Digital India
Power To Empower

स्वच्छ भारत
एक कदम स्वच्छता की ओर

GOVERNMENT OF INDIA
MINISTRY OF HOUSING AND URBAN AFFAIRS

11th Urban Mobility India Conference & Expo 2018

Project name:

Intelligent Transport Management System & Automatic Fare Collection System

An initiative of/ Submitted by :

Surat Municipal Corporation

Surat SMART CITY

Surat City Profile

8th Largest in India as per population

4th fastest growing city globally

Termed as Economic Capital of Gujarat

9/10 Diamonds in the world are cut and polished here

40% of nations total man-made fabric & 28% of nation's total man-made fiber production

- Area: 326.5 sq.km
- Population: 2011- 44.6 Lakh (SMC)
- Density : 138 Persons/ Ha (Census-2011)
- Population Growth Rate : 59% increase in a decade (2001-2011)
- Admin Zones : 7

- 2nd largest in Gujarat and 8th largest In India
- Fastest growing city in India
- Large number of migrant populations in the city from various parts of India due to economy generating textile and diamond industries

Mobility Challenges

Rapid Growth in Population

2001 – 28 Lakh
2011- 44.6 Lakh

Inadequacies in the road network

Incomplete Road Network
Constraints – River, Canal, Khadi, Railway Line, encroachment

Rapid Growth in Vehicles

16..7 Lakh vehicle added in last 10 years

Increase in Congestion and Travel Time

High City Mobility

38 Lakh Passenger trips/day

High dependency on Auto rickshaw and Inadequate Public Transport

Journey of Surat Public Transport

Before 2007

40,000 auto rickshaws operating as public transport!

In 2007

Introduction of Rainbow City Bus services in 2007

Challenge for Surat to create Sustainable High Quality Public Transport

To overcome these issues Surat Municipal Corporation has introduced world class public Transport system with Smart tools (ITMS & AFCS)

January 2014, BRTS

November 2016, BRTS

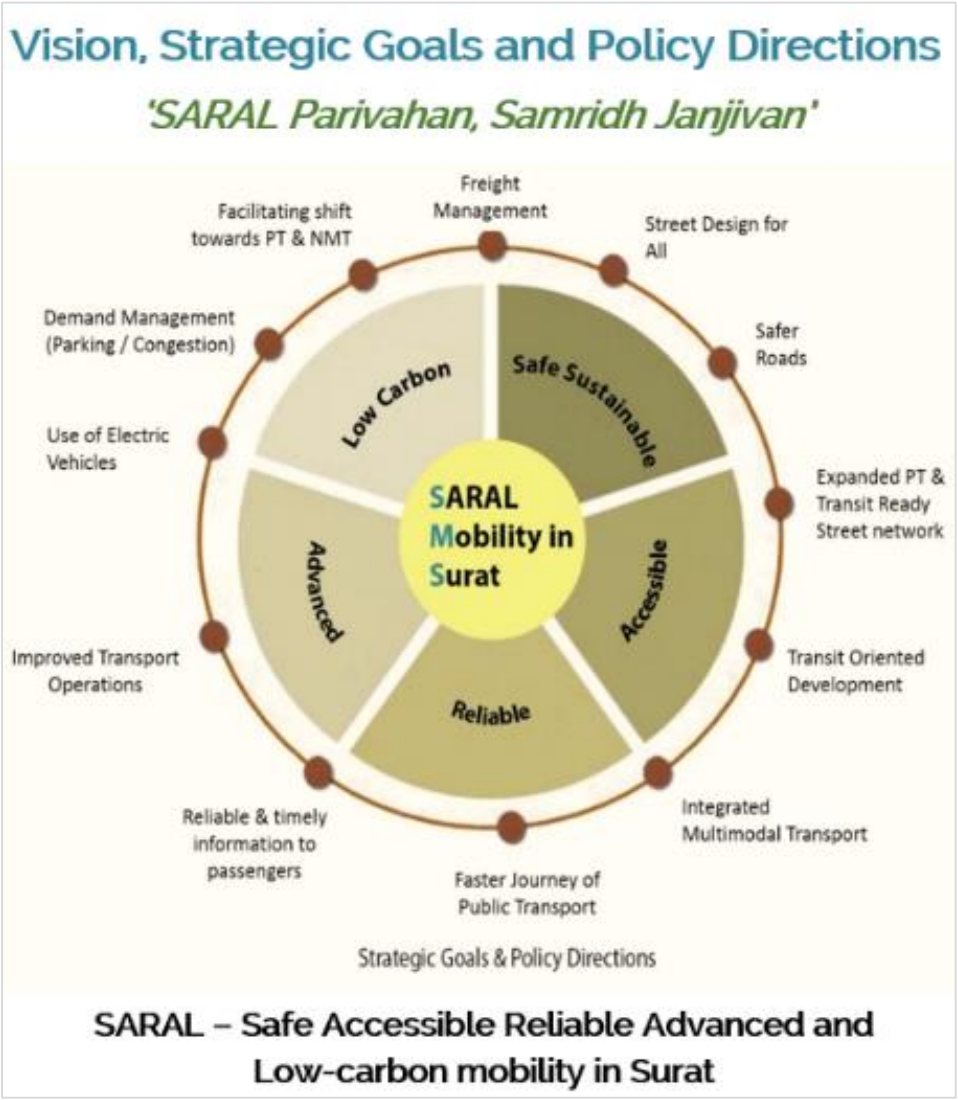
May 2018, HMC

Vision, Strategic Goals and Policy Directions

The vision SARAL in Indian languages means "Simple" which also implies mobility being Easy, Convenient and Accessible aimed towards a healthy living environment.

The vision "SARAL Mobility 2046" is achieved through five strategic goals defined as:

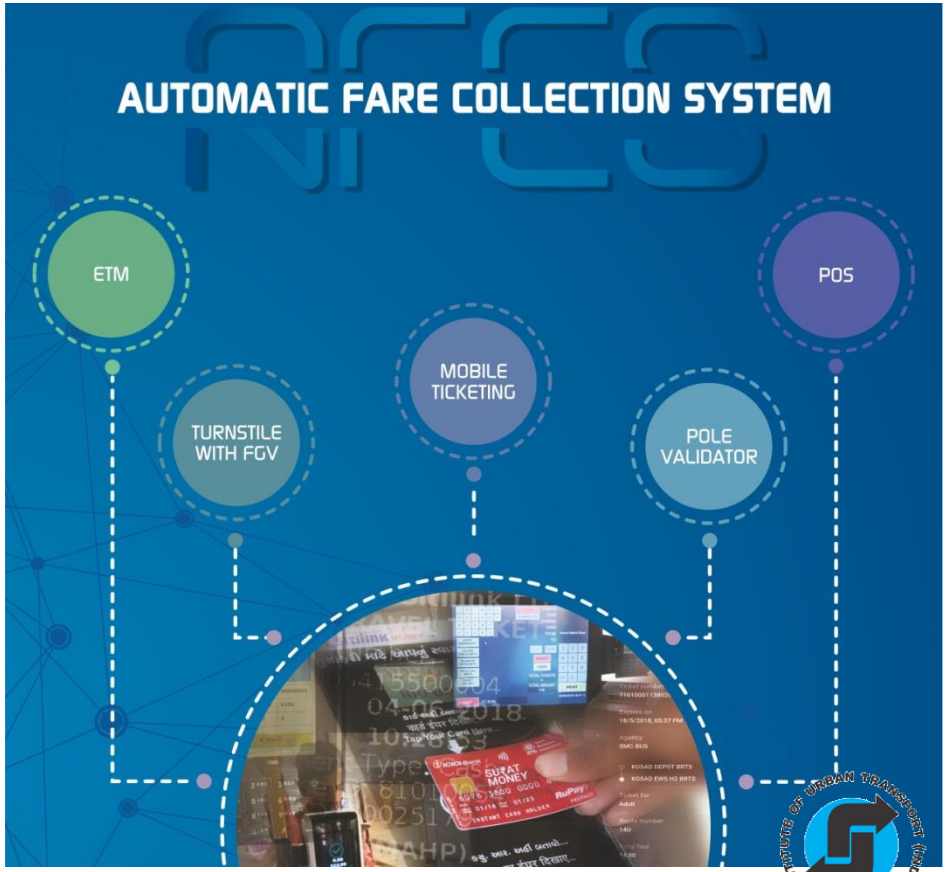
1. **Improving quality of life of people by providing for a Safe and Sustainable transport system**
2. **Supporting the economic growth in the city by enhancing Accessibility for people and goods to major activity centres.**
3. **Ensuring efficient connections by providing Reliable multi-modal travel options**
4. **Optimising transport system operations and enhancing travel experience of people through Advanced Technological Applications in transport.**
5. **Contributing to the environment by promoting Low carbon mobility**



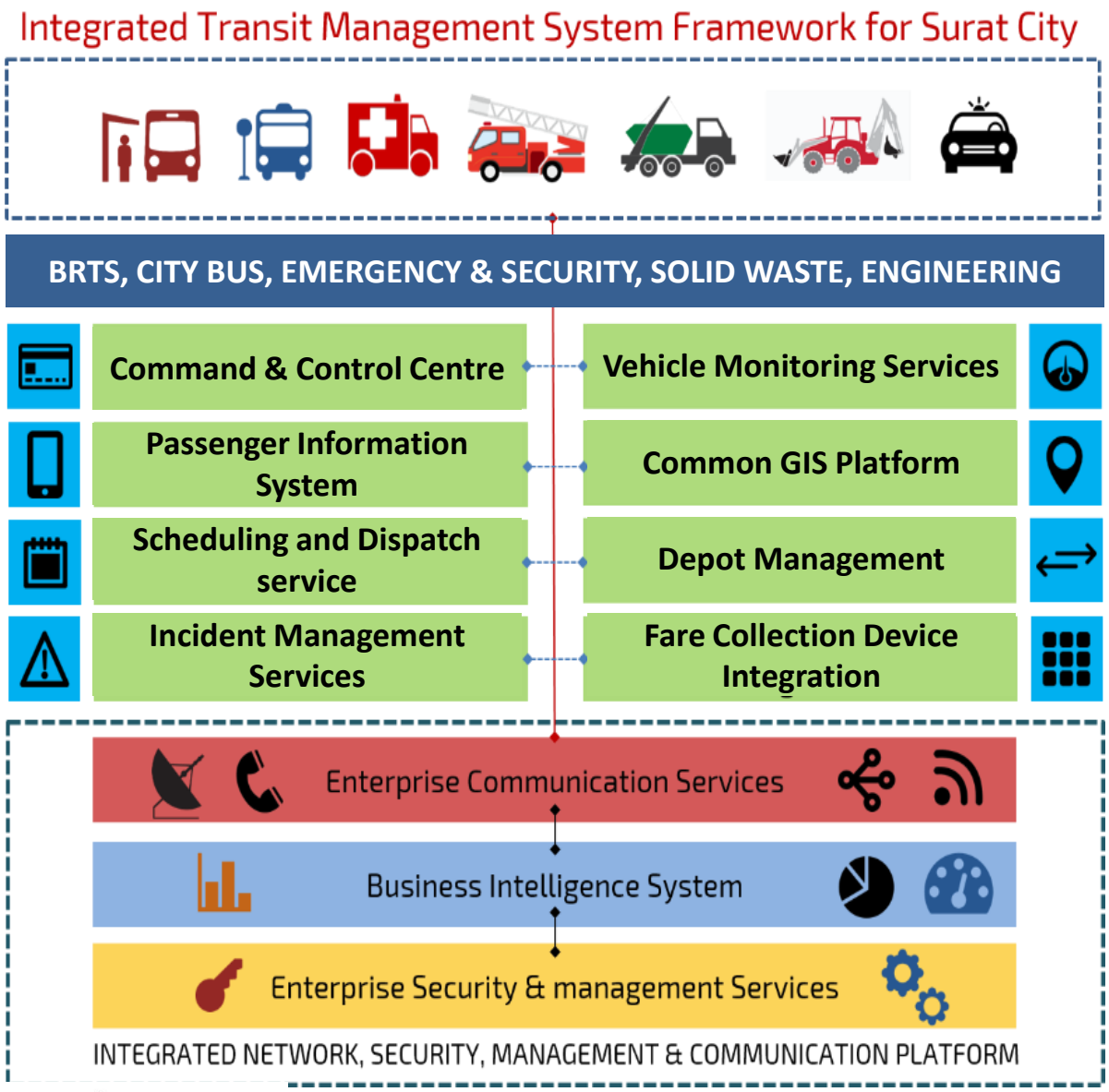
Surat Adopting Smart Tool

SMC is implementing a city wide integrated system – **"Intelligent Transit Management System" (ITMS),** to manage diverse set of transportation needs for the city – this includes: (a) public transport and (b) vehicles related to civic services like Solid Waste Management, Drainage, Heavy Engineering, Emergency Services (Fire & Ambulance) etc.

