

# SMART WASTE MANAGEMENT REPORTING SYSTEM

 Click. Report. Clean. 



**Problem Statement Title:**

**SMART WASTE MANAGEMENT REPORTING SYSTEM**

**Team Name:** Cosmic Legion

**Team Leader Name:** Adarsh Pandey

**Team Leader Email:** adarshpandeycse3@gmail.com

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## ! Current Problems

- Garbage piles remain **unattended for days**
- Citizens don't know **where to report waste**
- Complaint systems are **slow & complicated**
- Lack of **real-time** location reporting
- Poor communication between citizens & municipality

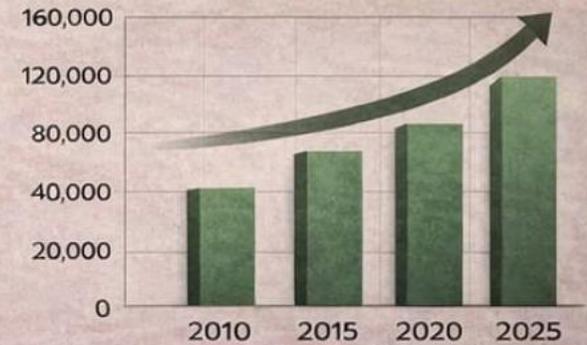
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## ♻️ Statistic

India generates **160,000+ tonnes** waste daily

! Large portion remains unmanaged

India's Daily Waste Generation



## Our Solution: Smart Waste Reporting Platform

- Citizens click photo of garbage
- App auto-detects location using GPS
- Complaint sent directly to municipality
- Authority receives real-time alert
- Waste cleared within next day



## Key Features

- ✓ One-click reporting
- 📍 Automatic location tagging
- 📷 Photo proof of waste
- 🚀 Fast municipal response
- 👥 Community participation

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# TECHNICAL APPROACH



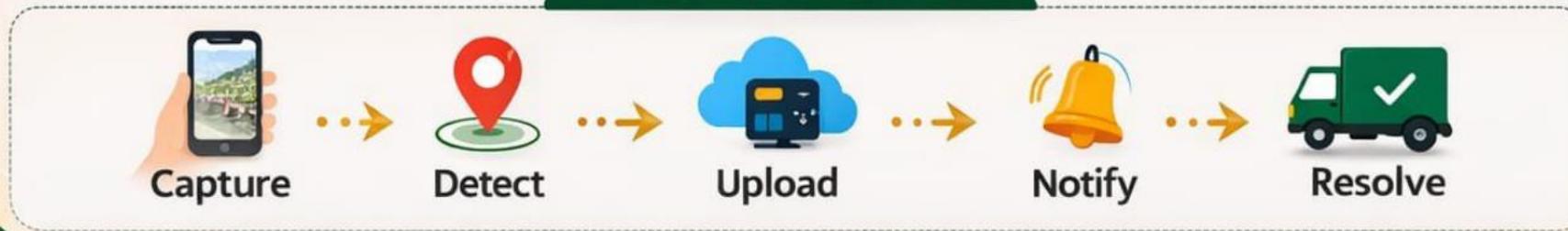
## TECHNOLOGY USED

-  Web Application Interface
-  GPS Location Detection
-  Image Upload System
-  Database Storage
-  Municipal Dashboard for Monitoring

