TARA

by NewYug Technologies

Mentored by Goa IT Professionals

Mission:

Make it convenient for every citizen to use Public Transport, saving fuel and protecting the environment.

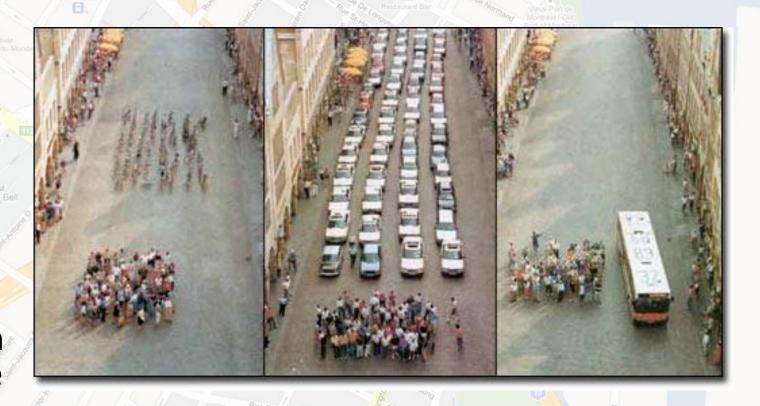
Problem Place Montreal Trust Leaf To Brasser

- Rampant rise in personal vehicles
- Major toll on the state's infrastructure, peacefulness and environment
- Lack of awareness of public transport options



Solution

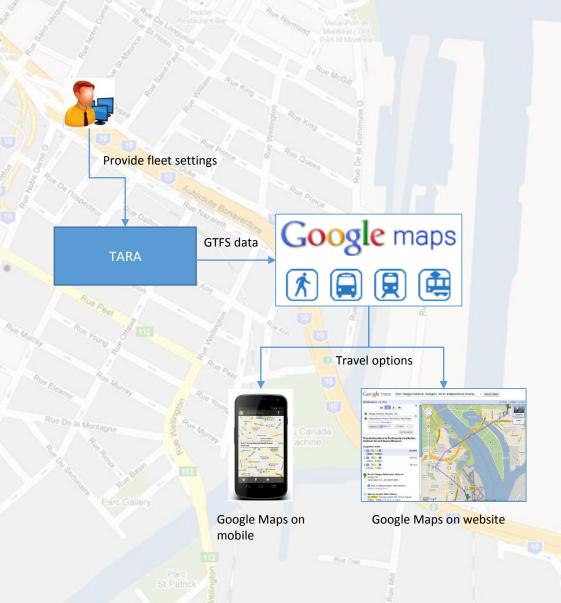
- Provide public transport timetables and boarding points to citizens
- Upload time-tables and boarding points to Google
- Google displays public transport options on map
- People will be able to plan their commute in advance
- Gradual decrease in use of personal vehicles

