

Big Data Analytics For Smart Transportation

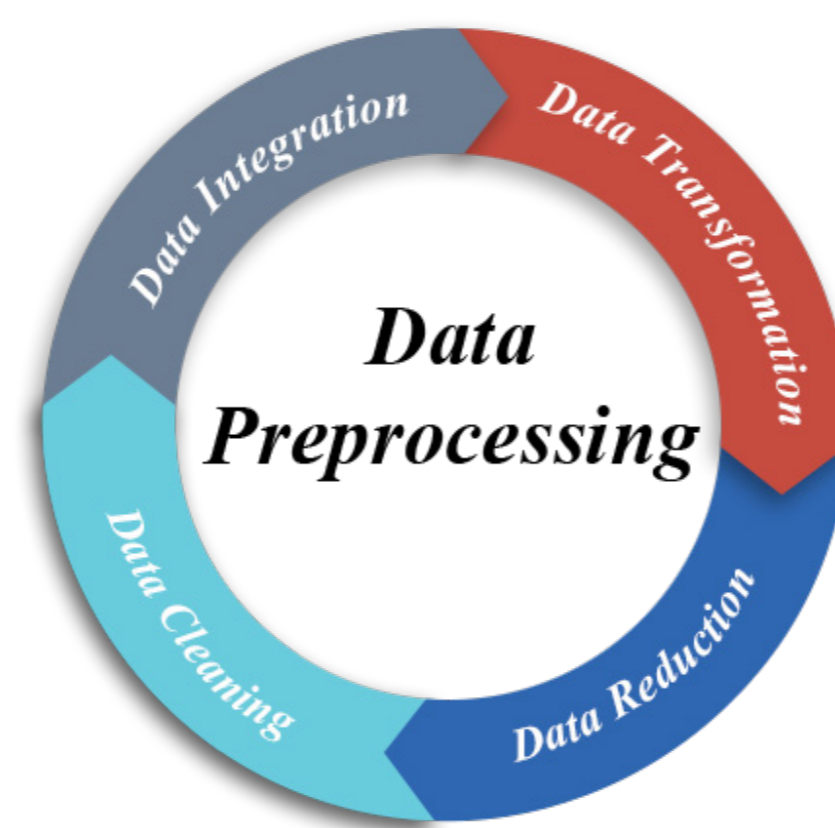
Objective

To use data analytics and visualization techniques to understand traffic patterns to help in urban planning for transportation in Singapore.

