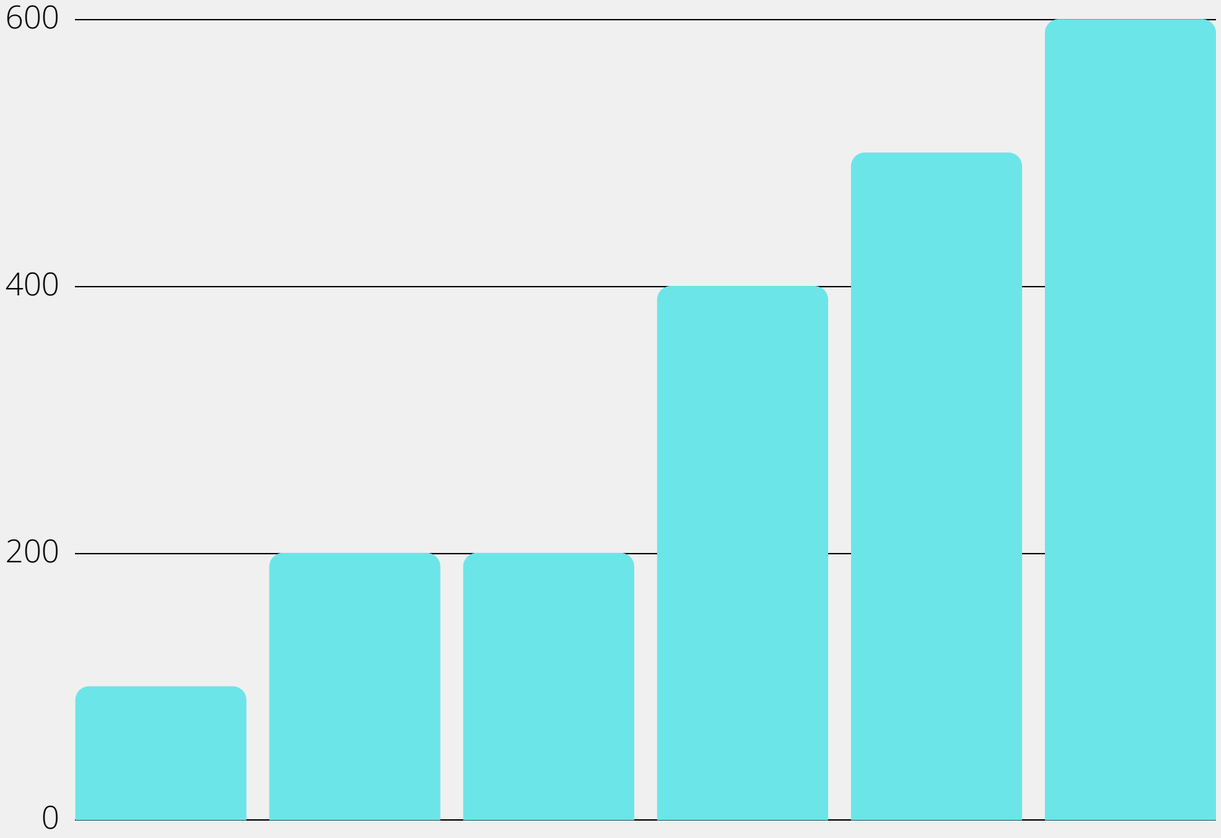
IGNIRIS

INTRODUCING DACS

What is the first thing that comes to your mind after seeing this image?