Automatic Fare Collection System (AFCS) project aims to automate the fare collection mechanism and technology within Surat's transport ecosystem (BRTS & City Bus Services) and enhance operational capability, citizen's satisfaction, reliability and ease of operations for its services offered through various transits.



ITMS



Project Scope

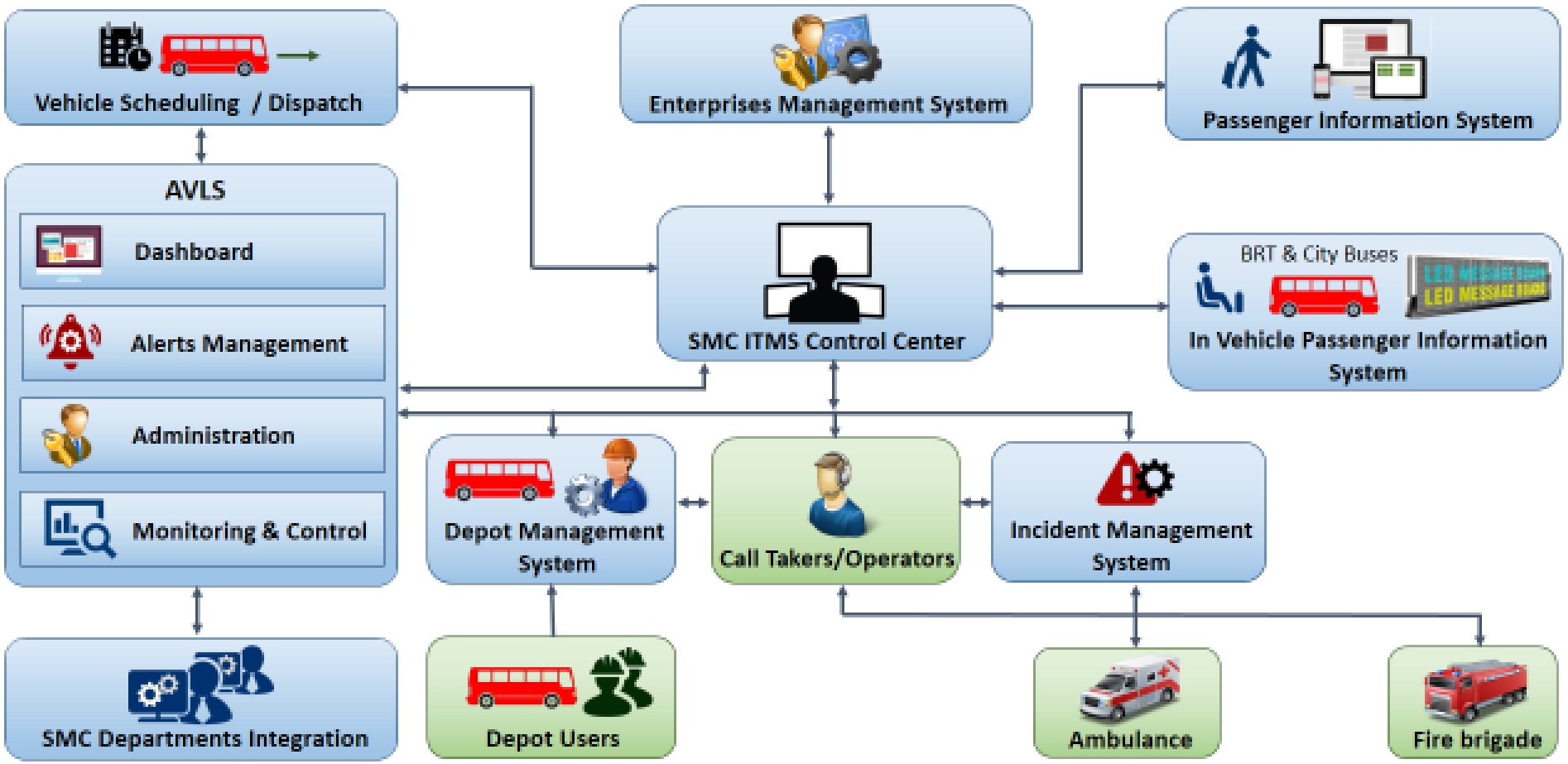
Hardware

- 153 BRTS stations
- 275 City Buses
- 166 BRTS Buses
- 6 Depots
- **535 Department Vehicles**
- **50 Emergency Vehicles**

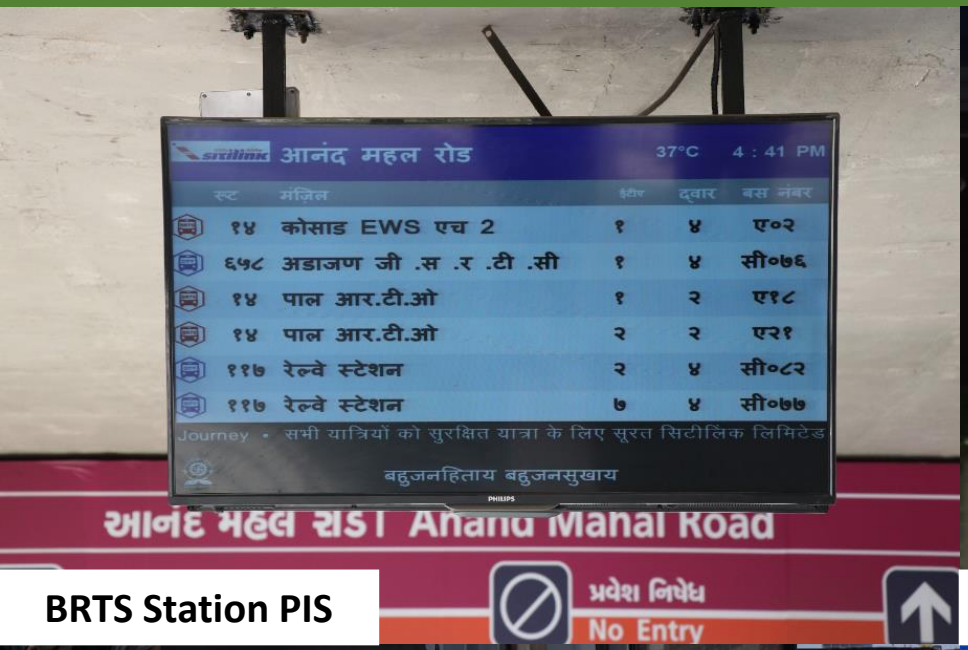
Software

- AVLS
- DMS
- EMS
- Website
- VPS
- IMS
- PIS
- Helpdesk

ITMS Flow Diagram



ITS Component – ITMS in Public Transport



BRTS Station PIS

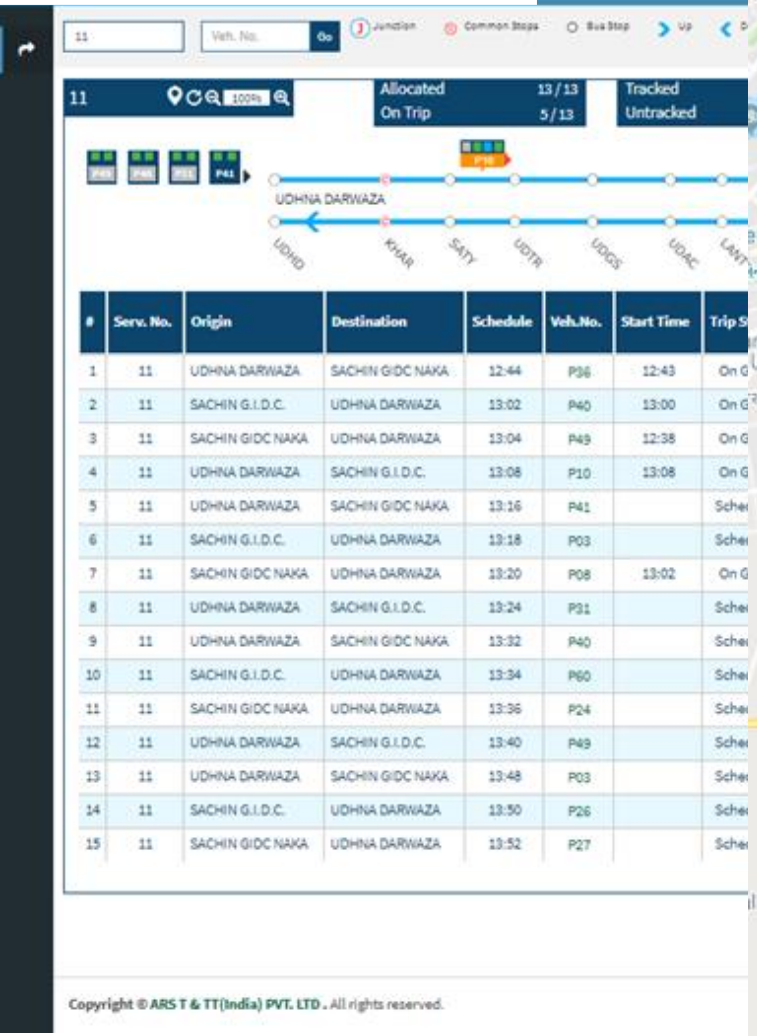
City Bus Shelter PIS

Bus Driver Console

In Bus PIS

ITMS Dashboard

Route Service Line



#	Serv. No.	Origin	Destination	Schedule	Veh.No.	Start Time	Trip S
1	11	UDHNA DARWAZA	SACHIN GIDC NAKA	12:44	P36	12:43	On G
2	11	SACHIN G.I.D.C.	UDHNA DARWAZA	13:02	P40	13:00	On G
3	11	SACHIN GIDC NAKA	UDHNA DARWAZA	13:04	P49	12:38	On G
4	11	UDHNA DARWAZA	SACHIN G.I.D.C.	13:08	P10	13:08	On G
5	11	UDHNA DARWAZA	SACHIN GIDC NAKA	13:16	P41		Sche
6	11	SACHIN G.I.D.C.	UDHNA DARWAZA	13:18	P03		Sche
7	11	SACHIN GIDC NAKA	UDHNA DARWAZA	13:20	P08	13:02	On G
8	11	UDHNA DARWAZA	SACHIN G.I.D.C.	13:24	P31		Sche
9	11	UDHNA DARWAZA	SACHIN GIDC NAKA	13:32	P40		Sche
10	11	SACHIN G.I.D.C.	UDHNA DARWAZA	13:34	P60		Sche
11	11	SACHIN GIDC NAKA	UDHNA DARWAZA	13:36	P24		Sche
12	11	UDHNA DARWAZA	SACHIN G.I.D.C.	13:40	P49		Sche
13	11	SACHIN GIDC NAKA	UDHNA DARWAZA	13:48	P03		Sche
14	11	SACHIN G.I.D.C.	UDHNA DARWAZA	13:50	P26		Sche
15	11	SACHIN GIDC NAKA	UDHNA DARWAZA	13:52	P27		Sche

