



# GreenWave

We are what we keep

**UrbanLab** for Green Cities  
București, 17-19 noiembrie 2023

**Team 11**



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# The Problem

**Biodegradable waste** constitutes a significant portion of municipal waste, accounting for up to **50%** of the total waste.

Unfortunately, it often ends up in landfills instead of being valorized through **composting**.

The aim is to:

- Support organic agricultural production
- Achieve the annual goal of reducing the quantities of municipal waste disposed of in landfills, set at 60% starting from the year 2022 (50% recycling; 10% other forms of valorization).

# The Problem - visual



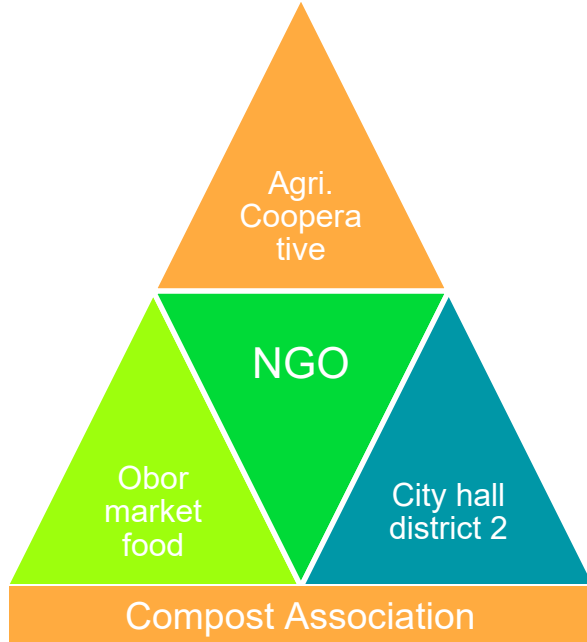
# Existing solutions

Composting Station	Year	Cost	Processed Amount of Biodegradable Waste	Compost Result
Arad	2018	30 millions EUR	10.000 tone/ year	5.500 tones per year
Oradea Bihor	2016	27 millions lei	60.000 tones/year	22.000 tones per year
Sibiu	2012	46 millions lei	18.600 tones/year	6500 tones per year

**! The Arad composting station is NOT operating at optimal parameters**

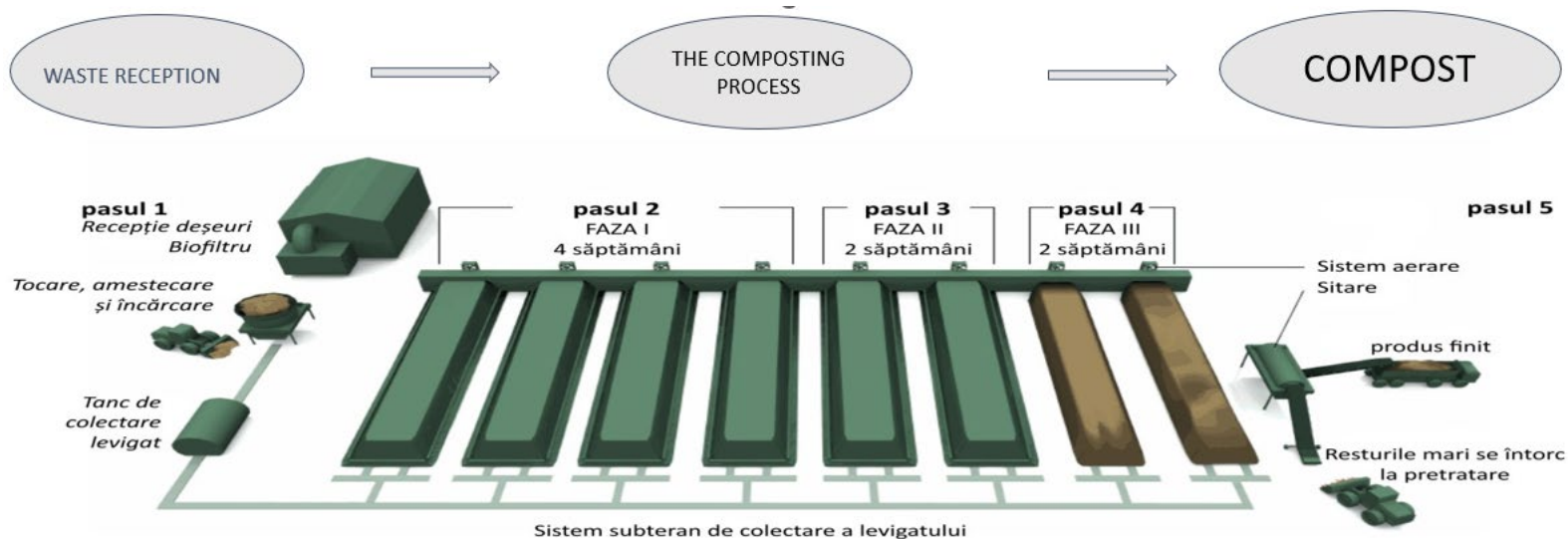
(the director of the FCC does not know if it is still profitable for the company to continue this activity in the future – the FCC manages the composting station)

