

Zero Waste Cities Around the World



Zero Waste USA

Inspiring Communities



Zero Waste Case Studies



San Fernando City, Philippines – Grassroots Education



Capannori, Italy – Zero Waste Research Centre



Goulburn Mulwaree Council, Australia - City to Soil Program



Alameda, California, USA – Zero Waste Social Marketing



Kamikatsu, Japan – Maximize Source Separation



Thiruvananthapuram, India – Zero Waste Model

San Fernando City, Philippines



115,000 population
Divided into 59 barangays



Working Toward Zero Waste

achieved 78% diversion by 2017



Model for Decentralized Collection



Eco Friendly Schools



Zero Waste Youth



Zero Waste Italy

**300 municipalities
in Italy—over six
million inhabitants—
are working
toward Zero Waste**



Capannori, Italy



- 46,000 population
- Province of Lucca in the Region of Tuscany



First City in Europe to Declare Zero Waste achieved 85% diversion by 2014



Zero Waste Research Centre

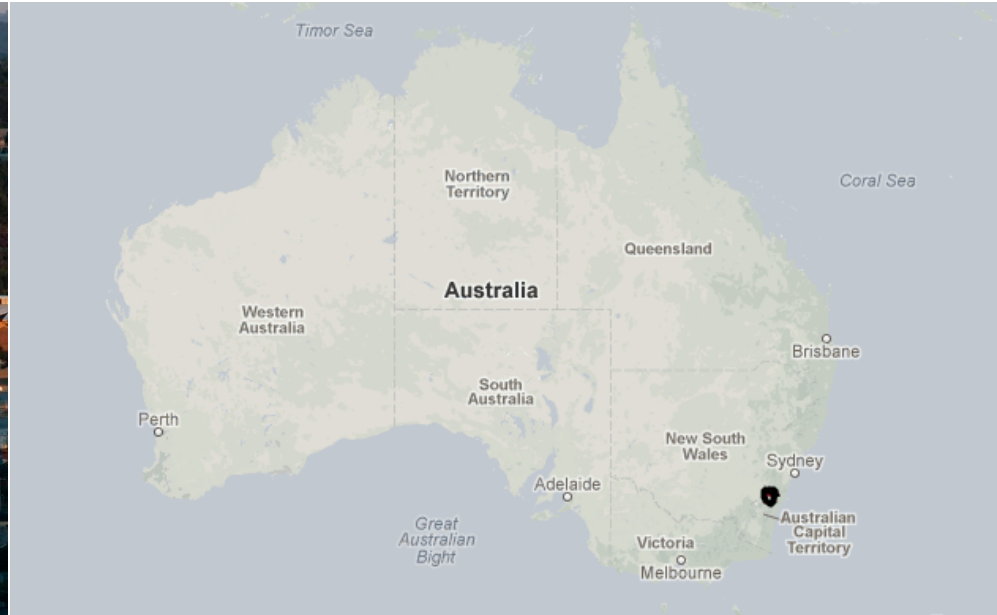


Companies Respond to Capannori



Goulburn Mulwaree Council, Australia

- 28,500 population
- Located in the Southern Tablelands region of New South Wales



City  **TO** **SOIL**



City  **TO** **SOIL**



Zero  *Waste*
AUSTRALIA

Focuses on soil management not waste management



Engaging the community



- Reduce compost contamination
- Support local farmers
- Reduce costs

City to Soil Results

Reduced contamination by 40%

Cleaner, quality compost product for farmers

Compost increased agricultural yields by 82%

Net costs for processing were 50-70% lower than landfill

Alameda, California, USA

- 75,000 population
- “The Island City” on the coast of Oakland across the Bay from San Francisco



