



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

MICRO-CREDENTIAL

LAND MANAGEMENT IN CENTRAL ASIA

**7.- Theoretical Foundations of Land Resource
Management**

Activity

Build a theoretical land management model



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Student Worksheet

Lesson Topic: Activity – Build a Theoretical Land Management Model

Name: _____

Date: _____

Instructions

In this activity, you will design your own theoretical land management model. Follow each step carefully. Use diagrams where necessary and explain your ideas clearly using land management terminology.

Part 1. Concept Understanding

1. What is a land management model?

2. Why is it important to use models in land management?

Part 2. Identify Model Components

Task: Complete the Table

Fill in the table with appropriate examples:

Component	Description	Example
Natural Resources	_____	_____
Human Activities	_____	_____
Institutional Framework	_____	_____
Management Processes	_____	_____
Outputs	_____	_____

Part 3. Build Your Model

Task: Design a Simple Model

Draw a diagram showing how the following elements are connected:

- Inputs (Natural Resources)
- Human Activities
- Policies & Governance
- Land Management Processes
- Outputs (Results)
- Draw your model below:

Part 4. Model Explanation

4. Explain how your model works step by step.

5. What are the main goals of your model? (economic, environmental, social)

6. How does your model ensure sustainable land use?

Part 5. Scenario Application

Task: Apply Your Model

Imagine a land parcel used for agriculture but facing problems like soil degradation and water shortage.

7. How would your model solve these problems?

8. What changes would you recommend in land use or management?

Part 6. Reflection and Evaluation

9. What are the strengths of your land management model?

10. What are its limitations or weaknesses?

Part 7. Discussion Questions

11. Why is it important to include feedback mechanisms in land management models?

12. How can modern technologies (GIS, remote sensing) improve your model?

13. Compare your model with others in class. What are the main differences?

Teacher's Comment
