



**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

Discussion

How can cities close material loops while saving land?



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Task description

In this discussion, you will reflect on how cities can become more circular while using land more efficiently. Urban areas consume large amounts of materials, water, energy and food. They also generate construction waste, household waste, wastewater, packaging, organic waste, electronic waste and emissions.

A circular city should reduce waste generation, reuse materials, recycle resources, recover energy and nutrients, and avoid unnecessary land consumption. At the same time, cities need land for housing, transport, green spaces, industry, services, waste facilities and infrastructure.

Discuss how cities can close material loops without occupying more land. You may consider compact urban planning, brownfield redevelopment, urban mining, construction material reuse, decentralised composting, repair centres, sharing systems, green infrastructure, wastewater reuse, and better logistics for waste collection.

Guiding questions

1. Which urban material loop is most important in your city or region?
2. How could this loop be closed more effectively?
3. How can circular economy reduce pressure on landfills or new land development?
4. What role can brownfield redevelopment or compact planning play?
5. What conflicts may arise between circular infrastructure and land use?

Expected contribution

Write a discussion post of approximately **300–450 words**. Include one urban example and explain how it could save land or reduce land pressure.

- **Discussion prompt: “How can cities close material loops while saving land?”**

Open the following link to add your answer to Google Classroom and leave your comments in the comment column:

<https://classroom.google.com/c/ODYzNzlyNDY3MjUx/a/ODYzNzE5MzI4MDQw/details>