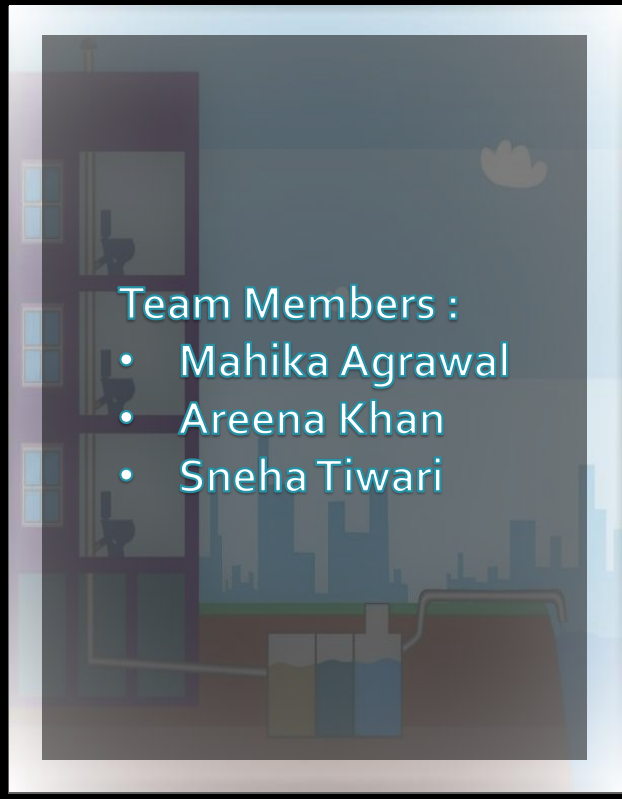
TEAM : MAKSAT

PROBLEM STATEMENT : 1

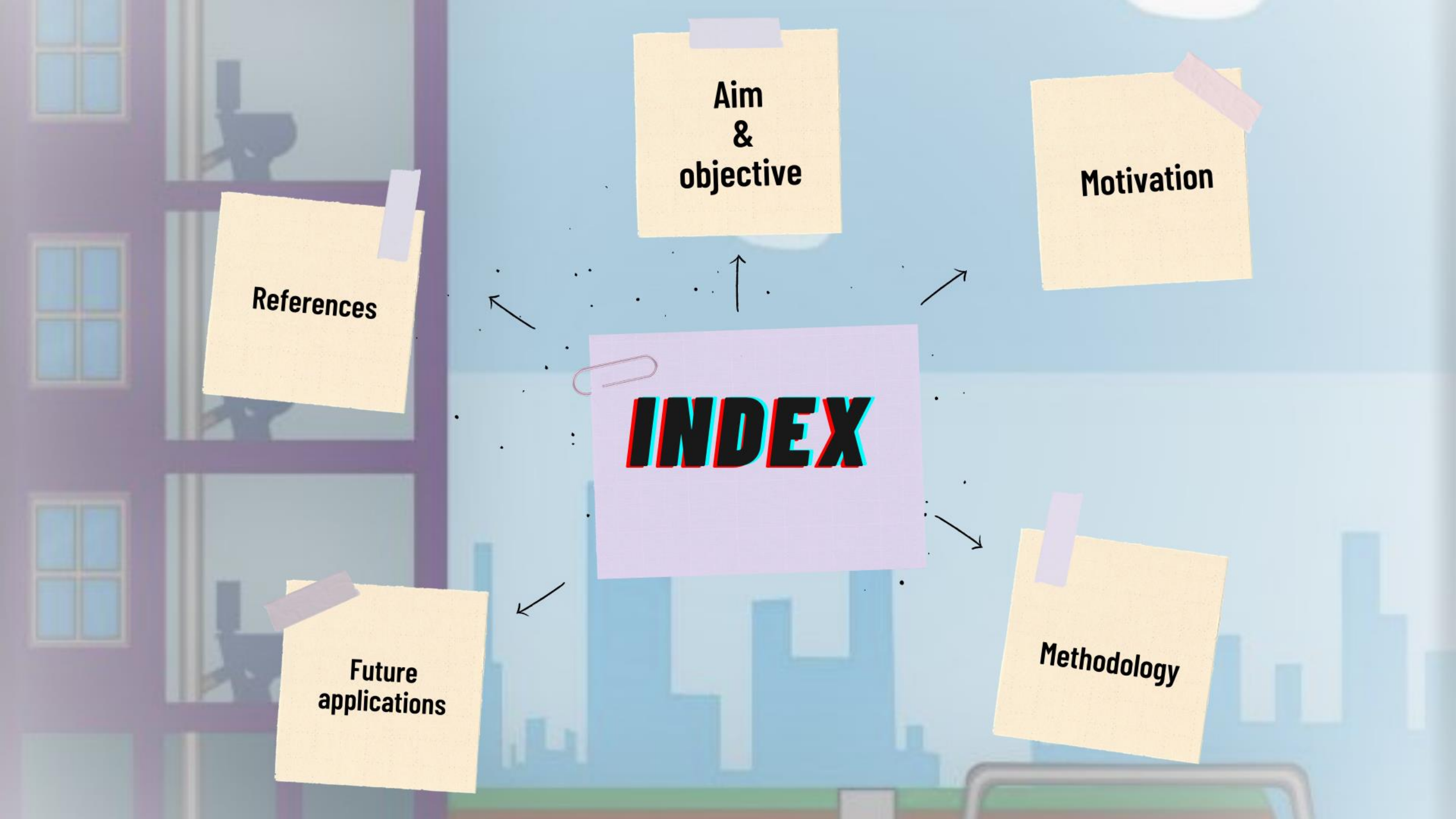
Sociothon 2.0

ROUND -2



Team Members :

