

Under the High Patronage of His Majesty King Mohammed VI



**XIX WORLD WATER CONGRESS**  
International Water Resources Association (IWRA)  
Marrakech, Morocco | 1-5 December 2025

Kingdom of Morocco



Ministry of  
Equipment and Water

# Organic Waste for Clean Water

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ReBin and Georgetown University  
1st December 2025



# ReBin – An Introduction

- Based in Geneva, Switzerland
- Scope: Designs and implements autonomous waste recovery systems in West Africa
- Initial project: organic waste collection and transformation
- Operates mainly in the Republic of Benin



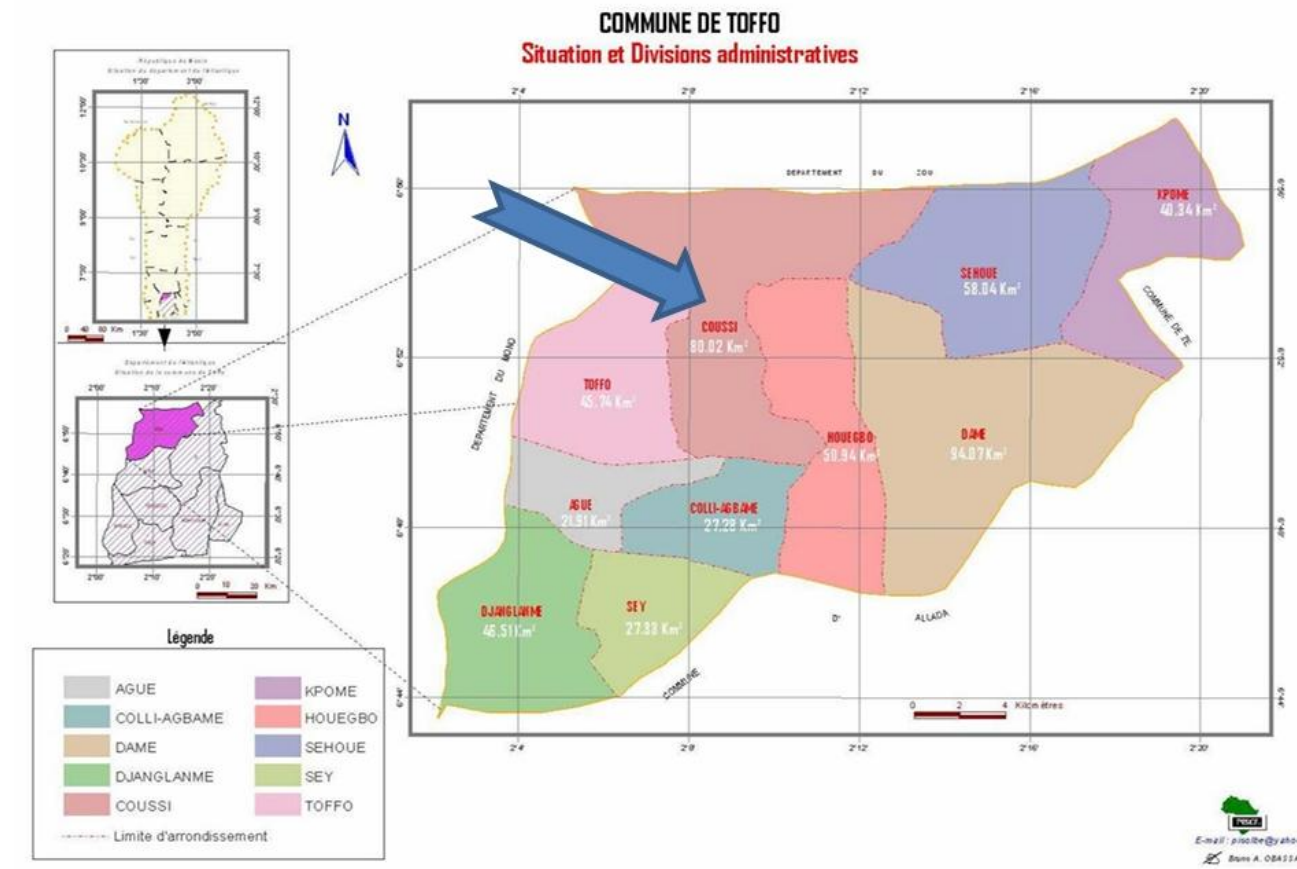
*Aerial view of ReBin's waste recovery center in Toffo, Benin*