## WORKFLOW



## HOW IT WORKS

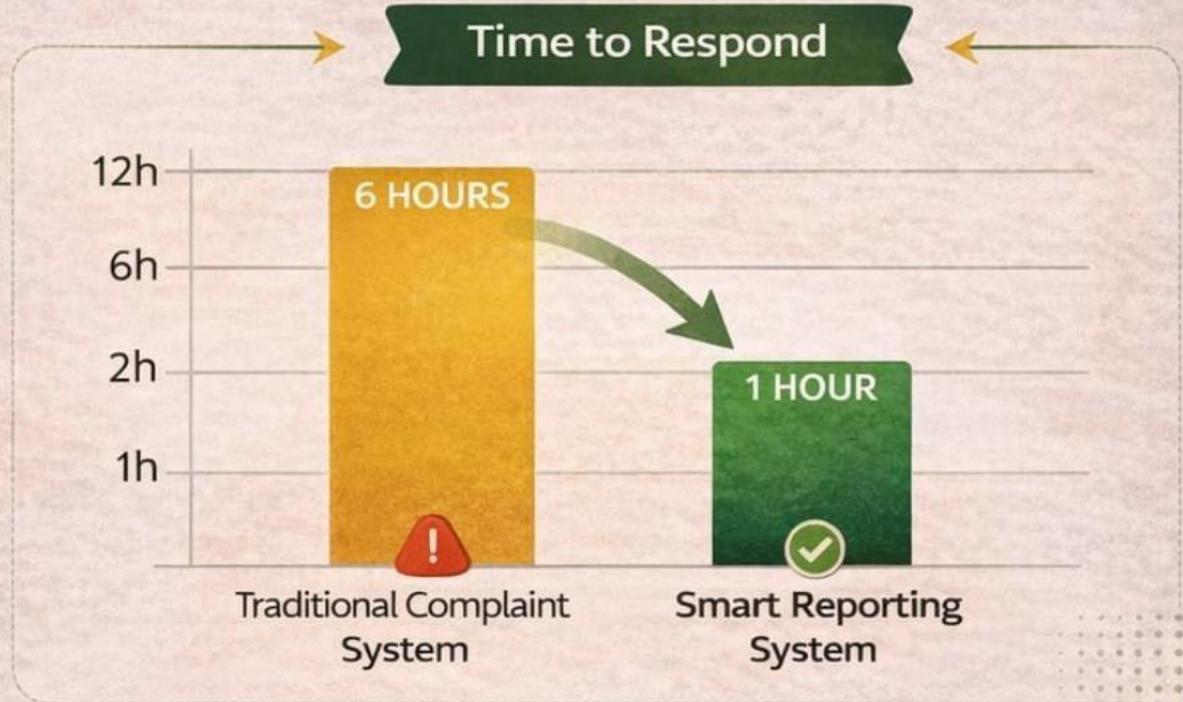


# FEASIBILITY AND VIABILITY



## TECHNOLOGY USED

- ✓ **Easy to Implement**
  - Uses existing smartphone technology
  - Simple interface for citizens
- ✓ **Low Cost**
  - Web-based platform
  - Open-source tools
- ✓ **Scalable**
  - Can expand to multiple cities
- ✓ **Realistic**
  - Municipality already has waste teams
  - This system improves reporting efficiency



# IMPACT AND BENEFITS



## Environmental Benefits

- ✓ **Cleaner streets**
  - ✓ Uses existing smartphone technology
- ✓ **Better waste monitoring**

## Social Benefits

- ✓ **Citizen participation**
  - ✓ Increased awareness
  - ✓ Smart city development

## Government Benefits

- ✓ **Faster complaint tracking**
  - Efficient waste collection
  - Data-driven decision making



## FASTER REPORTING SYSTEM



Capture



Detect



Upload



Resolve



# RESEARCH AND REFERENCES

## Sources

-  Swachh Bharat Mission Reports
-  Municipal Waste Management Studies
-  Smart City Waste Solutions
-  Environmental Sustainability Research
-  Waste Management Guidelines

## Tools Referenced

-  Google Maps API
-  GPS & Location Services
-  Open-Source Platforms
-  Database & Web Technologies



# IMPORTANT INSTRUCTIONS



## Sources

- ✓ **KEEPS PANELS CLEAR AND FOCUSED**
  - Limit to key points, avoid overcrowding with text
- ✓ **INCORPORATE VISUALS AND CHARTS**
  - Use flowcharts, graphs, and images for better understanding
- ✓ **MAINTAIN CONSISTENT DESIGN**
  - Ensure a uniform, professional look across all slides
- ✓ **ENGAGE WITH THE JUDGES**
  - Speak clearly, confidently, and be ready to answer questions

## Tools Referenced

-  Google Maps API
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