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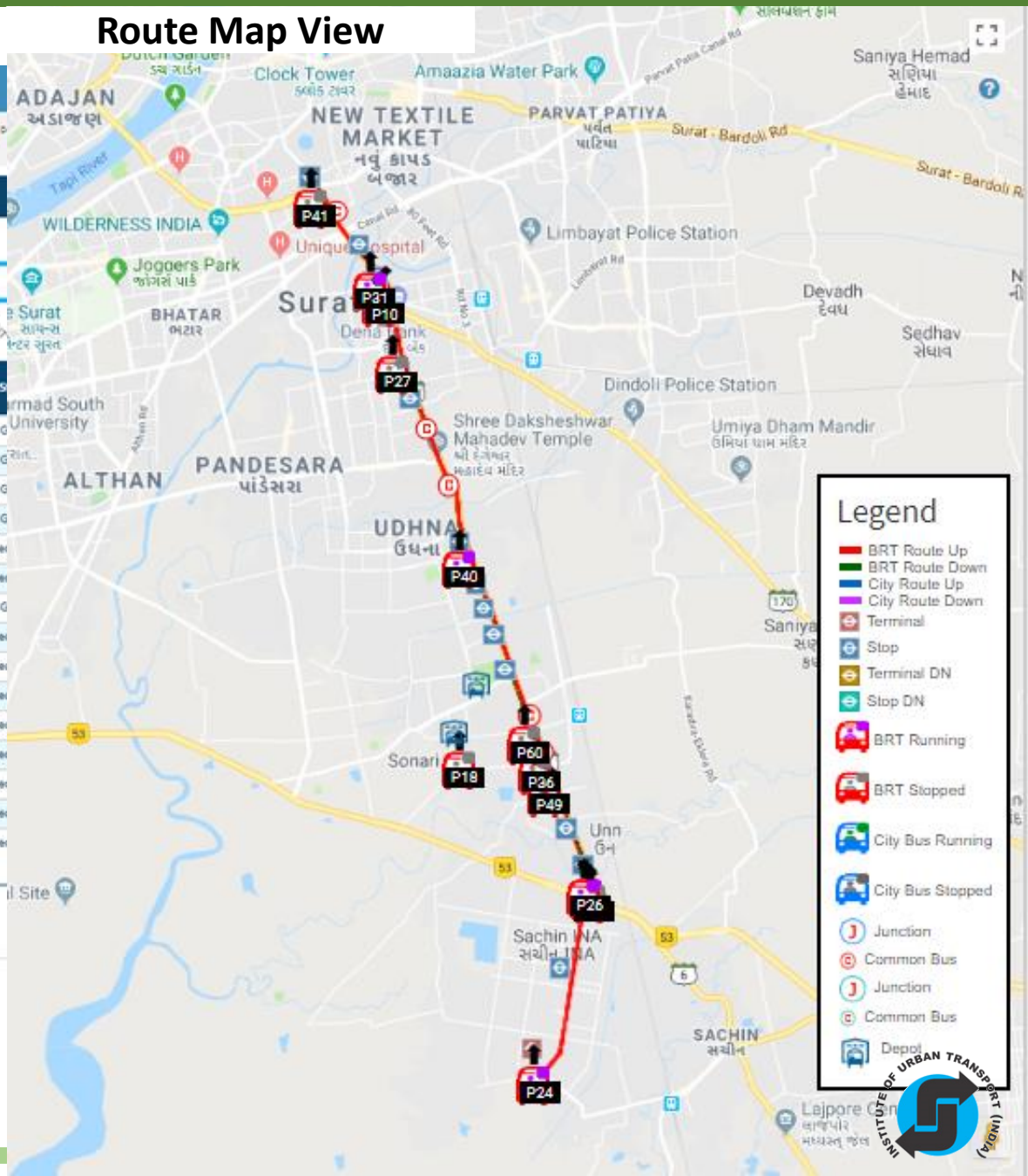
Route Map View



ITMS - Department Vehicles

Surat Municipal Corporation has expanded the scope of ITMS by including department vehicle and emergency vehicles.

BENEFITS

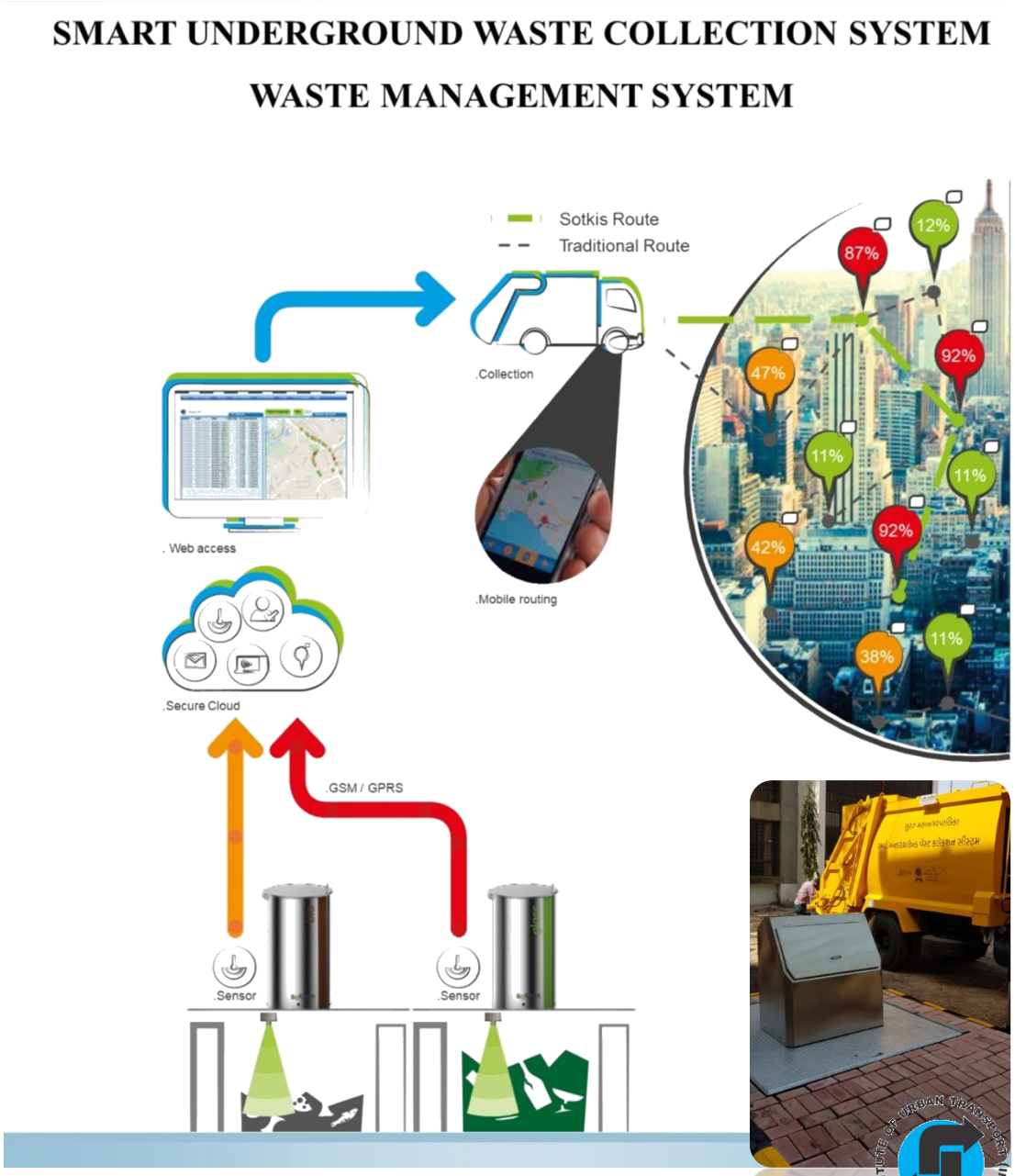
- Real time guidance to Emergency vehicle (Fire and Ambulance) to destination with less traffic and short route
- Optimization in Kilometer and fuel saving
- Better efficiency in using vehicles
- Operator Billing through System

Type of SMC Vehicles	Count
TIPPER TRUCK	109
EXCAVATOR LOADER	58
Jetting machine	28
TRACTOR	26
CESS POOL TANKER	23
WATER TANKER	20
Grab bucket deselting machie	19
Gulper Suction Machine	18
TRUCK (DUAL CABIN)	17
JEEP CAR	16
VIBRATORY COMPCT ROLLER (3.5 TON)	16
4000 Litter Gulper machine	11
LOADER	11
Super Sucker	11
TATA MOBILE	11
WATER TANKER 10000 LTR.	11
1000 Ltr Jetting machine	9
8000 Litter Jetting machine	8
HEAVY LOADER	8
1.4 Cu.M Raod Sweeper machine	7
4 Cu.M Raod Sweeper machine	7
MOBILE-PRACHAR VAN	7
TATA XENON	7
TRUCK	7
3500 Litter Jetting machine	6
TREE MAINTENANCE PLATFORM	6
AMBULANCE	5
ROAD ROLLER	3
VIBRATORY COMPCT ROLLER	3
BUS (MINI)	2
MOBILE MEDICAL VAN	2
TATA ACE	2
TRACKED EXCAVATOR	2
BEAM LIFTER	1
CASH COLLECTING VAN	1
Desiting Bucket Machine	1
DEWEDDER M/C	1
EXCAVATOR LOADER	1
EXCAVATOR LOADER WITH EXTENDING DIPPER	1
FOGGING (JEEP)	1
FOGGING (MOBILE VAN)	1
HEAVY/ WHEEL LOADER	1
MOBILE COURT	1
MOBILE LABORATORY VAN	1
OIL TANKER	1

Use of ITMS for Solid Waste Management

- **SMART DUSTBIN:** SMC has identified 75 container spots which will be upgraded with smart underground dustbins as a pilot project. It includes automatic emptying of underground dustbins and their cleaning.

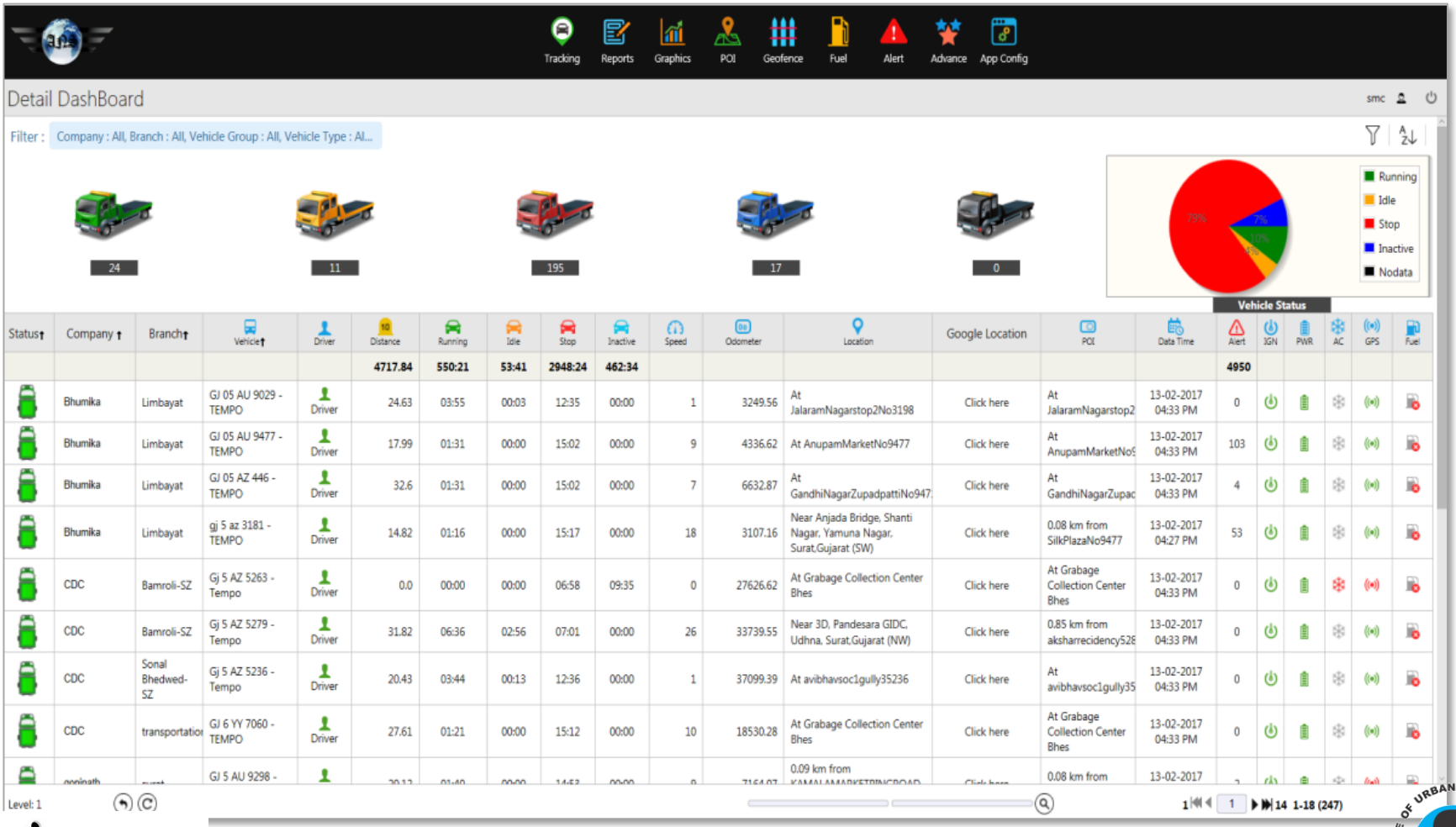
- The ITMS will provide the notification regarding the Bin capacity left and according to that nearest vehicle will be assigned to lift the waste with route. This will optimised the operation and maintenance cost.



Use of ITMS for Solid Waste Management

- ***Door to Door Waste Collection:*** Radio Frequency Identification (RFID) Tag is installed on all Door to Door vehicles. These automatically identify the vehicles at transfer stations and also record their weight automatically, which are monitored at central command center – SMAC Center.

- ITMS helps to reduce cost of operation about 8%.



