



SCALIBUR

LEADING A REVOLUTION  
IN BIOWASTE RECYCLING

# SCALIBUR e-learning Platform

Urban Circular Bioeconomy Practices and the CEE region Webinar

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# Who we are?



- Geonardo Environmental Technologies Ltd a leading SME in Central and Eastern Europe
  - Innovation and technology company active in the energy, environment and sustainable development fields
1. **Provide:** research, innovation and consultancy services.
  2. **Conduct:** state-of-the-art life cycle assessments (LCA), GIS/remote sensing and 3D terrestrial laser scanning (TLS) applications.
  3. **Develop:** web-based planning and decision support tools, and ICT platforms and solutions.
  4. **Implement:** novel training, capacity building, institutional strengthening, and communication and dissemination actions as well as market studies.
  5. **Conceive:** new solutions and project ideas for addressing various societal challenges and implementing R&I projects

# › Why an e-learning platform?

1. The e-learning platform created by Geonardo is part of the exploitation and capacity building activities of the SCALIBUR project to help ensure Europe-wide **replication** & deployment of urban biowaste management strategies.

## Objectives:

- Enhance the capacities of the target users (municipality representatives, waste managers, entrepreneurs) on the concept of circularity, waste management practices, private sector initiatives on biowaste processes, innovative solutions and SCALIBUR products.
- To facilitate the uptake of SCALIBUR's results after the end of the project.

## ➤ SCALIBUR E-learning features

- A set of online courses divided into **two training modules** targeted at **two different stakeholders**:
  - (1) Municipalities and local/regional waste managers; and
  - (2) Companies and SMEs who wish to enter urban circular bioeconomy domain.
- The platform includes downloadable **reference documents** and **useful links**, an **“Ask the Tutor”** function, and a **Forum** area to allow users to interact, ask questions and leave comments.

## ➤ SCALIBUR E-learning features

- Introductory **videos** created by GEO from G!E graphic resources and videos recorded by SCALIBUR partners welcome participants to the modules.
- Within one presentation each module is divided into **four thematic Chapters**. Chapters include individual pages with different types of content such as interactive illustrations and text.
- Each Chapter ends with a **multiple-choice exercise** to reinforce learning.
- A **registration** process has been set up in order to monitor the feedback based on the type of users and evaluate e-learning effectiveness, to complement the engagement analysis in WP2.

## ➤ Methodology

- Preparatory work by G!E and GEO to define the structure and content, based on the stakeholders and project target groups.
- GEO developed the content based on desk research and incorporating as much as possible the public results and outputs of the project.
- Subsequently, SCALIBUR expert partners contributed and validated the content.
- GEO's graphic design, e-Learning and IT teams designed and launched the platform.

# ➤ Before starting the modules...

**ONLINE LEARNING PLATFORM**

E-learning | Learning repository | MODULE 1 - E-learning for Municipalities and waste managers

### MODULE 1 - E-LEARNING FOR MUNICIPALITIES AND WASTE MANAGERS

Module 1 - Municipalities and waste managers

**ATTACHMENTS**

- Best practices, Germany.pdf
- BOWASTE FLANDERS.pdf
- Bowaste Guide for municipalities EN.pdf
- City of Lund Webinar.pdf
- ECH - learning challenges onto opportunities.pdf
- ECH - County report\_Flanders.pdf
- ECH - Factsheet\_Bowaste - General - Jobs.pdf
- ECH - Factsheet\_AJ3\_Circular Economy.pdf
- EPA - decision making guide.pdf
- Find Report Separate Collection EN.pdf

MODULE 1 - E-learning for Municipalities and waste managers

By the end of this chapter you will have a better understanding of the EU principles of circular bio-economy, EU regulation on biowaste collection and treatment and prevention, good practices of biowaste collection and treatment in the EU, SCALBUR products and pilots, better understanding of the initial steps towards improving biowaste collection in your municipality in accordance to circularity principles.

**ONLINE LEARNING PLATFORM**

E-learning | Learning repository | MODULE 2- E-learning for entrepreneurs and SMEs

### MODULE 2 - E-LEARNING FOR ENTREPRENEURS AND SMES

Module 2 - E-learning for Entrepreneurs and SMEs

**ATTACHMENTS**

- DIGES3\_Workshop\_report\_Biowaste-in-the-Circular-Econ...pdf
- Aarna\_Challenges-of-implementing-separate-collectio...pdf
- circular\_economy\_guide\_en.pdf
- Closing-the-loop-the-circular-economy.pdf
- ECN\_Biowaste-in-the-Circular-Economy.pdf

MODULE 2 - E-learning for entrepreneurs and SMEs

### SUPPORT

**Contact the Expert**

Send a question directly to the lecturer and receive the answer by email.

**Send**

**Open Forum**

**Feedback**

The online navigation is clear, easy and fast, I could understand what to do.

☆☆☆☆

I could see the pictures and the text on the e-learning platform clearly.

☆☆☆☆

I found the learning experience intellectually satisfying and that I personally benefited from the e-learning modules.

☆☆☆☆

I will apply the knowledge that I gained in my job.

☆☆☆☆

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## Contents

- o Introduction
- o Navigation
- o Chapter 1 - Circular bioeconomy in Europe
- o Chapter 2 - EU regulations on biowaste
- o Chapter 3 - Best local practices on biowaste management
- o Chapter 4 - Implementing an urban circular bioeconomy approach for biowaste in your city/region, where to start?
- o Thank you slide

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# SCALBUR

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## SCALIBUR e-Learning

### Module 1 - Municipalities

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This project received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 817701.

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## Chapter 1

### Circular bioeconomy in Europe

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## Circular economy, bioeconomy or circular bioeconomy?

Click on the images to learn more

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## Exercise 1- Drag and complete key points

- o            Bioeconomy approaches should be tailored to the specific use context to maximise the benefits of bio-based and biodegradable products.
- o            Circularity can help to reduce competition for land and aquatic resources and thus contribute to the mitigation of climate change and biodiversity loss, but ultimately a coherent perspective on the main policy interventions is necessary.
- o Food, water and nutrients are key product value chains in the            Circular economy Action plan.
- o The            Bioeconomy Strategy, however, pays little attention to eco-design and waste collection,            Circular economy is driven by resources scarcity and environmental concerns, whereas            Bioeconomy is driven by the innovation agenda.
- o The            Circular economy Action Plan focuses mainly on the use of finite, abiotic resources.
- o A sustainable and            Circular bioeconomy would keep resources at their highest value for as long as possible through cascading biomass use and recycling, while ensuring that natural capital is preserved.

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## Exercise 2: True or false

- 45% of biowaste across Europe is collected separately and recycled in a sustainable way by composting and anaerobic digestion. T F
- In a circular economy, farms a resource for organic soil improvers, fertilisers, growing media component and bio-based products. T F
- Biowaste and especially garden waste is the most sensitive waste fraction. T F
- Biowaste plays is important because of its potential for recovery as energy or nutrients for soil. T F
- With the new waste legislation more than 80 million tonnes of biowaste could be recycled, which will result in the creation of 20,000 new jobs. T F
- Separating of biowaste from the residual waste enables increased recycling rates of other waste materials (glass, plastics, paper and metals). T F
- The uncontrolled decomposition of organic materials in landfills leads to the emission of greenhouse gases such as carbon dioxide, sulphur dioxide and nitrogen dioxide. T F

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## ➤ T10.5 Replication actions. E-learning

- The SCALIBUR e-learning is permanently available (since 29 October 2021).
- Please support us> register and complete one or the two modules and give us feedback:

<https://scalibur.geonardo.com/>

# Thanks!



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