

ECO BULK

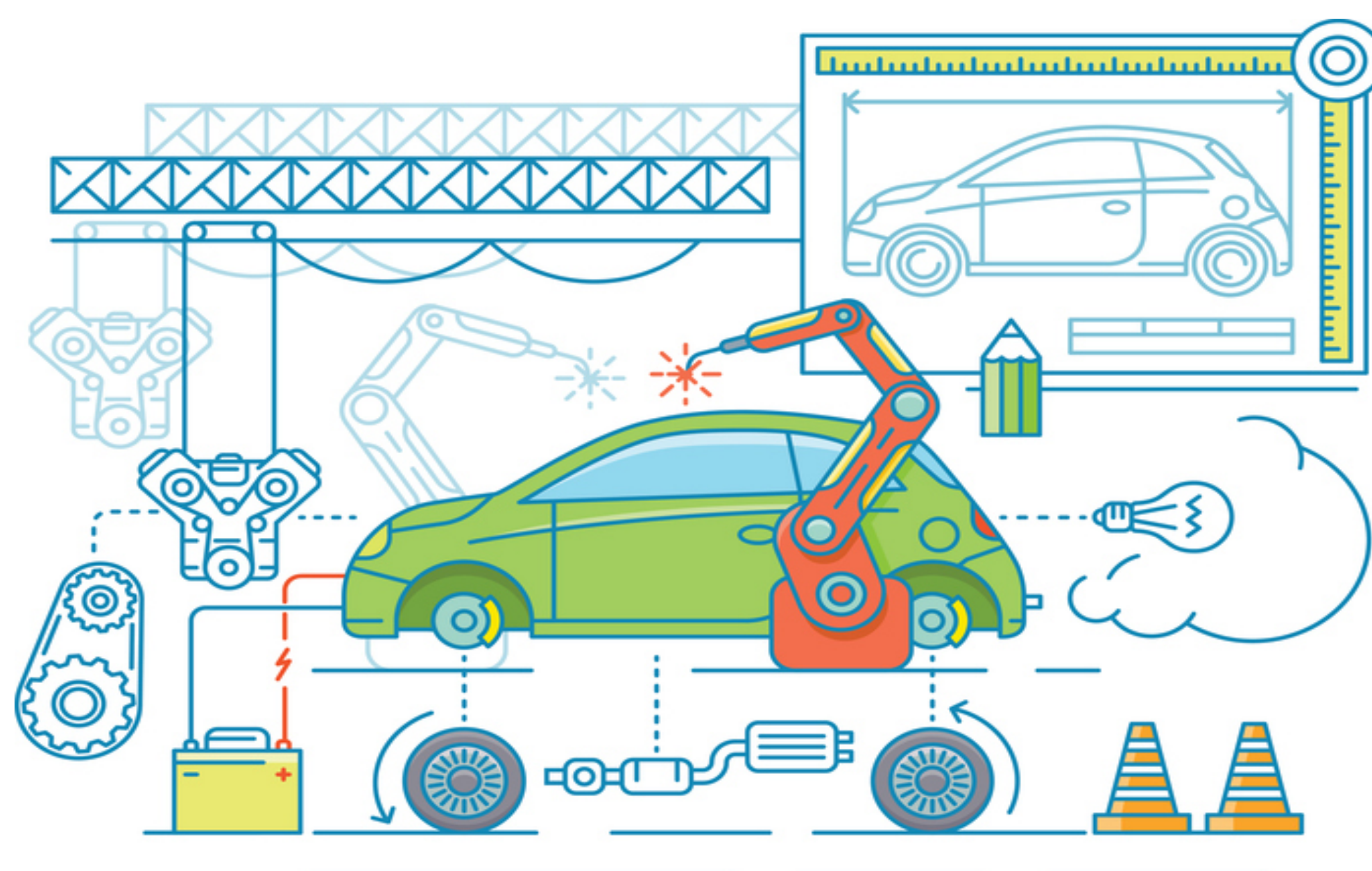
A Circular Approach for Eco-Composite Bulky Products



The EcoBulk innovation project will enable greater resource efficiency in the **automotive, furniture and building** industries, with a focus on **new materials** combining plastics, fibres and wood. EcoBulk will rethink and refine the **design** and **manufacturing** of products to boost the **reuse** of products/parts as well as the **recycling** of materials.

