

AI Waste Segregator

one waste at a time

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 Every Second 7000 kilograms of waste
is dumped in India's landfill

Businesses struggle to separate waste, with over 91% of recyclables contaminated or sent to landfills annually. This inefficiency raises operational costs and accelerates environmental damage, threatening the planet's future.

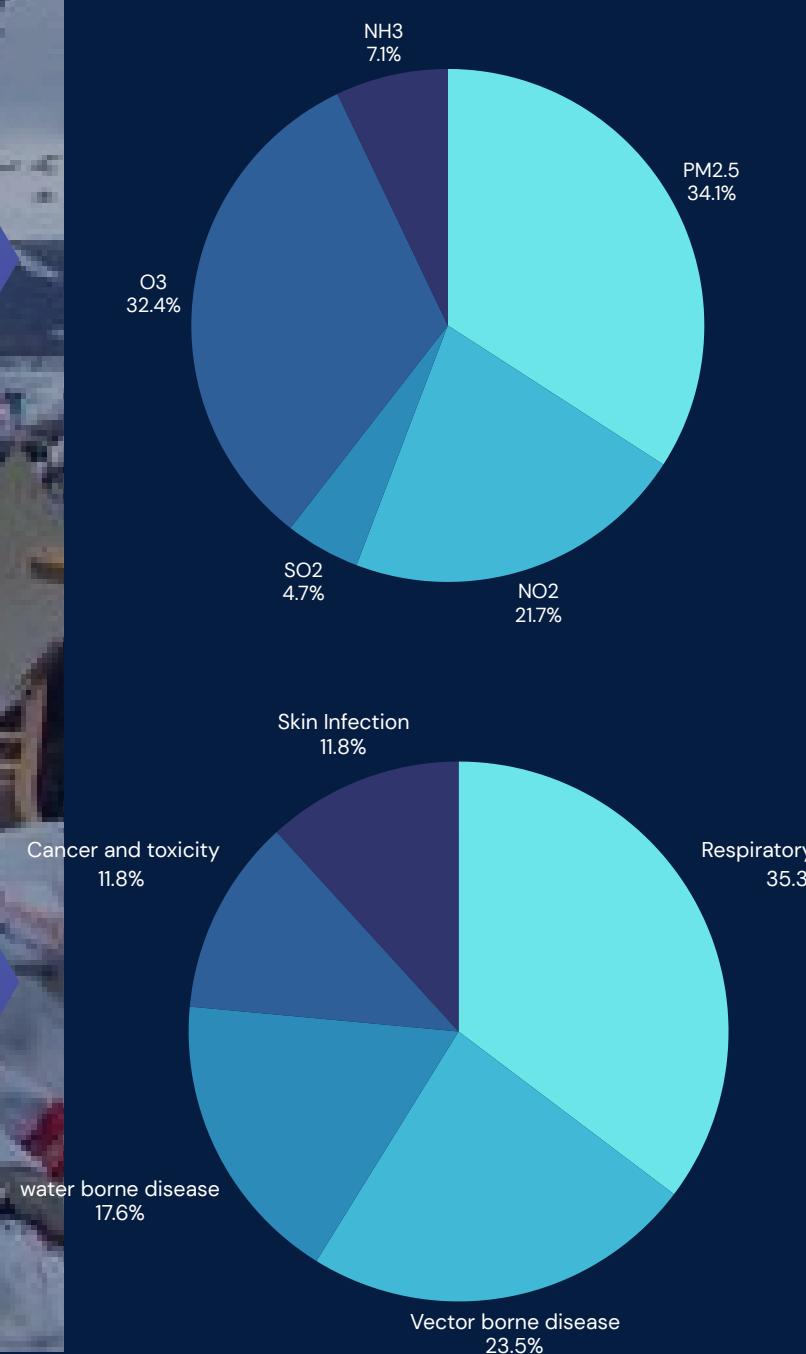
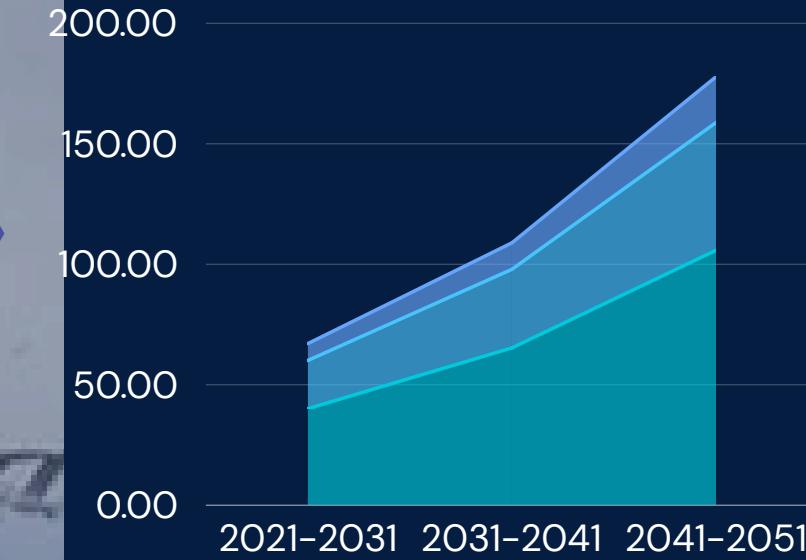
landfill dependency growing over years beyond the capacity



