

EU Brokerage Event

on Industrial KET* in Horizon Europe

*Key Enabling Technologies



AIMPLAS
PLASTICS TECHNOLOGY
CENTRE

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, plasronics, 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 m² 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.

• Global expertise in the whole plastics/materials value chain:



Our expertise

- Mechanical, Chemical, Enzymatic and Thermal Recycling.
- Volatile removals in recycled materials.
- Special assisted processing technologies (microwaves, supercritical water & CO₂).
- 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.



RECYPALLET
(2001-2003)



DOLFIN
2004-2006



BUGWORKERS
(2010-2014)



URBANREC
(2016-2019)



Horizon Europe
EU RESEARCH & INNOVATION INVESTMENT
PROGRAMME
2021 – 2027
#HorizonEU

ETERNAL
(2022-2026)

Contact details

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