



# INCIRCULAR

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## Why INCIRCULAR?

Plastics production and end-of-life seriously damage the environment:

- Just 9% of all plastic produced is recycled.
- Approximately 8 million tonnes of plastic reach the oceans each year.
- Plastic production and incineration contribute to 850 million tonnes of greenhouse gases in 2021.

The plastics industry faces a negative perception, driven by a growing public awareness of the urgent need to reconsider and redesign our approach to plastic products.

## About us

INCIRCULAR is a three-year project (2023-2026) led by the Slovenian Tool and Die Development Centre (TECOS).

Our mission is to enhance collaboration within the recycled plastics industry sector, aiming to improve its capabilities and promote the transformation of recycled plastics into new materials through the adoption of innovative technologies.

## INCIRCULAR's main goals are:

- **Develop** cost-effective, eco-friendly **recycled materials from plastic waste** for use in strong bio-composites in everyday products.
- **Innovate** **bio-based composites** for seamless integration into plastic manufacturing using innovative digital twinning injection moulding methods.
- **Foster collaboration** across bio-refineries, waste management, recycling, and bio-polymer industries for a sustainable bio-based economy.
- **Share knowledge** within the interregional hub to turn recovered waste into various bio-composite formulations with specific qualities.
- **Design** **eco-friendly bio-based products** suitable for everyday use.
- **Demonstrate** **INCIRCULAR's circular economy and sustainability** by creating eco-designed products and addressing their circular 'End of Life' through recycling assessments and re-manufacturing scenarios.
- **Raise** **consumer awareness of new bio-plastic products** and guide them on responsible usage and disposal to minimise plastic's environmental impact.

# Unlocking the innovation potential of European regions in circular plastics

# Outcomes

Open call for 'Symbiotic  
Deep Tech Sourcing'

Pilot production lines for reusability  
of waste plastic material

Replication of the Pilot across  
relevant EU industrial sites

# Impacts



Interregional  
cooperation



Regional innovation  
focus



Public awareness of recycling  
and sustainable management  
of plastic waste



Job  
creation



Positive environmental  
Impact

## INCIRCULAR aligns with the Sustainable Development Goals:

### SDG 9

Industries, Innovation and infrastructure

### SDG 10

Reduced inequalities

### SDG 12

Responsible consumption and production

## Contact us



INCIRCULAR - EU Project



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

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## Meet the INCIRCULAR consortium

TECOS

UJa.  
Universidad de Jaén

gorenje  
*Life Simplified*

eco  
castulum®

omoplast

S.i.S.E.

POLYMERIS  
Competitiveness cluster for rubbers, plastics and composites

SIMCON

