



**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**

10. – Urban Circular Economy and Land Use

***Activity 1.- Case worksheet: circular reuse of urban land
or brownfield sites.***



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Activity 1. Case Worksheet: Circular Reuse of Urban Land or Brownfield Sites

Objective:

To analyze how circular economy principles can be applied to the regeneration and reuse of abandoned urban or industrial land.

Task:

Choose a real or hypothetical brownfield site in your city, region, or country (e.g., abandoned factory, unused warehouse area, former industrial zone, or degraded urban land). Imagine that the municipality plans to redevelop this area using circular economy principles.

Prepare a short case worksheet (1–2 pages or presentation slide) addressing the following points:

- Describe the site and its current condition.
- Identify the main environmental or land-use problems associated with the site (e.g., contamination, unused infrastructure, waste accumulation, urban sprawl).
- Explain which circular economy strategies could be applied to regenerate the area. Consider:
 - reuse of existing buildings or infrastructure,
 - recycling or recovery of construction materials,
 - design for disassembly,
 - renewable energy integration,
 - green infrastructure or ecosystem restoration,
 - mixed or multifunctional land use.
- Suggest how the redevelopment could reduce pressure on greenfield land and minimize waste generation.
- Describe potential environmental, economic, and social benefits for the surrounding community.

Expected Outcome:

Students should demonstrate an understanding of how circular economy and urban metabolism concepts can support sustainable land management, reduce land-use conflicts, and transform degraded urban spaces into regenerative and resource-efficient systems.