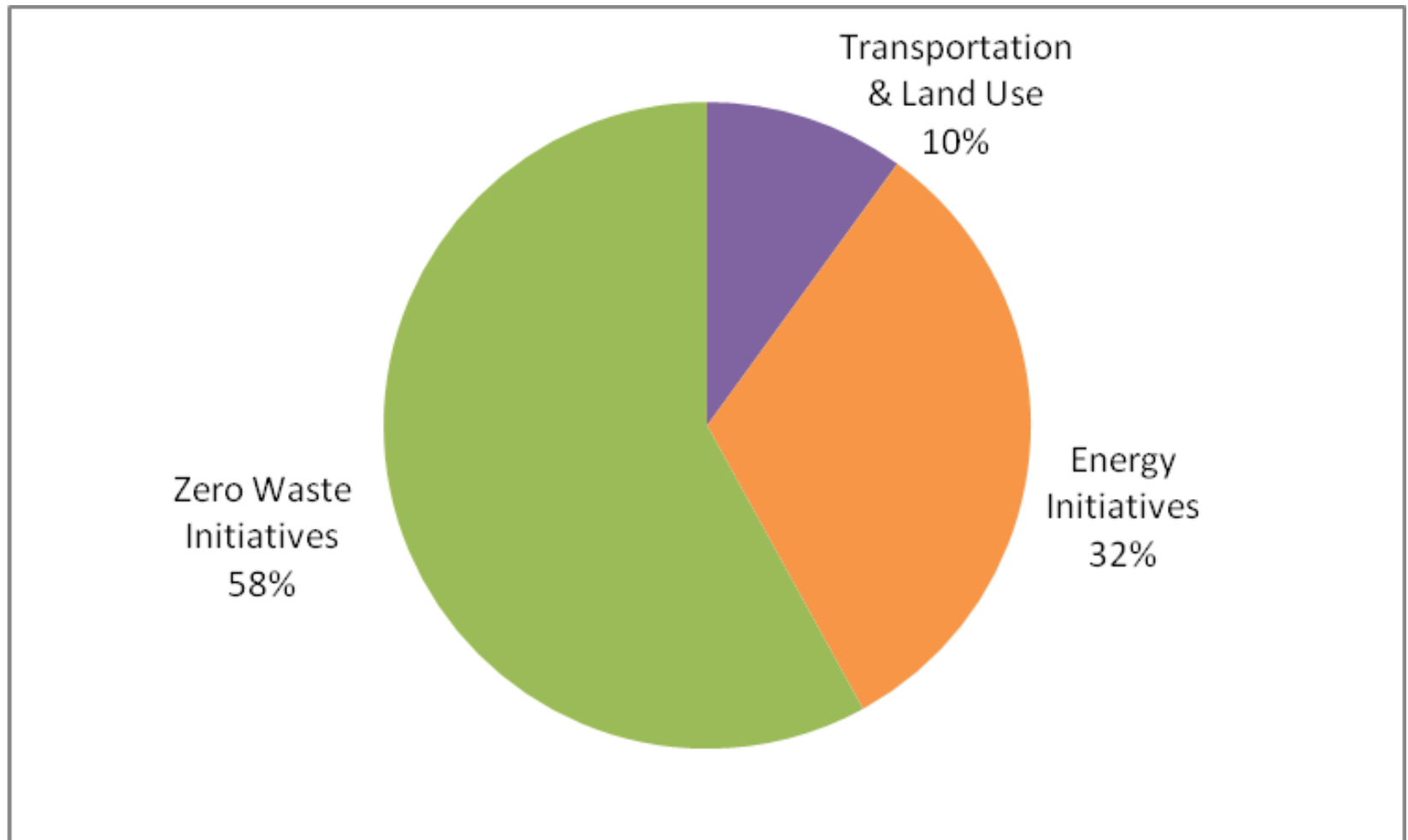
Possible Climate Change Impacts



Rising Sea Level Impacts



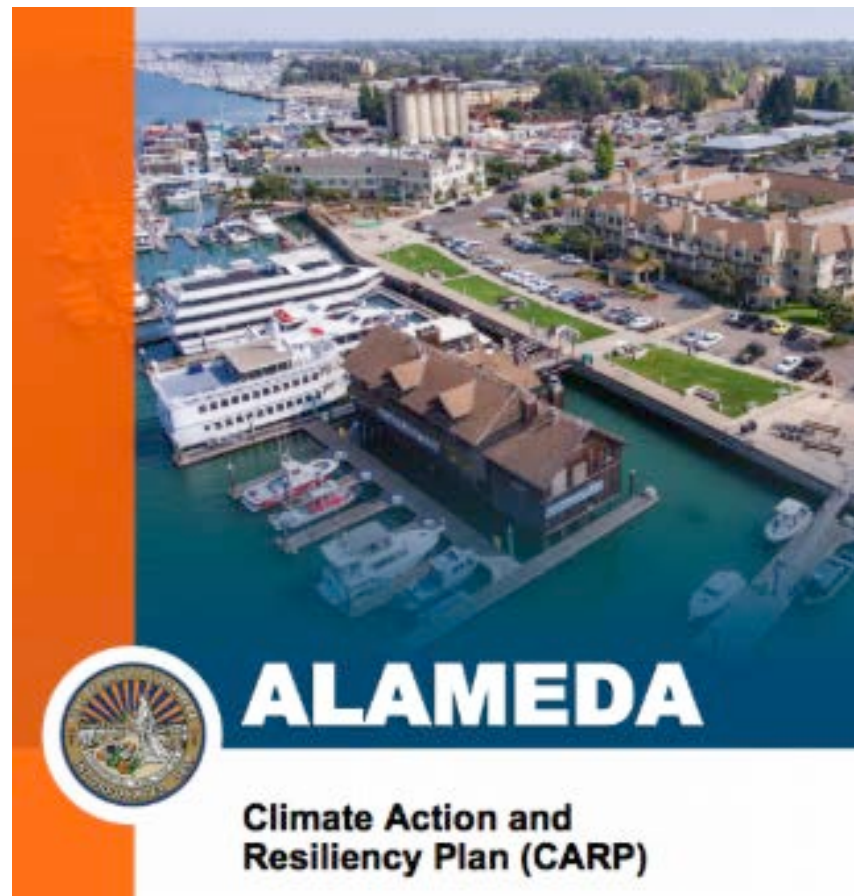
Alameda Greenhouse Gas Reduction Potential by Initiative



Community Based Approaches to Climate Action & Resiliency



Community Action for a Sustainable Alameda



Door-to-Door Separation

achieved 79% diversion 2017



Miss Alameda Says “Compost!”



Alameda Green Schools Challenge



“Tree Musketeers”

Alameda Single-Use Plastic Foodware Ban



REUSABLE IS BEST



Dishware you keep, wash, and reuse saves money and the planet.



COMPOSTABLE FIBER IS GREAT



Paper-like, wooden or bamboo options break down more readily than any alternatives.



