SMART INDIA HACKATHON '17

National Highway
Authority of India
Ministry of Road Transport
and Highways
SMART INDIA
HACKATHON '17

World's Biggest Hackathon

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Sri Ramdeobaba College of Engineering & Management

NAGPUR

BRAINY GROUND BREAKERS

TEAM LEADER

PAVITHRA. J

TEAM MEMBERS

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POORNIMA. T

KEERTHANA. K

MENTORS

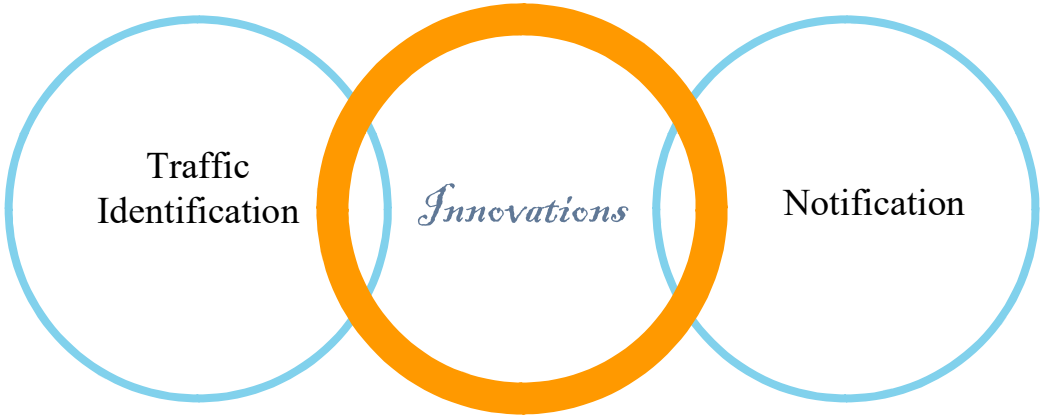
REVATHY. P

BHUVANESWARAN B

RAJALAKSHMI ENGINEERING COLLEGE

CHENNAI, TAMIL NADU

PROBLEM STATEMENT



SOLUTION

The solution to the specified problem is :

- ✓ Detecting the Huge traffic using PIR motion sensors.
- ✓ Notifying the traffic to the near by users via GSM module controlled by Raspberry Pi.
- ✓ Real time data are stored in Cloud.
- ✓ Identifying the accidents and intimating to the user through mobile App.
- ✓ Emergency vehicles are operated signal free based on their request through Mobile App.
- ✓ Prediction of traffic for the system users using Big data.

INNOVATION

# OF INNOVATIONS	PURPOSE	TECHNOLOGY USED
#1.	To detect and notify the huge traffic Motion sensors and GSM modules are used. All of these is controlled by Raspberry Pi, which detects the traffic congestion and sends notifications about the traffic to the nearby travelers.	IoT
#2.	Implementing accident alerts and accident notification.	Mobile App
#3.	Analyzing and Predicting the traffic based on the users history.	Big Data
#4	Live data storage	Cloud (AWS)

Benefits to NATION

- Save fuel .
- Less Pollution.
- Smart Travel.

SIGNIFICANCE TO THE MINISTRY

- Accurate prediction.
- Accident Notification .
- Local traffic diversions.
- Regional language notifications.
- Priority to Emergency vehicles.

ELEVATOR PITCH

Establishment

No. of Signals = 528
Cost for setting In One signal =10000
Cost for setting In 528 signals =52,80,000
Cloud storage = 40/hr
Storage Cost/mon = 28,800

Total Cost = 53,08,800

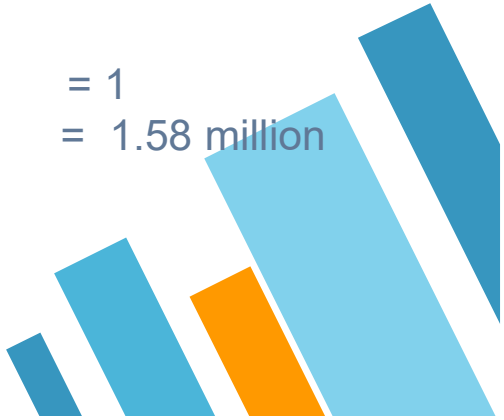
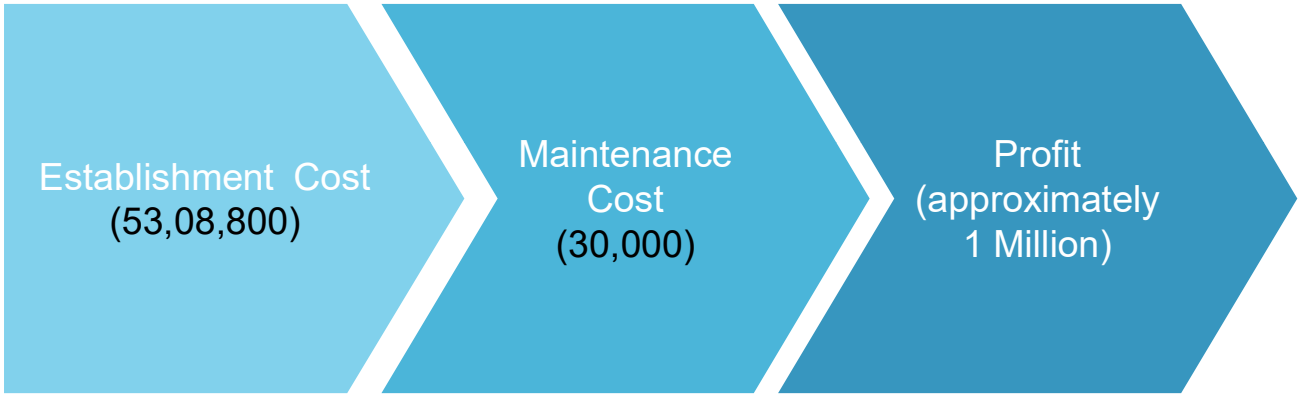
Maintenance

Cloud storage = 30,000

Earnings

No. of population =7.088 million
No. of users = 2.36 million
Avg. Number Of users = 1.58 million

Cost per user = 1
Total profit = 1.58 million



OUR SYSTEM IS EASY