A collaborative technological platform in the plastics recycling sector dedicated to the transition of the plastics industry towards the circular economy initiated by:

Soutenue par:

VIA PEPIT,

INDUSTRIALS WILL BENEFIT FROM

- The use of a one-stop-shop of reference providing information and scientific expertise on the circularity of plastic products in Wallonia;
- An approach based on guidance and prospecting to enable the identification of trends and opportunities;
- Technical and scientific support within the context of R&D, development and industrialisation;
- Access to the very latest technologies;
- Support with feasibility and market studies and help with identifying business models that are innovative;
- Help with identifying sources of finance most adapted to the projects;
- Support with the structuring and the writing of their projects.

THE PLATFORM’S PRIORITIES IN THE AREA OF RESEARCH ARE THE FOLLOWING:

- The characterisation of inflows and outflows by mechanical, chemical and physico-chemical means;
- The separation of matters by mechanical, chemical or other means;
- Depolymerisation (bio-/chemical and thermal);
- The production of alternative secondary materials;
- The composting of plastics, and particularly of recycled materials and their incorporation into the process of transformation of plastics;
- Testing and certification techniques of recycled materials;
- The reuse-conception, implementation and testing of new products made from recycled materials.

POLYMERS ECOCIRCULARITY PLATFORM FOR AN INDUSTRIAL TRANSITION

A Walloon solution to #PlanetOrPlastic

Under the aegis of the innovation clusters GreenWin and MecaTech, the business cluster Plastiwin and with the support of the Accredited Research Centres Celabor, Centexbel, Cenaero, Centre Terre et Pierre, Certech, Materia Nova and Sirris.

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A WALLON SOLUTION : PEPIT
POLYMERS ECOCIRCULARITY PLATFORM
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A Walloon collaborative technological platform in support of the circularity of the plastics industry.

The platform aims to boost innovation by industrialists by basing itself on three technological axes:

1. PET AN ALLIANCE
   • Recycling of specific products end-of-life plastic waste
   • Development of a unique Walloon range of products (PEPIT)

2. PET ASSOCIATIONS
   • Implementing a collaborative technological platform
   • Developing cross-industry symbiosis

3. PET ECOCIRCULARITY
   • Implementing a Walloon solution: PEPIT

SCOPE AND AMBITIONS OF PEPIT

→ It is a tool to assist with:
  • The setting up of tangible projects;
  • The diagnosing of cases of blockages to innovation;
  • Networking and attracting international expertise and financing;
  • Providing an overview of the status of research and of environmental regulations;
  • Developing training programmes and helping companies to acquire new skills;
  • Proactively identifying technological opportunities in order to achieve first mover advantages.

A REGIONAL AMBITION

It is in this context that the Walloon region aims to position itself within the economic and environmental transition, using the opportunity to create a plastics recycling industry in line with the principles set out by the European Commission. The creation of this industry is timely, both in the Walloon region’s agenda and will be included in the Walloon Investment Plan of the Walloon Government. It will need to be based on a variety of projects and imply close collaboration between the different players in the plastics production chain, from the raw material producer to the recycler. The extension of the life cycle of plastic products would provide non-negligible economic and environmental advantages. By avoiding the use of landfills and maximising the efficiency of the management of natural resources and fossil, it will be possible to reduce the impact of environmental externalities linked to the plastics industry. At the same time, innovative approaches in recycling, materialisation and recyclability will continue to develop, thus optimising material efficiency and subsequently the circular economy, thus generating a durable economic activity by creating long-term jobs whilst at the same time stimulating innovation and investment.

Global LCA analysis & eco-design

WHAT WE HAVE TO OFFER...

→ Access to a pool of regional experts via a platform bringing together several accredited Walloon Research Centres working collaboratively on project support and feasibility,
→ The sharing of skills and equipment and a direct link between researchers and industrialists,
→ An integrated technological structure available to industrialists for the carrying out of specific tests and analyses, particularly with the aim of reducing the risks associated with the launching of innovative projects.
   This approach will enable industrialists actively involved in the different segments of plastics production who wish to contribute to a sustainable and circular plastic economy. This undertaking will imply their commitment to projects aimed at either:

   • recycling end-of-life materials and maximising their added value in order for them to be integrated into a secondary raw materials market;
   • recovering their own end-of-life products (circular economy) and/or end-of-life products from other industries (industrial symbiosis) with the aim of giving them a second life (e.g. developing a product from industrial waste or recycled materials, or the conception of an innovative business model …);
   • adopting processes for an effective management of resources in all phases of production and consumption;
   • creating products in a manner that allows them to be repaired, and all or part of their components to be recyclable at end of life.

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