



cimpa

a circular
multilayer plastic approach
for value retention of end-of-life
multilayer films

Goal.

CIMPA will develop a recycling value chain for post-industrial and post-consumer multilayer films (from food and agricultural applications) to retain from **12% up to 72%** of their value yield based on a synergetic approach combining **innovative compositional sorting** (combining NIR- and digital watermarking sorting), **mechanical and physical** (dissolution) **recycling, decontamination process and upgrading** (advanced scCO₂-based decontamination, properties tuning) solutions.

Impact.

Up to 2.34Mt/y of recycled materials will be saved and reintroduced in production to substitute virgin materials.

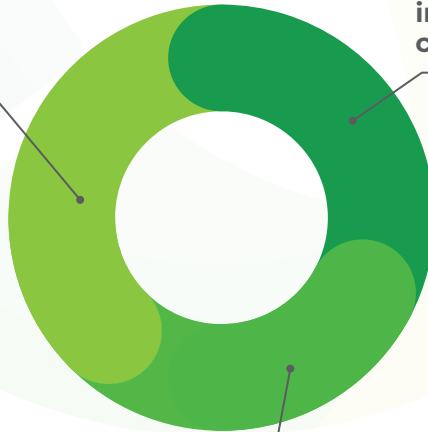
CIMPA will retain in the economy €0,3B to €2,2M/y of multilayer plastic films value.

CIMPA will reduce CO₂ emissions by 2.1Mt/y equivalent to 0.15% of whole EU CO₂ emissions.

Decontamination process and upgrading

innovative compositional sorting

Mechanical and physical recycling



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CIMPA gathers

4 experienced Research & Technology Organisations (IPC, AIMPLAS, VTT, TNO),

2 technology-providers (PELLENC, FILIGRADE),

1 waste management and recycling company (PAPREC),

3 multilayer producers (LEYGATECH, EVERSIA, BARBIER),

1 institute for consumer attitude/ acceptance studies (PROSPEX Institute),

1 association representing the plastic recycling industry (EuRIC) and

1 consultant company (BENKEI).

Partnership.



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