focus on circular economy solutions, Uplift360 provides cutting-edge technologies that reduce waste, lower emissions, and support a more sustainable future.

**About FECSA:**

FECSA is a Spanish company specialised in the development and manufacture of advanced textile solutions for protective and defence applications. With a strong focus on innovation and sustainability, FECSA leads collaborative R&D projects across Europe and provides cutting-edge technologies for civil protection, military and industrial safety markets.

**About AITEX:**

AITEX is a Spanish centre of excellence for research, innovation, and advanced technical services for companies in the textile and cosmetics sectors. AITEX has more than 100 researchers with extensive experience in developing R&D projects for specific products and/or improving production processes.

**About LIST:**

LIST is a mission-driven Luxembourgish research and technology organisation (RTO) that develops competitive and market-oriented product/service prototypes for public and private stakeholders. LIST has over 600 employees performing fundamental/applied research, incubation, and transfer of technologies.

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