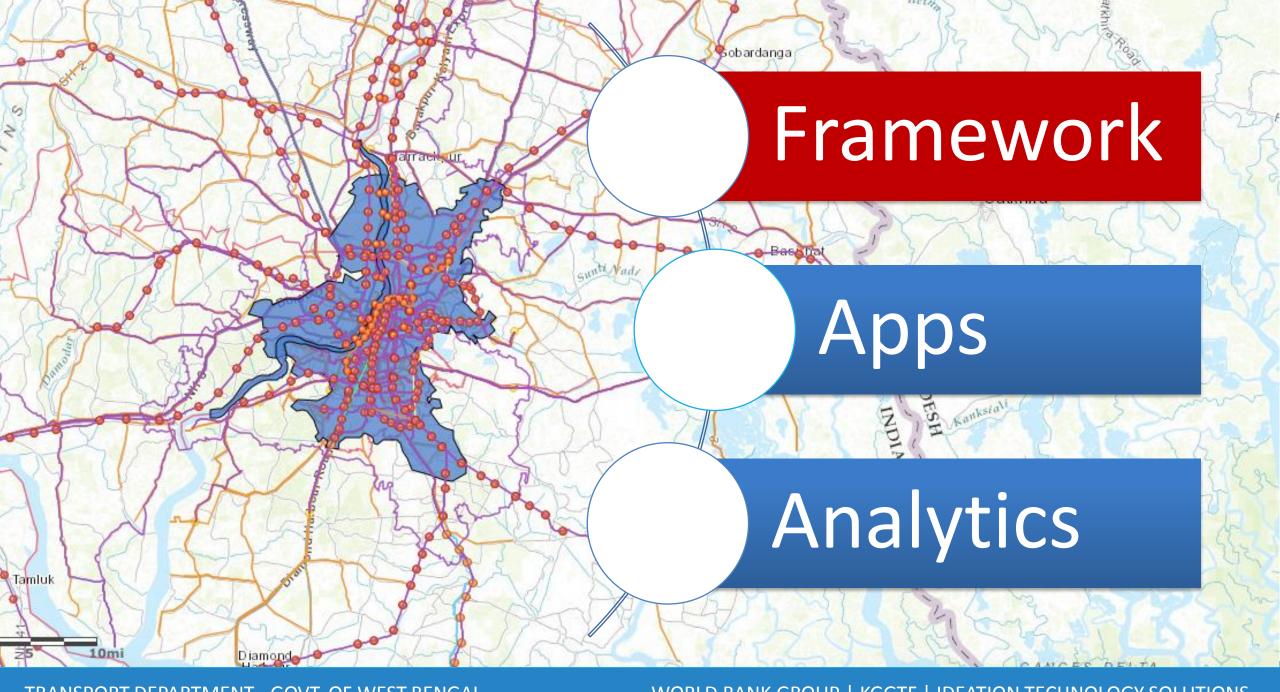
FRAMEWORK, APPS & ANALYTICS FOR SMART TRANSPORT – WBTC CASE STUDY

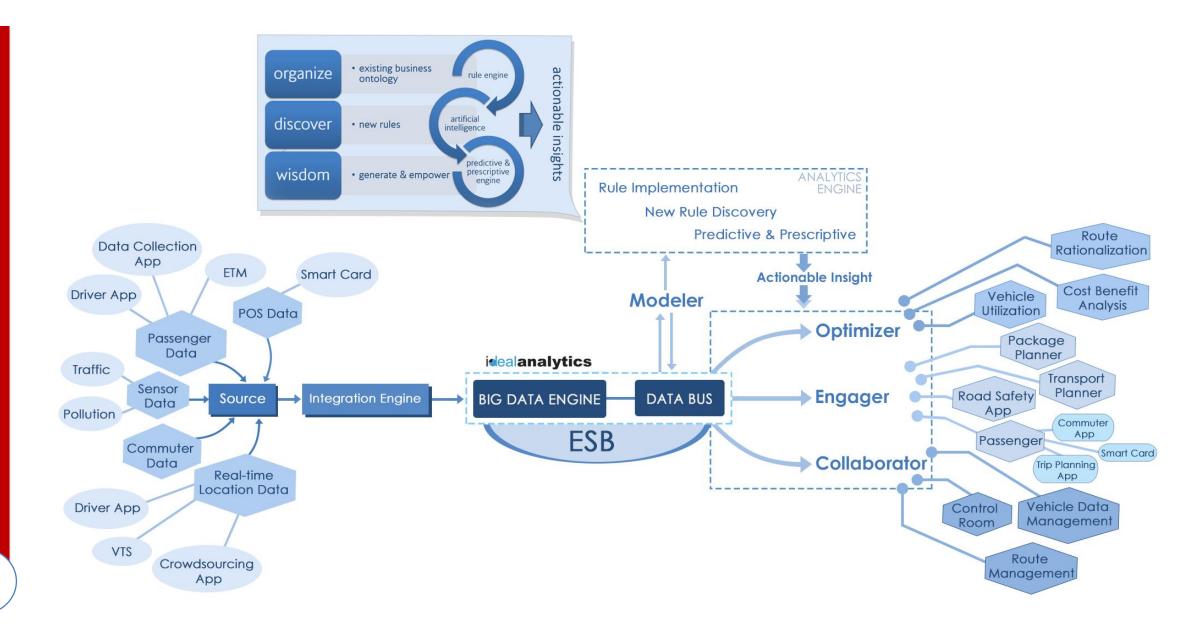
WORLD BANK SUPPORTS WEST BENGAL FOR BUSINESS-EASE & INTELLIGENT COMMUTING

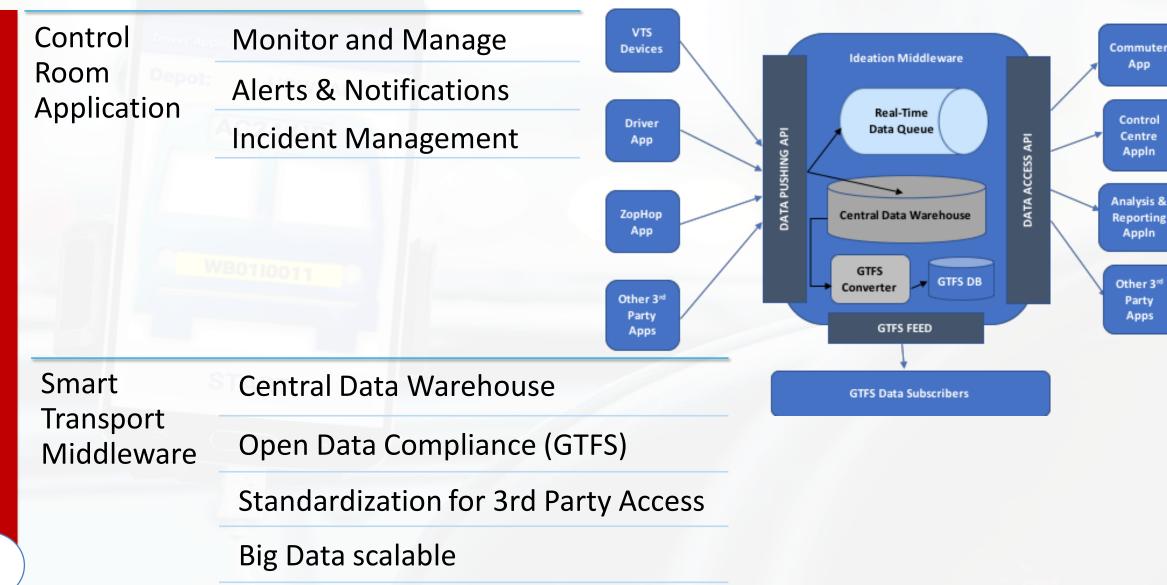


Korea **Green Growth**Trust Fund









App

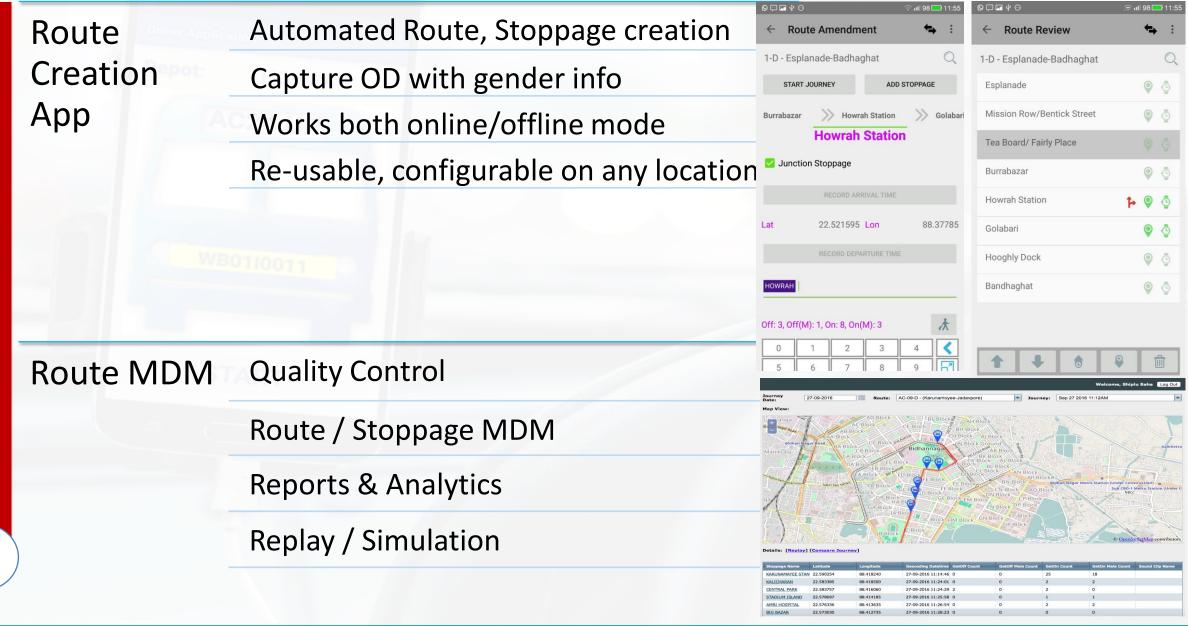
Appln

Appln

Party Apps







Driver App

Uber-like App for Driver

Avoid potential 'bunching'

Input Crowdedness

