Collect Me
إجمعني

A Proactive Smart System for Healthier, Cleaner Cities
Waste Management Reimagined

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Introduction

Traditional waste collection methods rely on fixed schedules and routes, often ignoring how full the bins actually are. This outdated approach wastes resources, increases pollution, and leads to overflowing bins, attracting pests, spreading disease, and creating bad odors.

CollectMe offers an innovative and smart solution for waste management.

Our system utilizes advanced technology to monitor container levels in real-time, then calculates the shortest routes to only the full containers.

Using Google Maps, it directs the waste collection trucks along these routes to achieve the most efficient waste collection possible.

This ensures timely waste removal, prevents issues caused by overflowing containers, and saves resources, time, and costs.

How It Works:
The Collect Me System

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Continuation
The driver resumes the route, collecting remaining bins.

Monitoring (CollectMe)
Each container is equipped with a device that includes an ultrasonic sensor and GPS. When full, the container sends a "CollectMe" message to the control room for emptying.

Emptying
If the truck fills up, the driver navigates to a dumping area to empty it.

Data Collection
Information is sent to the control room, where staff can monitor which bins are full and their locations.

Collection
The driver follows the optimized route using Google Maps to collect the full

Route Planning
The system automatically calculates the shortest route between the full containers, then creates a waste collection task for the driver.

Task Assignment
The task is sent to the driver's tablet.

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The Impact: A Transformation in Waste Management

Environmental
Drastically reduces fuel consumption and CO2 emissions.

Public Health
Prevents overflowing bins, reducing odors, pests, and disease transmission.

Economic
Saves municipalities and waste management companies money and resources.

Proactive
Addresses waste before it becomes a problem, ensuring cleaner communities.

Beyond Municipal Waste
Collect Me's adaptable technology can be applied to:

- Efficient collection of building waste containers
- Safe removal of sanitary and medical waste
- Optimized delivery routes for various industries
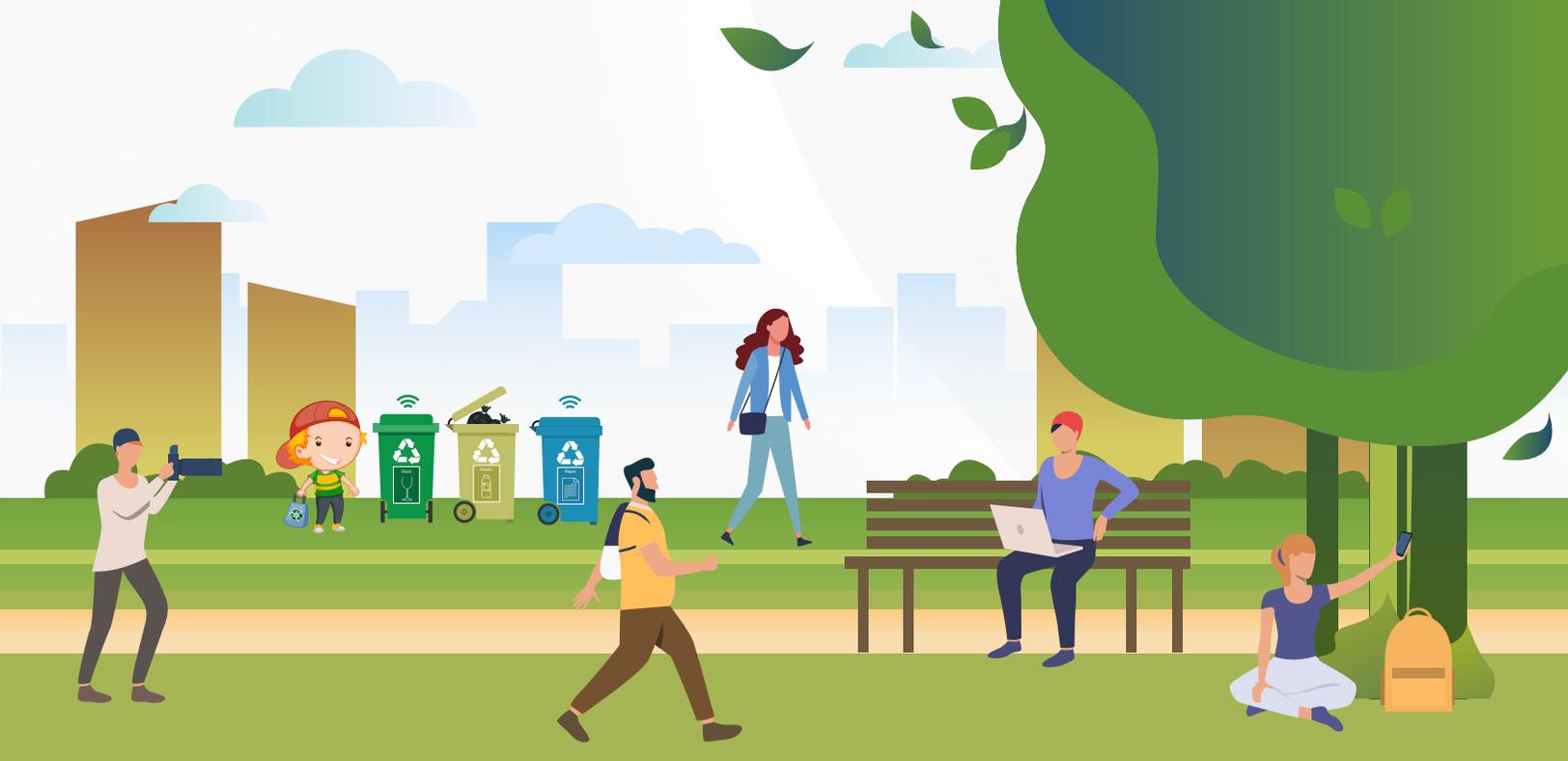
A Pilot Project in Riyadh CITY