Data Preparation



Raw Data from Various sources

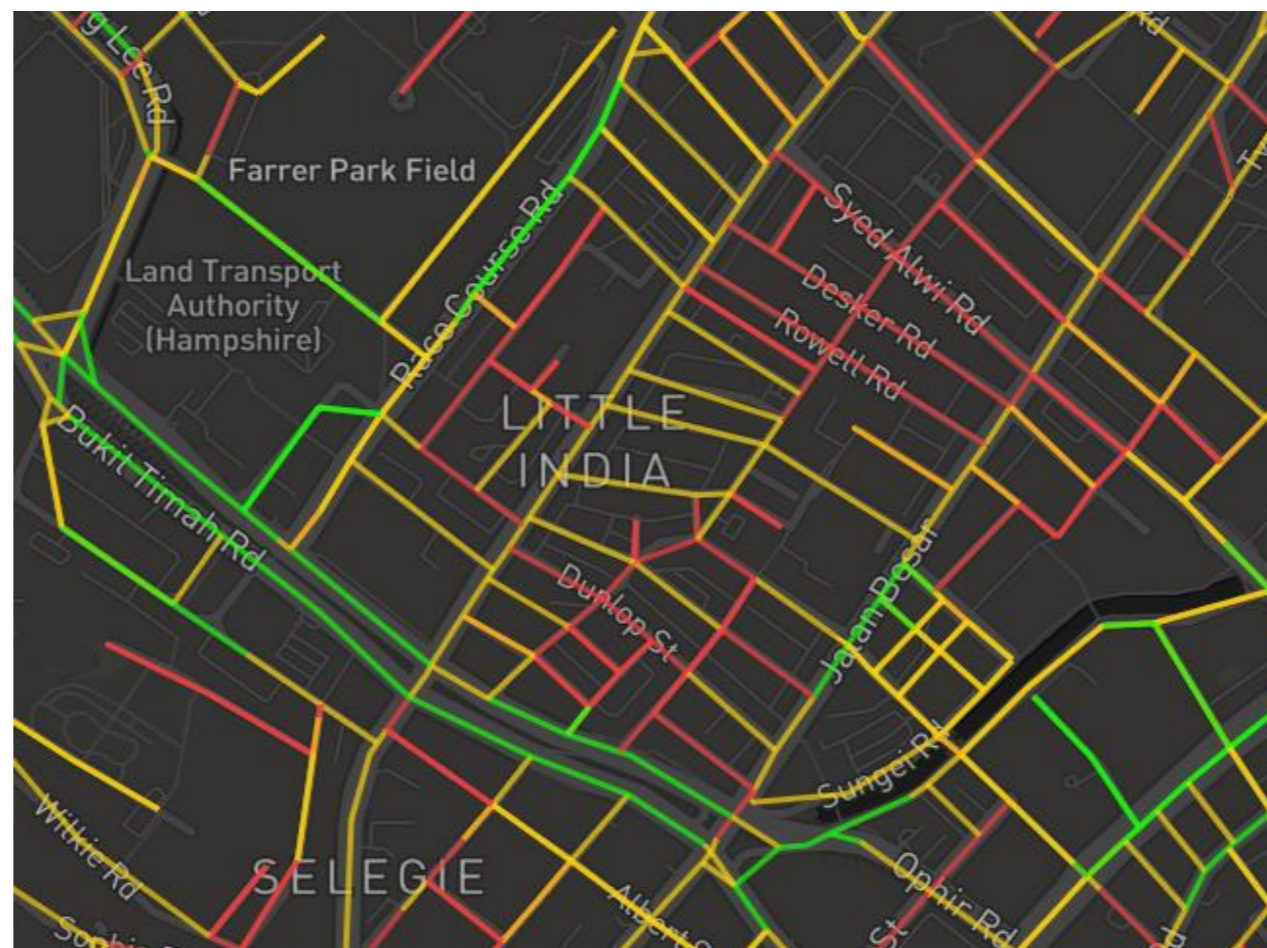


- Bus Routes Data
- Passenger Load Data
- Road Condition Data
- Student Trajectory Data

