PUBLIC TRANSPORT OPTIMIZATION

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PROJECT DEFENITION :

- *Public transport optimization refers to the process of improving and maximizing the efficiency, effectiveness, and overall performance of public transportation systems.*
- *It involves various strategies and measures aimed at enhancing accessibility, reducing travel time, increasing ridership, improving cost-effectiveness, and providing a better experience for passengers.*
- *The goal is to create a more sustainable, convenient, and reliable public transport system that meets the needs of the community.*

PROJECT OBJECTIVES :

- *Reduce travel time for passengers.*
- *Increase the frequency of public transport services.*
- *Improve the reliability of public transport schedules.*
- *Enhance accessibility for all passengers, including those with disabilities.*
- *Minimize overcrowding on public transport vehicles.*
- *Maximize the coverage of public transport networks to serve more areas.*
- *Improve the overall user experience and customer satisfaction with public transport services.*

DESIGN THINKING

- *IOT sensor design*
- *Real –Transit information platform*
- *Integration approach*
- *Passenger informative system*
- *Integrating with other mobility services*

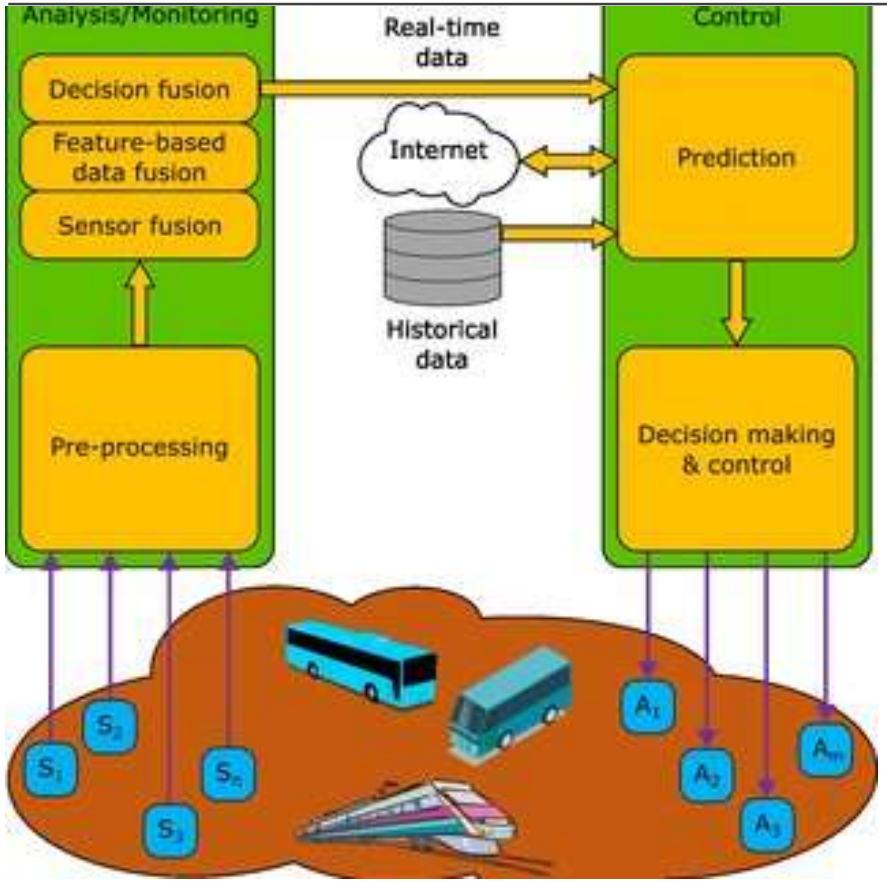
IOT SENSOR DESIGN :

- ***Traffic monitoring:*** *The system can use traffic sensors to monitor traffic congestion and provide alternative routes to drivers.*
- ***Maintenance monitoring:*** *The system can use sensors to monitor the condition of vehicles and provide alerts when maintenance is required. This will help in reducing breakdowns and ensuring that vehicles are always in good condition.*
- ***Analytics and reporting:*** *The system can provide analytics and reporting on vehicle performance, fuel consumption, and driver behavior.*

REAL TRANSIT INFORMATION PLATFORM :

- ***Convenient access:*** *Passengers can access real-time transit information through mobile apps or digital signage, making it easy to stay informed about service changes and updates.*
- ***Efficient travel:*** *By providing accurate information on delays or diversions, the system helps passengers find alternative routes and avoid congestion, leading to more efficient travel.*
- ***Enhanced satisfaction:*** *With improved information and reduced wait times, passengers have a better overall experience, leading to increased satisfaction and a higher likelihood of using public transportation.*

INTEGRATION APPROACH :



- *Integration approach is to leverage data from various sources and systems to improve the overall efficiency and effectiveness of the transportation network.*
- *Integrating data from different modes of transport, such as buses, trains, and trams, to provide a seamless and interconnected experience for passengers.*
- *Choose the sensors that are relevant to your application requirement*

THANK YOU!