

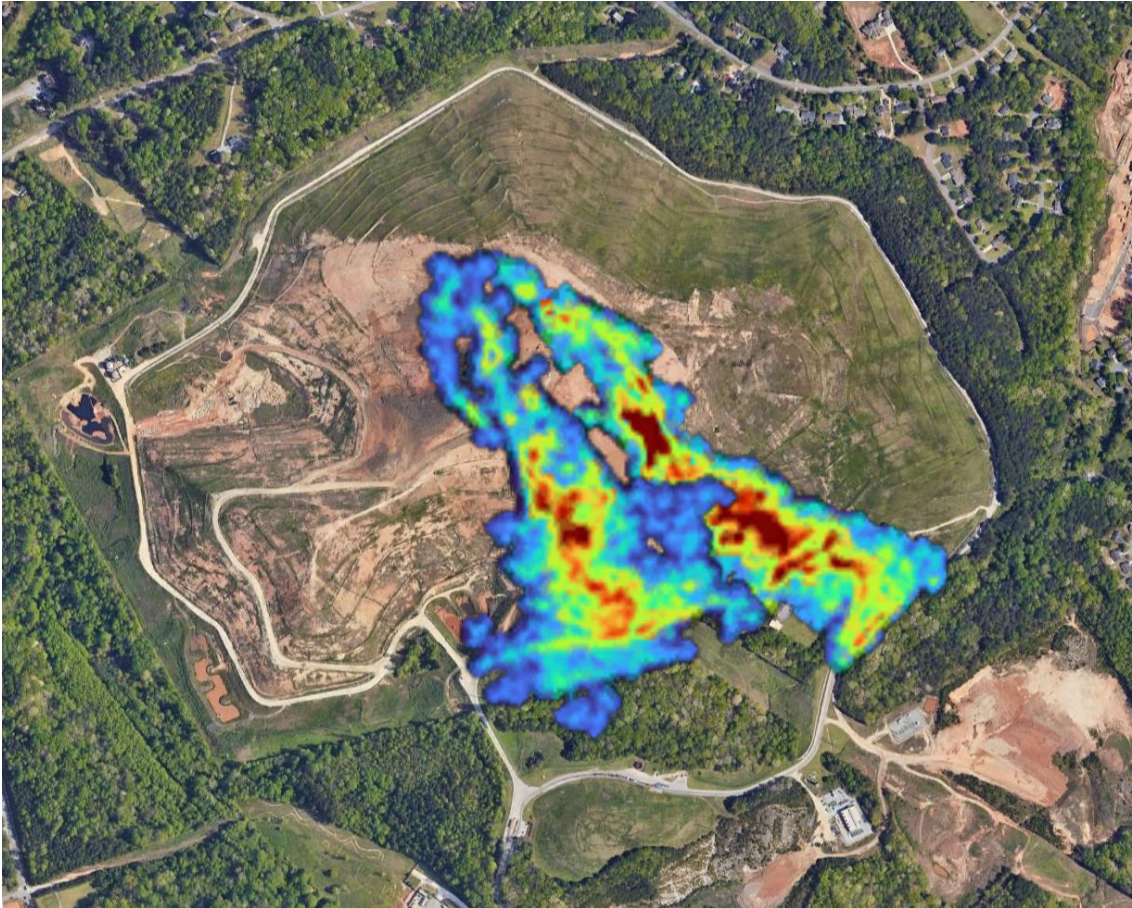


**WASTEMAP**

# Detecting & Reducing Methane Pollution in the United States

**Tom Frankiewicz**  
RMI Waste Methane  
Subject Matter Expert

# Emissions visibility is rapidly improving



Source: Carbon Mapper  
**WASTEMAP**

# Through BIL & IRA, the U.S. is making progress toward the Global Methane Pledge

**NATIONAL STRATEGY TO  
ADVANCE AN INTEGRATED  
U.S. GREENHOUSE GAS  
MEASUREMENT,  
MONITORING, AND  
INFORMATION SYSTEM**