Capture 'demand' in real-time

Commuter App

Real-time trip planning

Real-time tracking with crowdedness

ETA

Capture 'demand' in real-time

Ride Sharing

Crowd Sourcing App

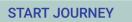
PATHADISHA

Community Building

Capturing Sentiments of Commuters

Enriching Driver & Commuter App











Overview Accidents or Incidents on Road will be immediately informed to the Traffic police Crime police **Nearby Hospitals** Control room of the transportation dept.

Depots Nearby

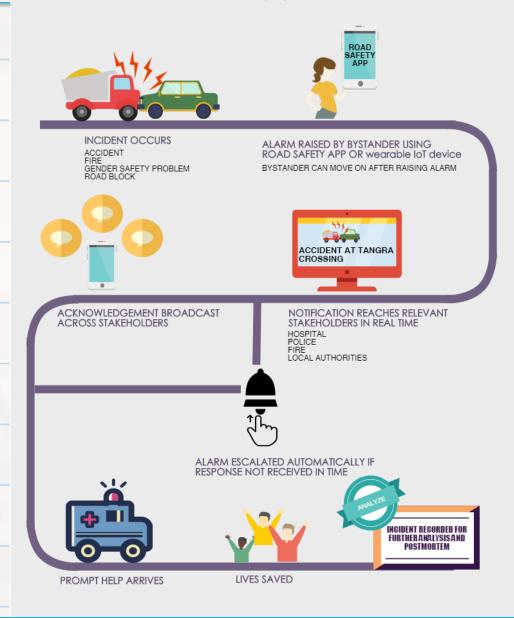
Fire fighters

Break down service centers

Commuter apps

Driver app

ROAD SAFETY App Process Flow



Overview

An Internet of Things (IoT) based Mobile Air Pollution measurement device which will be connected to any Smartphone as an IoT Gateway via Bluetooth low Energy to send accurate and reliable data to the cloud server, where all the data about pollutants will go under further analysis.