Land, Air, Water Toxicity



Health Degradation and Toxicity





AI Waste Segregator



ESP32-CAM captures an image of the object and send to AI model



Ultrasonic sensor mounted in lid monitors for objects within 20 cm



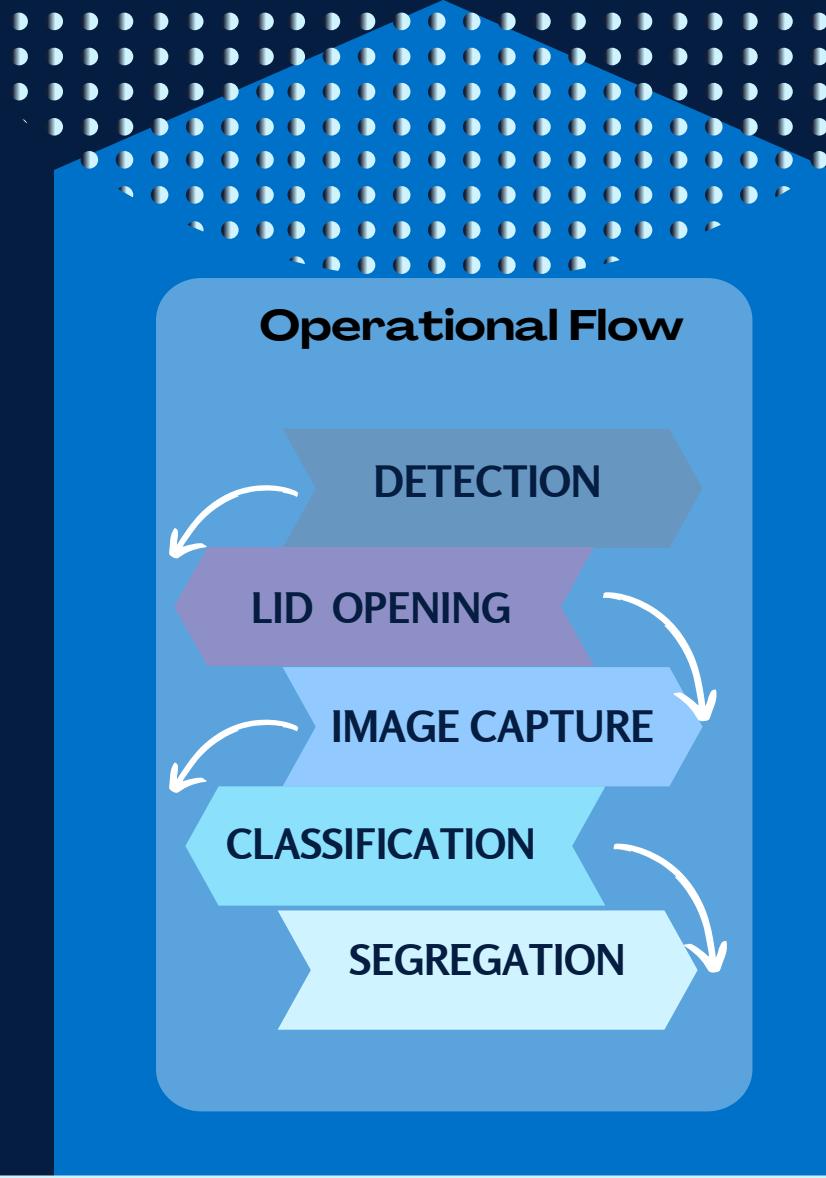
Upon detection, the first servo motor opens the lid.