PLASTIC IS GOING AWAY

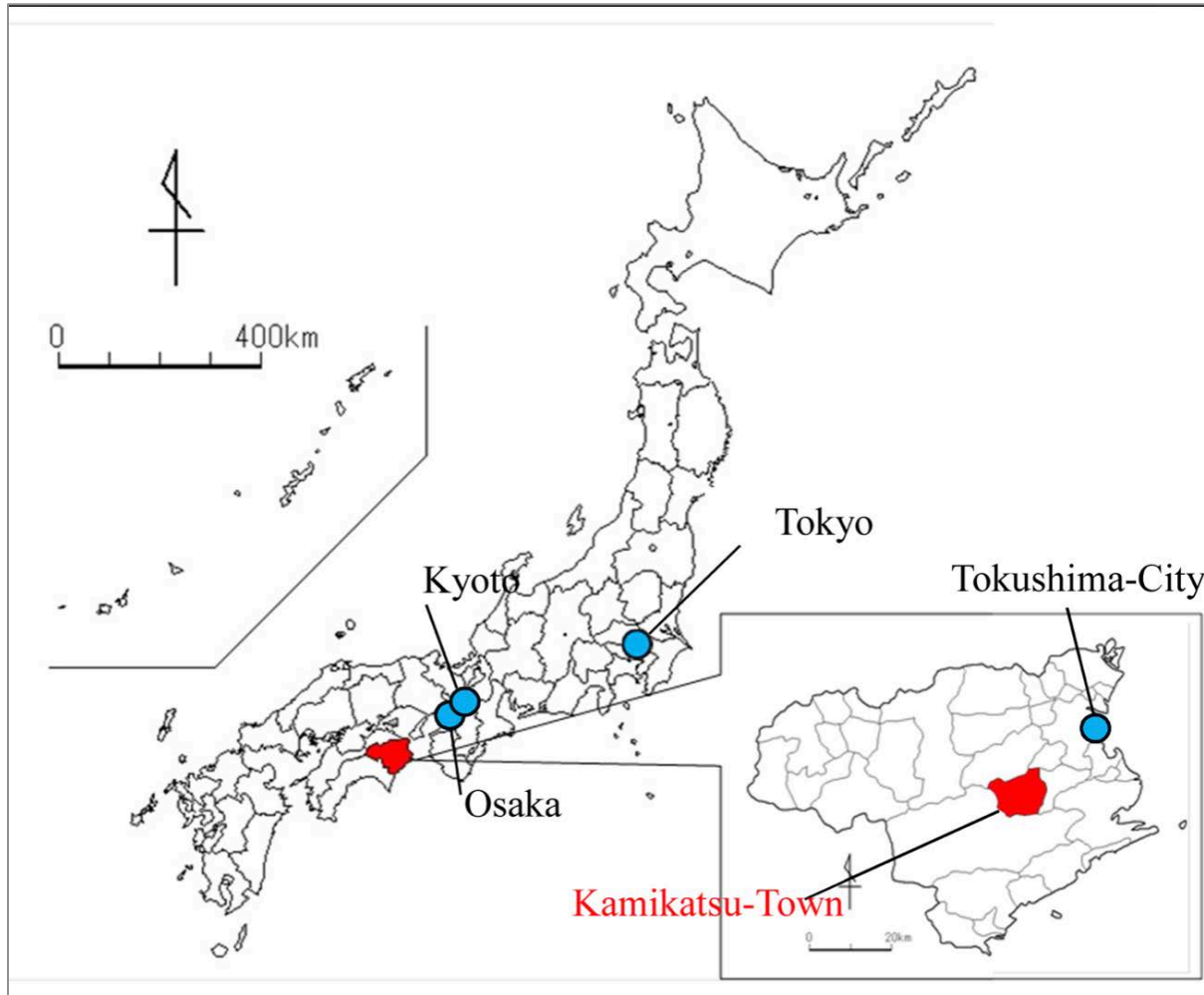


These single-use items are rapidly polluting our oceans, and are no longer acceptable in Alameda.