UP 16 V 1173

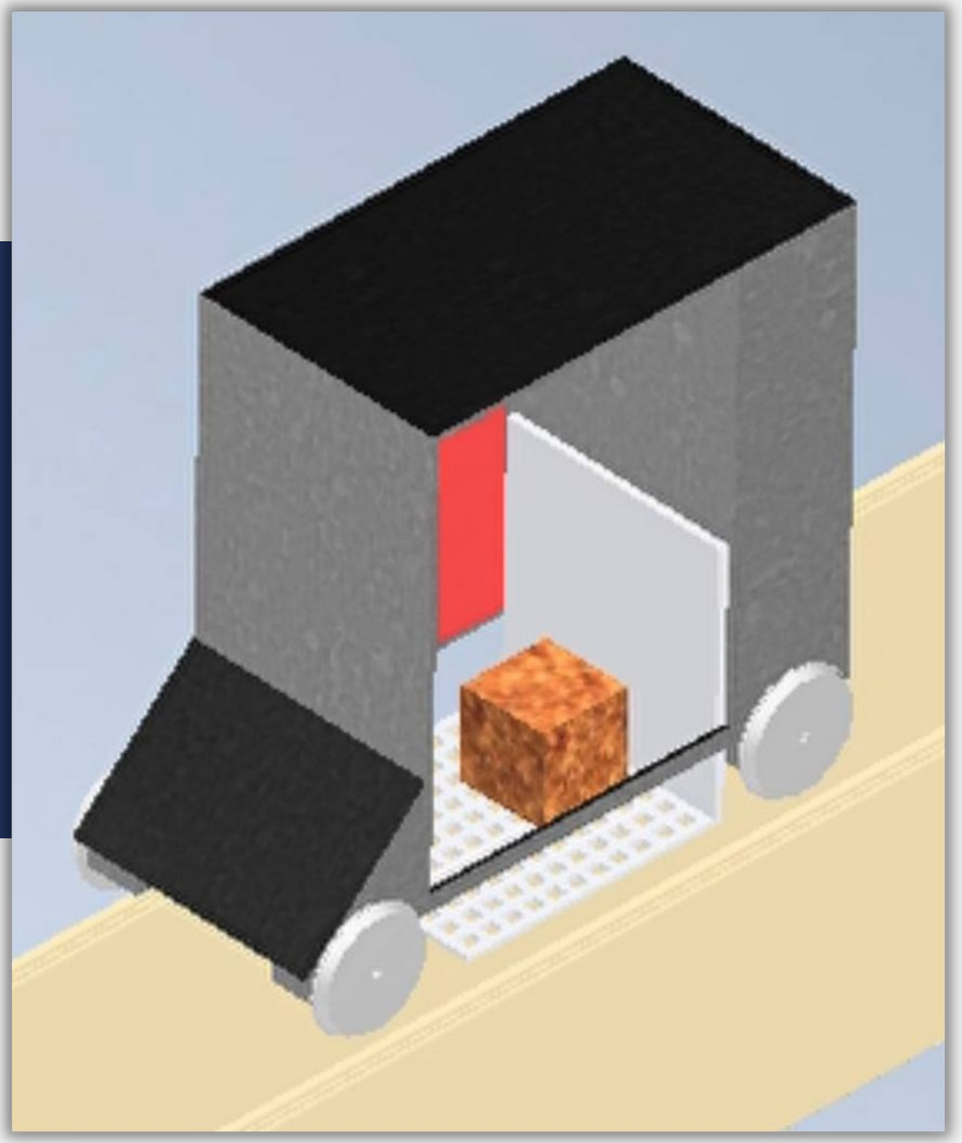
600+ SEWAGE WORKERS DIE EVERY YEAR



INTRODUCING OUR PRODUCT

AUTOMATED

DRAINAGE CLEANING SYSTEM



PROBLEM STATEMENT AND MOTIVATION

