PROBLEM STATEMENT

DOMAIN : INTERNET OF THINGS (IOT)

TITLE   : SMART WASTE MANAGEMENT SYSTEM FOR METEROPOLITAN 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 will overflow and start 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