STORM WATER MANAGEMENT AND DRAINAGE MAINTENANCE SYSTEM USING IOT

PROBLEM DOMAIN

- Clean water and sanitation.
- Drainage stagnate level indication.

HOW MIGHT WE ?

Drainage stagnate level intimation during heavy downpour of rain which solves the issues of traffic, contagious diseases and problems of sewage for public.

CAUSES AND EFFECTS

causes

1. Heavy downpour in metros
2. Much of water stagnation
3. Poor drainage system

effects

1. Poorly maintained drains will cause flooding which causes enormous damages in the agricultural land and irrigation network
2. Spread of diseases
3. Water logging in agricultural fields

STAKEHOLDER

- Roles of responsibilities of government bodies relating to drainage and flood regulation

KEY PERFORMANCE INDICATORS

1. Arduino IDE.
2. Microcontroller board.
3. Wifi module.
4. Flow sensors.
5. Water level sensors.

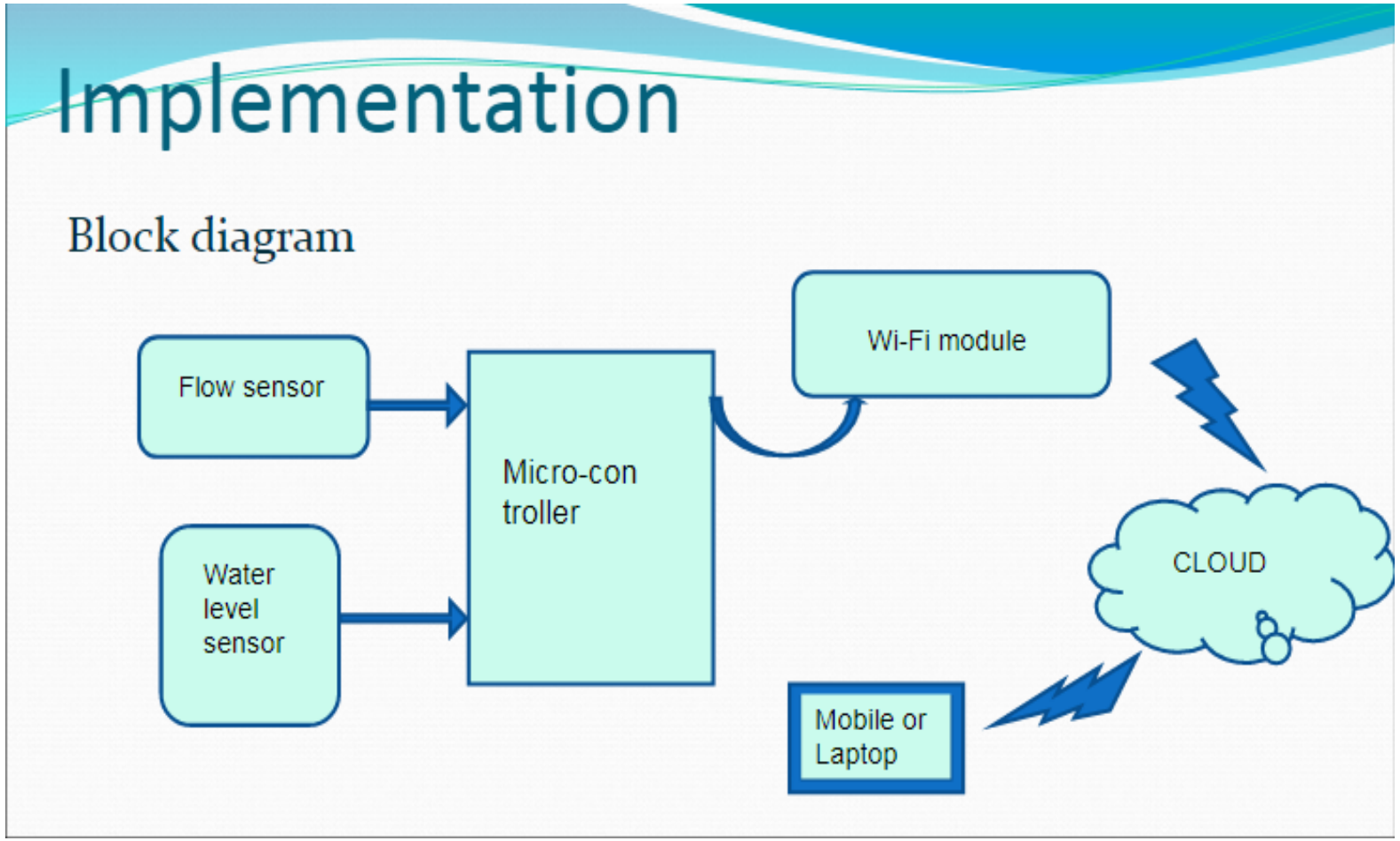
CUSTOMER AND MARKET RESEARCH

1. Global stormwater management market is projected to grow at a CAGR of 8.8% by 2023, on the back of increasing number of intense floods and storms coupled with rising urbanization.
2. Increase in the number and intensity of landslides due to heavy storm, snow and rainfall drive the adoption of stormwater management solutions for efficient water management and sustainable infrastructure development.

ATOMIC UNIT

- Locating the exact position of water stagnate.
- Intimating the concerned municipality officer about the status of water stagnate levels.

BLOCK DIAGRAM



THANK YOU