



LIFE CEPLAFIB - Implementation of a new Circular Economy through the valorisation of postconsumer PLASTic waste and reclaimed pulp FIBer

LIFE17 ENV/SI/000119

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#### Contact details:

Contact person: Vesna Žepič Bogataj  
Tel: 386034900918  
Fax: 386034264611  
Email: [vesna.zepic.bogataj@tecos.si](mailto:vesna.zepic.bogataj@tecos.si)

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#### Project description:

##### Background

Plastics are key materials in the global economy, but they are associated with significant environmental, health, social and economic impacts. In 2014 Europe generated about 25 million tonnes of post-consumer plastic waste, only 39.5% of which was recovered and 29.7% recycled, while 30.8% went to landfill. More than 8 million tonnes of plastic ends up in the world's seas and oceans, with harmful effects on the marine environment.

To create an effective after-use economy, recycled plastics must satisfy market needs, particularly for added value applications, and there must be sufficient flows of high-quality recyclates.

##### Objectives

The LIFE CEPLAFIB project aims to produce a new material called CEPLAFIB for the packaging, automotive and construction industries. This will be made from deinked pulp (from recycled newspapers), recycled polypropylene and high-density polyethylene. The goal of LIFE CEPLAFIB is to demonstrate that the new material can be produced at a competitive price and that it is suitable for extended manufacturing techniques such as thermoforming and injection moulding. The project will involve partners from four countries (Slovenia, Finland, Poland and Spain), representing plastics and paper recyclers, manufacturers, technology suppliers and researchers.

LIFE CEPLAFIB supports EU policies on recycling and zero waste, including the Waste Framework Directive, the Landfill Directive and the Directive on Packaging and Packaging Waste. By improving product durability and recyclability it will

also be in line with the goals of the Ecodesign Directive. Closing the loop for the plastic and paper value chains will contribute to the implementation of the circular economy action plan.

Expected results:

- Integration of the reclaimed fibres in recycled plastic with improved properties: a 300% increase in tensile module and yield stress;
- Software and hardware (rheological nozzle and sensors) to adapt current manufacturing processes to produce CEPLAFIB materials;
- A 40% (8 000 tonne) increase in associated beneficiary Omaplast's capacity to produce high-quality recycled plastic for industrial applications;
- A 25% increase in associated beneficiary Ecopulp's capacity to recover fibre from recycled paper (from 0.45 to 0.55 tonnes/batch);
- Demonstration of the industrial feasibility of the CEPLAFIB materials in rigid industrial packaging applications;
- Demonstration of the industrial feasibility of the CEPLAFIB materials in two large-scale applications within the automotive sector;
- Transfer of the project results to to the construction sector in Poland, by means of guidelines and recommendations;
- A 40% reduction in greenhouse gas emissions compared to conventional materials;
- An increase in the recycling capacity of participating regions from 400 000 to 560 000.

Results

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Environmental issues addressed:

Themes

Waste - Waste recycling

Keywords

paper industry, waste recycling, waste reduction, plastic waste, building industry, automobile industry

Target EU Legislation

- Industry and Product Policy
- Directive 2010/75 - Industrial emissions (integrated pollution prevention and control) (24.11.201 ...

- Waste
- Directive 2008/98 - Waste and repealing certain Directives (Waste Framework Directive) (19.11.200 ...
- COM(2015)614 - "Closing the loop - An EU action plan for the Circular Economy" (02.12.2015)

Natura 2000 sites

Not applicable

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Beneficiaries:

Coordinator	Slovenian Tool and Die Development Centre
Type of organisation	NGO-Foundation
Description	The Slovenian Tool and Die Development Centre (TECOS), established in 1994, is a non-profit organisation which represents the collective interests of the tool, die and mould industry, as well as supporting knowledge transfer to and from the sector.
Partners	Adria Mobil, (Proizvodnja, trgovina in storitve d.o.o. Novo mesto), Slovenia OMAPLAST reciklaža plastike d.o.o., Slovenia Instytut Techniki Budowlanej, Poland FUNDACIÓN AITIIP, Spain Ecopulp Finland Oy, Finland

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Administrative data:

Project reference	LIFE17 ENV/SI/000119
Duration	02-JUL-2018 to 30-JUN -2021
Total budget	1,832,020.00 €
EU contribution	1,099,211.00 €
	Galicia(España) Asturias(España) Cantabria(España) País Vasco(España) Navarra(España) Rioja(España) Aragón(España) Madrid(España) Castilla-León(España) Castilla-La Mancha(España) Extremadura(España) Cataluña(España) Comunidad Valenciana(España) Balears(España) Andalucía(España) Murcia(España) Ceuta y Melilla(España)

## Project location

Canarias(España) Uusimaa(Finland Suomi)  
Varsinais-Suomi(Finland Suomi)  
Satakunta(Finland Suomi) Häme(Finland Suomi)  
Pirkanmaa(Finland Suomi) Päijät-Häme(Finland Suomi)  
Kymenlaakso(Finland Suomi)  
Etelä-Karjala(Finland Suomi) Etelä-Savo(Finland Suomi)  
Pohjois-Savo(Finland Suomi)  
Pohjois-Karjala(Finland Suomi) Kainuu(Finland Suomi)  
Keski-Suomi(Finland Suomi)  
Etelä-Pohjanmaa(Finland Suomi) Vaasan rannikkoseutu(Finland Suomi)  
Keski-Pohjanmaa(Finland Suomi)  
Pohjois-Pohjanmaa(Finland Suomi)  
Lappi(Finland Suomi)  
Ahvenanmaa/Åland(Finland Suomi) Baltic Sea Suomi (SF)(Finland Suomi) Lodzkie(Poland Polska) Mazowieckie(Poland Polska) Malopolskie(Poland Polska) Slaskie(Poland Polska) Lubelskie(Poland Polska) Podkarpackie(Poland Polska) Swietokrzyskie(Poland Polska) Podlaskie(Poland Polska) Wielkopolskie(Poland Polska) Zachodniopomorskie(Poland Polska) Lubuskie(Poland Polska) Dolnoslaskie(Poland Polska) Opolskie(Poland Polska) Kujawsko-Pomorskie(Poland Polska) Warminsko-Mazurskie(Poland Polska) Pomorskie(Poland Polska) Extra-Regio(Poland Polska) Associated Poland (PL)(Poland Polska) Pomurska(Slovenia Slovenija) Podravska(Slovenia Slovenija) Koroska(Slovenia Slovenija) Savinjska(Slovenia Slovenija) Zasavska(Slovenia Slovenija) Spodnjeposavska(Slovenia Slovenija) Gorenjska(Slovenia Slovenija) Notranjsko-kraska(Slovenia Slovenija) Goriska(Slovenia Slovenija) Obalno-kraska(Slovenia Slovenija) Jugovzhodna Slovenija(Slovenia Slovenija) Osrednjeslovenska(Slovenia Slovenija) Extra-Regio(Slovenia Slovenija) Associated Slovenia (SLO)(Slovenia Slovenija)

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