

# DATA FLOW

## SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITIEN CITIES

PROJECT ID:PNT2022TMIDO3981

```

graph TD
    CC([Control Center]) --> SP
    subgraph SP [Startup Phase]
        direction TB
        A1[Activate Wireless Interface] --> A2[Connect with Raspberry Pi]
        A2 --> A3[Activate Wireless Sensing module or Sensors]
        A3 --> A4[Activate Lead Cell to detect weight of garbage bins]
    end
    A4 --> IGWD[Insert Garbage waste data]
    IGWD --> LD[Level Data]
    LD --> TGLD[Transmit garbage level data]
    TGLD --> MS[Monitoring system]
    TGLD --> AL[Run fill level Alert]
    MS --> AL
    AL --> CD((Cloud data))
    CD --> CC
    AL --> ATL[Admin that location]
    ATL --> MS
    
```

**Smart Waste Garbage**

The diagram illustrates a smart waste management system. It begins with an **Ultra Sonic sensor** for **Level detection** (thresholds  $>80$  or  $<80$ ). This sensor is connected to a **Raspberry Pi**, which sends **SWB metadata to the server**. The system also includes a **Leed Cell** and a **GS M** module.

The data is then processed through **Landfills** and a **Recycle** cloud. The system is managed by a **Smart Fone** (to get GPS location for dustbins which is filled) and a **Webportal** (to show the location of garbage id which can access by waste collector). The **Truck track car** is used for waste collection.

The diagram also features a cartoon illustration of a green trash bin character and a yellow truck with a green bin, labeled **Truck Trash**.