

PROBLEM STATEMENT

DOMAIN : INTERNET OF THINGS (IOT)

**TITLE : SMART WASTE MANAGEMENT SYSTEM
FOR METROPOLITAN CITIES**

WHO DOES THE PROBLEM AFFECT?

Management of the waste, is one of the main challenges that the cities face, especially due to the population growth.

People with respiratory issue and other health issues

Animals mainly Cattles.

Municipality workers.

WHAT ARE THE BOUNDARIES OF THE PROBLEM?

- Prevention.
- Preparation for reuse.
- Recycling.
- Other utilization (e. g. energy recovery).
- Landfilling

WHAT IS THE ISSUE?

- Traffic
- Overflow
- Smelling

WHEN DOES THE ISSUE OCCUR?

When Traffic is heavy the Truck doesn't occur in correct time so the Container are overflow and smelling

WHERE IS THE ISSUE OCCURING?

- Misunderstanding of the operations of smart sensors
- Non optimized truck routes

WHY IS IT IMPORTANT THAT WE FIX THE PROBLEM?

- This makes it possible to plan more efficient routes for the trash collectors who empty the bins
- Poor waste management may lead to urban violence and also causes health related issues