Student Let Boba Tea Project



Kamikatsu, Tokushima, Japan



Small rural town
Declared a goal of
Zero Waste by 2020

Currently at 80%
diversion from
landfills and
incinerators

Residents sort materials into 45 categories



Organics is processed in household digesters



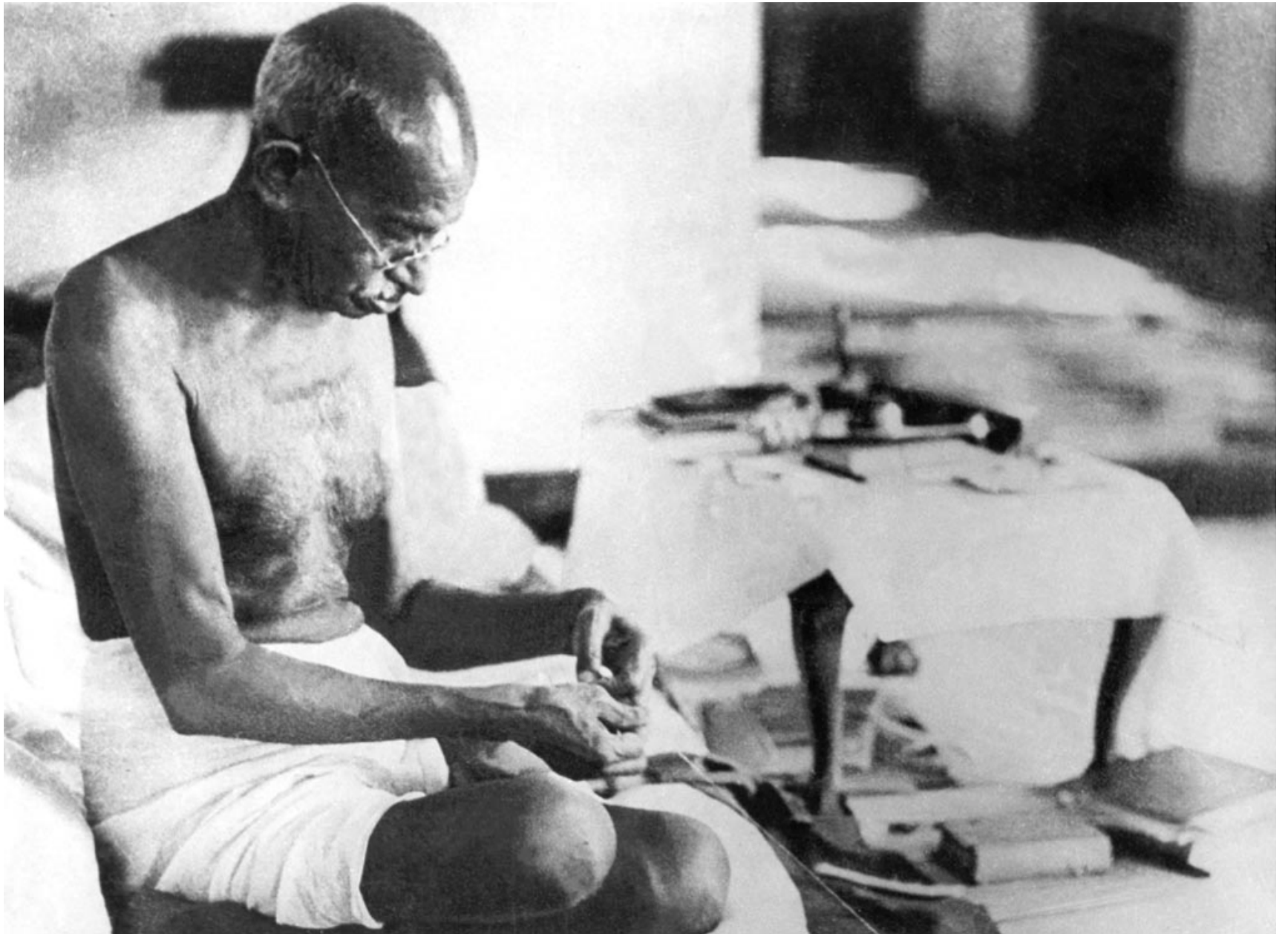
Akira Sakano runs the Zero Waste Academy