ARS http://smcitms.in

Summary Report

Zone Name:SMC Workshop

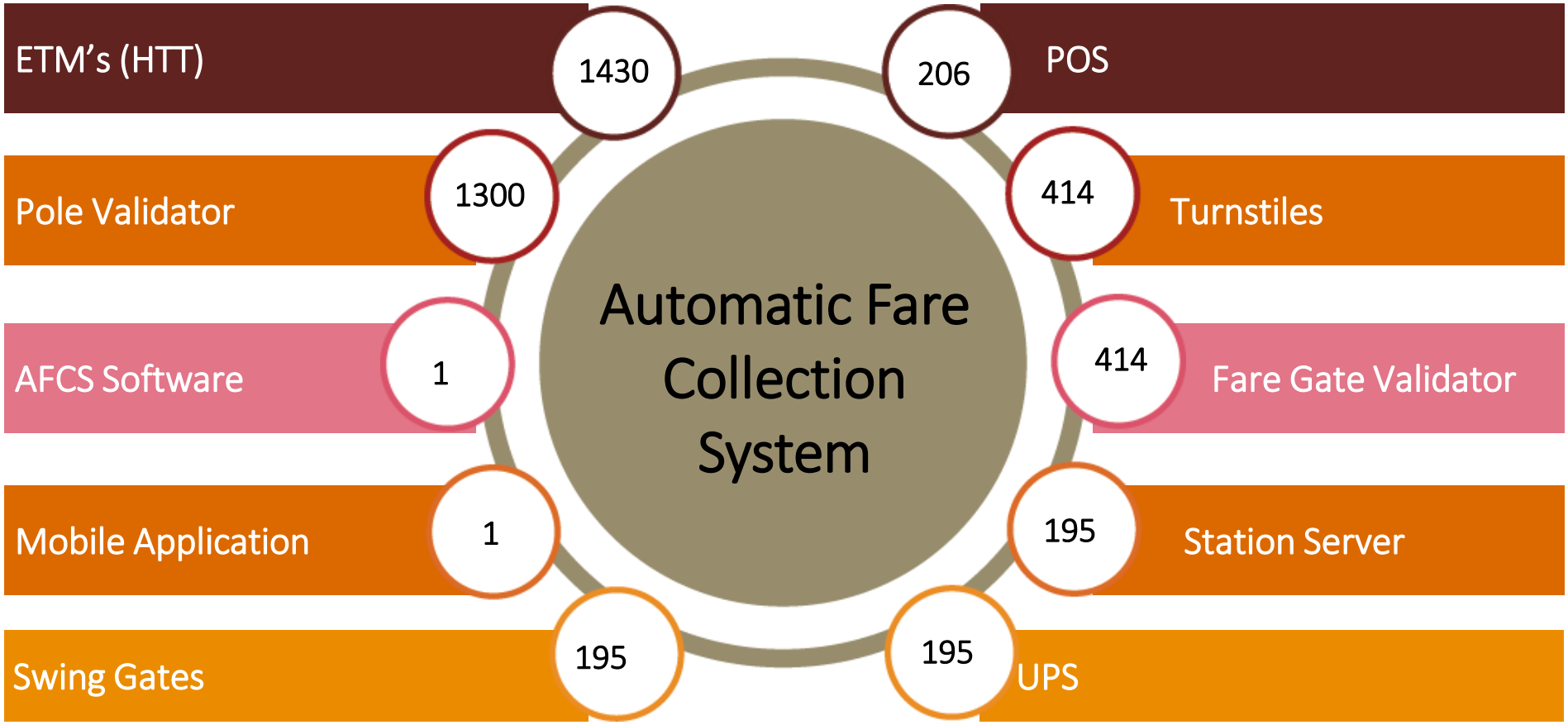
Reporting Period : 1/10/2018 To 1/10/2018

Vehicle Type Summary

Sr No.	Vehicle Type	Total Count	Total Run Vehicle	Run Distance (Km)	Run Time (HH:MM:SS)
Trip Date:30/09/2018 Reporting Period: 30/09/2018 08:00:00 AM to 01/10/2018 07:59:59 AM					
Shift Period: 01/10/2018 06:00:00 AM to 01/10/2018 07:59:59 AM					
1	1.4 Cu.M Raod Sweeper machine	7	0	0.00	00:00:00
2	1000 Ltr Jetting machine	7	1	3.24	00:09:20
3	3500 Litter Jetting machine	6	2	1.74	00:06:19
4	4 Cu.M Raod Sweeper machine	7	0	0.00	00:00:00
5	4000 Litter Gulper machine	11	0	0.00	00:00:00

Department Vehicle Summary

AFCS Scope & Coverage



153 BRTS Station

166 BRTS Buses

275 City Buses

ITS Component - AFCS

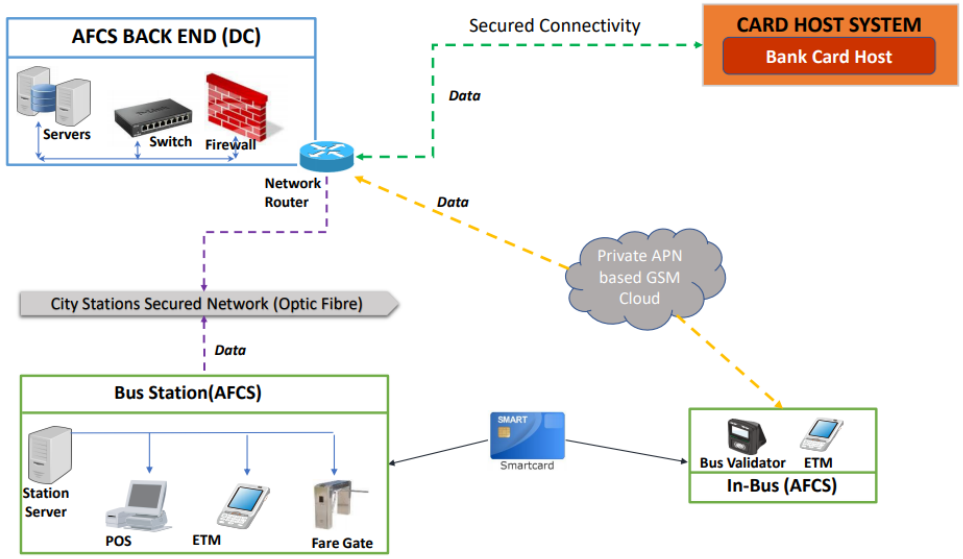
BRTS Station ETM with POS

Turnstile with Fare gate Validator

City Bus Pole Validator

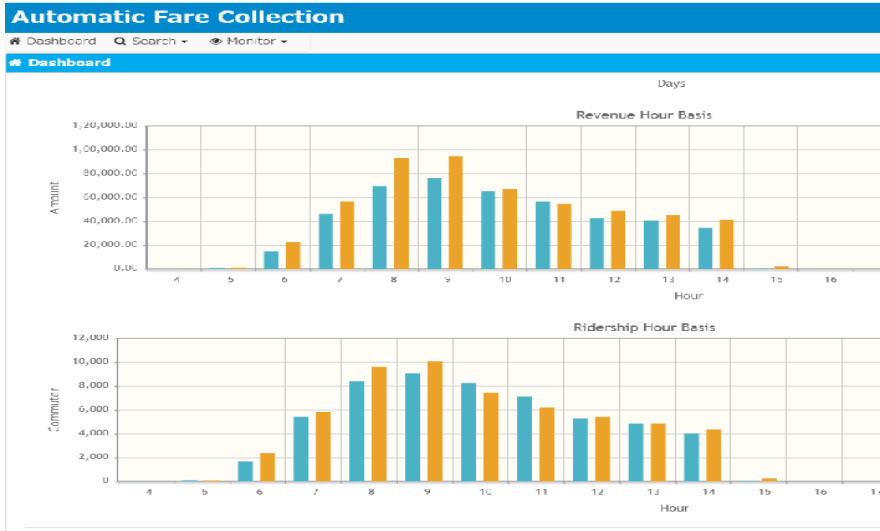
Surat Money Card

AFCS Flow Diagram & Dashboard



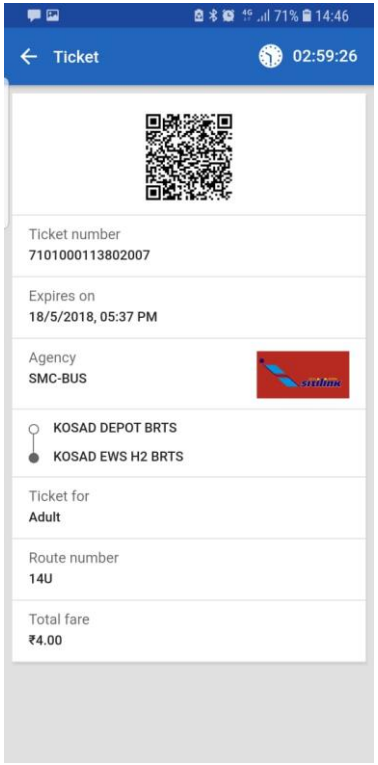
Day basis ridership and revenue

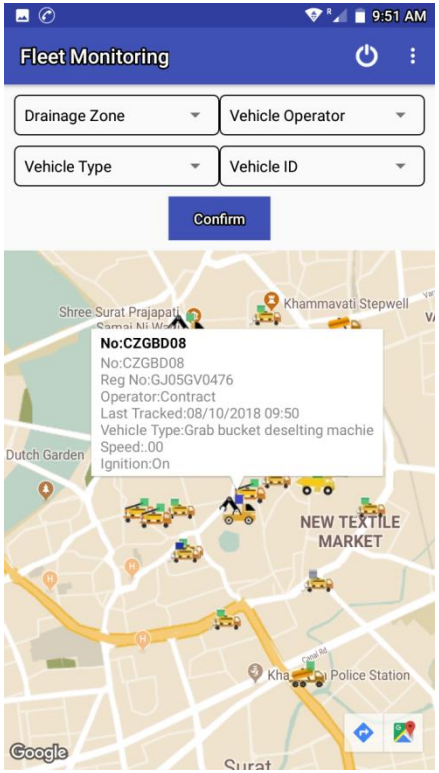
Top/Last 5 Stops and Route – Ridership and Revenue

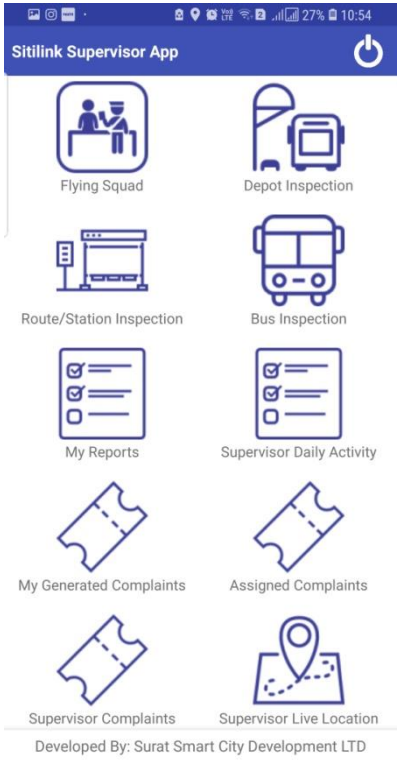


Hour basis Ridership and Revenue

Mobile Application & M Ticketing







Sitilink mobile application offers citizen **to plan their journey in an efficient way**. Surat Sitilink application provides multiple options listed as below:

- Journey Planners
- M-ticketing
- Route and Stops Information
- Route Map

SMC **Department vehicle application** is developed for the real time vehicle tracking and reporting. Also used for the operator billing based on AVLS Data.

Sitilink Supervisor application is developed for Sitilink operations.