A REPORT BY THE GREENHOUSE GAS MONITORING AND  
MEASUREMENT INTERAGENCY WORKING GROUP



**Biden-Harris Administration  
Announces \$117 Million in  
Grants Available to Advance  
Recycling Infrastructure and  
Prevent Wasted Food**

**EPA, DOE Announce \$850 Million  
to Reduce Methane Pollution from  
the Oil and Gas Sector**

**NATIONAL  
STRATEGY FOR  
REDUCING FOOD  
LOSS AND WASTE  
AND RECYCLING  
ORGANICS**

JUNE 2024



**Waste Emissions  
Charge (WEC)**



**GHGRP Subpart W**

**Biden-Harris Administration  
Invests \$775 Million from  
Investing in America Agenda  
for States to Plug Orphaned  
Oil and Gas Wells**

# A Comprehensive Approach to Reduce Landfill Methane



**Prevention**  
Avoid landfill  
methane  
generation

Waste reduction &  
food donation

Organics recycling

**Mitigation**  
Reduce methane  
from waste-in-  
place

Smart landfill design  
& operations

Advanced leak  
detection & repair

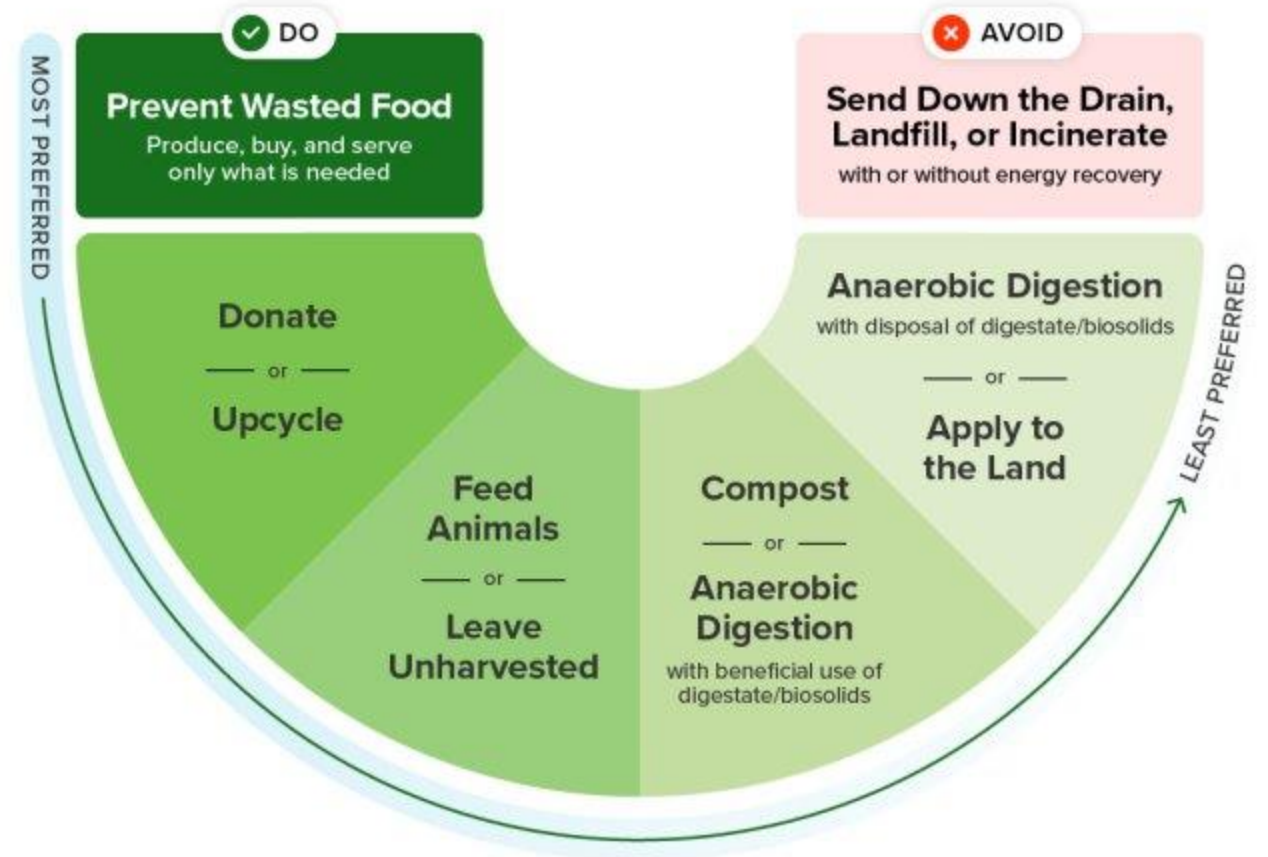


**Prevention** strategies keep organic waste out of landfills through **source reduction, edible food donation, and organics recycling** to **prevent future methane generation**