Image is processed using a AI model to classify waste into recyclable, non-recyclable, hazardous, or organic

Second servo motor directs the waste to the appropriate compartment based on classification

1st Stage Prototype



our competitors

✓ opens automatically when motion us detected

✗ segregates waste based on each waste categories

✗ Have a fully integrated app that has many features

our product

✓ opens automatically when motion is detected

✓ segregates waste based on each waste categories

✓ Have a fully integrated app that has many features



CUSTOMER SEGMENTATION

Commercial & Industrial Sector

Shopping Malls, IT Parks
Healthcare Centres
Airports & Railway Station
MNCs

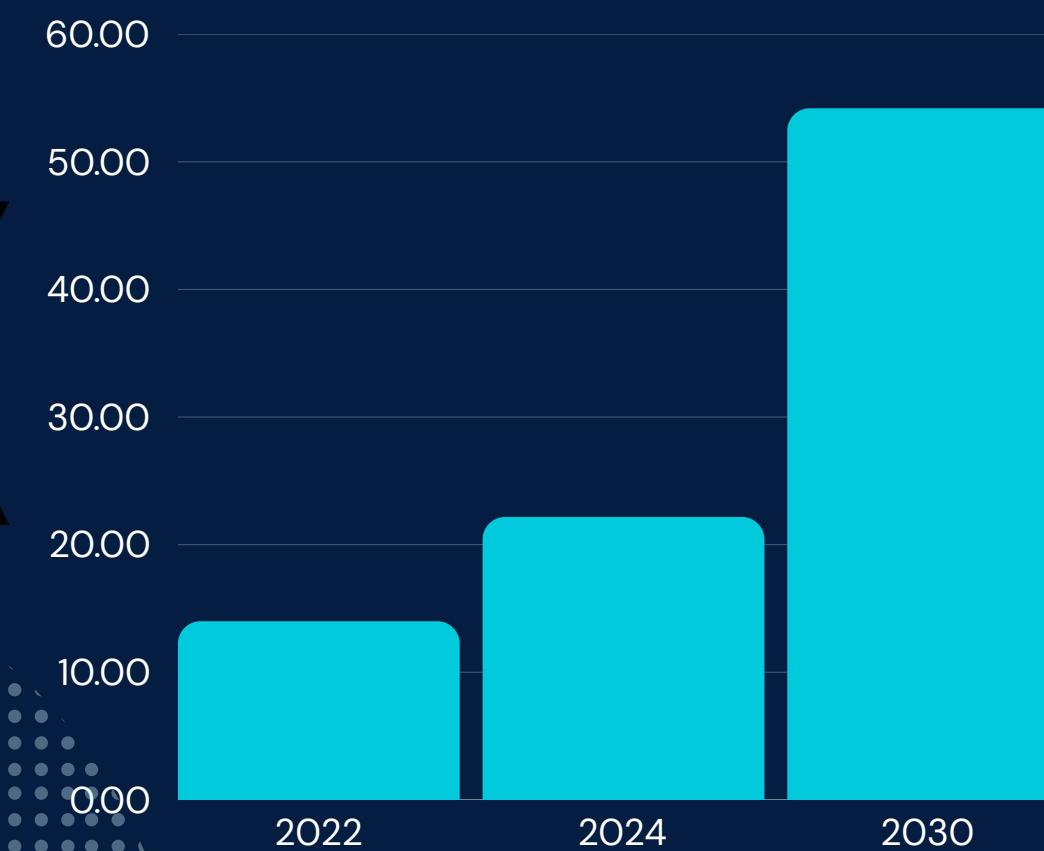
Government & Municipality

Public Parks & Streets
Smart City Initiatives
Municipal Waste Cras

Residential & Housing Sector

Gated Communities
Societies
Individual Households

Indian Market Analysis





Revenue Model

Direct B2C:

Residential Users: Sell AI-powered dustbins to households for automated waste management.