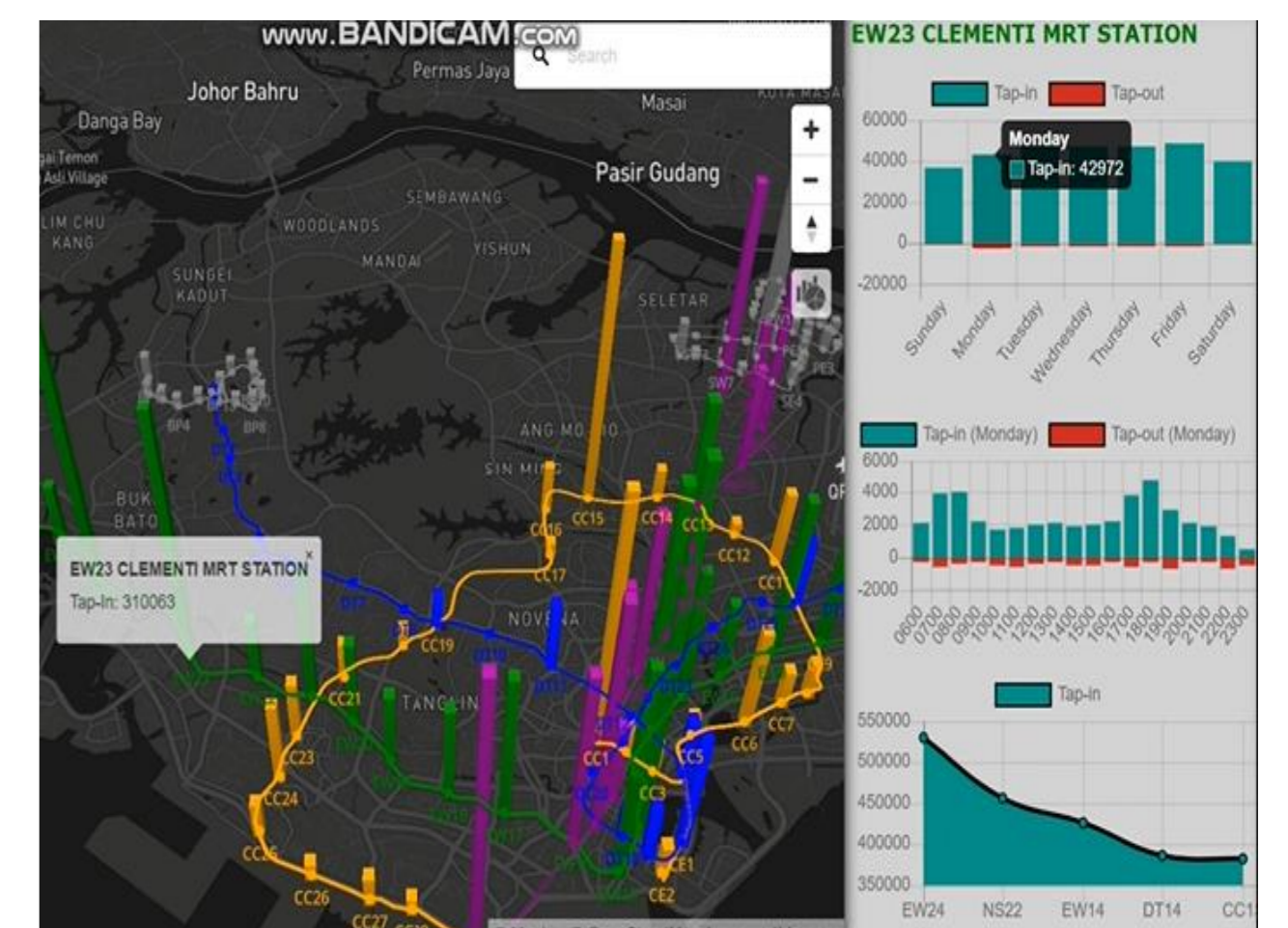
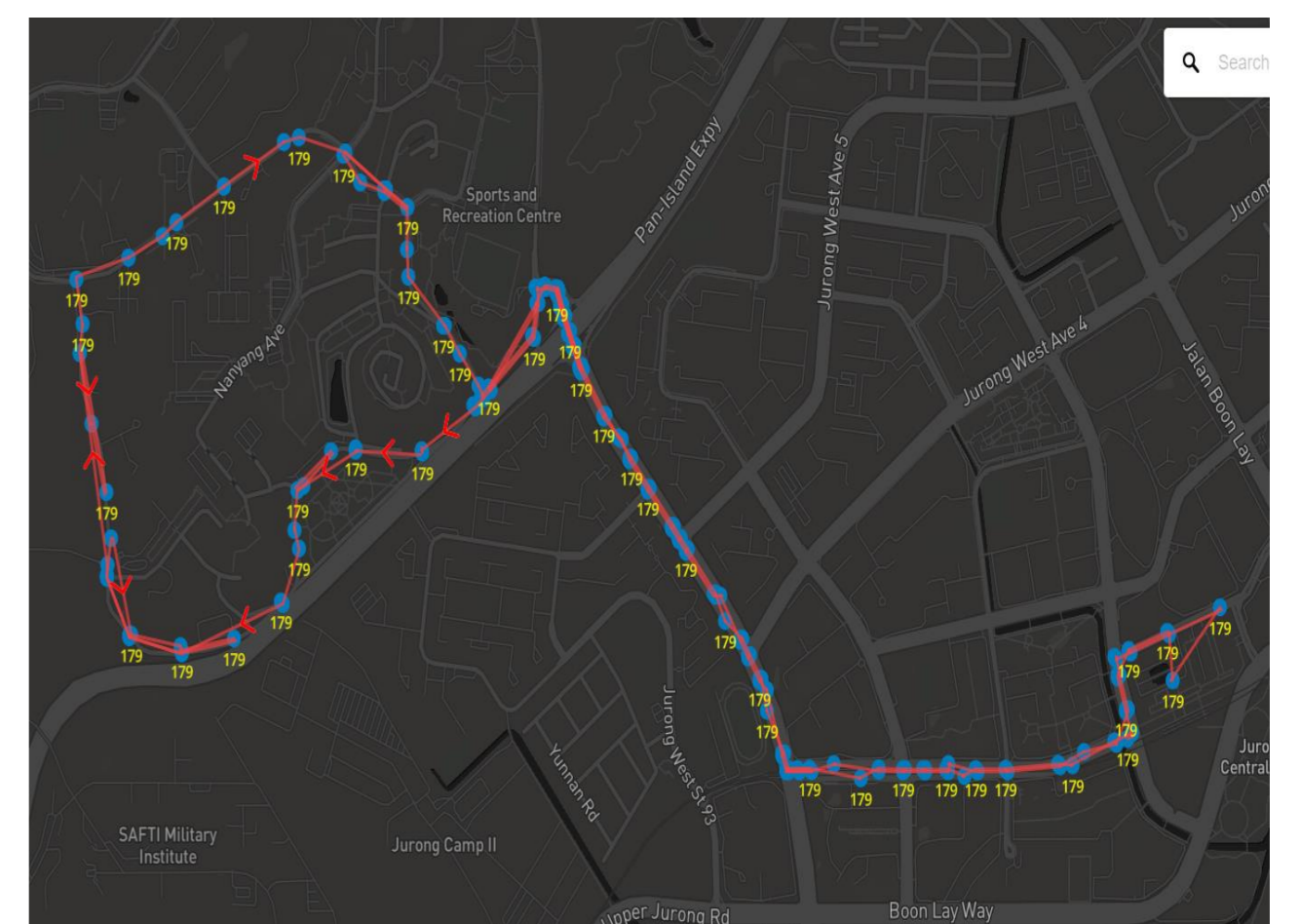
Visualization

- Analyse road segment condition based on taxi speed
- Visualise bus routes and directions
- Visualise all students trajectory from home to school
- Analyse MRT stations passenger volume

Traffic Prediction



Bus Integration



National Science Experiment Resilience Analysis