



## Recycling household waste

### PROJECT BACKGROUND

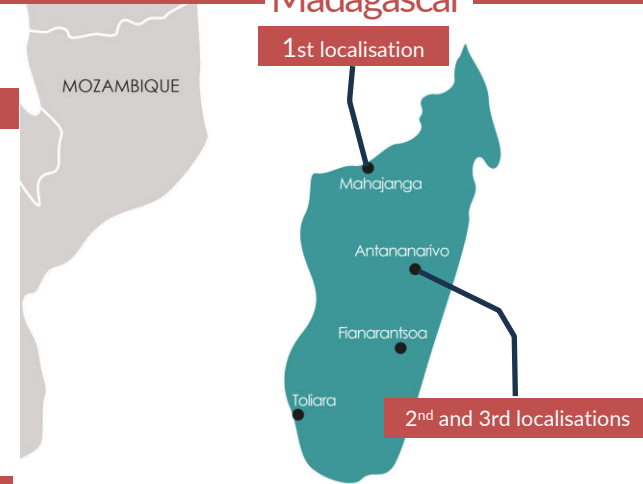
The cities of Antananarivo (capital city) and Mahajanga are facing a **sharp increase in waste production** due to population growth and changing consumer habits. In addition to the **health problems** caused, the decomposition of this waste in the absence of oxygen plays a major role in global warming through the emission of **methane**, a **greenhouse gas 28 times more potent than CO2**. **Composting organic waste reduces greenhouse gas emissions and provides a natural fertilizer** for local farmers.

### PROJECT OUTLINE

The GoodPlanet Foundation's waste composting project in Madagascar aims to **develop organic waste recycling** units in several cities, including Antananarivo and Mahajanga. This program aims to create **three new waste composting sites** by accompanying the Madacompost company over the 5 years of the project, with the support of GRET. The aim is to enable Madacompost to operate independently at the end of the project.

### PROJECT GOAL

- ✓ **3 new composting sites built**
- ✓ **15,000 tonnes of waste treated in the cities of Antananarivo and Mahajanga ;**
- ✓ **3,000 tonnes of highly nutritious compost produced and sold to local farmers;**
- ✓ **Creation of 80 to 100 jobs per year, with priority given to women ;**
- ✓ **Access to land for employees and support for sustainable agriculture.**
- ✓ **7,000 tonnes of CO2eq avoided over 5 years;**
- ✓ **Empowerment and development of our local partner company's waste management activities.**



### KEY INDICATORS

The IPCC (Intergovernmental Panel on Climate Change) estimates that the household waste sector could reduce the greenhouse gas emissions worldwide by 670 million T CO2e (i.e. around 2% of global emissions). Prevention and recycling are the main levers for mitigating climate change in this sector.

In collaboration with :





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### OPERATING PARTNER

The program is implemented by the consortium GoodPlanet Fondation - GRET - Madacompost.

- **GRET**, international development NGO founded in 1976, fights poverty and inequality. They work on a wide range of issues to provide sustainable, innovative solutions for socially responsible development.
- **Madacompost** is a social and environmental company in Madagascar founded in 2011. They oversee recycling and reusing household waste from landfill sites in Antananarivo and Mahajanga, employing former informal workers and providing them with medical cover. The company produces organic biofertilizers and alternative fuels to charcoal.

### CARBON ACCOUNTING AND EXPECTED RESULTS

#### ➤ Carbon accounting

The project uses a methodology developed by the United Nations as part of the Clean Development Mechanism: "Avoidance of methane emissions through composting" (AMS\_3.F). Greenhouse gas emission reductions are calculated annually by counting emissions from the following sources:

- **Methane-generating fermentation of waste** and liquid residues;
- **Electricity** used on site

#### ➤ Expected results

By 2027, it is estimated that 7,000t CO<sub>2</sub>e will be avoided thanks to this project:

- **2,000 t CO<sub>2</sub>e** at the Mahajanga site
- **5,000 t CO<sub>2</sub>e** at the two Antananarivo sites



### PROJECT IMPACTS

#### Environnemental impact



*Combating climate change (reducing greenhouse gas emissions)*



*Reducing the nuisance caused by a poorly controlled landfill site*



*Improving waste collection*



*Improving soil quality by using compost*

#### Socio-economic impact



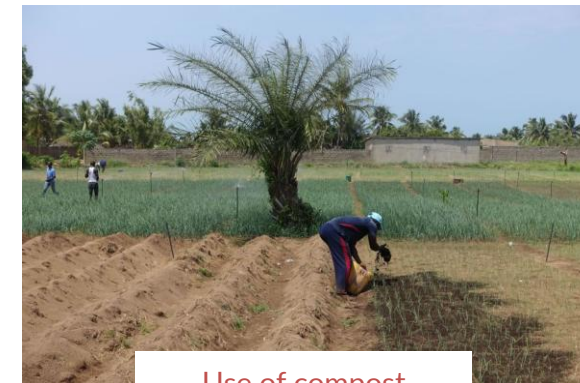
*Raising awareness among local populations of the need for more environmentally-friendly agriculture*



*Developing the local economy*



*Job creation and financial empowerment for women*



Use of compost