

## OBJECTIVES

June 2016 – November 2019

The URBANREC project aims to develop and implement an eco-innovative and integral bulky waste management system (enhancing prevention, improving logistics and allowing new waste treatments to obtain high added value recycled products) and demonstrate its effectiveness in different regions. It aims to improve the separation and disassembling of bulky waste - implementing advanced fragmentation techniques to obtain high quality raw materials, promoting innovative valorisation routes for those considered more problematic (PUR foam, mixed hard plastics and mixed textiles), not recycled due to lack of eco-innovative cost-effective solutions. The waste treatments considered in the project include i) rebonding and chemical glycolysis for the PUR materials, to prepare renewable adhesives, ii) needle felt to obtain isolation panels from textiles, iii) fibre reinforced composites from textiles, iv) wood Plastic composites (WPC) and v) catalytic hydro-gasification with plasma for mixed hard plastics to obtain chemicals or fuel.

## ACTIVITIES

The above-mentioned treatments will be optimised and implemented at industrial level thanks to the collaboration of the URBANREC partners, under a circular economy approach. ACR+ is mainly involved in a) the collection of information on bulky waste management, b) the organization of working groups on bulky waste legislation, c) the development of a guide for bulky waste management based on the project's findings and d) the dissemination and exploitation of results.

## PARTNERS INVOLVED

URBANREC's project coordinator is **AIMPLAS** (Asociación de investigación de materiales plásticos y conexas) and its project partners are:

- **FHG**, Fraunhofer Gesellschaft Zur Forderung Der Angewandten Forschung EV
- **CENTEXBEL**, Centre Scientifique & Technique de l'industrie textile Belge
- **IOS – PIB**, Instytut Ochrony Srodowiska – Panstwowy Instytut Badawczy
- **IYTE**, Izmir Institute of Technology
- **ACR+**
- **IZNAB Sp. z o.o.**, Iznab Spolka Z Ograniczona Odpowiedzialnoscia
- **ECOFRAG – ECORETORNO**, Ecofrag-Mentation Europe S.L.
- **BPP**, Blueplasma Power S.L.
- **RAMPF**, RAMPF Ecosystems GmbH & Co. KG
- **RESCOLL Technology Centre of Materials**, RESCOLL
- **Eurospuma**, Eurospuma - Sociedade Industrial de Espumas Sintéticas SA
- **DELAX**, Colchones Delax SL
- **PROCOTEX**, Procotex Corporation SA
- **Vanheede Environment Group**
- **IMOG**, Intergemeentelijke Maatschappij voor Openbare Gezondheid
- **CVI**, Consorcio Valencia Interior
- **OVAM\***, Oprnbare Vlaamse Afvalstoffenmaatschappij
- **Diputación Provincial de Valencia**
- **URZAD - City of Warsaw\***, Miasto Stołeczne Warszawa
- **Bornova Municipality**

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