

# FOOD LOSS AND WASTE Methane Mitigation

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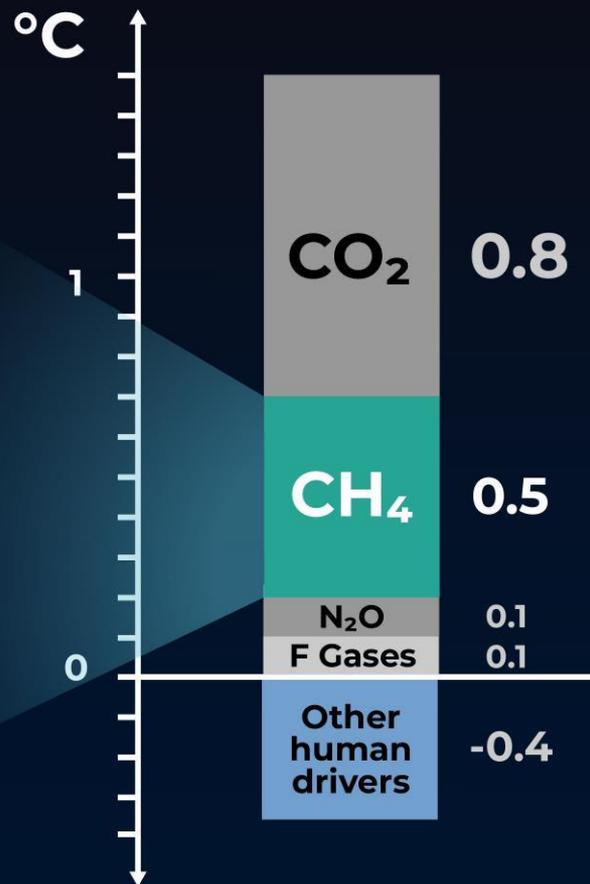
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**GLOBAL METHANE HUB**



**CH<sub>4</sub>** has  
contributed  
to 45% of  
recent net  
warming

IPCC AR6 report.



**60%** of methane  
comes from



**Food  
production**



**Food  
waste**

# Food Loss and Waste (FLW)

- Reduction
- Recovery and Reuse (food banks)
- Segregation
- Treatment with nutrient&energy recovery (compost, AD, etc)
- Disposal (landfills)



# Synergies and opportunities

**CIRCULAR ECONOMY  
CLIMATE CHANGE**



# WASTEMAP

<https://wastemap.earth>



Mexico City



Casablanca



Delhi



Santiago



Buenos Aires



Mumbai



Heat Map & Emissions Data

Decision Support Tool

Citizen Waste Champions Community

End-to-End Waste Management Strategies Playbook

South-to-South Convenings & Information Sharing

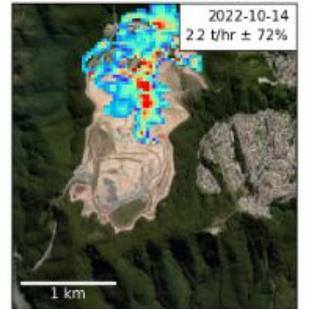
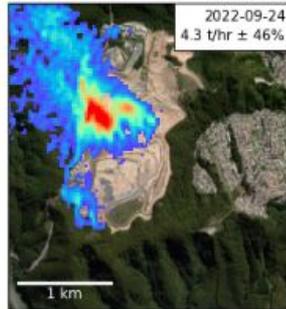
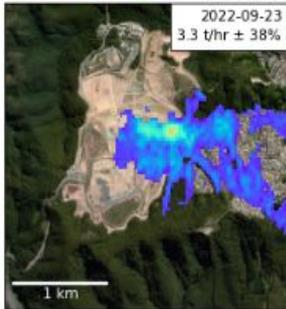
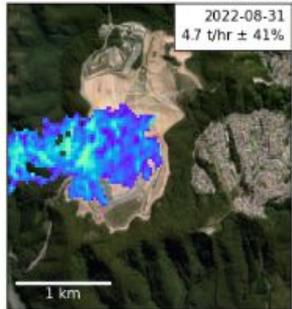
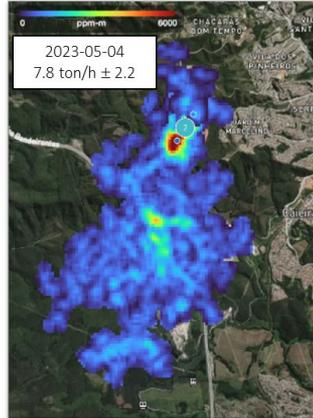
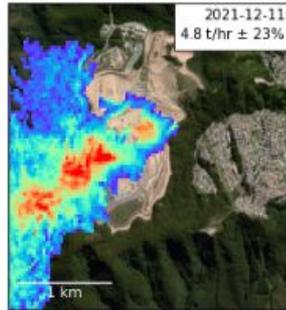
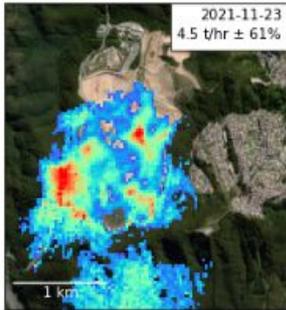
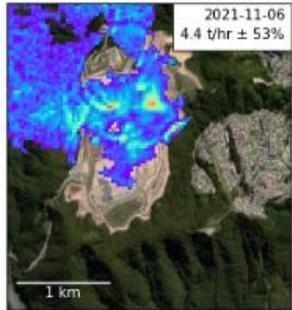
Referential picture



# UVS Essencis Caieiras (Sao Paulo)

4,000 tons of waste treated a day

Source Emission Rate: 4 - 7 kg CH<sub>4</sub>/hr



# Environmental Justice Values and Principles for FLW



**(1) Respect planetary boundaries to ensure intergenerational equity** (Ecological limits + waste hierarchy)

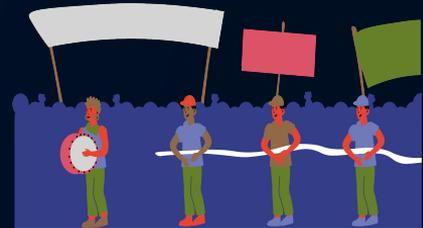
**(2) Respect for all waste pickers and waste workers**  
- (human rights, equity and justice)

**(3) Enhance inclusion and build from local knowledge**  
- (meaningful participation)

**(4) Respond to pollution and environmental harm with accountability** (compensate for damages and prevent further harm)

**(5) Apply a systemic perspective to find holistic solutions**  
- (exceeding SDGs and climate targets)

To be considered for Climate Mitigation Action Plans, new NDCs, and LTS.



# Project Preparation Facilities



- ❖ Capacity building among public officials, private sector companies, waste pickers, and farmers.
- ❖ Business models to implement organics recycling projects.

## ACTORES CLAVES IMPLICADOS

(Cada sistema se desarrolló en función de sus especificidades y realidad local, con la participación central de uno o más actores)



Capture of landfill gas



Biodigestion

Biodigestion is a process that breaks down organic waste in the presence of microorganisms, producing biogas and a nutrient-rich fertilizer.



Compost Plant



Home composting



# Stop pouring gasoline on the planet **Reduce your organic waste**

*Cook only what you plan to eat.  
Reduce leftovers and compost*



**1.3 liters** of  
gasoline

=



**1 kg** of  
organic waste

