## **EU Brokerage Event**

on Industrial KET\* in Horizon Europe



10th November 2022 • Strasbourg

Conference & Bilateral/B2B Meetings Calls 2023- 2024



Project idea/ Field of expertise:

Plastic composites enhance, recycled materials, printed sensors, nanomaterials, biobased polymers & plastic processing.

**Organisation Name:** AIMPLAS

**WS 4 - Battery Value Chain** 

Addressed topic(s):

CL4-2023-RESILIENCE-01-33: Smart sensors for the Electronic Appliances market (RIA)

CL4-2023-RESILIENCE-01-34: Advanced (nano/bio-based) materials for sustainable agriculture (RIA)

**CL4-2023-TWIN-TRANSITION-01-02:** High-precision or complex product manufacturing - potentially including the use of photonics (Made in Europe & Photonics Partnerships) (IA)

**CL4-2023-TWIN-TRANSITION-01-42:** Circular economy in process industries Upcycling large volumes of secondary resources (Processes4Planet partnership) (RIA)

CL5-2023-D2-01-02: New processes for upcoming recycling feeds (Batt4EU Partnership) (RIA)

CL5-2023-D2-02-01:Advanced materials & cells development enabling large-scale production of Gen4 solid-state batteries for mobility applications (Batt4EU Partnership) (IA)

- AIMPLAS, Plastics Technology Centre, is a private, non-profit organization.
- + 750 associated companies. +200 highly skilled professionals and +30 years expertise.
- **AIMPLAS** has a broad expertise in the fields of recycling, plastic blends, reactive extrusion, synthesis and processing of biopolymers and renewable source materials, gases capture and conversion systems, catalyzers, plastronics, materials for Additive Manufacturing, high performance coatings, polymer nanocomposites, functionalization of nanoparticles, multilayer structures and development of plastic products for a broad range of industrial sectors. TRL between 3-7.



- AIMPLAS has state-of-the-art +11,000 m<sup>2</sup> facilities, including thermoplastics & thermoset pilot plants, coatings, mechanical & chemical recycling plants, polymer/nanoparticles synthesis, clean rooms and certificated (ISO 17025) testing laboratories and training areas.
- **AIMPLAS** has involved in >125 projects in FP5, FP6, FP7, LIFE+, CIP-EcoInnov., SUDOE, H2020, HEU, Marie-Curie... EU Programmes, coordinating 40% of them. AIMPLAS offer technical and innovative solutions to the follow areas: health, industry 4.0, circular economy, climatic change & decarbonization, renewable energy and its storage, food safety, agriculture and aquatic environment and sustainable mobility.

End

users

Global expertise in the whole plastics/materials value chain:

Production and/or distribution of plastic raw materials

Production and/or commercialization of semi-manufactured raw materials "COMPOUNDING"

Manufacturing / Processing

Recovery of plastic

## Our expertise

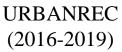
- Mechanical, Chemical, Enzymatic and Thermal Recycling.
- Volatile removals in recycled materials.
- Special assisted processing technologies (microwaves, supercritical water & CO<sub>2</sub>).
- Thermal and electric conductive polymers.
- Tailor made light weight thermoplastic and thermoset composites.
- High performance coatings (anti-ice, anti-fouling, omniphobic, etc..).
- Integration of electronics in plastics parts (plastronics).
- 3D printing technologies using tailor-made materials (rod, pellet or powder).
- Polymerization of tailor-made biobased polymers and nanofillers.
- +20 years in EU projects expertise.













ETERNAL (2022-2026)

## Contact details

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