

## Transport...(1/3)

| # | Problem Statement  | Remarks  |
|---|--|--|
| 1 | <p>To offer citizens/commuters the mobile app that enables them, to identify</p> <ul style="list-style-type: none"> <li>- bus availability from Point to A to B</li> <li>- estimated travel time and cost</li> <li>- sharing the bus travel information within a group to enable board same bus</li> </ul> | <p>Data required</p> <p>Bus Availability (ETA) and Schedule for 600+ location across the Surat city, fare matrix, most frequently Traffic effected area, frequent congestion area etc.</p> |
| 2 | <p>Explore Surat</p> <ul style="list-style-type: none"> <li>- An app that lists important city locations/area of Interest (Mall, Auditorium, Zoo, Cinema, etc.) and helps to plan travel to one or multiple locations using the city bus / BRT service along with fare details</li> </ul>                  | <p>Data required</p> <p>Important city locations, Bus schedules, Bus Availability (ETA), fare matrix</p>   |
| 3 | <p>Traffic congestion analysis with realtime data so that Bus arrival time can be optimized</p>  | <p>Most frequent Traffic effected area, route, spots, junctions, frequent congestion area etc.</p> <p>Statistical data on peek - off peek hour</p>   |
| 4 | <p>Real time Rider ship information</p>  | <p>Live &amp; historical passenger ridership information (specific - area, time, route)</p>  |

## Transport...(2/3)

| # | Problem Statement  | Remarks  |
|---|--|--|
| 5 | <p><b>Pay &amp; Park Facility Locator</b></p> <p>SMC has created multilevel and open parking facilities. It is required to have a mobile app which enables citizens to locate nearest parking location. For the multilevel parking, the parking slots for the four wheelers are fixed and the entry and exit is under controlled environment, for such MLP lots, a back end app can be designed for the operator which will enable to mark entry and exit of four wheeler. This information will help the citizen to check the parking space availability as well.</p> | <ul style="list-style-type: none"> <li>- Locations of parking facility</li> <li>- Capacity of each</li> <li>- Fare details</li> <li>- Operational hours</li> </ul> |
| 6 | Signal free BRTS - possibilities   | Real-time ETA of BRT bus at signals.   |
| 7 | Better bus services  | Mobility, rider ship & schedule /ETA information.<br>Peek Off peek ridership information's   |
| 8 | Prediction of bunching by means of historical analysis and thereby providing Alerts to Administration  | Historical Bunching details with location and time etc.  |
| 9 | Real time Occupancy in the Bus   | Tickets issuance data and Real time bus tracking information   |

## Transport...(3/3)

| #  | New Problem Statement Received   | Remarks  |
|----|--|--|
| 10 | How to achieve transit signal priority ?   |  |
| 11 | How Count down timer can work in adaptive traffic control system ?   |  |
| 12 | What are the different utilization of traffic related data which is being received from traffic signal controller ?  |  |
| 13 | Last mile connectivity - Integration of 'Public Bicycle' with BRTS/City buses. People can easily get the data of available next "Public Bicycle" spot near to there destination bus stop. How many bicycle are available at the stand and they can reach to there final destination i.e. the spot near to there last stop. | Available of buses near the bicycle stop. Bus schedule so they can catch the bus of the destination they want. How much easily and fast they can communicate using public transport and bicycle during peek traffic hours. |