



**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 2.- Peer-check quiz: urban CE concepts.



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Activity 2.- Peer-check quiz: urban CE concepts

Complete the provided quiz on urban circular economy concepts individually. After finishing, exchange your answers with a partner or another group for peer review.

During the peer-check process, learners should:

- review each other's answers for accuracy and completeness;
- identify incorrect or unclear responses;
- discuss the correct concepts using lecture materials;
- provide constructive feedback and explanations where necessary.

After the discussion, students should revise any incorrect answers and submit the corrected version.

Peer-Check Quiz: Urban Circular Economy Concepts

What is meant by the term "urban metabolism"?

- a) The economic growth rate of cities
- b) The flow of materials, energy, water, and waste within urban systems
- c) The transportation system of a city
- d) The architectural design of urban buildings

True or False:

In a linear urban metabolism, most materials are continuously reused within the city.

Which of the following is an example of a circular strategy in construction?

- a) Expanding landfills
- b) Using virgin materials only
- c) Design for disassembly
- d) Demolishing buildings after short-term use

What is a brownfield site?

- a) A protected natural forest
- b) Agricultural land used for farming
- c) An abandoned or underutilized industrial or commercial area
- d) A newly developed residential area

Why is construction and demolition waste (CDW) a major environmental concern?

- a) It contains only biodegradable materials
- b) It represents one of the largest global waste streams
- c) It does not require landfill space
- d) It has no impact on land use

Match the concept with its definition:

Concept Definition

- A. Urban mining 1. Reusing abandoned industrial land
- B. Brownfield regeneration 2. Recovering valuable materials from existing urban structures
- C. Design for disassembly 3. Designing buildings so components can be easily separated and reused

True or False:

Circular economy strategies can help reduce urban sprawl and land-use conflicts.

Which material flow is most commonly associated with urban mining?

- a) Freshwater only
- b) Agricultural crops

- c) Metals and construction materials from existing buildings
- d) Natural forests

What is the main purpose of a Material Passport in circular construction?

- a) To estimate building costs only
- b) To store information about materials and their reuse potential
- c) To measure air pollution
- d) To regulate transportation systems

Explain briefly how circular economy principles can improve sustainable land management in cities.

Example answer:

Circular economy principles reduce waste generation, promote reuse of materials and buildings, support brownfield regeneration, and decrease pressure on greenfield land and natural ecosystems.