In a pilot project in Riyadh's , the **Collect Me** system was implemented in an area with 2,250 waste bins. Typically, only 800 bins were found to be full during collection rounds. By focusing on full bins and proactively addressing early fills, the system achieved the following results:

Estimated
fuel savings of
72.7%

Collection time
reduced by 232 minutes
(3.87 hours) per route

Significant decrease in the
number of overflowing bins
and associated complaints
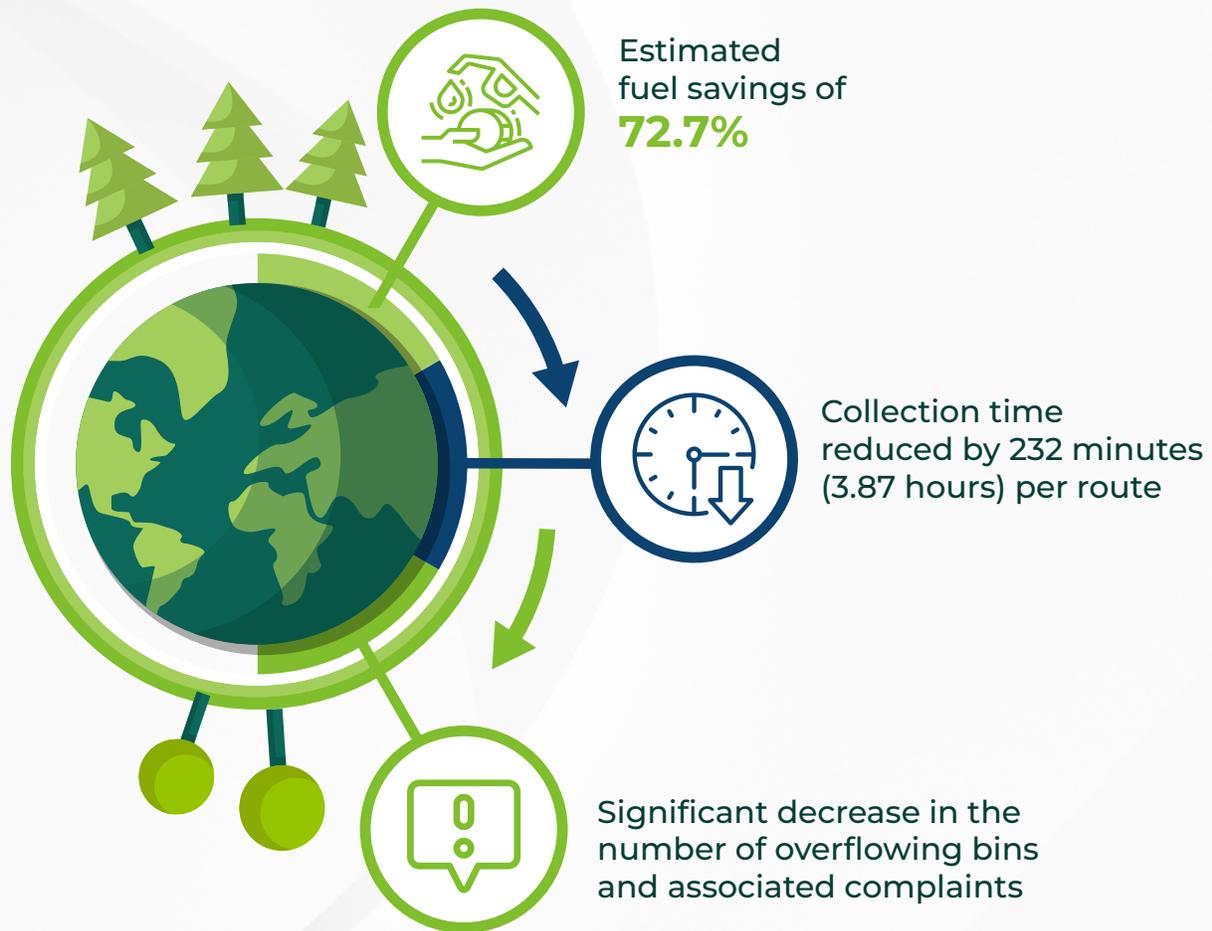
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Join the Smart City Revolution

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Collect Me is more than technology
it's a commitment to a sustainable future.

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Request a Demo Today!