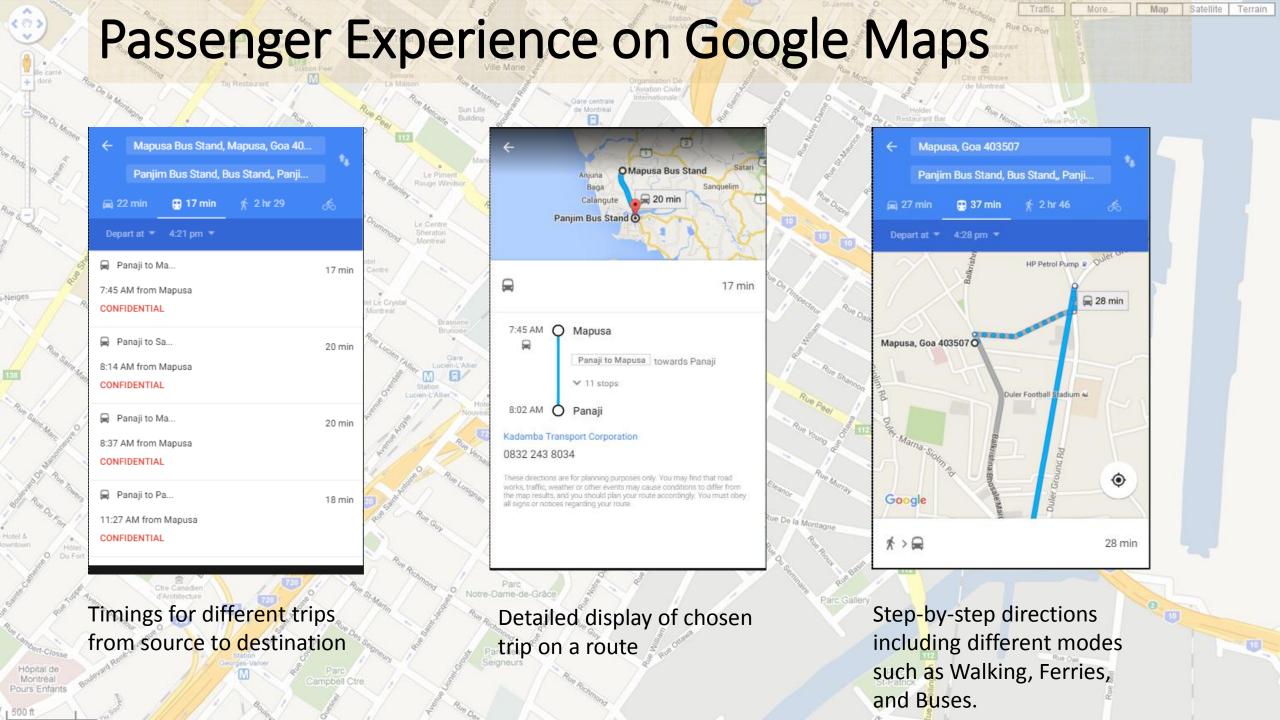




Product – The TARA Project

- Transit Agency Route Administrator (TARA)
 - Allows the transit agency to visually define the details of their fleet such as stops, routes, trips and timings.
 - Allows the fleet details to be managed on a Google Map using a very intuitive User Interface that greatly simplifies the entire process of uploading the data to Google.
 - Is multi-tenant and hence allows employees of multiple agencies to simultaneously work on the same product.





Traffic More... Map Satellite Terrain

Our plus points

- A company in Europe offers similar service at an annual rate of 13 Lakhs for 250 routes.
- We are not aware of any other prominent company that provides an equivalent service in India.
- The TARA application provides a much more simplified user interface for data entry that the competing application.
- Unique features
 - Auto-completion of trip timings
 - Support for stops across either side of roads

Traffic More... Map Satellite Terrain

Achievements

Partnership with Kadamba and Goa Ferry Service

- Got insights into operations of Transit agencies
- Gone Live on 3 Sep 2016
- Further Data entry in progress
- Started with data entry for Maharashtra State Transport Corporation

Future enhancements

- Further Improve the User Interface.
- Include bus fare details on Google.
- Once the time-table data is digitized, it can be presented to citizens through multiple additional channels such as SMS, IVR, websites, etc.
- Passenger-experience can be further enhanced by providing real-time status updates of every trip provided the transit agencies install GPS devices.

Points to note

 Data entry operators need training to perform data entry

- The best source of precise stop locations is a driver or a conductor
- Data entry is done most effectively from a bus depot where drivers or conductors are present
- Google performs extensive testing on uploaded data
- It takes about 6 months to make the data Live on Google



TARA for Department of Transport - Goa

Our approach

- Pull data from existing systems into TARA.
 - These may be Excel files or any other electronic format.
 - The files should have routes and timing information.
 - If such data is not available in electronic form, the TARA system allows manual data entry
- Train employees of Dept. of Transport to mark stop locations
- Drivers/Conductors assist employees to locate stops on a map.
- Data from TARA is exported to GTFS format expected by Google.
- Google shows data on Google Maps.

Pricing

- At least 10% increase in passengers is expected
- Annual subscription for TARA service is based on number of routes
- Subscription cost for 1st year is decided based on amount of effort for uploading data.
- Subscription cost for 2nd year and following years is half the cost for 1st year.
- Assuming no data is available with the agency, all data is entered from TARA application
- If data is existent in another database, cost is significantly reduced