- Mahika Agrawal
- Areena Khan
- Sneha Tiwari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AIM & OBJECTIVE :

To tackle the problem of poor drainage system in the city of Vijaywada which eventually led to the flooding of the streets with wastewater that houses millions of germs and bacteria eventually leading to excessive health hazards in the population

MOTIVATION

As our name suggests, MAKSAT aims to make this country a better place for its citizens and future generations. We engage ourselves in charitable and philanthropic work because we care about our citizens and the environment that they inhabit. Human beings and nature can co-exist and we are more than grateful to be able to play a small part in maintaining this balance. We believe in living for the people, by the people, and of the people.

METHODOLOGY :

Internet Of Things (IoT)

With the deepening of new infrastructure, traditional investments can no longer meet social development needs. Hence, digital sensing monitoring of the environment and surroundings **using the Internet of Things (IoT) is highly recommended :**

- They support a variety of **water monitoring equipment, such as liquid level transmitters, flow meters, pressure sensors**, etc. **collect** and **transmit monitoring data in real-time**, and **link with the big data platform** to **provide water management agencies** with timely and rich pipeline operation information.
- The solution helps to achieve **comprehensive monitoring** and **abnormality early warning of the situation** and other functions to improve the efficiency of the pipeline network, reduce the risk of manual detection, and effectively solve many problems in the water supply and drainage process.
- In the drainage process, the problems of pipeline blockage and pipeline leakage causing untimely drainage can be **solved using the pipeline network flow monitoring solution designed by Micro Sensor that matches with the flow meter through Earth1006 to monitor the pipeline network flow in real-time**, and **feedback abnormal flow data in time to determine the congestion situation and deal with emergencies.**
- To investigate the condition of each drainage manhole cover in the pipeline, the Micro Sensor drainage pipeline monitoring system helps to solve this problem.
- The **abnormal switch can monitor the manhole cover opening and closing in real-time.**
- If the **manhole cover is opened by non-maintenance personnel and an abnormal alarm will be issued, the data will be transmitted in real-time through the Earth1006 remote monitoring terminal.** Thus, the personnel will know the safety status of the manhole cover in time and carry out risk elimination effectively.

PROJECT TARAKKI

With IoTs posing as the future of technological advancement in India, it has become more than necessary for businessmen to invest in such technologies for their projects, which gives them great returns and reduces manual labor, making the budget of the project cost-efficient.

Our investment includes:

- **Research and development**
- **Labour**
- **Technology**
- **Organizational work**

Our organization, MAKSAT aims to introduce Project Tarakki which will not only improve the drainage system of Vijaywada but will also bring about a positive change in the plight of its people.

MAKSAT plans to approach the Public Works Department (PWD) of Vijaywada with a carefully examined and analyzed proposal:

- The PWD can provide funds for Project Tarakki which will put the task in motion and push us to work more efficiently, knowing that the government has our back.

OR

- The PWD can provide half of the funds while MAKSAT pitches in the rest of the half to push the Project ahead.

OR

- If the PWD isn't willing to pitch in funds for our Project, then they give us the liberty, platform, and resources to raise funds for our Project through fundraisers, etc.

Investment in research and development, labor, and technology goes a long way.
When the technology is up to the mark, labor cost reduces and the output is satisfying.
Extensive research and development prevent mishaps, accidents and enable good decision-making. Each investment is linked to the other and Project Tarakki will fall apart if we fail to pitch in the right amount in each sector.

The goal has always been to make Vijaywada a better place for nature and humans to thrive. Project Tarakki makes sure that the current problem of waterlogging and breeding of harmful germs gets solved, not temporarily but permanently.

BUDGET

PROJECT TARAKKI

RESEARCH AND DEVELOPMENT :

1.5 - 2 LAKHS

ORGANISATIONAL WORK :

30-32 lacs

TECHNOLOGY :

7.5 - 8 LAKHS

LABOUR :

50-60K

BUDGET BRIEF

RESEARCH AND DEVELOPMENT :

The research and development work for our Project will span over a course of one year along with all the prerequisite necessities and tasks.

TECHNOLOGY :

The technology that we plan to use for our Project (IoTs) is not readily available in the Indian Market. The raw materials need to be imported from countries like Singapore and the UK, hence export charges and import duty will be applied.

LABOUR :

As most of our Project is automated and technology bases, hence labor is required only for groundwork.

ORGANISATIONAL WORK :

Since we plan to extent our project to the entirety of Telangana and Andhra Pradesh, hence extensive organizational work needs to be done.

FUTURE APPLICATIONS

We should motivate the people to come forward and work with us for the betterment of their own city. They could do this in very small ways - by giving up their inputs, raising complaints with the authority as and when required so that the problems are taken seriously, and creating more awareness among people about their Project and various others that might be put in motion in the future so that the fundraisers are a huge success


THANKYOU