The Device can measure the exact concentration major air pollutants like

concentration major air pollutants like

Particulate Matters (PM2.5 and PM10)

Ozone (O3)

Carbon Mono Oxide (CO)

Nitrogen Di Oxide (NO2)

Sulphur Di Oxide (SO2)

Carbon Di Oxide (CO2)

Ammonia (NH3)

Methene, LPG / Propene

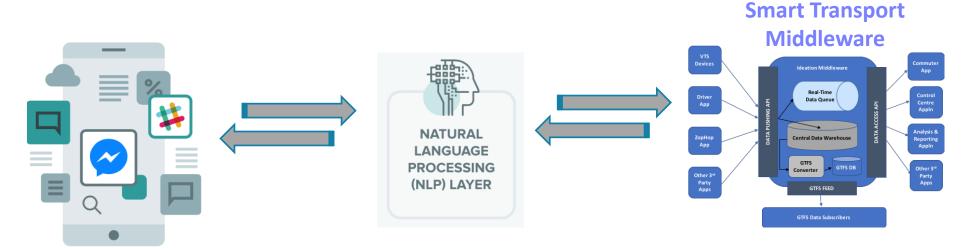
Temp, Pressure, Humidity

Transport CHATBOT

Intelligent FAQ

Real-Time ETA and Location Information