Direct B2B:

Businesses & Offices: Offer waste segregation solutions to corporate offices, malls, and public spaces.

Municipal Corporations & Smart Cities

Partner with government agencies for large-scale implementation in public spaces.

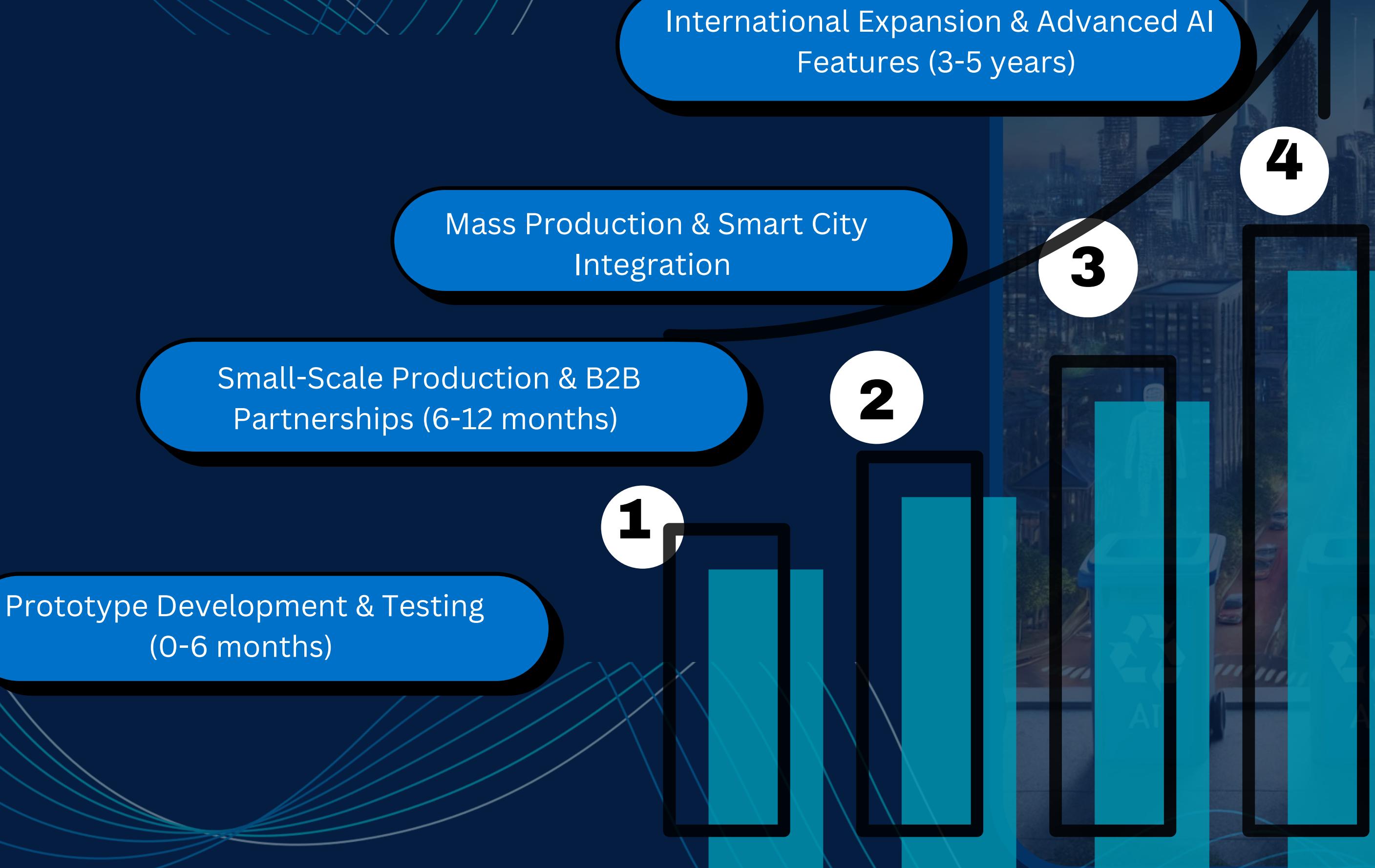
Waste Collection & Recycling Partnerships

Partner with recycling companies to automatically direct recyclable waste for processing and earn commissions.





Scalability





GO-TO-MARKET