Activities at Control Centre (SMAC Centre)

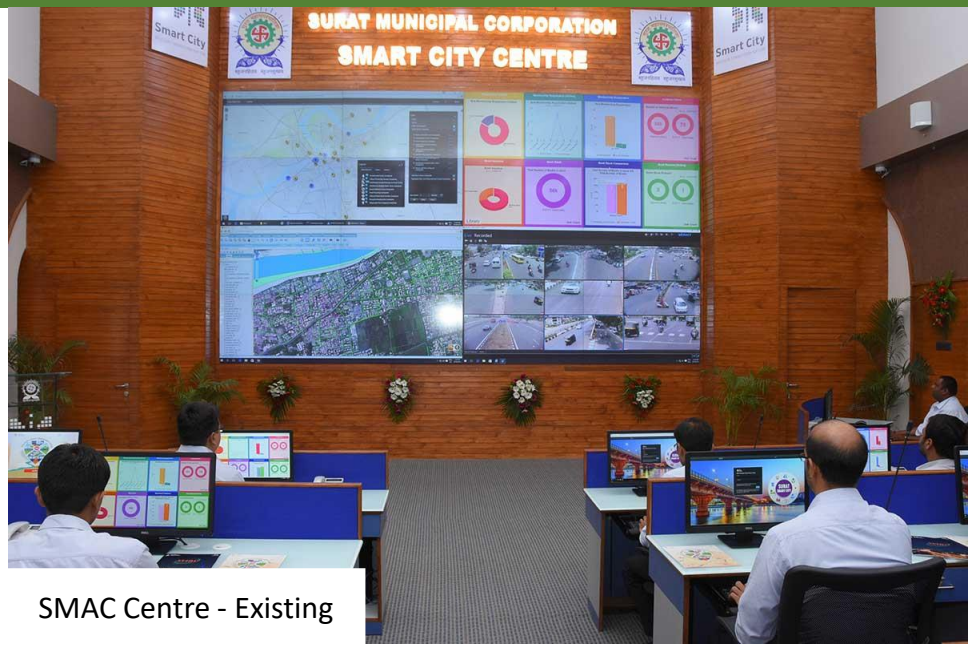
ITMS

- Bus Bunching
- Route violations
- Speed violations
- Non stoppage violation
- Stoppage violation
- Schedule deviation
- Trip not initiated
- Bus Allocation
- Bus Accident & Breakdown Monitoring
- Centralized Push Message
- Two way Communication (BDC to CC)

AFCS

- Management information System (MIS)
- Reporting through Dashboard

Citizen complaint & Incident management system (transit) using toll free number (18002330233) with Interactive voice response system (IVRS) at Control Centre (SMAC Centre)



SMAC Centre - Existing

IT MAC - Proposed

ITS Integration for PT/SMC services

- Integrated Fare (Single ticket to travel in BRTS, City Bus and HMC)
- Integrated Schedules (schedules prepared considering integrated corridors for BRTS, City bus and HMC)
- Passenger Information System(In Bus and Station): Passenger information such as NSI (next stop indicator), Bus estimated time of arrival, etc.
- Passenger Announcement System (PAS)
- General Transit Feed Specification (GTFS – Integration with Google)
- **SMC Department and Emergency vehicles integration**

Use of ITS

- **Bus Station analysis (Peak - off Peak Load)**
- **OD Analysis, Passenger Transfer Analysis**
- **Route wise and Bus wise Conductor analysis to improve the revenue collection**
- **Driver Analysis to improve the reliability**
- **Accident and Breakdown analysis** (Operator wise)
- **Schedule Optimization** (Route direction wise and peak hour wise)
- **Trip and Schedule Adherence Analysis** (Route and Operator wise)
- **Operator wise and Bus wise Schedule Arrival/Departure and Actual Arrival Departure** helps to improve reliability
- **Route Performance Analysis** (Route wise - Ridership, Revenue, vehicle utilization, dead kilometer, revenue kilometer)
- **Interchange Station & Infrastructure requirement** (ETM, Turnstile, Staff, etc. requirement)
- **Guiding Emergency Vehicle (Ambulance and Fire Fighter) for Short and Less traffic route to reach incident point/hospital.**

ITS Project Benefits

CITIZEN

- **Faster Ticket Issuance:**

➓ Shorten payment time for QR ticket.

➓ No need to prepare change for Surat Money Card

➓ Passengers don't need to calculate the fare

➓ Mobile Ticketing

➓Increased reliability and User satisfaction

- **Boarding & alighting complete with one tap for Surat Money Card:**

➓simple & speedy for everyone (barrier free)

IMPROVED OPERATIONS

- **Automatization of fare calculation/collection:**

➓ Highly flexible fare structure

➓ Accurate and strict fare collection

➓ Reduce manual fare collection.

➓ Improve on-time operation by shortening passenger boarding & alighting times

➓ Lower equipment & operation cost by reducing cash handling

➓Single established system across the operators

➓Transit violations monitoring such as speed violation, missed stop violations and rou

➓deviation

SMC/SSCDL

- **Data Driven Decision Making**

- Passenger/origin-destination/sales assisting in better
- Bus services and Frequency planning including last mile connectivity.
- Reduction in personal vehicles with better utilization of Public transport infrastructure
- Aid multi-modal integration

SOCIETY

Shift from private vehicle to public transportation:

reduce traffic congestion

ease air pollution

provide more business opportunities to the

area around public transportation

Surat Money card :

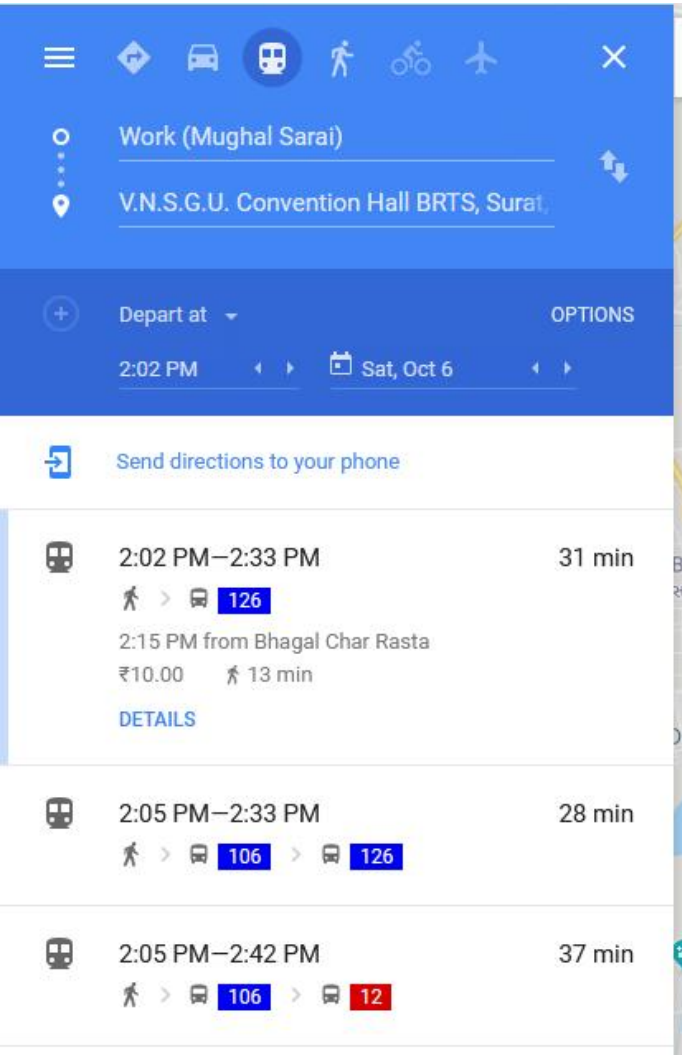
Contribute to environment by reduce paper tickets for AFCS system

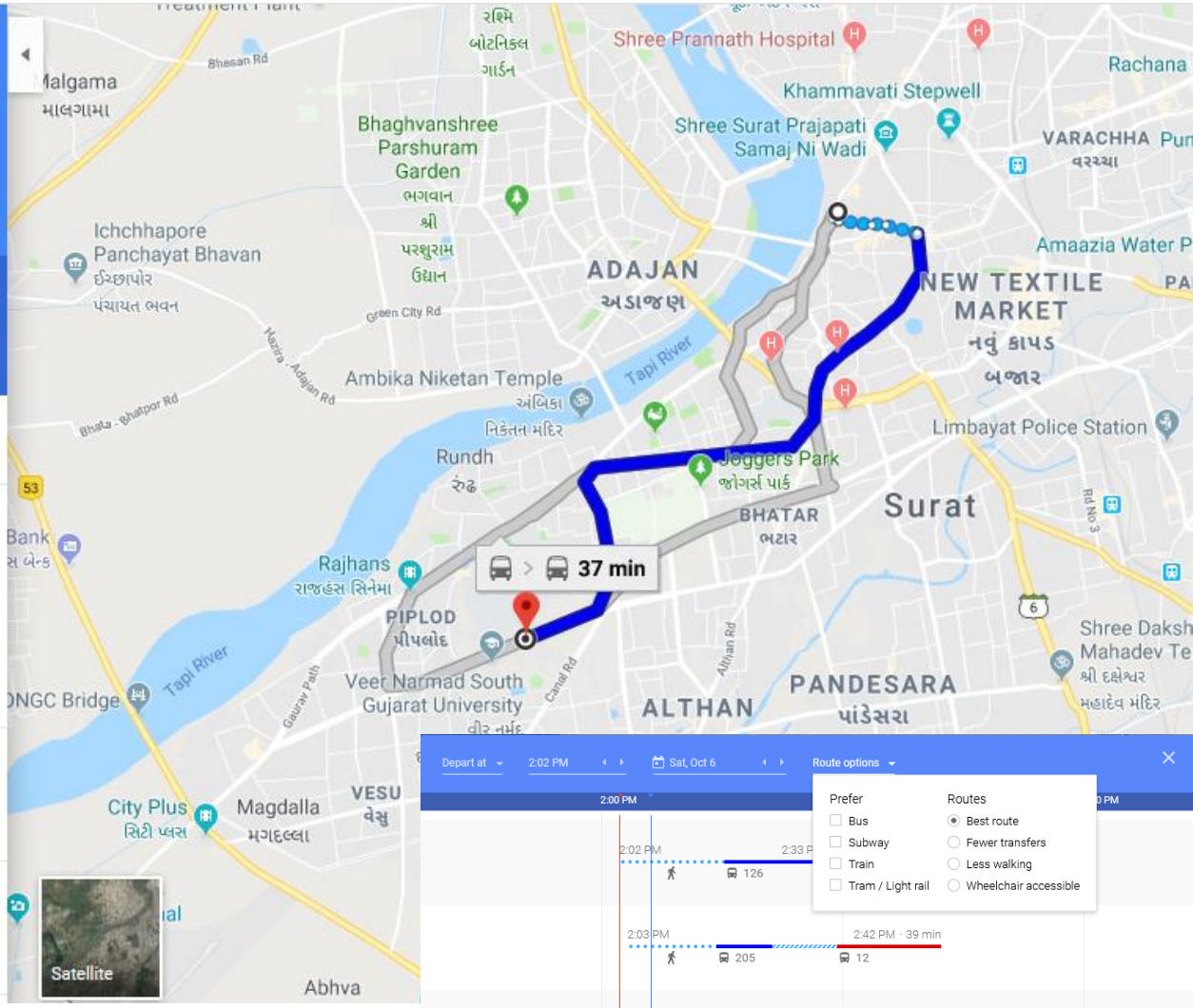
Support other SMC services such as Tax, Library, Swimming Pool etc.

Unique Features

- **Integration of General Transit Feed Specification (GTFS) –** 2nd city to share integrate transit data with Google.
- **Integrated schedules** for BTS, City bus and HMC to increase the reliability and frequency of service.
- **Fare integration** provides single ticket single journey between services.
- **Operator Billing** (Penalties based on violation).
- **Employ Management** (Driver, Conductor verification).
- **Common Card payment** to avail SMC service such as Public transit facilities, Tax, SMC swimming pool, Library, etc.
- **Smart dustbins and Door to Door waste collection project** is integrated with ITS system under Swatch Bharat Mission.
- Integration of **SMC Departmental Vehicle and Emergency vehicle** with ITMS System.

Unique Features





2nd City India to Integrate Public Transport information with Google Maps

Unique Features

ARS http://smcitms.in

"Bus Operation Report"

Operator Name:Adinath

Reporting Period : 1/10/2018 To 1/10/2018

Summary

Operator Name	Total No of Vehicle	No Of Scheduled Trips	No Of Completed Trips	Standard Distance (km)	Dead Km	Total Distance Amount (Rs)	No of Penalties applied for Missed Trips	Total Missed Trip Penalty Amount @0Rs	No of Penalties applied for Route violation *	Total Route Violation Penalty Amount * @0Rs	No of Penalties applied for Non Stoppage Violation *	Total Non Stoppage Penalty Amount * @0Rs	No of penalties applied for Stoppage Violation	Total Stoppage violation Penalty Amount @0Rs	No of penalties applied for Speed Violation *	Total Speed violation Penalty Amount * @0Rs	No of penalties applied for Schedule Deviation	Total Schedule Deviation Penalty Amount @0Rs	No of Penalties applied for Operational violation	Total Operational Violation Penalty Amount (Rs)	Total Penalty (Rs)	Net Payable (Rs)
Adinath	44	487	486	9102.50	396.14	320579.44	1	0.00	27	0.00	55	0.00	0	0	0	0	0	0	0	0.00	0.00	320579.44

By Vehicle

Dispatch No	Vehicle No	No Of Scheduled Trips	No Of Completed Trips	Standard Distance (km)	Dead Km	Amount Per KM	Total Distance Amount (Rs)	No of Penalties applied for Missed Trips	Total Missed Trip Penalty Amount @0Rs	No of Penalties applied for Route violation *	Total Route Violation Penalty Amount * @0Rs	No of Penalties applied for Non Stoppage Violation *	Total Non Stoppage Penalty Amount * @0Rs	No of penalties applied for Stoppage Violation	Total Stoppage violation Penalty Amount @0Rs	No of penalties applied for Speed Violation *	Total Speed violation Penalty Amount * @0Rs	No of penalties applied for Schedule Deviation	Total Schedule Deviation Penalty Amount @0Rs	No of Penalties applied for Operational Violation	Total Operational Violation Penalty Amount Rs.	Total Penalty (Rs)	Net Payable (Rs)
Operator Name:Adinath																							
A01	A01	8	8	123.20	12.6	33.75	4583.25	0	0.00	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	0.00	4583.25
A02	A02	12	12	238.80	2.2	33.75	8133.75	0	0.00	1	0.00	0	0.00	0	0	0	0	0	0	0	0.00	0.00	8133.75
A03	A03	12	12	184.80	25.2	33.75	7087.50	0	0.00	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	0.00	7087.50

Media Coverage

THE TIMES OF INDIA

City commuters to get real-time information on BRTS buses in Surat on Google maps

TNN | Jul 10, 2018, 08.29 PM IST

SURAT: Residents in the diamond city will be able to get real-time information on the arrival of the buses operated by Sitilink on the BRTS routes and arterial routes on the Google maps, making it easier to plan their trips in advance.

