

IDEATION PHASE
Problem Statements

Date	28 September 2022
Team ID	PNT2022TMID01046
Project Name	Smart Waste Management System for Metropolitan Cities

1. Lack of a recycling infrastructure that would allow trash to be separated at the source and waste streams to be diverted to material recovery and buyback facilities.
2. In a typical waste management system, the garbage collection authority is unaware of the quantity of rubbish in the dustbins. If the dustbins are full with garbage, it will overflow and spill outside, creating an unsanitary environment in cities.
3. People dump their trash in the already-filled trash can.
4. The imbalance between trash production and management capacity is what causes the difficulty in the management of urban garbage; the amount of waste keeps rising along with population expansion, changes in quality of life, and the dynamics of community activities.
5. Waste management experiences widespread under-pricing, which causes consumers and business to underestimate the costs of garbage management and favour waste disposal over other choices. Since there are fewer waste management choices, their costs are higher than those of landfills.