



**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**

#### **7.- Organic Waste and Biological Cycles**

##### ***Discussion***

***How can organic waste management directly improve  
soil health?***



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### Task description

In this discussion, you will explore the connection between organic waste and soil health. Organic waste includes food waste, crop residues, manure, garden waste, pruning residues, sewage sludge, and other biodegradable materials. When managed poorly, organic waste can produce odours, methane emissions, leachate, pathogens and water pollution. When managed properly, it can become a valuable resource.

Circular management of organic waste can support biological cycles through composting, anaerobic digestion, mulch production, soil amendment, nutrient recovery, and safe return of organic matter to land.

Discuss how organic waste management can improve soil health in your region. Consider soil organic matter, nutrient cycling, soil structure, water retention, erosion control, microbial activity and crop productivity. Also consider risks if organic waste is contaminated or poorly treated.

### Guiding questions

1. What types of organic waste are common in your region?
2. How are they currently managed?
3. How could they be transformed into a resource for soil?
4. What soil health benefits could result?
5. What risks must be controlled before applying organic waste to land?

### Expected contribution

Write a discussion post of approximately **300–450 words**. Include one example of organic waste and explain how it could improve soil health if safely managed.

- **Discussion prompt: “How can organic waste management directly improve soil health?”**

Open the following link to add your answer card to Miro wall and leave your comments using sticky notes:

[https://miro.com/welcomeonboard/SU1JdmpsamUzWWZRa0tCRE42UitSTWxoSVlgSmFDOFIY1IqcVRVNmRCTERLQlpxb3JIZzV1SWkrWGxtaGNsQW1Gd2diNzEwY0x2T2ZaMDAzY0lGYk9NTTZ3S29mcEpYTi9HUG1iZzdPZjVzYlhnHN0VsYVdqaG5UZkhxOEhrRWFBd044SHFHaVlWYWk0d3NxeHNmeG9BPT0hdjE=?share\\_link\\_id=868478449973](https://miro.com/welcomeonboard/SU1JdmpsamUzWWZRa0tCRE42UitSTWxoSVlgSmFDOFIY1IqcVRVNmRCTERLQlpxb3JIZzV1SWkrWGxtaGNsQW1Gd2diNzEwY0x2T2ZaMDAzY0lGYk9NTTZ3S29mcEpYTi9HUG1iZzdPZjVzYlhnHN0VsYVdqaG5UZkhxOEhrRWFBd044SHFHaVlWYWk0d3NxeHNmeG9BPT0hdjE=?share_link_id=868478449973)