## **PROJECT DESIGN PHASE - I**

## **SOLUTION ARCHITECTURE**

Date	1 October 2022
Team ID	PNT2022TMID34218
Project Name	Smart Waste Management System For Metropolitan Cities

## SOLUTION ARCHITECTURE

#### DESIGN

To segregate the different types of wastes by using modern technologies and giving notifications to the respective sectors while the waste is filled 45% and 75% of the bin by using tresh talker.

#### USABLE

Easy to segregate. It helps in reducing environmental pollution. Saves dumping area spaces. Usage of sector alarm prevents the overflow of wastes.

#### RELIABLE

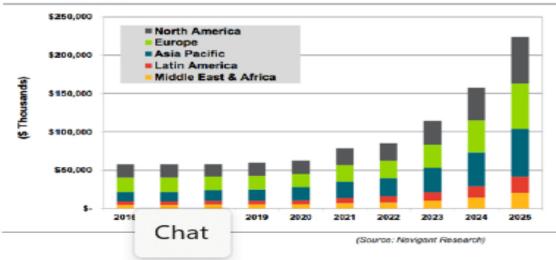
By implementing this we can make our environment clean and control the spreading of infectious diseases from garbage.

#### FUNCTIONAL ELEMENTS

Our aim is to separate Organic waste, Paper waste, Plastic waste, Metal waste. In the separate bins Raspberry Pi camera with 12MP HQ and resolution 1080p.

# **GRAPH**

Chart 1 Annual Smart Waste Collection Technology Revenue by Region, World Markets: 2016-2025



## Reference:

https://app.mural.co/invitation/mural/smartmanagement 5748/1664537390413? sender = ue09fb59c5eb2c7187ab42437&key = a69d4520-1abd-4b1d-8ac1-c4f8699b22e6