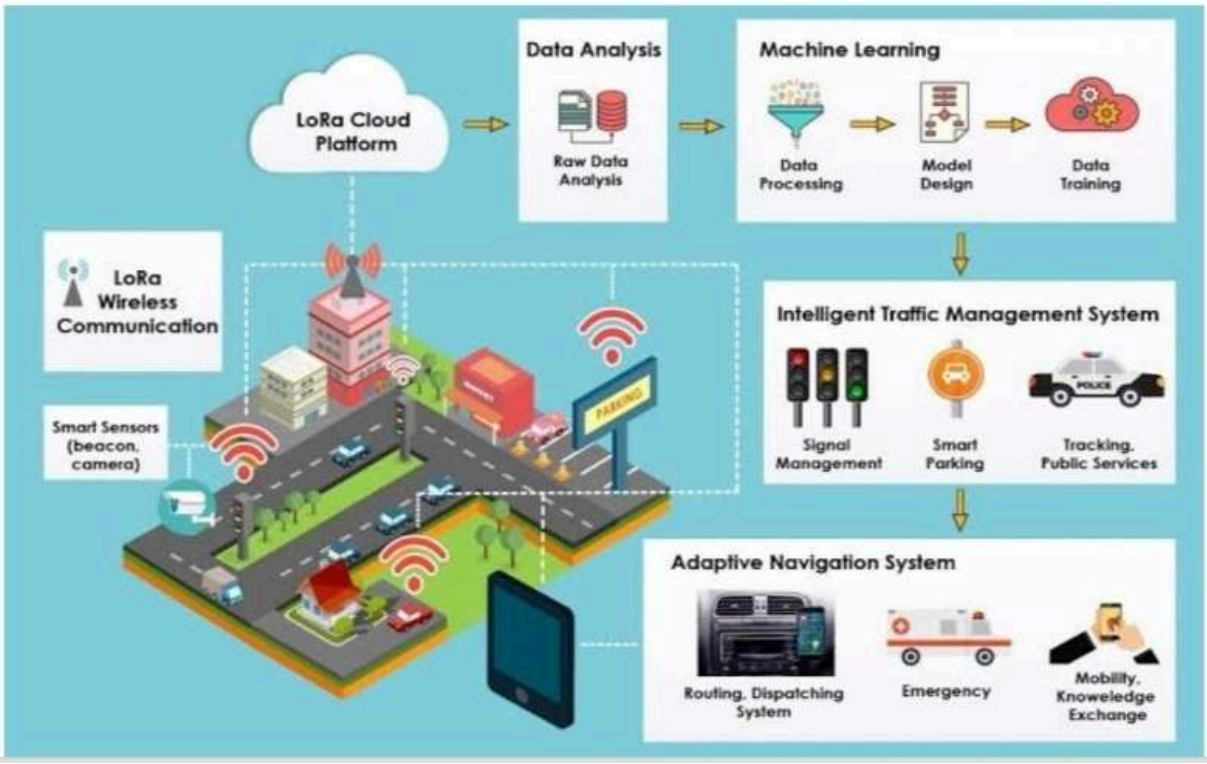
Smart traffic management

Phase - 2

Design:


LoRa Cloud Platform
Data Analysis
Raw Data Analysis
Machine Learning
Data Processing
Model Design
Data Training
LoRa Wireless Communication
Smart Sensors (beacon, camera)
PARKING
Intelligent Traffic Management System
Signal Management
Smart Parking
POLICE
Tracking, Public Services
Adaptive Navigation System
Routing, Dispatching System
Emergency
Mobility, Knoweledge Exchange

Innovation of smart traffic management:

Traffic management is the focus area for most urban dwellers andplanners. Congestion is the most important major obstacle that has been seen inmany countries including India. Countries To avoid this obstacle means how tomanage the traffic smoothly. Traffic congestion mainly focuses on the signalsfailure, reduced law enforcement and improper traffic management. Existingfoundation can't be extended increasingly and subsequently the main choiceaccessible is to enhance the administration of the traffic. Traffic congestion is not agood sign for our country as well as it creates a negative impact starting fromeconomy to the leaving standard. Consequently the opportunity has already comeand gone to viably deal with the traffic congestion. Many methods are designed tomanage the traffic and minimize the congestion. Out of all the techniques, infraredsensor, inductive loop detection, video data analysis, wireless sensor network, etc.are used to somewhat solve the congestion in the traffic and to manage the trafficsmartly. But in the above said methods having some demerits like much time totake for installation, maintenance cost is very high.

Actually, our objective is todevelop a new technology or method; that will solve the above problems andproduce better result within a stipulated time. To overcome the challenges, a newmethod arises called as Radio Frequency Identification (RFID). By this innovation,it will require less time for establishment with lesser expenses when contrasted withdifferent strategies for traffic blockage administration. Utilization of this newinnovation will prompt lessened traffic jam. It refers to small electronic devices thatconsist of a small chip and an antenna. It plays a vital role in intelligent trafficmanagement system technologies to sense the presence and movement of taggedobjects; the traffic will be monitored and managed automatically using this system

Adaptive traffic signal control systems:

These systems use real-time traffic data to adjust the timing of traffic signals, which can help to reduce congestion and improve safety.

Variable speed limit signs:

These signs can beused to adjust the speed limit based on trafficconditions, which can help to improve fuel efficiencyand reduce emissions.

Congestion pricing:

This is a system of charging drivers a fee to use certain roads or intersections during peak traffic times. This can help to reduce congestion and encourage drivers to use public transportation or other travel modes.

Real-time traffic information systems:

Thesesystems provide drivers with real-time information about traffic conditions, such as congestion, accidents, and construction zones. This information can help drivers to make informed decisions about their travel routes and avoid delays,