Get involved!

The SCALIBUR **Stakeholder Platform** will be the main tool to access the project results. The Platform will feature interactive user-oriented modules in order to give easy access to relevant information for different stakeholder groups.

Citizens

Follow SCALIBUR social media for tips on biowaste separation and recycling. Look out for local events and initiatives in the SCALIBUR pilot cities where products derived from biowaste will also be showcased.

> Municipalities

Cities looking to improve their own biowaste recycling practices can join an **Early Adopter Club**. This club will have access to **training workshops** delivered by SCALIBUR partners, and a dedicated **e-learning platform** featuring best practices and recommendations.

> Entrepreneurs

Biowaste recycling creates exciting new circular economy business opportunities. Start-ups and SMEs looking to enter this field can **apply for business coaching** from SCALIBUR experts to help turn their idea into a success.

> Industry

Find us at key conferences and fairs, where we will present new processes to valorise waste and wastewater, and new circular products derived from biowaste. These key results will also be included in a product portfolio on the stakeholder platform.

Project Partners

SCALIBUR (Scalable technologies for bio-urban waste recovery) brings together a unique blend of organisations and expertise, led by ITENE Packaging, Transport & Logistics Research Center. The project began in November 2018 and will run for four years.



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Challenge

In the EU over **100 million tonnes of biowaste** are thrown away each year. Currently 75% of this goes to landfill or is incinerated, causing major environmental problems: biowaste produces greenhouse gases when it decomposes and contaminates soil and groundwater. Landfilling of biowaste goes against the principle of a circular economy and is a waste of nutrients, energy and potential resources for biobased products.



Up to 50% of household waste is biowaste



Each European throws away 200 kg of biowaste per year



143 billion euros annual costs associated with biowaste in EU

Solution

In the SCALIBUR project, leading waste management companies, technology developers and research organisations have teamed up with four European cities to demonstrate:

- **>** state-of-the-art urban **biowaste collection** methods and
- > innovative solutions to transform biowaste into high value-added products.

This will show municipalities how to achieve higher recycling rates and create new circular economy business opportunities.

1. Improving biowaste collection

Waste management practices vary widely in Europe, with only some cities separately collecting biowaste. In three pilot cities, SCALIBUR will showcase approaches to increase the quality and quantity of biowaste collected.

Partners will engage stakeholders along the value chain - from waste generators to collectors and processors - to support the integration of **innovative systems for collection**, **transport**, **sorting and pre-treatment of biowaste**. Educating citizens about the importance of biowaste separation and increasing consumer acceptance of products derived from waste are also key objectives.



Pilot cities Albano Laziale (IT)

Did you know?

EU countries must ensure that by 2023, all biowaste is separately collected or recycled at home (eg via composting)

Madrid (ES)

Kozani (EL) ····



2. Creating high value products

Even when biowaste does not end up 'wasted' in a landfill, it can still be hard to make money from it. Common recycling routes such as composting result in low value products. SCALIBUR will create new **business opportunities** by demonstrating innovative value chains to transform biowaste into high-value industrial products.

