



**LAND MANAGEMENT, ENVIRONMENT & SOLID-WASTE:
INSIDE EDUCATION AND BUSINESS IN CENTRAL ASIA
ERASMUS-EDU-2023-CBHE Project Number: 101129032**

MICRO-CREDENTIAL

**CIRCULAR ECONOMY
FOR LAND AND WASTE MANAGEMENT**

15. – CE Integration and Final Assessment

***Activity 1.- Capstone project (mandatory): Applied CE
strategy for land & waste***



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Activity 1. Capstone Project (Mandatory): Applied Circular Economy Strategy for Land and Waste Systems

This capstone project is the final mandatory assignment of the course and is designed to integrate the concepts, methods, and case studies explored throughout the micro-credential. Learners will develop an applied circular economy strategy addressing a real or hypothetical land and waste management challenge within a specific local, regional, or national context.

The project may be completed individually or in pairs (if permitted by the instructor or course format).

Project Objective

The purpose of the project is to demonstrate the learner's ability to:

- apply circular economy principles to land and waste systems;
- analyse environmental and resource-management problems;
- propose realistic circular interventions;
- evaluate environmental, economic, and social impacts of the proposed strategy;
- adapt circular economy approaches to territorial and institutional realities.

Suggested Project Themes

Learners may select a topic related to:

- municipal solid waste management;
- organic waste valorisation;
- agricultural waste and bioeconomy;
- recycling systems and material recovery;
- construction and demolition waste;
- soil restoration and circular land management;
- industrial symbiosis;
- urban circular economy planning;
- water–energy–food–waste nexus approaches;
- circular economy opportunities in Central Asia.

Project Structure

The capstone project should include the following components:

1. Introduction and Problem Description
 - Description of the selected land or waste management challenge.
 - Explanation of why the issue is environmentally, economically, or socially important.
2. Current Linear System Analysis
 - How resources and waste currently flow within the system.
 - Main inefficiencies, environmental impacts, or resource losses.
3. Proposed Circular Economy Strategy
 - Description of the proposed circular solution or intervention.
 - Circular principles applied (reuse, recycling, regeneration, industrial symbiosis, eco-design, etc.).
 - Stakeholders involved.
4. Expected Benefits
 - Environmental benefits.
 - Economic benefits.
 - Social benefits.
5. Potential Barriers and Recommendations
 - Financial, technological, institutional, or social barriers.
 - Recommendations for implementation.

6. Visual

Component

Include at least one:

- material flow diagram;
- circular system scheme;
- concept map;
- infographic;
- or comparative linear vs circular flow illustration.

Submission Format

The project has to be submitted as:

- a written report (recommended length: 1500–2500 words),
- a PPT presentation.

Assessment Criteria

Projects will be evaluated based on:

- understanding of circular economy principles;
- quality of system analysis;
- realism and applicability of the proposed strategy;
- integration of environmental, economic, and social dimensions;
- clarity of communication and visual presentation;
- critical thinking and use of course concepts.

Optional Regional Focus

Learners are encouraged to focus on challenges relevant to Central Asia or their own local context whenever possible, using regional examples and practical sustainability considerations discussed throughout the course.