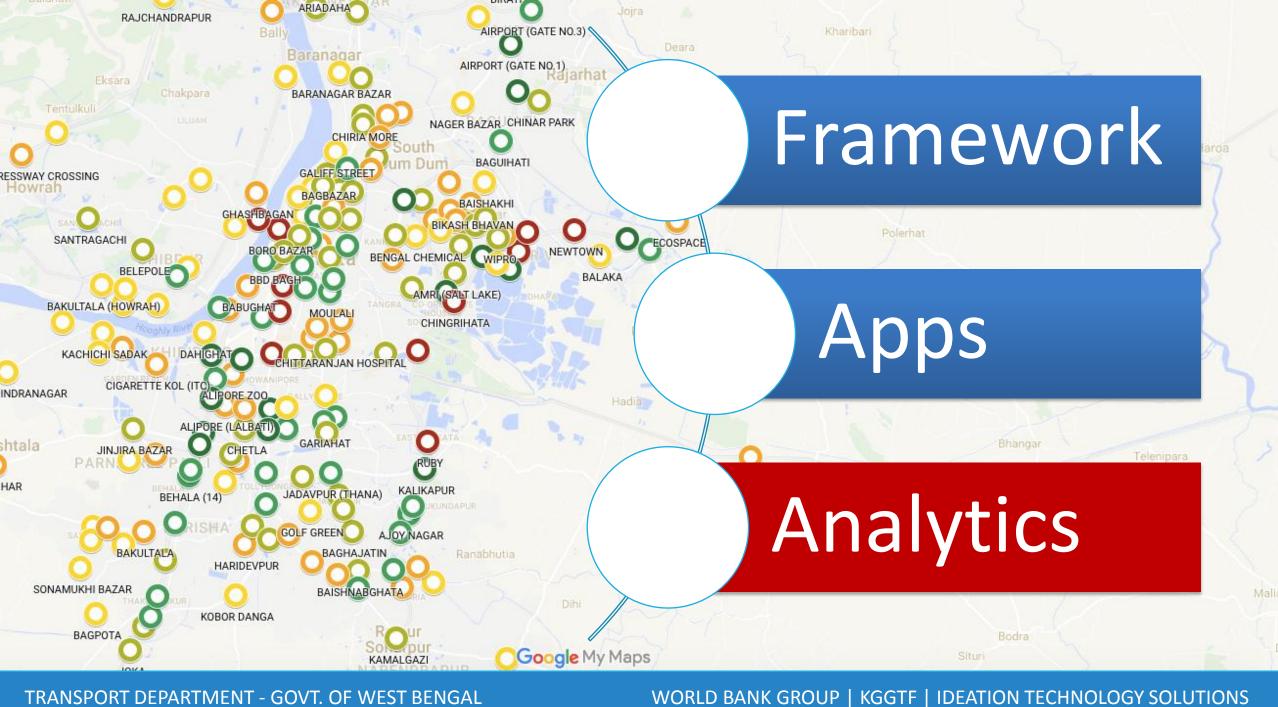
Trip Planner

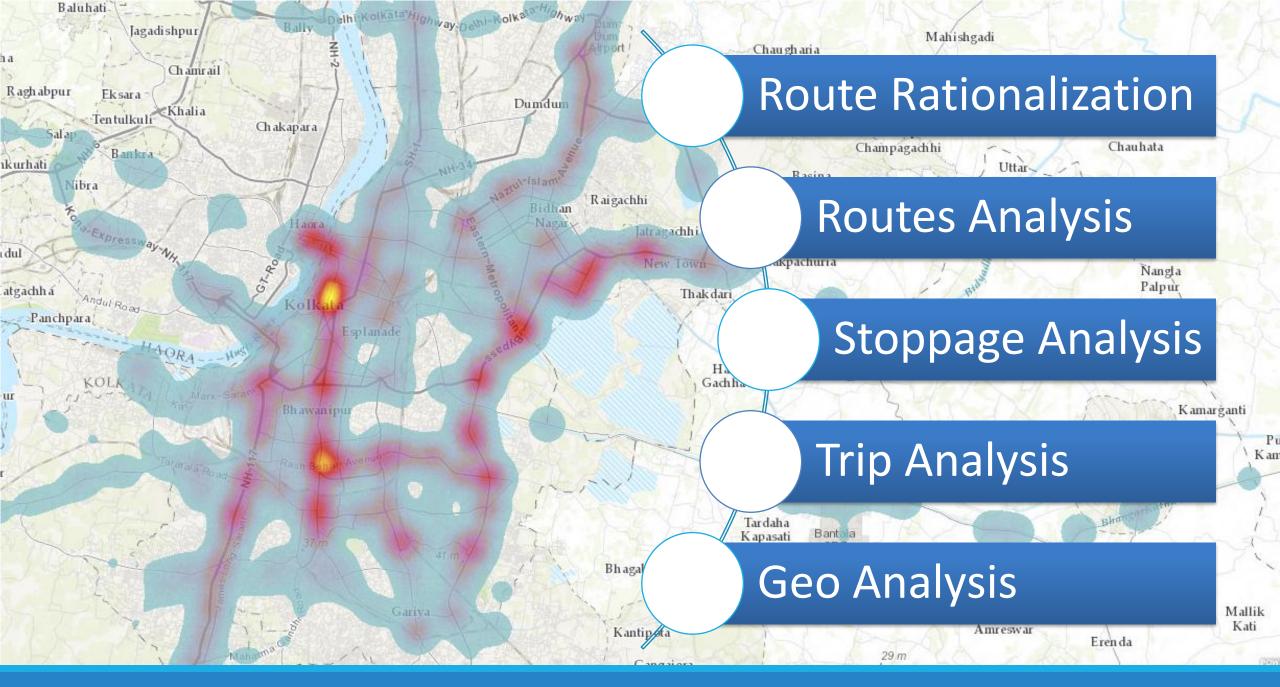


User interacts with existing popular messenger apps like Facebook Messenger / Twitter etc.

Translate to API and fetches response in real-time

Execute the query and prepare response





Overview

Network definition

Identification of route properties

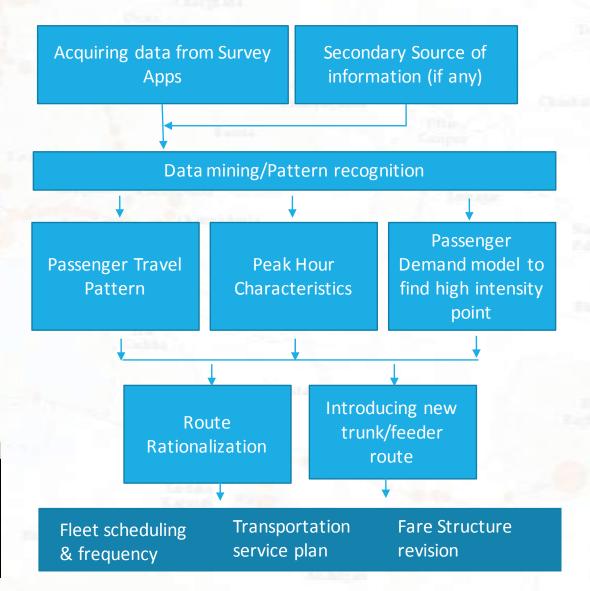
Defining an objective function and constraints

