PROBLEM STATEMENTS FOR AN SMART WASTE MANAGEMENT IN METROPOLITAN CITIES

As prosperity grows, 62 million tons of garbage is generated everyday by the 377 million people living in urban India, now the world's Third largest garbage generator. However, it's not the amount of waste generated that's as much of an issue as the fact that more than 45 million tons, or 3 million trucks worth, of garbage is untreated and disposed of by municipal authorities every day in an unhygienic manner.

➢ **What is the issue?**

Due to the increasing waste, the public bins which are used for collecting this waste are overflowing, the locality is jumbled of trash, causing not only malodorous streets but also a negative impact on the health and environment.

➢ **Who does the problem affect?**

General Public, Environment, Animals, Birds and Aquatic lives.

➢ **What is effects of the issue?**

> Air emissions
> Health Impact
> Ecosystem services in danger
> Soil Contamination, Surface and Groundwater
> Marine Pollution, pests etc

➢ **When does the issue occur?**

> No Availability of Man power for waste management
> Poor Infrastructure
> Irresponsibility of Public

➢ **How to resolve?**

> Garbage level detection in bins.
> Getting the weight of the garbage in the bin.
> Alerts the authorized person to empty the bin whenever the bins are full.
> Garbage level of the bins can be monitored through a web App.
> We can view the location of every bin in the web application by sending GPS location from the device.