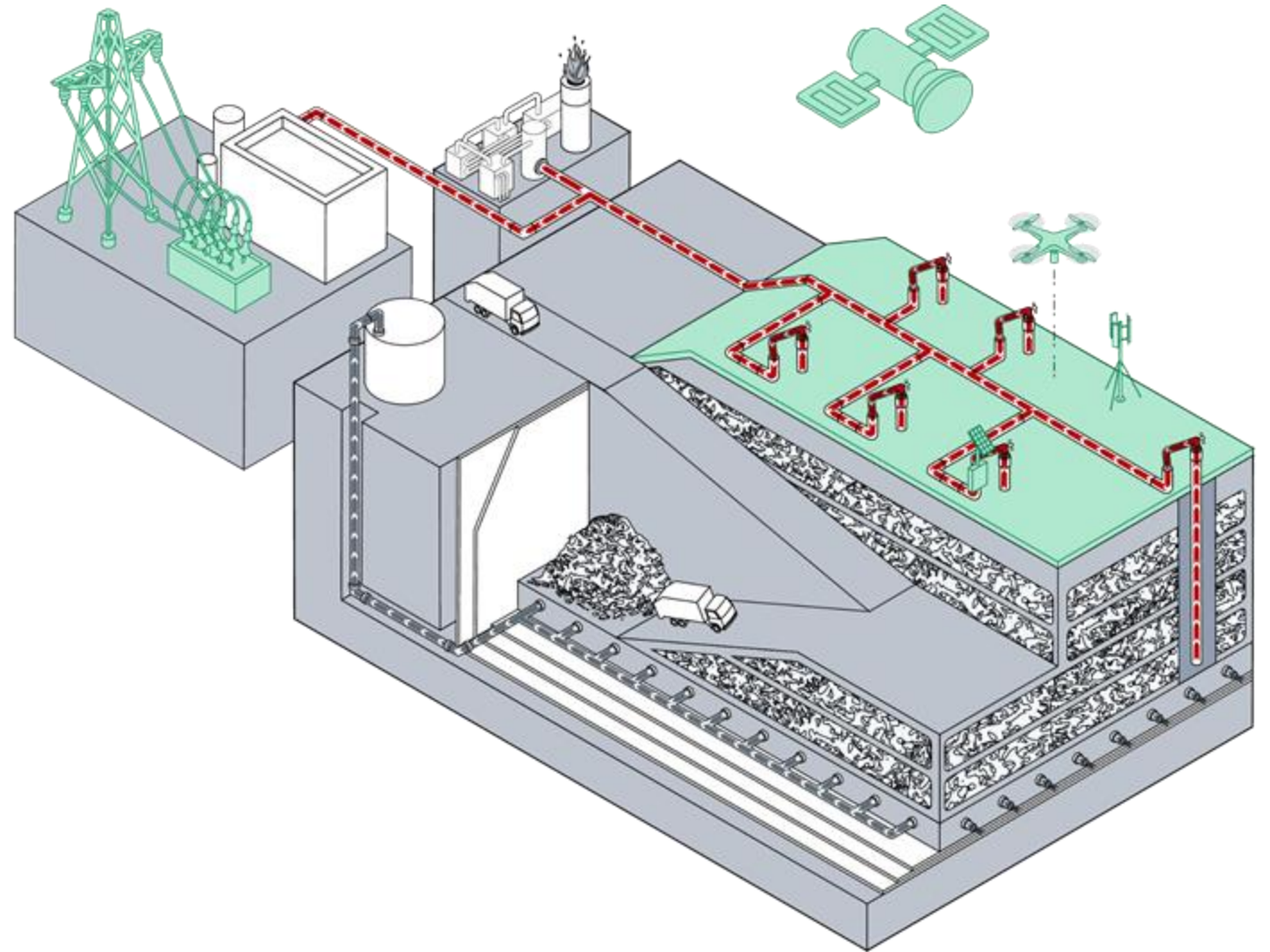
## Wasted Food Scale

How to reduce the environmental impacts of wasted food



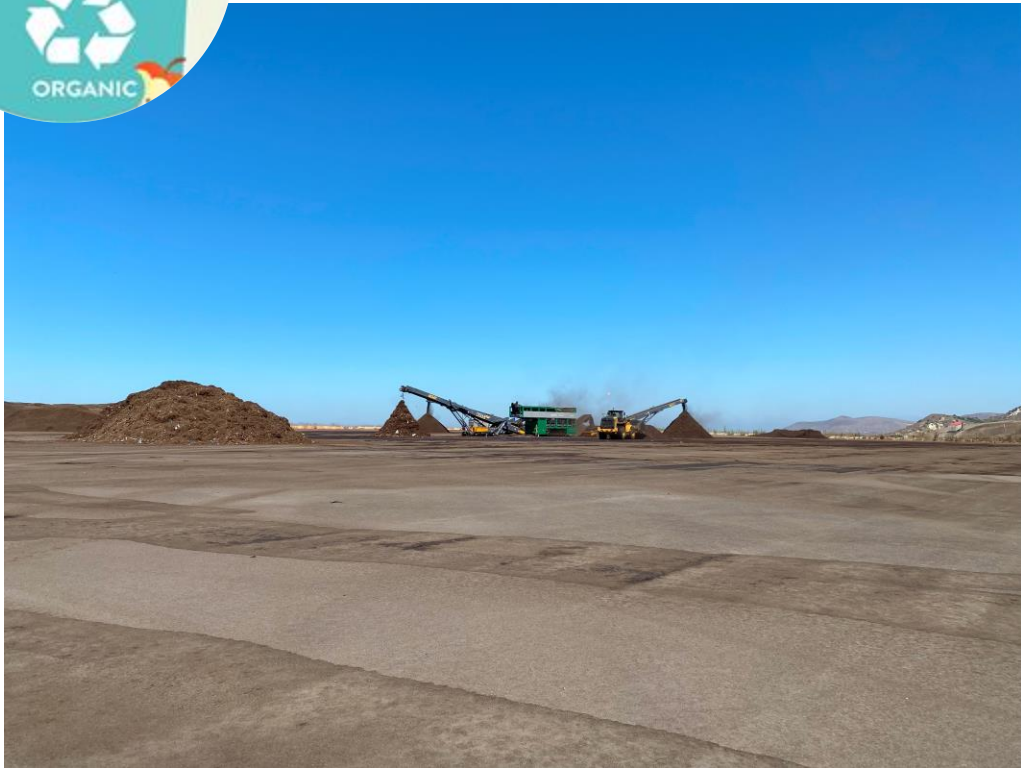
October 2023

**Mitigation** strategies optimize landfill **design, monitoring, and operations** to increase methane capture and reduce fugitive emissions from waste-in-place.