Identification of edit candidates

Eliminating and scoring candidates

Sample Output:

	CTC:ORD-1A	CSTC:O-12N	MERGED	
Distance(KM)	28	19	31	
Time(Mins)	78	56	84	
Buses	2	2	4	
Trips/Bus/Day	3	3	2	
Passengers	383	1000		
Trips/Day	6	6	8	67%
Passengers/Trip/Day	64	167		



Route Analysis

Peak crowd – Shows the top 10 routes having maximum number of passengers in a given journey.

Top 10 routes having highest number of average passengers.

These two analyses further drilled down to see the pattern on weekends and weekdays level/if the pattern varies between different agencies /what are the impact of the different journey times.



Crowding

Average footfall

Gender ratio of the commuters

Average Waiting Time

Time variant analysis

Strategic decisions for Gender

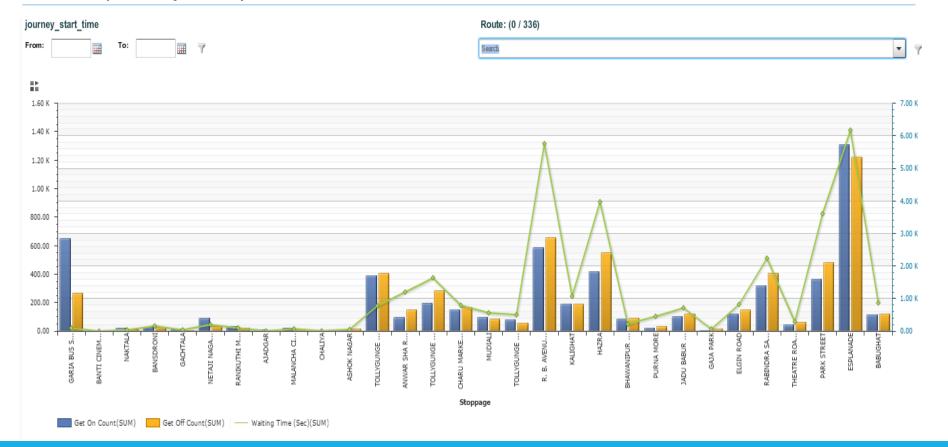


Trip Analysis

Trip Analysis – Shows Number of passengers getting off & getting on for a given stoppage along with passenger waiting time.

Time variant analysis

This exercise can show if any non-stop or limited stoppage services can be introduced for a specific journey time.

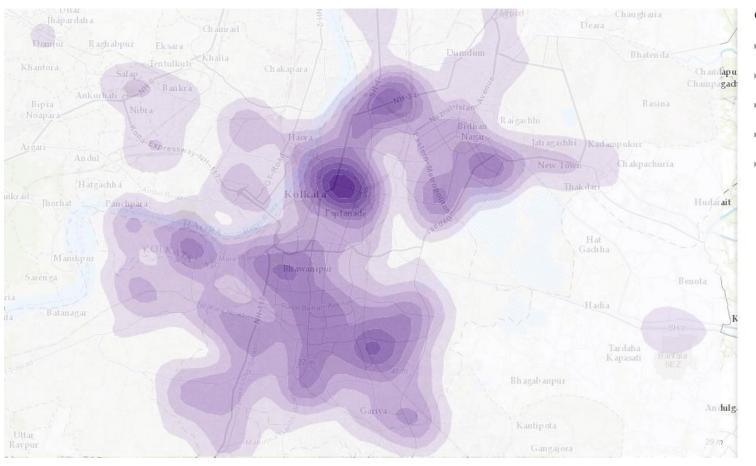


Geo Analysis

Stoppage Density

Categorized On-Boarding / Alighting Density

Geo temporal Analysis



Operational Layers

- ▶ Stoppage Density
- Avg. Get ON-OFF Density
- Avg. Get ON-OFF Female Density
- Avg. Get ON/OFF
- Avg. Get ON/OFF Female

THANK YOU



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