Accumulated wastes in open drains cause two major problems

Problem 1

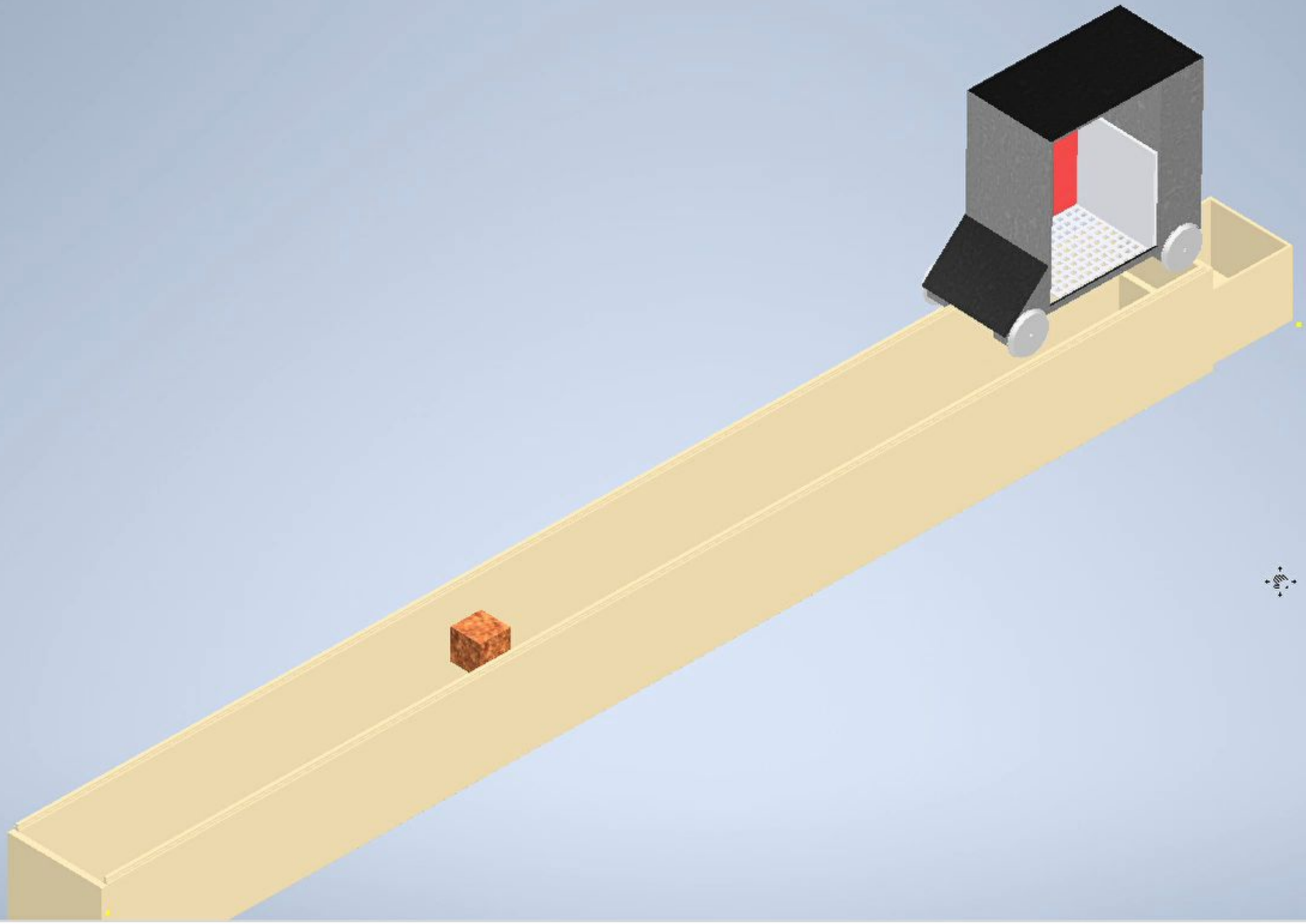
Spillover from drains leach hazardous elements into the surrounding area.