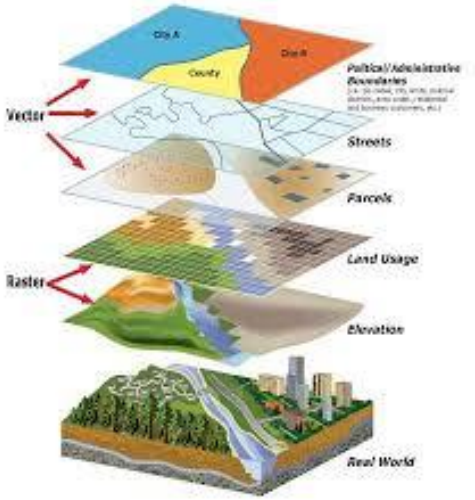
The Surat Smart City Development Limited (SSCDL) has teamed up with Google to provide easy access to the arrivals and departures of the Sitilink buses through Google Maps.

The commuters will have to type the two locations in the Google maps to get the information about the buses running on the routes and their time of arrival. Google transit will automatically update the times in line with the new conditions. The arrival times based on real-time information will be marked in green or red on Google maps.

Futuristic Plan

- GIS Layers integration
- Ticket vending Machines
- Third Party Wallet and UPI Integration
- Bus Station and In bus CCTV cameras
- Bus Civic Amenities at Interchange Station
- Emergency Service Integration (Ambulance, Fire, etc.)
- Integration with ITCS
- Integration with third party cab services (Ola, Uber, etc.)
- Integration with SMC initiative - Pink Auto

Ticket Vending Machine



GIS Layer Integration

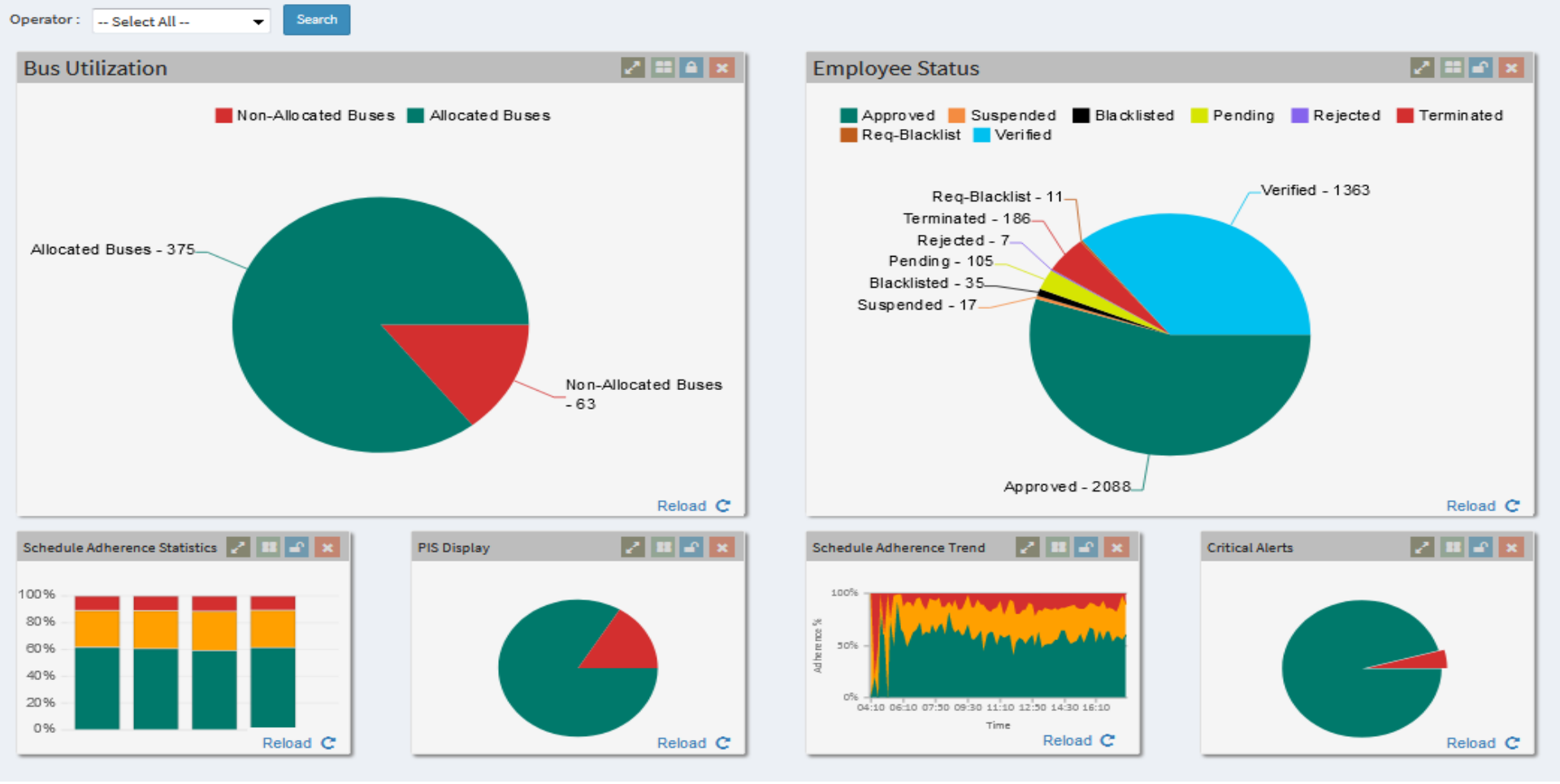
CCTV Camera in Bus

THANK YOU

Presented by

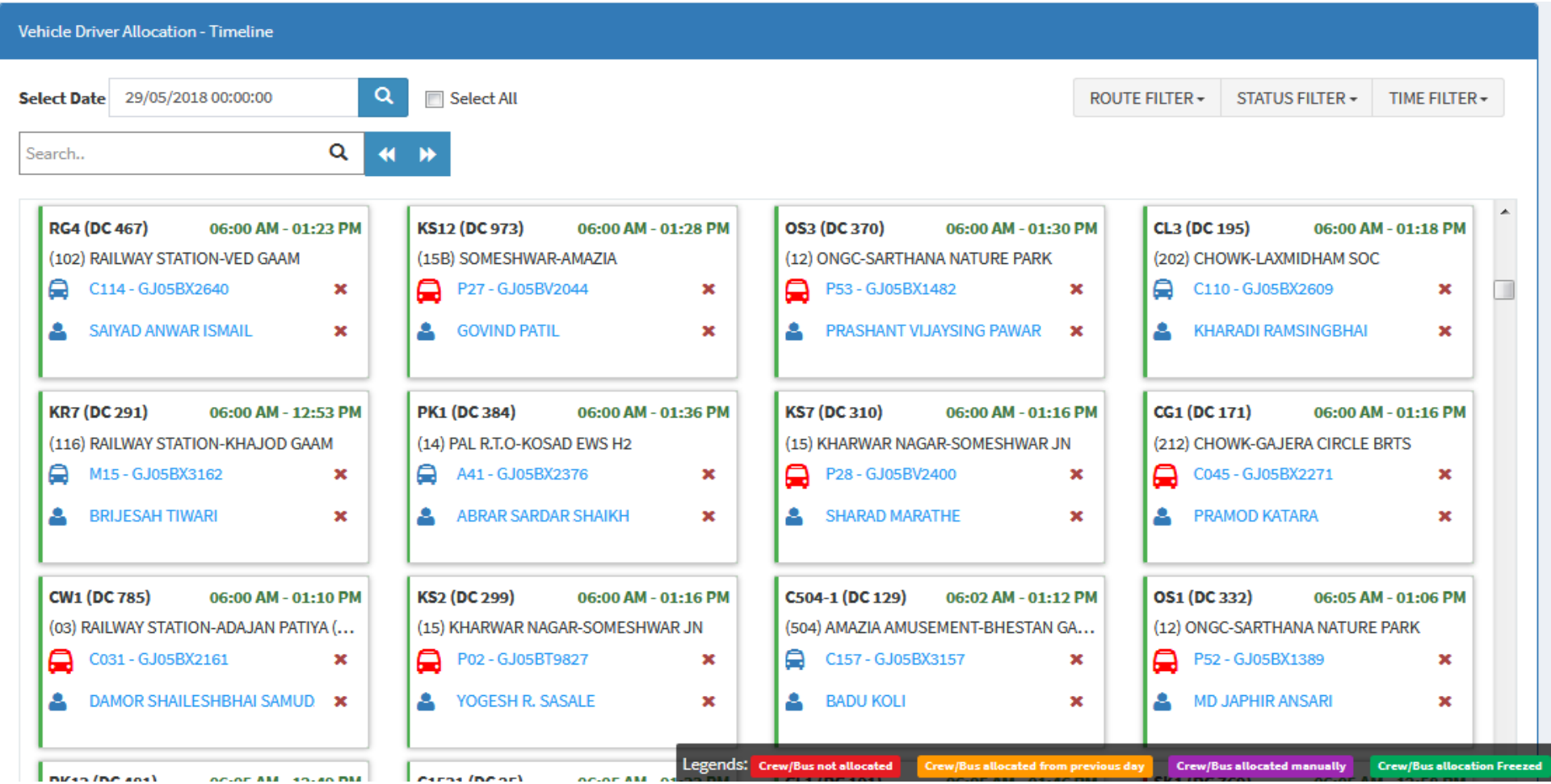
Dr Rajesh J Pandya
Deputy Municipal Commissioner
Surat Municipal Corporation

AVLS - Dashboard



- Vehicle Utilization
- Employee status
- Trip and Schedule adherence status
- Critical alerts
- Upcoming Schedules for BRT and City bus.
- PIS displays
- Vehicle statistics
- Operational Violations
- Others

