

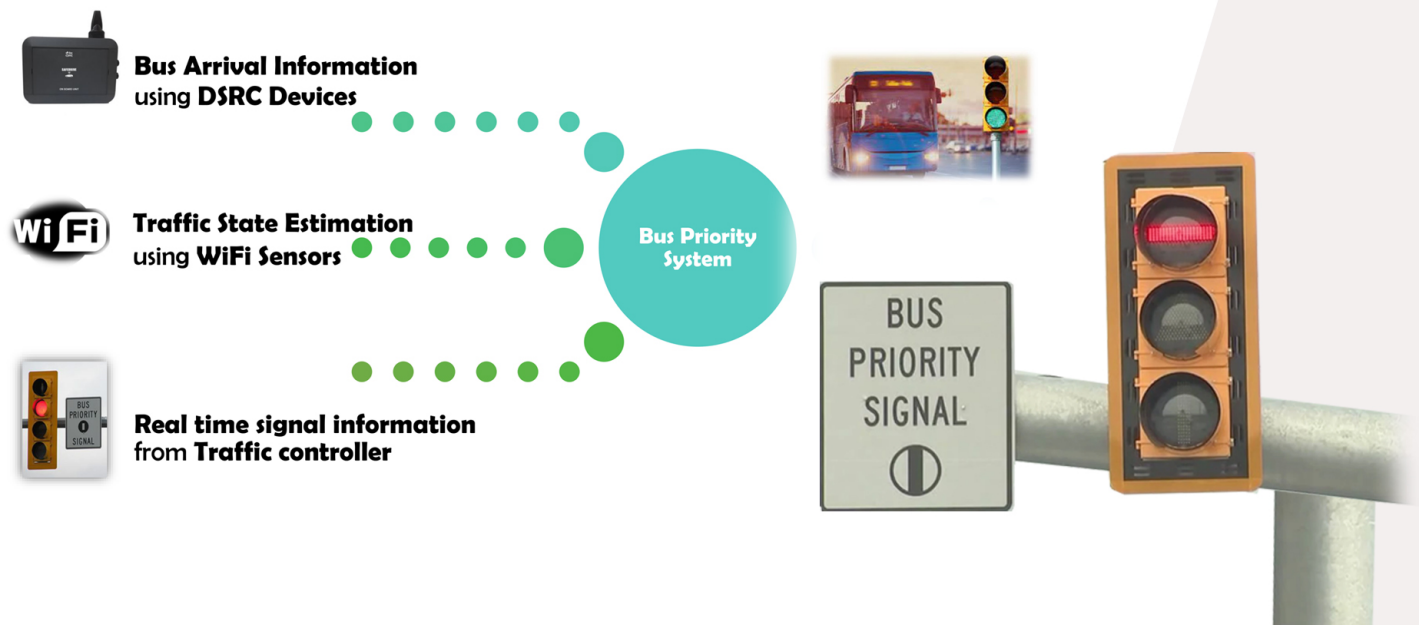
# Bus Priority System at Signalized Intersections

Bus Signal Priority is an operational strategy that facilitates the movement of in-service buses through signalized intersections. The system aims to minimize person delay by providing priority to public transport buses through Green extension or Red truncation, considering all vehicles approaching a signalized intersection.



## Salient Features

- Bus Arrival information using DSRC Devices
  - OBU modules instrumented on public transport buses
  - RSU modules installed on traffic signal poles
- Traffic state estimation using WI-FI Sensors
  - Cost effective Wi-Fi Sensor instrumented on signal approaches
- Real Time Signal information
  - Real-time signal timing information from traffic controller
- Priority Signal System
  - Active Model based Priority System using V2I communication
  - API support for traffic controller integration



Indian Institute of Technology  
Madras

Centre for Development of Advanced Computing  
Thiruvananthapuram



A project funded by **Ministry of Electronics & Information Technology (MeitY)**  
as part of **InTranSE Phase-II** programme