# The 'Organic Waste for Clean Water' project

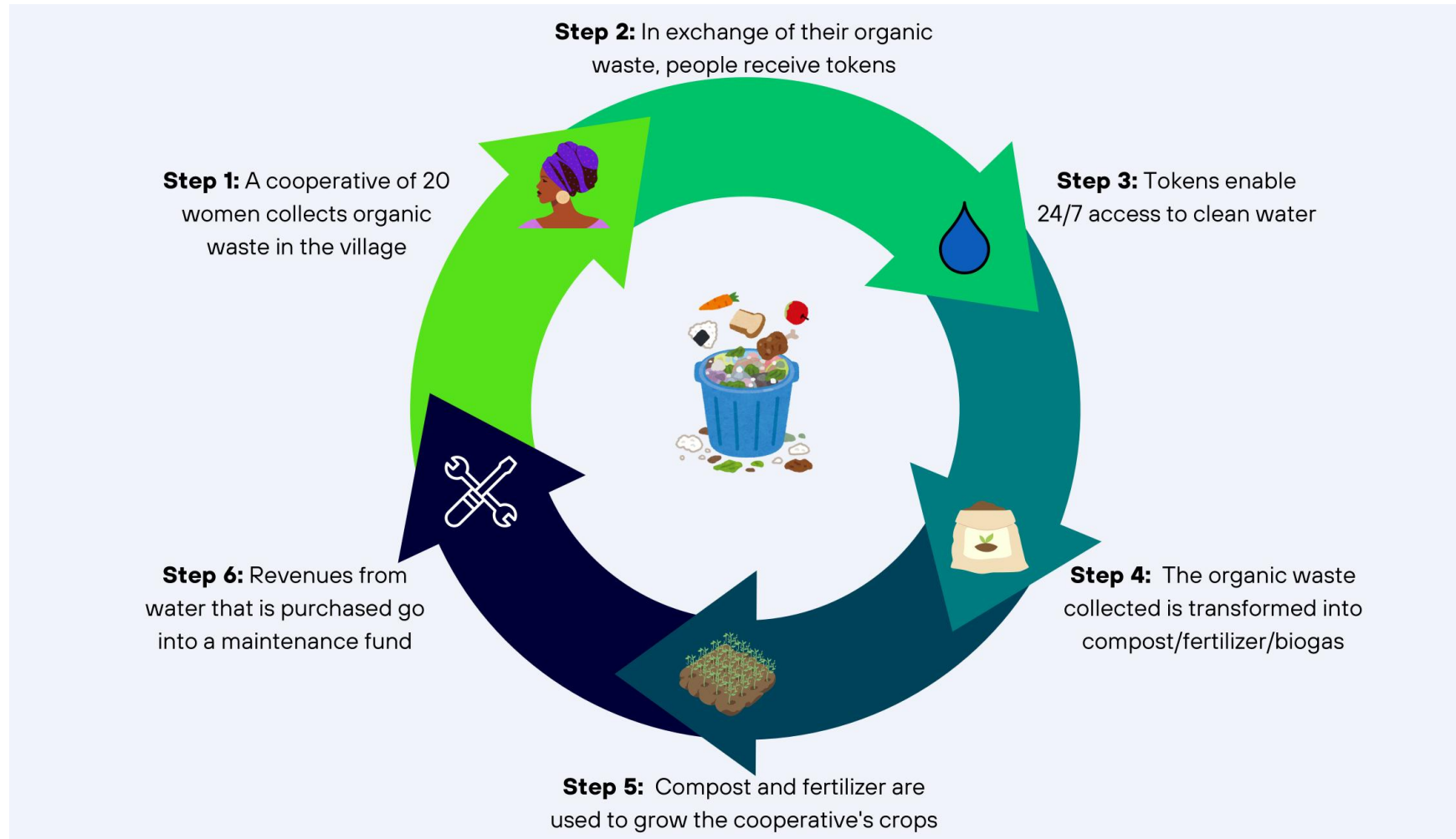
- Local population's needs:  
Clean water > money
- Toffo because: Less than 1/3 of the commune with direct access to water
- Adjaho village because:  
No clean water within a 5km radius
- New exchange model:  
Waste for clean water since 23rd March 2023



