**Phase 1: Problem Definition and Design Thinking**

The scope of this document is to identify the problem and find solution for Traffic management to receive real time Environmental Data.

## **Problem Definition:**

It has been researched and found that there has been the following issues with public traffic management. The issues or problems are listed below:

* Public traffic management faces several challenges, including traffic congestion, inefficient infrastructure, and a lack of public transportation options.
* Traffic congestion results in longer travel times, frustration, and environmental pollution.
* occurrence of traffic accidents poses a grave threat to public safety.
* Many road systems suffer from poor traffic flow, leading to delays and transportation inefficiencies.

# Design Thinking:

Having understood the above problem. We would designing a solution which would be able to solve  the same.

* An IoT based solution could immediately resolve the above issue.
* Collecting date, such as traffic flow, vehicle speeds, and weather conditions.
* Creating a central control system capable of receiving and processing data from sensors, with intelligent decision-making logic to respond to real-time traffic conditions.
* Implementing the security measures to protect data and address privacy concerns, ensuring compliance with local regulations and data privacy standards.
* Hence we would need internet connectivity and real time monitoring.