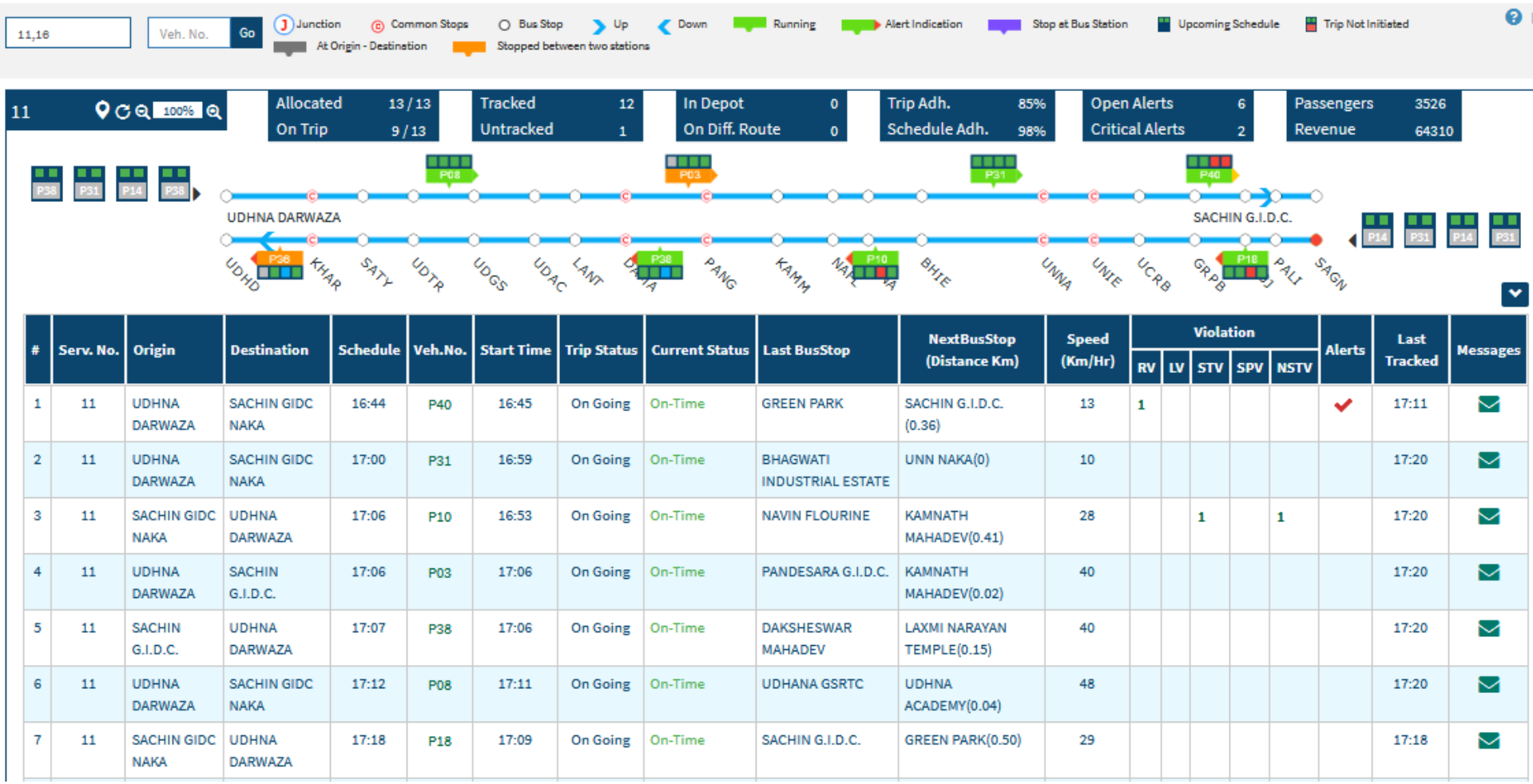
DMS – Depot Management System



Vehicle and Driver allocation

- Early morning operations begins with Actual vehicle and Driver allocation on respective virtual vehicles.
- This activity is carried out the bus operators.

Service Line



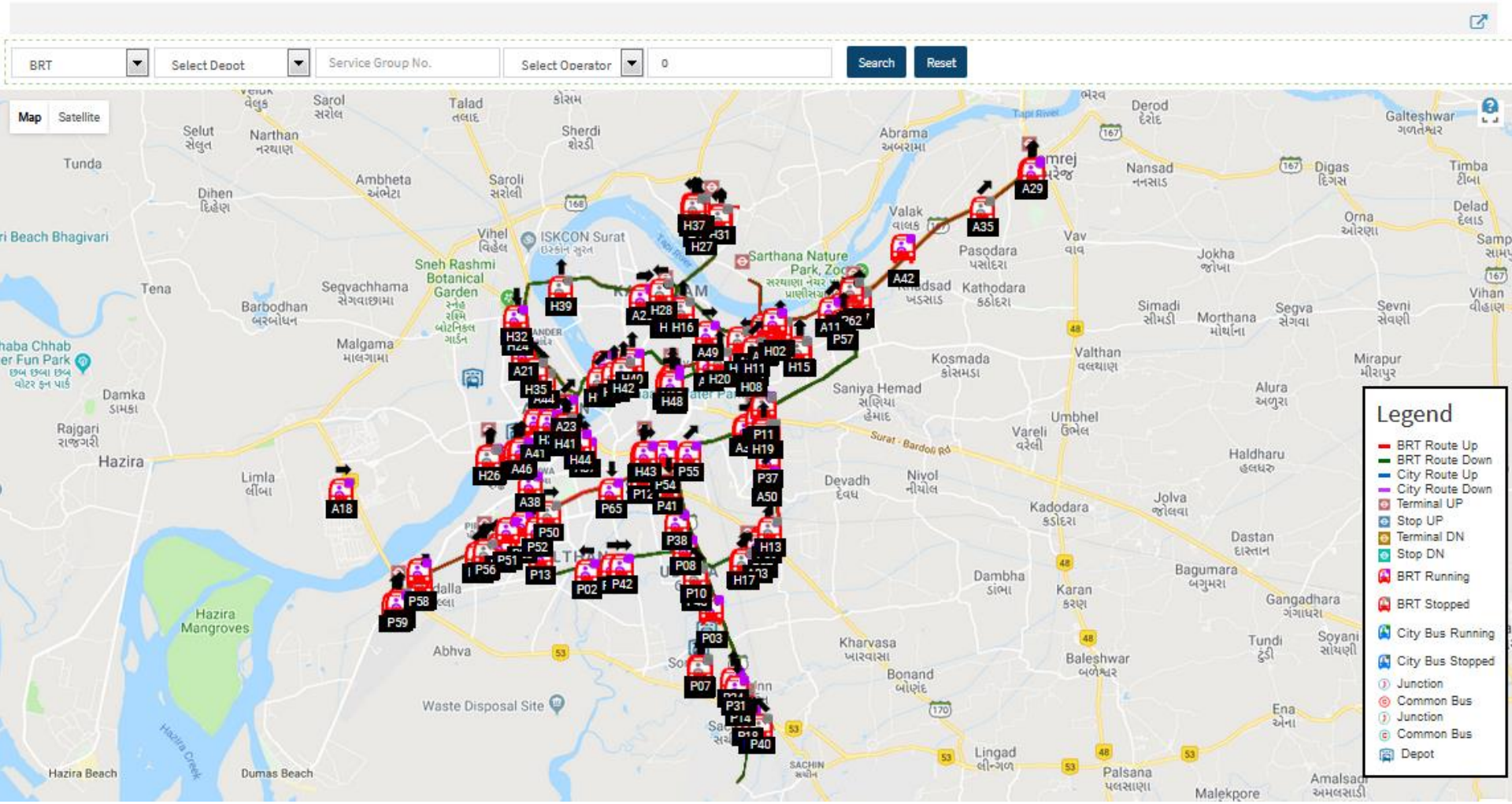
#	Serv. No.	Origin	Destination	Schedule	Veh.No.	Start Time	Trip Status	Current Status	Last BusStop	NextBusStop (Distance Km)	Speed (Km/Hr)	Violation					Alerts	Last Tracked	Messages
												RV	LV	STV	SPV	NSTV			
1	11	UDHNA DARWAZA	SACHIN GIDC NAKA	16:44	P40	16:45	On Going	On-Time	GREEN PARK	SACHIN G.I.D.C. (0.36)	13	1					✔	17:11	
2	11	UDHNA DARWAZA	SACHIN GIDC NAKA	17:00	P31	16:59	On Going	On-Time	BHAGWATI INDUSTRIAL ESTATE	UNN NAKA(0)	10							17:20	
3	11	SACHIN GIDC NAKA	UDHNA DARWAZA	17:06	P10	16:53	On Going	On-Time	NAVIN FLOURINE	KAMNATH MAHADEV(0.41)	28			1		1		17:20	
4	11	UDHNA DARWAZA	SACHIN G.I.D.C.	17:06	P03	17:06	On Going	On-Time	PANDESARA G.I.D.C.	KAMNATH MAHADEV(0.02)	40							17:20	
5	11	SACHIN G.I.D.C.	UDHNA DARWAZA	17:07	P38	17:06	On Going	On-Time	DAKSHESWAR MAHADEV	LAXMI NARAYAN TEMPLE(0.15)	40							17:20	
6	11	UDHNA DARWAZA	SACHIN GIDC NAKA	17:12	P08	17:11	On Going	On-Time	UDHANA GSRTC	UDHNA ACADEMY(0.04)	48							17:20	
7	11	SACHIN GIDC NAKA	UDHNA DARWAZA	17:18	P18	17:09	On Going	On-Time	SACHIN G.I.D.C.	GREEN PARK(0.50)	29							17:18	

Real time position of Vehicles could be located through Service line

Alerts for violations like:

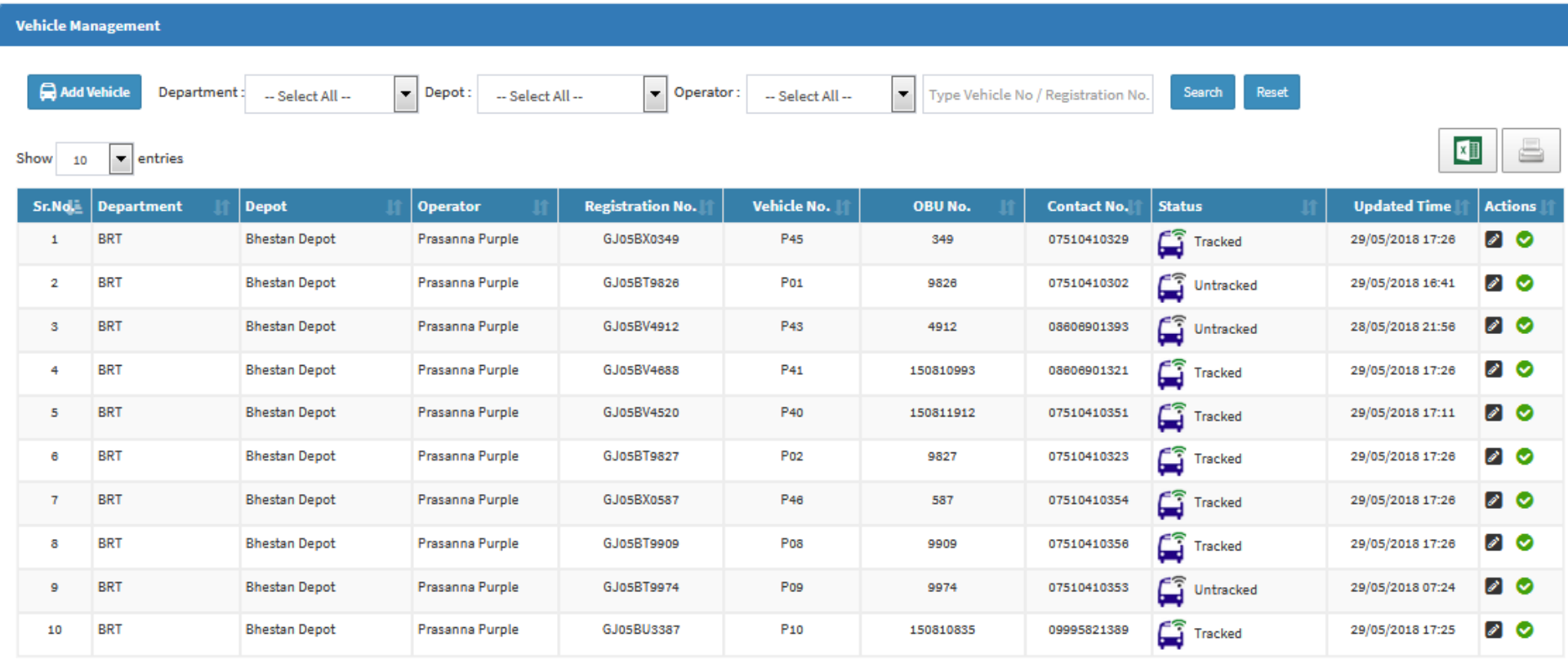
- Route Violation
- Speed Violation
- Stoppage violation
- Non- Stoppage violation
- Schedule deviation

Track All Vehicles



- All the vehicles and their real time position could be known by this screen.
- Sort filters are available for Department, Bus depots, Route no. and Operator.