एक कदम स्वच्छता की ओर

**Swachh Bharat Mission
2014 to 2019**





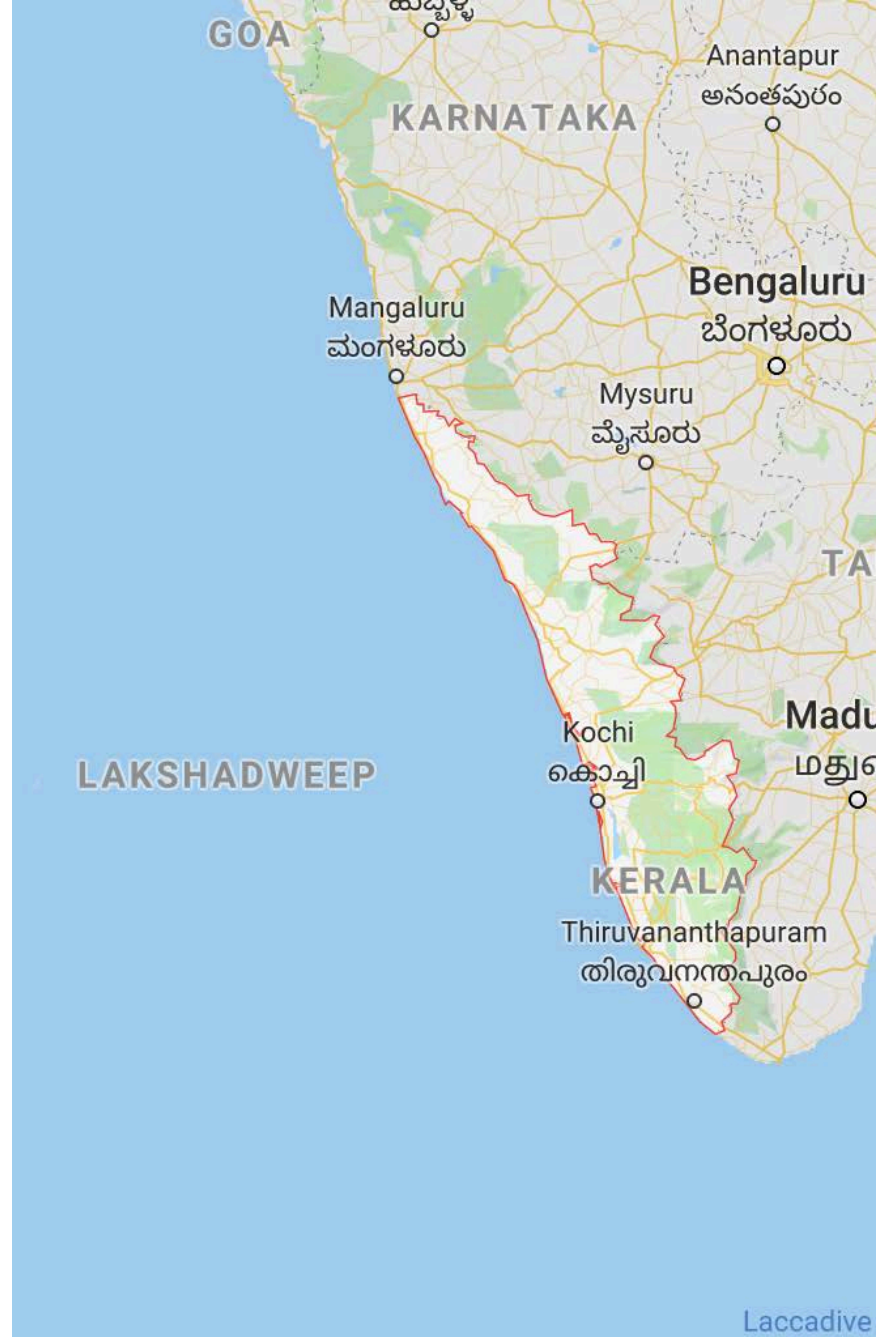


The Kerala Zero Waste Model



Thiruvananthapuram

- Capital of Kerala
- 1M Population
- 250,000 households
- 50,000 households manage organics on-site











എന്റെ നഗരം സുന്ദര നഗരം

പ്രിയം എയ്റോബിക് ബിൽ മാലിന്യ സംസ്കരണ കേന്ദ്രം

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GATHY CIRCLE

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എന്റെ നഗരം സുന്ദരനഗരം
പ്രിയം എയ്റോബിക്







LOW-VALUE PLASTIC IN THIRUVANANTHAPURAM CITY - KERALA

50% of all the plastic waste in the households of the city is produced by

6 BRANDS



of the total of plastic waste by brands and by weight

Source: Brand Audit conducted by the Green Army and Thiruvananthapuram Municipal Corporation
Plastic Waste or Extended Producer Responsibility in Trivandrum Municipal Corporation

1.4 kg
Plastic waste generated by each household in a month

4242 tonnes
generated by total households



7 rupees/kg/household/month
spent by the city of Trivandrum for handling & transporting single use plastics
= 17,50,000 ₹
for handling plastics for 2,50,000 households

Companies need to take responsibility for the environmental impact and financial costs indirectly associated with the consumption of their goods.

EXTENDED PRODUCER RESPONSIBILITY

#breakfreefromplastic
#WeDemandEPR

find more: thiruv.co.in







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ZERO WASTE

YOUTH

INTERNATIONAL MEETING

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