Problem 2

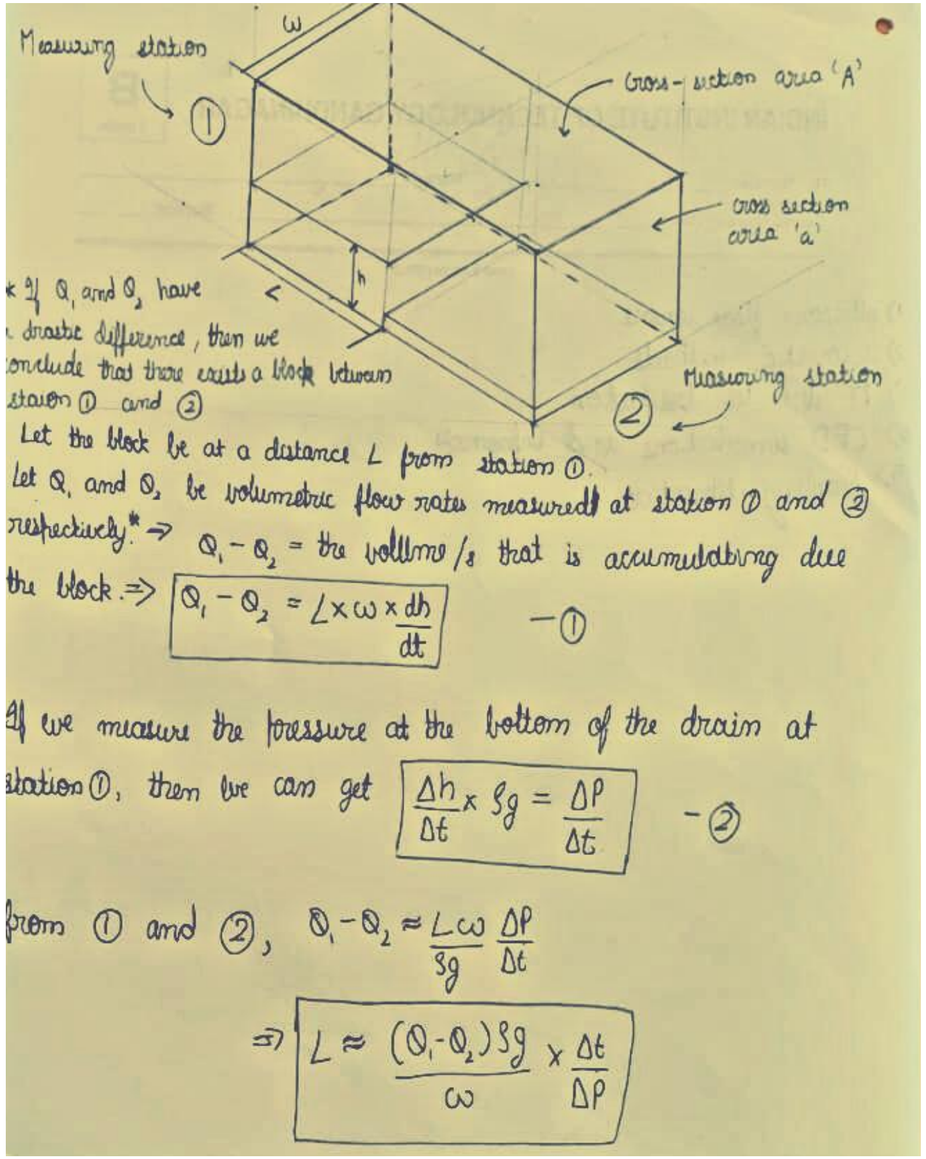
The resultant stagnant water is a breeding sight for many epidemic level pathogens

OBJECTIVE

We intend to build a system that can be incorporated into the open drain systems to prevent them from clogging & overflowing.



Theoretical Foundations



After some meticulous literature search and some fruitful discussions with the brilliant professors at IIT Gandhinagar, we modeled an algorithm as a solution to our problem statement.

CONCEPTS USED IN MODEL

Detection: We use the concept of reduction in volumetric flow rates caused due to obstruction to the flow of water in an open drain system. We reduce the search from a network of drains to a reasonably small stretch of the drain.

Removal: A machine probes the selected section of the network. Displaces the obstruction from into the drain to another desired location for easy segregation and proper disposal.

why should you prefer us?

- Low cost Model
- Ready to work with Private/Sub-Private Organizations
- Our product aims to Collect waste in less time and save human power.
- Looking forward for further development in future.

FUTURE PROSPECTS

- AI Monitoring System
- Auto proof reading system
- Make it time, space & money efficient
- Auto powered
- Expand it to any kind waste transport system

THANK YOU

OUR TEAM

- Prof. Udit Bhatia
- Ekta Jaiswal,Harsh Shrivastava, Vignesh Ramakrishnan
- Tinkerer's Lab Team
- Maker Bhavan and Team
- Prof. Prasanna Venketesh , Prof. Vinod Narayanan, Prof. Dilip Sundaram, Prof. Amit Arora, Prof. Jaichander Swaminathan, Prof. Abhay Gautam