# The 'Organic Waste for Clean Water' project



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# Quantitative results

Since March 2023:

- 200,000 liters of water distributed for free in public primary school
- 900,000 liters of water purchased (20 FCFA/40 liters) - revenue of 550,000 FCFA
- 500,000 liters of water exchanged against 40 T of organic waste; which produced 20 T of compost

Social impact:

- 15-20 temporary jobs created to build the infrastructure
- 2 local partners for the maintenance of the solar installations and the well
- 4 permanent jobs (people responsible for water distribution and compost production)
- 20 women responsible for the partial collection of waste and for the agroecological sites



# The project's "water benefits"

1. The obvious: access to clean water
2. The less obvious:
  - compost has high water retention
  - waste collection prevents the pollution of the area's groundwater



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# Water in a Changing World: Innovation and Adaptation

# Innovation - Financial self-sufficiency



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- Initial investment: 35,000 EUR
  - not meant to be recovered
  - replicable for 10K-50K
- 100% of the project's operational costs covered
  - the ladies collecting waste are NOT employees, they are ECO-ENTREPRENEURS
- 100% of the project's maintenance costs financed by the sale of water
- Use of solar panels
  - reduces costs and risk of energy shortages





# Why the project is groundbreaking

According to the most recent studies, 30 to 50% of water projects fail between 2 and 5 years after their inception.

One of the main reasons for this is the lack of sustainable financing mechanisms.

Designing every water projects like the 'Organic Waste for Clean Water' project would address this issue for good.

**Access to drinking water is a fundamental human right and no one should be deprived from that right because of financially unsustainable projects.**



# Adaptation - The project's design can be adapted to any contexts



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Every community produces organic waste.

ReBin's *Waste for Water* involves organic waste

- But it can be plastic, cardboard...
- Waste recovery is a never-ending opportunity to generate revenue.

The project can also be implemented in places where there is water supply but poor water treatment.

*Of course: important to consider local specificities and establish the right partnerships*



# The project's design can be replicated by different actors

Other NGOs in the water sector and local authorities

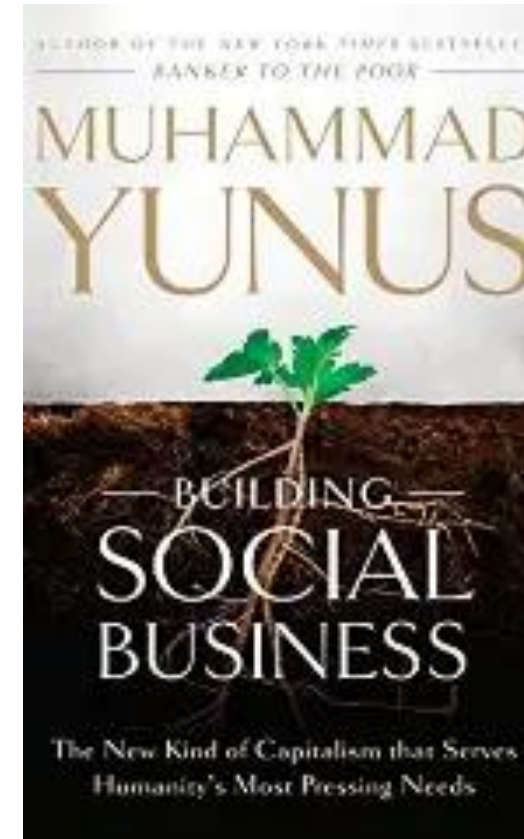
IO-sponsored projects

Social businesses

Ecological entrepreneurs

- Opportunities: more efficient water pumps, accessible PAYG systems, etc.

***ReBin offers consulting/technical support.***



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Thank you!

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