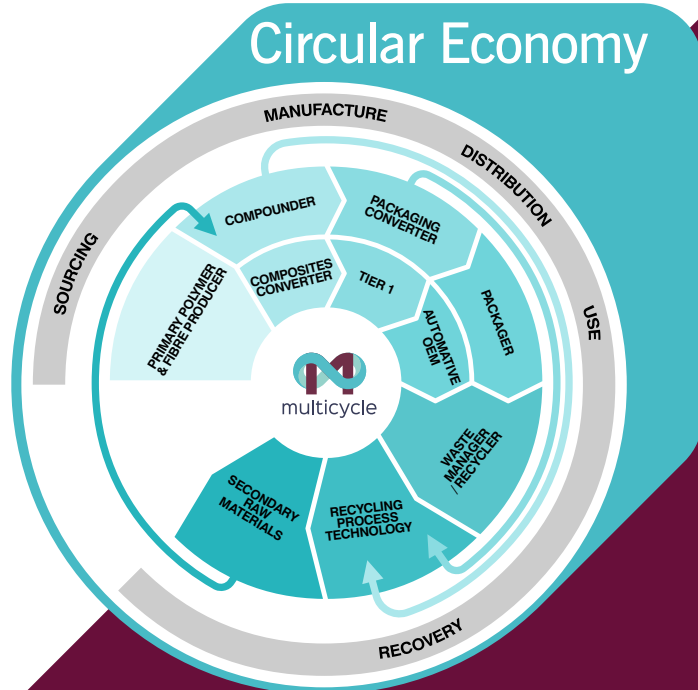


# Get involved!

As well as disseminating technical results and recommendations for further upscaling, Multicycle is delivering a training and capacity building programme for the current and future workforce in plastics recycling, and producing decision support systems and policy recommendations promoting waste management and resource efficiency improvements for the target packaging and automotive applications.

We have also established a Circular Plastics Helix within the Vision 2020 Network as the hub for a permanent virtual community accelerating innovation in this space.

Linear use of plastics is an environmental threat. Be a part of the answer - a concerted circular value chain for systemic change!



@MulticycleP

[www.multicycle-project.eu](http://www.multicycle-project.eu)

[network.crowdhelix.com/helices](http://network.crowdhelix.com/helices)

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**ADVANCED & SUSTAINABLE  
 RECYCLING PROCESSES AND  
 VALUE CHAINS FOR  
 PLASTIC-BASED  
 MULTI-MATERIALS**

# The Plastics Challenge

Plastics deliver value through convenient, versatile and lightweight consumer products and advanced performance in high end applications, **but our current single-use, linear consumption model is broken.**

The challenge of inadequate recycling rings true for "simple" plastics - how much more so for multilayer and composite materials!



## A Better Way

*"A smart, innovative and sustainable plastics industry, where design and production fully respect the needs of reuse, repair, and recycling, brings growth and jobs to Europe and helps cut EU's greenhouse gas emissions and dependence on imported fossil fuels."*

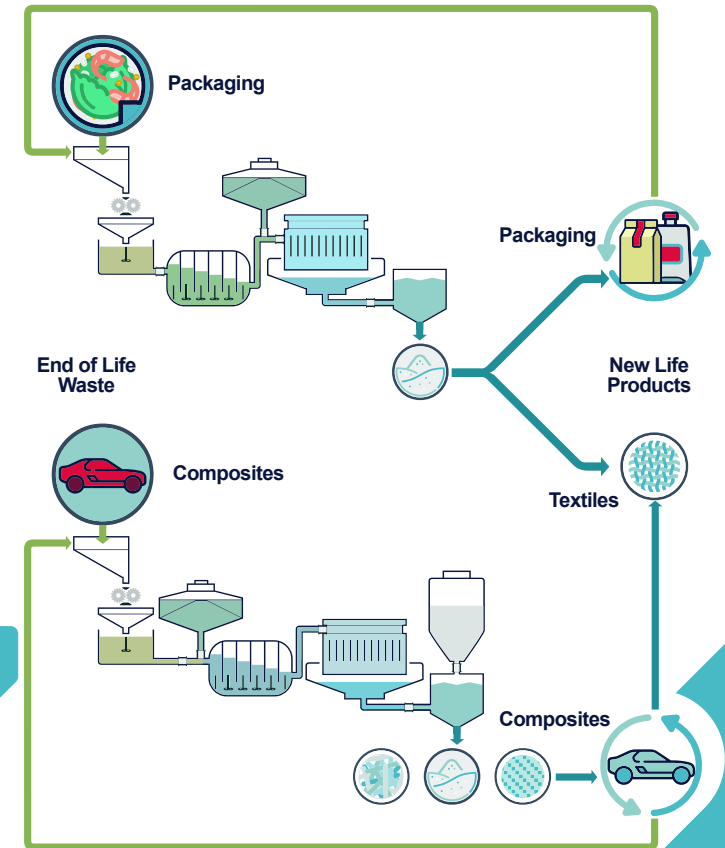
A European Strategy for Plastics in a Circular Economy, European Commission, January 2018

## On the Way

MultiCycle will deliver an industrial recycling pilot plant for thermoplastic based multi-materials using the patented CreaSolv® process as a key enabling step towards the realization of a circular plastics economy.

It will demonstrate the shift to a circular economic model in two important industrial segments, multilayer packaging / flexible films and fibre-reinforced thermoplastic composites in the automotive sector, as indicators of potential in many others.

CreaSolv® trademark registered by CreaCycle GmbH



## Key features

- Selective, versatile, solvent-based extraction process being upscaled to a scale never previously reached, optimised and digitised for industrial readiness
- Recovery of pure plastics and fibres from mixed wastes - allowing direct substitution of virgin / fossil fuel resources
- Processing and formulation of recovered materials into valuable products - at least fourteen different packaging, composite / textile semi-finished and final demonstrators targeted
- Techno-economic feasibility and environmental, social and economic sustainability evaluated to confirm ultimate impacts of the new process