

Smart Garbage Chutes

Sensing garbage chute use in urban environments allows for more efficient uses of recycling.

By sensing the movement of the garbage down the chute to the main trash area we are able to determine if there are clogs in the chute for maintenance.

We are also able to determine the days that garbage volume increases and can schedule pickups around the heavier volume days.

Smart Apps- Allows maintenance to understand where the garbage is stuck and shows ideal days for scheduled pickup by displaying volume

Analytics-Crunches the data for pickups and maintenance

Connectivity-remote sensors using wifi and connectivity through a wifi router

Sensors-One placed near each chute and floor-determines where there are clogs and activity

Product Infrastructure-Sensing unit hardware and hubs

Summary-The use of this technology can efficiently use city resources and allocate them based on density and usage patterns across a large urban environment.