COMPOSITE BULKY MATERIALS

... are difficult to recycle and usually end up being incinerated or land-filled. EcoBulk will show how some material fractions previously considered non-recyclable can be used and re-manufactured, totally transforming some of the current linear business models.



ECOBULK Outcomes:

Rethink

A Design Framework for product reuse and manufacturing leading to products that can be (re)manufactured with over 80% recycled material.

Reuse

Decision Support System for materials and process choices to increase direct product and part reuse, remanufacture and recycling by 65%.

Refine

Improved circular composite materials and processes developed to TRL7+.

Result

LCA of demonstration products showing resource reduction of at least 50 %.

50m

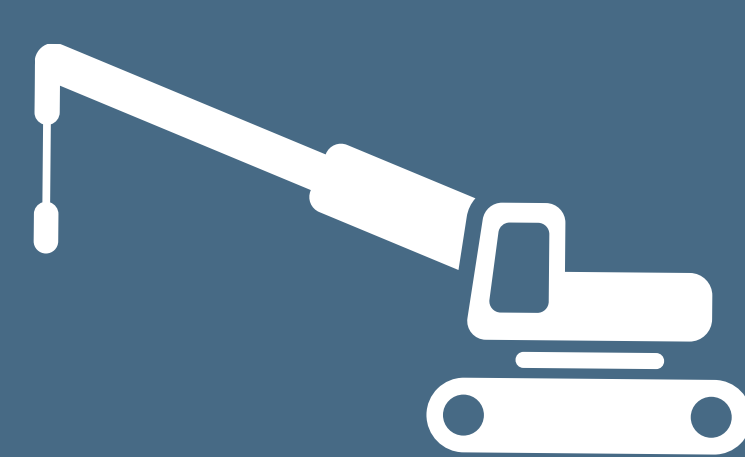
Every year in the EU, 50m tonnes of bulky waste are disposed of. Approximately 60% of this waste is made of plastics, textiles and wood.

2.7b

Of 2.7bn tonnes of waste in 2010, only 40% was re-used. Of that fraction, 70% was mineral waste. This suggests that wood and plastics are lagging significantly behind their re-use potential.

\$95bn

The use of composites is growing and the global market for composite products is expected to reach \$95bn globally by 2020, according to a report by "Composites UK"



10m

Furniture waste accounts for over 10m tonnes out of the 253m tonnes of Municipal Solid Waste reported in Europe in 2011



CIRCULAR ECONOMY

A truly circular economy requires materials that can maintain equal levels of **value** both at the start and at the end of each life cycle. This is not just about the materials; it also requires an integrated approach to the design, manufacture, collection and treatment of products. Welcome to EcoBulk.

€600bn



A circular economy could mean savings of €600 billion for EU businesses, equivalent to 8% of their annual turnover

450m

According to the EU, a circular economy could reduce EU Carbon Emissions by 450 million tonnes by 2030



580k



The EU estimates a circular economy could create 580,000 jobs within the EU by 2030

10%

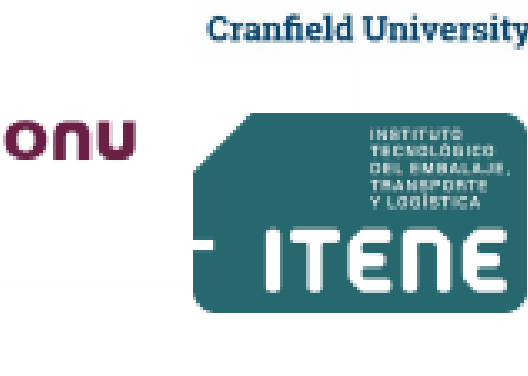
The EU has adopted a mandate to reach a maximum of 10% of municipal waste going to landfill - the current EU28 average is 30%



EcoBulk is a 4-year H2020 EU funded project, consisting of a consortium of 29 partners, representing manufacturers, designers, research institutions and industry associations.



ECOBULK



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