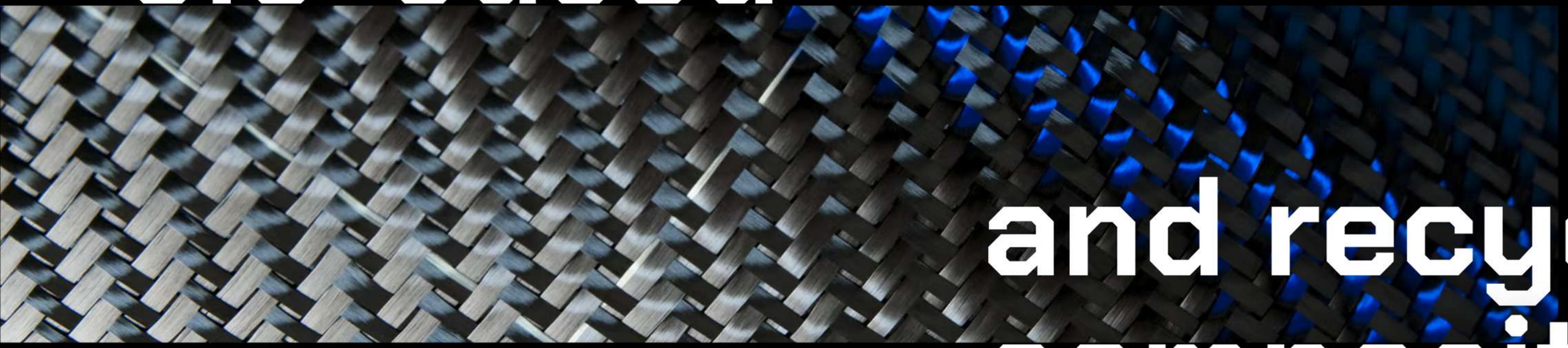
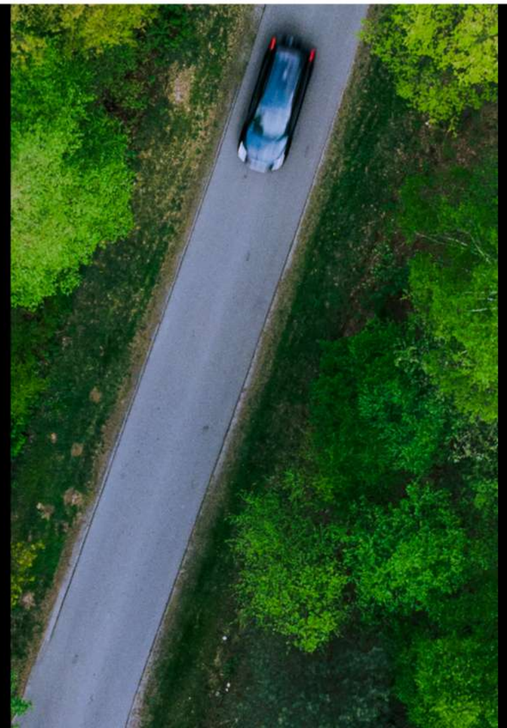
Developing bio-based

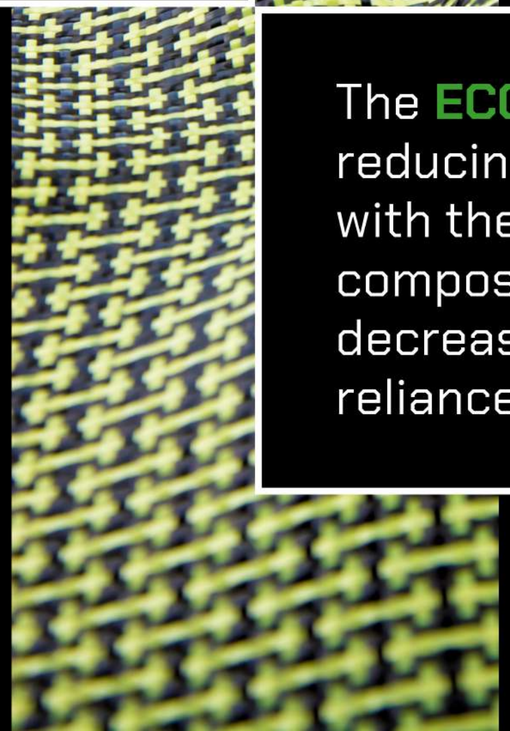


and recyclable composites

ECOCOMPOSITES

The use of composite materials is widespread across various industries due to their enhanced strength, durability, and flexibility. In Europe, there is a growing focus on making composite materials more sustainable and environmentally friendly.





The **ECOCOMPOSITES** cluster is committed to reducing the environmental impact associated with the production, use, and disposal of composite materials. This includes efforts to decrease energy consumption, emissions, and reliance on non-renewable resources.

The cluster will develop solutions regarding:

Processes

Efficient, sustainable and cost-effective production processes for bio-based composites:

- Production of continuous carbon fibre-reinforced PA pultrudates
- Full closed-loop recycling system process for epoxy resins

Materials

New bio-based resins and resin compounds as viable alternatives to fossil-based compounds, including:

- 3R resin for glass fibre composites
- Multifunctional and recyclable bio-based epoxy composites
- Bio-based recyclable epoxy resin formulation
- Reinforcing fibres using bio-based ingredients or recycled products

r-LightBioCom — r-lightbiocom.eu

MC4 — mc4-project.eu

FOREST — forest-project.eu

furhy
fully recyclable hybrid bio-composite for transport application — furhy-project.eu

repoxyble
BIO-BASED MULTIFUNCTIONAL RECYCLABLE COMPOSITES — repoxyble.eu

SUSPENS
Design sustainable composites — suspensproject.eu

horizonresultsbooster.eu

This factsheet has been produced by ICONS in the context of the Horizon Results Booster services delivered to **r-LightBioCom** [GA N. 101091691], **FOREST** [GA N. 101091790], **FURHY** [GA N. 101091828], **MC4** [GA N. 101057394], **SUSPENS** [GA N. 101091906], **REPOXYBLE** [GA N. 101091891]. This product does not reflect the views of the European Commission.

HORIZON RESULTS BOOSTER

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