



Entomoplast

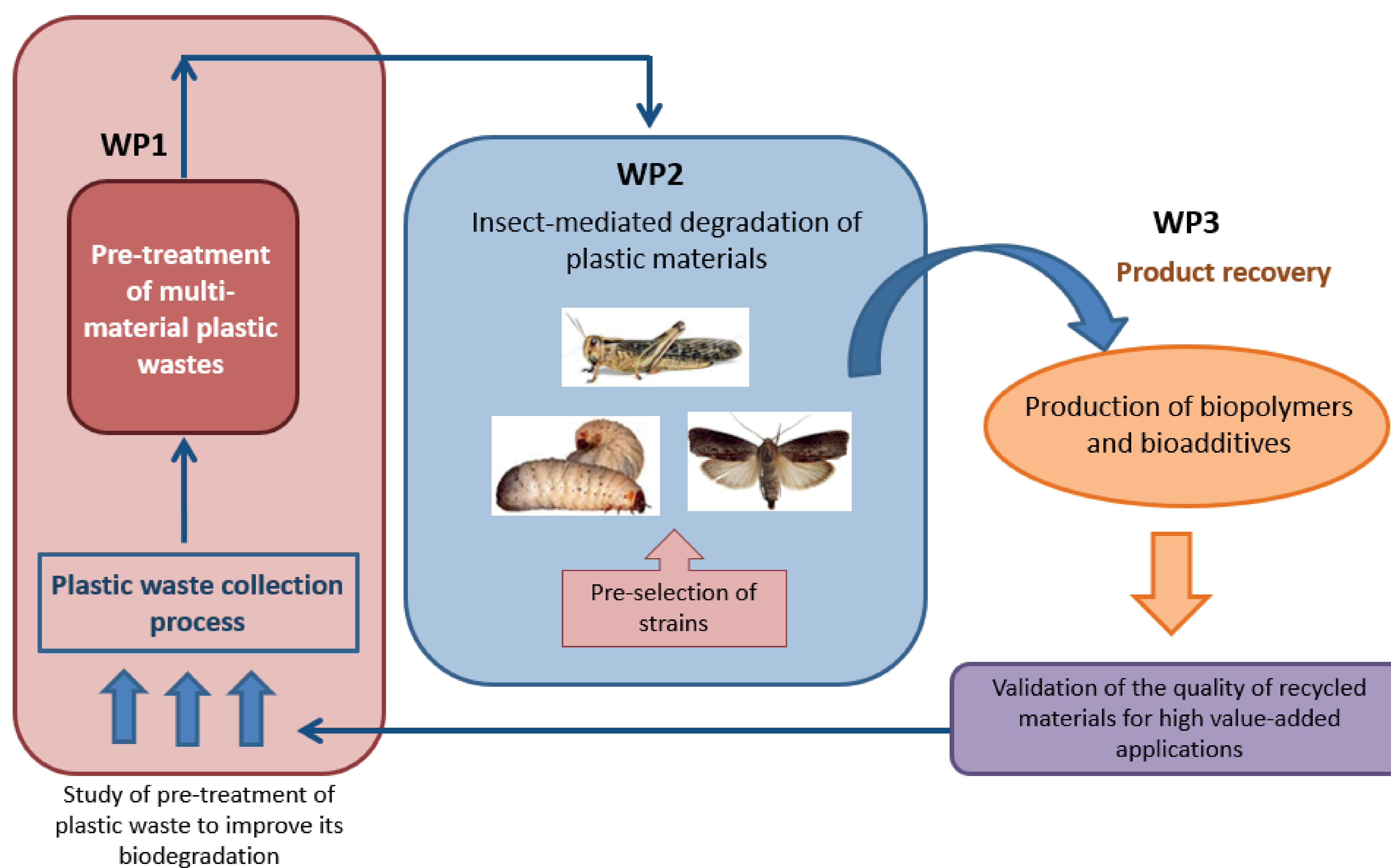
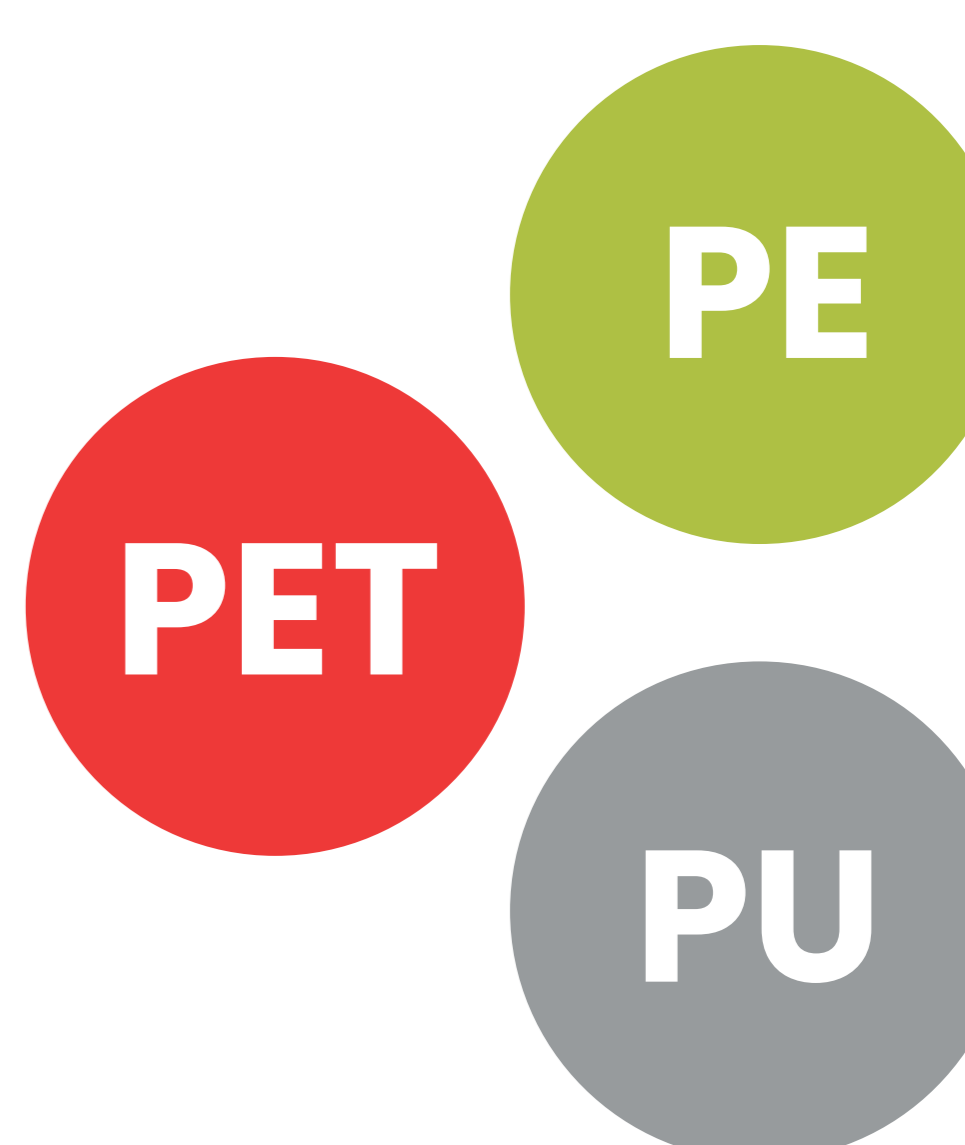