# Solution



Our mission is to transform biodegradable waste into high-quality compost, contributing to soil health and reducing the negative impact on the environment.

# Solution

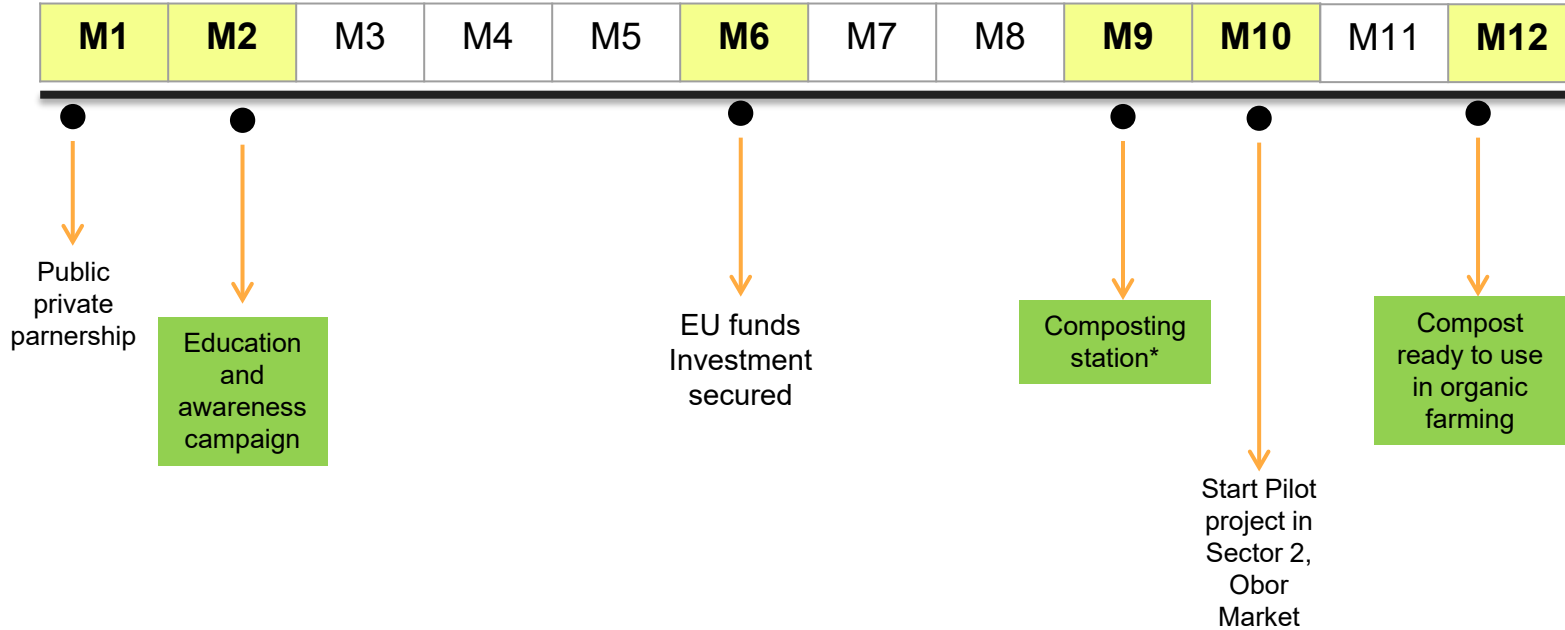


# Solution – Competitive Advantage

	<i>GreenWave</i>	<i>Statie de compostare Arad</i>	<i>Statie de compostare Oradea-Bihor</i>	<i>Statie de compostare Sibiu</i>
Support for organic agricultural production	✓	✓	✓	✓
Partnership with the agricultural cooperative for the utilization of compost/flower soil in affiliated farms	✓	✗	✗	✗
Support for achieving annual goals of reducing the quantities of municipal waste disposed of in landfills, set at 60% starting from the year 2022	✓	✓	✓	✓
Partnership with Obor Market for the collection of biodegradable waste (high-quality and compliant raw material).	✓	✗	✗	✗



# Timeline

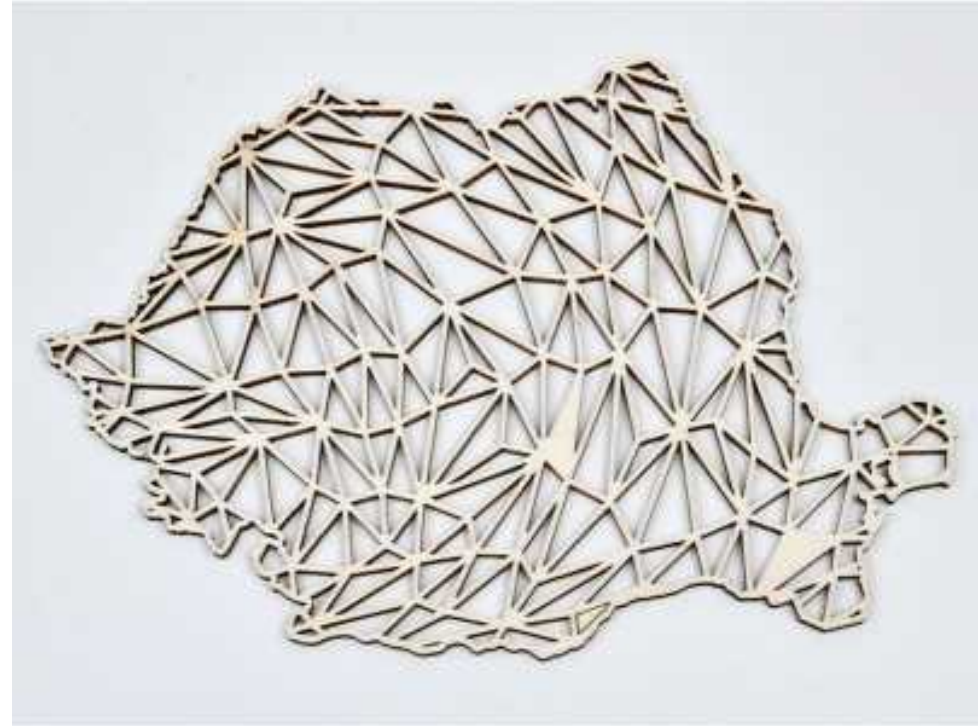


\*in Ilfov county

# Scalability potential

The technical solution is easily scalable and implementable in the next city, taking a maximum of 3 months to build the composting station. Simultaneously, partnerships and specific documentation will be established.

Target cities to implement the solution – small and medium: Cluj, Timisoara, Brasov, Iasi.



# Necessary investments

Investments	Price	Number of pices	Total
Garbage truck (SH)	16.500 EUR	2	33.000 EUR
Composting station (Gore System)	350.000 EUR	1	350.000 EUR
Bulldozer with front loading (SH)	34.000 EUR	1	34.000 EUR
Biodegradable waste container	460 EUR	10	4600 EUR
Composting station land (provided by the cooperative free of charge)	0 EUR	1	0 EUR
Total costs			421.000 EUR

# Monthly expenses

Costs	Price	Units	Total
Salary expenses	1.428 EUR	7 people	10.000 EUR
Monthly costs for maintaining the composting station	3.000 EUR	1	3.000 EUR
Equipment maintenance	1.000 EUR	3	1.000 EUR
Land (free of charge)	0 EUR	1	0 EUR
Total costs			14.000 EUR*

\*Income to cover expenses: food market pays 50% of the usual tax for waste collection

Thank you for your attention  
and support!



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