

# LABORATORY FOR RECYCLING AND VALORISATION OF WASTE PLASTICS THROUGH EXTRUSION AND 3D PRINTING

**Innovations and Benefits** - Wire extrusion of plastics from styrene-based electrical and electronic waste (ABS, PS, SAN) and polyamides (PA6 and PA66). 3D printing of the extruded wire. Search for a product from recycled plastic with high added value that allows to raise the market price from  $\sim € 1 \cdot kg^{-1}$  to  $€ 20 kg^{-1}$

**Use** - Prototyping of objects designed with industrial design techniques.

## Applications and ongoing Activities -

Assessment of the extrudability and printability of two-component mixtures from plastics from electrical and electronic waste.