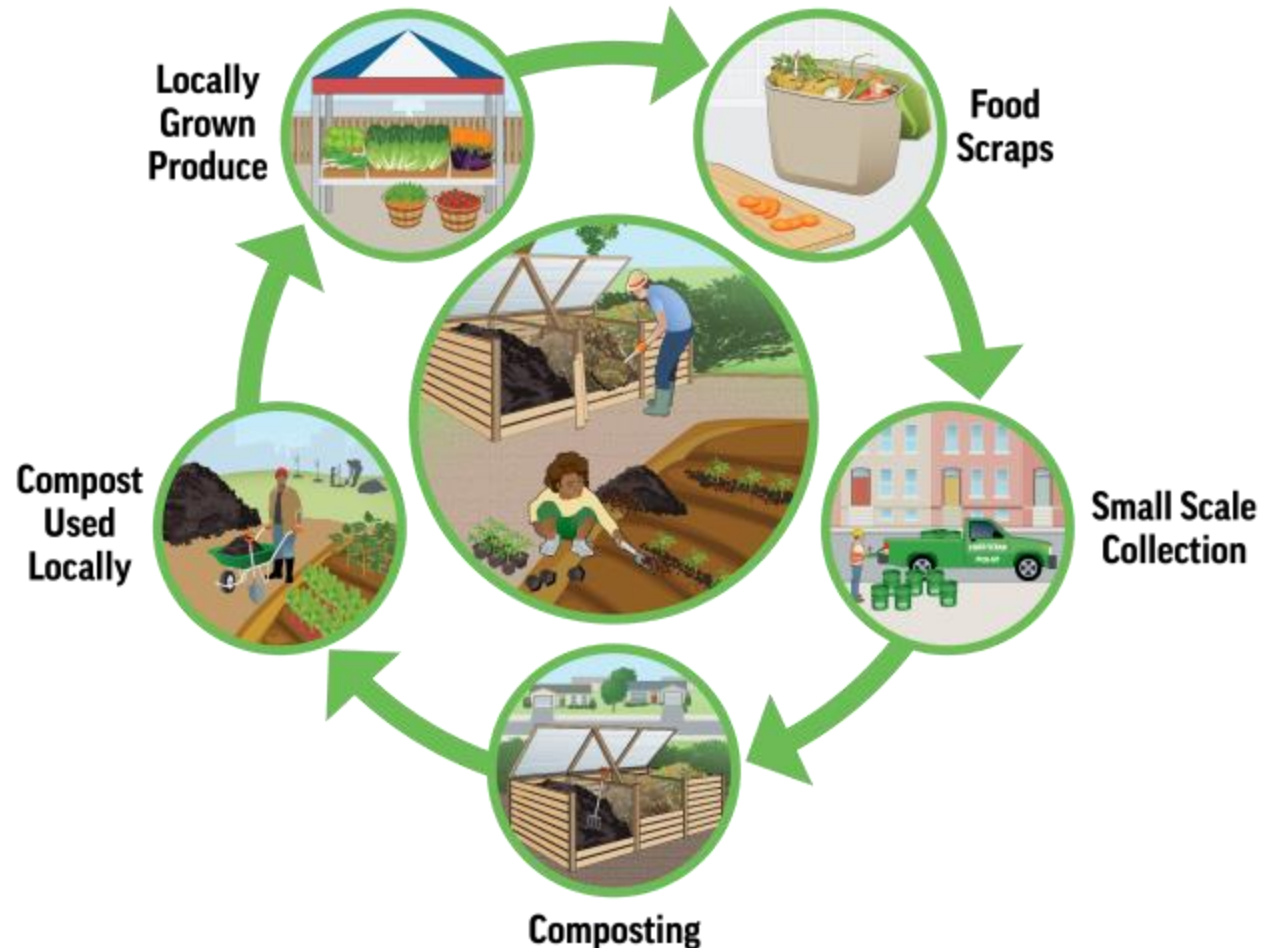


Waste &  
Recycling  
COUNTY OF ORANGE

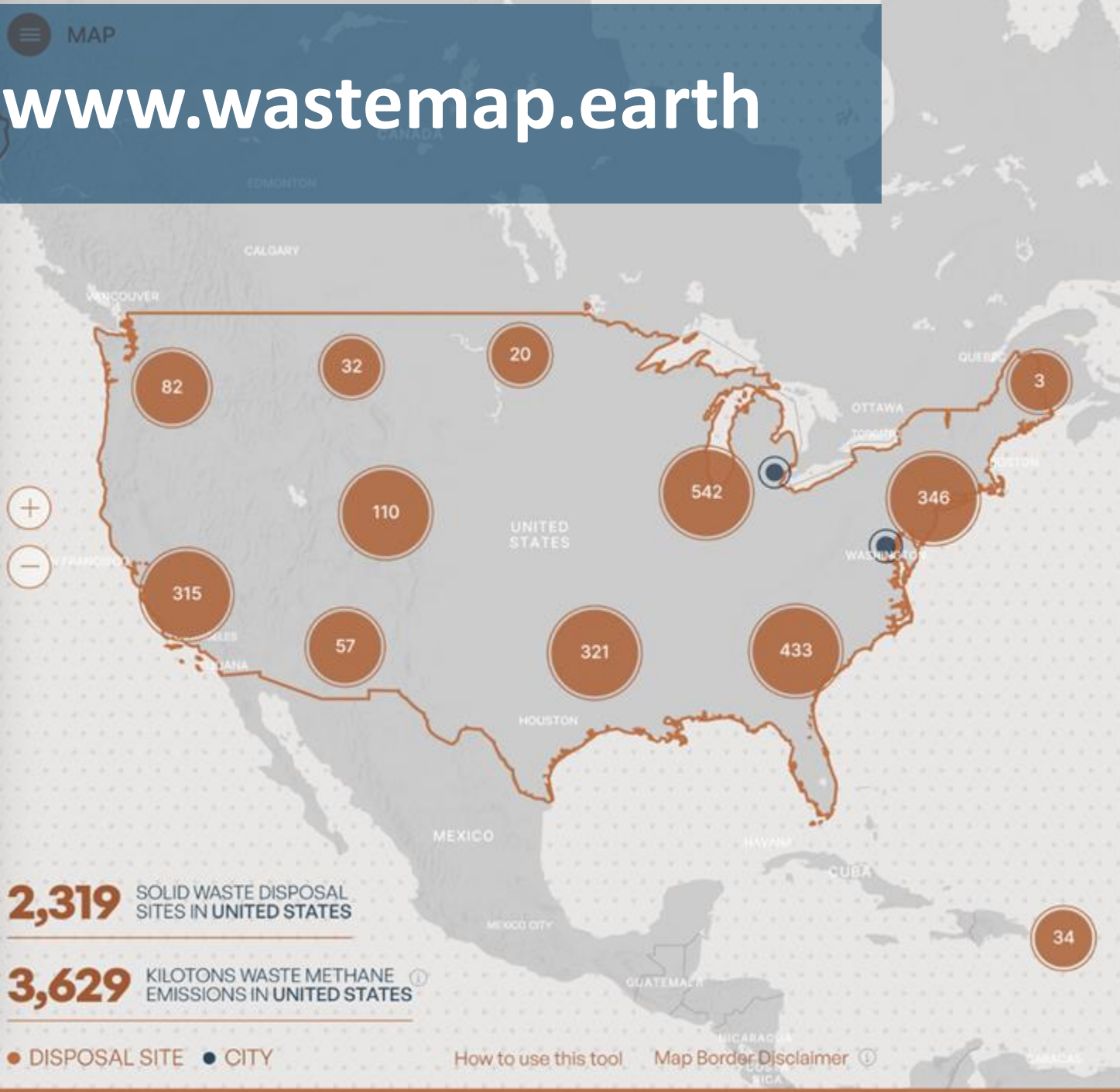


# Global and local benefits

- Slow near-term warming
- Improve air quality
- Protect public health
- Invest in healthy soils and food systems
- Create jobs







## Deploying Advanced Monitoring Technologies at US Landfills: How Landfill Operators and Municipalities Can Leverage New Tools to Reduce Methane Emissions and Deliver Powerful Benefits

(1 FILE)

This playbook is intended to provide an overview of strategies to monitor and mitigate emissions that may be appropriate for US landfill operators to consider based on their evaluation of site-specific, technological, and operational conditions. The playbook also contains some case studies and highlights the community and economic benefits of reducing methane emissions.