Vehicle Management



Sr.No.	Department	Depot	Operator	Registration No.	Vehicle No.	OBU No.	Contact No.	Status	Updated Time	Actions
1	BRT	Bhestan Depot	Prasanna Purple	GJ05BX0349	P45	349	07510410329	Tracked	29/05/2018 17:26	
2	BRT	Bhestan Depot	Prasanna Purple	GJ05BT9826	P01	9826	07510410302	Untracked	29/05/2018 16:41	
3	BRT	Bhestan Depot	Prasanna Purple	GJ05BV4912	P43	4912	08606901393	Untracked	28/05/2018 21:56	
4	BRT	Bhestan Depot	Prasanna Purple	GJ05BV4688	P41	150810993	08606901321	Tracked	29/05/2018 17:26	
5	BRT	Bhestan Depot	Prasanna Purple	GJ05BV4520	P40	150811912	07510410351	Tracked	29/05/2018 17:11	
6	BRT	Bhestan Depot	Prasanna Purple	GJ05BT9827	P02	9827	07510410323	Tracked	29/05/2018 17:26	
7	BRT	Bhestan Depot	Prasanna Purple	GJ05BX0587	P46	587	07510410354	Tracked	29/05/2018 17:26	
8	BRT	Bhestan Depot	Prasanna Purple	GJ05BT9909	P08	9909	07510410356	Tracked	29/05/2018 17:26	
9	BRT	Bhestan Depot	Prasanna Purple	GJ05BT9974	P09	9974	07510410353	Untracked	29/05/2018 07:24	
10	BRT	Bhestan Depot	Prasanna Purple	GJ05BU3387	P10	150810835	09995821389	Tracked	29/05/2018 17:25	

- To know the tracking status of all vehicles
- Last tracking time

Operator Reconciliation

ARS http://smcitms.in

"Bus Operation Report"

Operator Name:Adinath

Reporting Period : 1/10/2018 To 1/10/2018

Summary

Operator Name	Total No of Vehicle	No Of Scheduled Trips	No Of Completed Trips	Standard Distance (km)	Dead Km	Total Distance Amount (Rs)	No of Penalties applied for Missed Trips	Total Missed Trip Penalty Amount @0Rs	No of Penalties applied for Route violation *	Total Route Violation Penalty Amount * @0Rs	No of Penalties applied for Non Stoppage Violation *	Total Non Stoppage Penalty Amount * @0Rs	No of penalties applied for Stoppage Violation	Total Stoppage violation Penalty Amount @0Rs	No of penalties applied for Speed Violation *	Total Speed violation Penalty Amount * @0Rs	No of penalties applied for Schedule Deviation	Total Schedule Deviation Penalty Amount @0Rs	No of Penalties applied for Operational violation	Total Operational Violation Penalty Amount (Rs)	Total Penalty (Rs)	Net Payable (Rs)
Adinath	44	487	486	9102.50	396.14	320579.44	1	0.00	27	0.00	55	0.00	0	0	0	0	0	0	0	0.00	0.00	320579.44

By Vehicle

Dispatch No	Vehicle No	No Of Scheduled Trips	No Of Completed Trips	Standard Distance (km)	Dead Km	Amount Per KM	Total Distance Amount (Rs)	No of Penalties applied for Missed Trips	Total Missed Trip Penalty Amount @0Rs	No of Penalties applied for Route violation *	Total Route Violation Penalty Amount * @0Rs	No of Penalties applied for Non Stoppage Violation *	Total Non Stoppage Penalty Amount * @0Rs	No of penalties applied for Stoppage Violation	Total Stoppage violation Penalty Amount @0Rs	No of penalties applied for Speed Violation *	Total Speed violation Penalty Amount * @0Rs	No of penalties applied for Schedule Deviation	Total Schedule Deviation Penalty Amount @0Rs	No of Penalties applied for Operational Violation	Total Operational Violation Penalty Amount Rs.	Total Penalty (Rs)	Net Payable (Rs)
Operator Name:Adinath																							
A01	A01	8	8	123.20	12.6	33.75	4583.25	0	0.00	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	0.00	4583.25
A02	A02	12	12	238.80	2.2	33.75	8133.75	0	0.00	1	0.00	0	0.00	0	0	0	0	0	0	0	0.00	0.00	8133.75
A03	A03	12	12	184.80	25.2	33.75	7087.50	0	0.00	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	0.00	7087.50

Trip Statistics

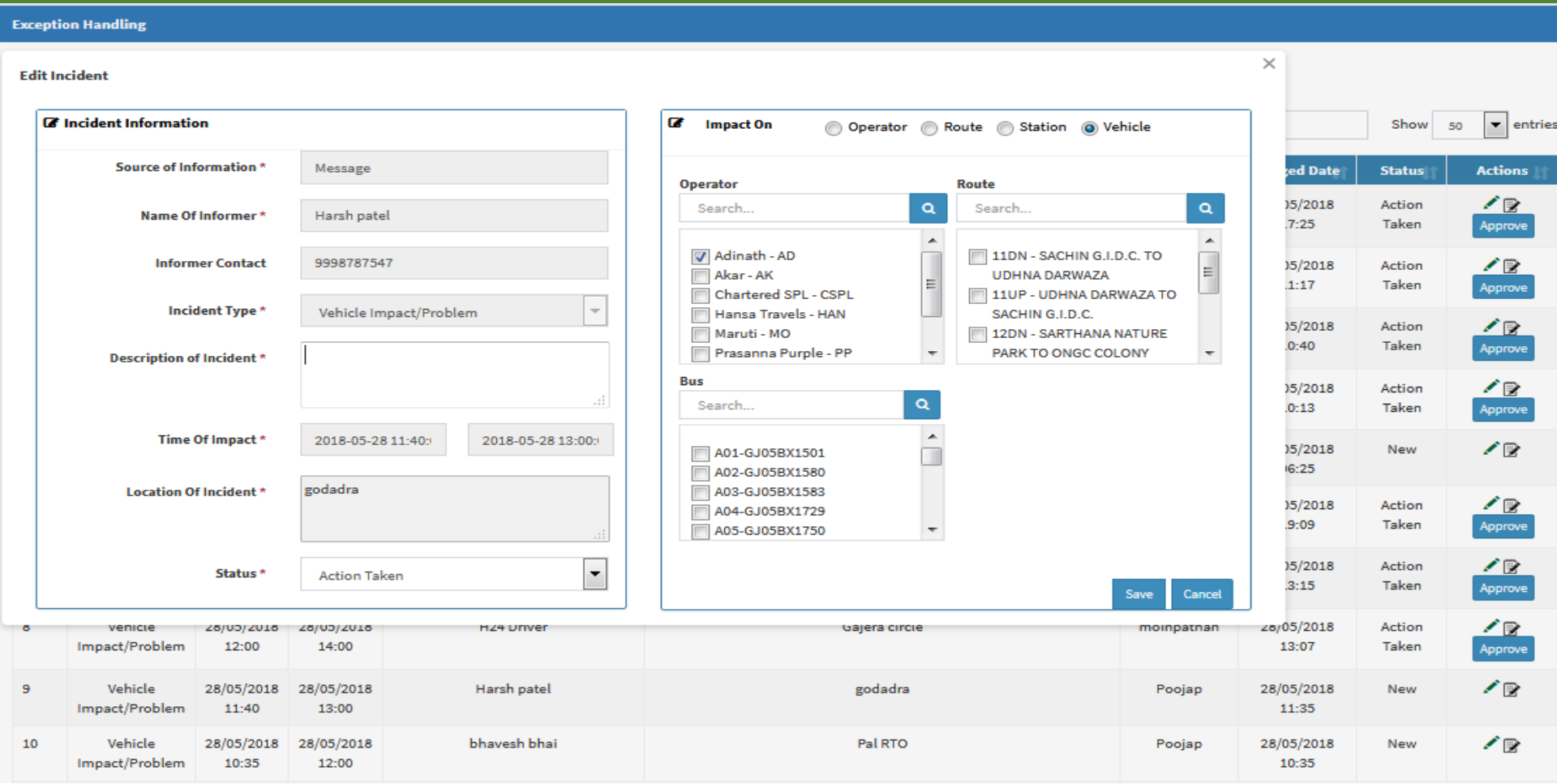
Trip Statistics

Department: --All-- | Group By: Operator | Date: 29/05/2018 | Search | Reset

Code	Group	Planned		Allocated		Operational							Vehicles				
		Schedules	Vehicles	Schedules	Vehicles	Schedules	Realized	On Trip	Missed	Deviation	Trip %	Schedule %	On Road	In Operation	In Depot	Tracked	Untracked
	Summary	5731	375	5731	375	4226	3229	257	740	442	82	87	375	279	0	250	29
001	Prasanna Purple	817	55	817	55	591	469	40	82	17	86	96	55	41	0	35	6
002	Adinath	502	43	502	43	375	310	32	33	18	91	94	43	32	0	30	2
003	Chartered SPL	2865	179	2865	179	2107	1574	115	418	269	80	84	179	133	0	120	13
005	Maruti	1100	69	1100	69	817	685	52	80	105	90	85	69	50	0	46	4
018	Hansa Travels	447	29	447	29	336	191	18	127	33	62	84	29	23	0	19	4

- Planned and allocated schedule information
- On road, In depot vehicles
- Realized schedules, Missed schedules, Deviated trips
- Schedule adherence and Trip adherence

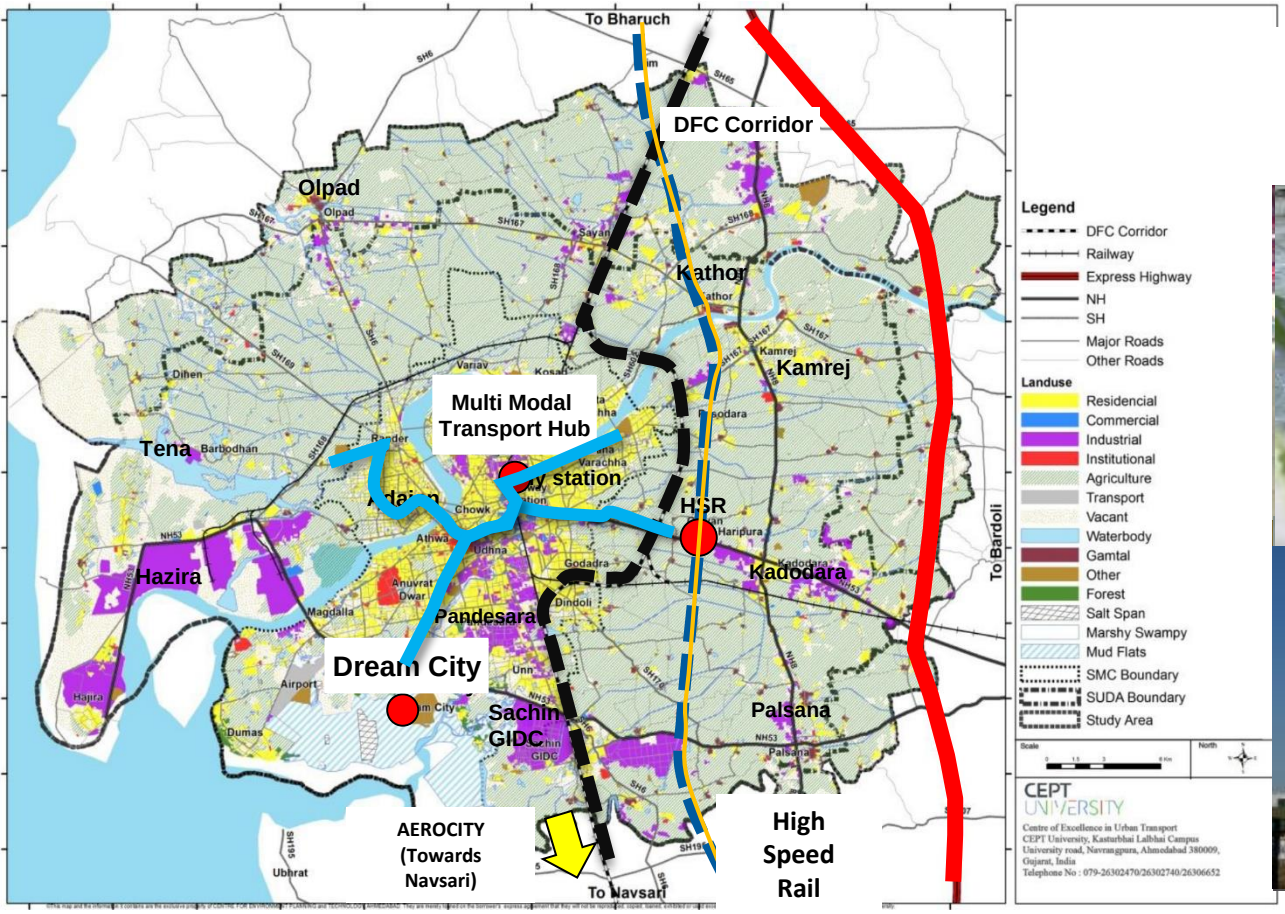
Incident Management System



8	Vehicle Impact/Problem	28/05/2018 12:00	28/05/2018 14:00	H24 Driver	Gajera circle	Mohnpathan	28/05/2018 13:07	Action Taken
9	Vehicle Impact/Problem	28/05/2018 11:40	28/05/2018 13:00	Harsh patel	godadra	Poojap	28/05/2018 11:35	New
10	Vehicle Impact/Problem	28/05/2018 10:35	28/05/2018 12:00	bhavesh bhai	Pal RTO	Poojap	28/05/2018 10:35	New

- To Log the incidents as per Live observations.
- Any exemptions in case of Traffic, Route diversion, Riots or any other case which would have an impact on Operations.

FUTURE DEVELOPMENT/PROPOSALS - SUDA DP 2035



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