PROBLEM

Plastics have become indispensable materials for the production of all types of commercial and industrial packaging, including food packaging, which accounts for around 70 % of the European plastic packaging market. The end-of-life of plastic packaging is now a major environmental issue. Their recycling must therefore play a key role.

The overall objective of the **ENTOMOPLAST** project is to take a definitive step in the recycling of multi-material packaging, thus boosting the circular economy in the plastics sector. ENTOMOPLAST is focused on the use of insects for plastic degradation and obtaining recycled materials of biological origin with high added value, which will increase the recycling rates of multi-material packaging in a cost-effective way.

The project will focus on the use of insects to accelerate the biodegradation of polyethylene (PE), polyethylene terephthalate-polyester (PET) and polyurethane (PU) from packaging waste currently destined for incineration or landfill.



ENTOMOPLAST will offer more efficient waste recovery technologies, both in terms of improving the degradation of synthetic plastic waste and its subsequent recovery and recycling. Through the use of selected insects, the degradation of materials will be studied to produce biopolymers and bioadditives with high added value in the plastics industry, thus offering more sustainable consumer goods by enabling the use of recycled plastics of biological origin. The project will provide a cost-effective and sustainable solution for the recycling and accelerated degradation of plastic packaging, and the benefits will be shared along the plastics industry value chain.