

"Smart Mobility - Leveraging ICT & Geo- Technologies "

Gopal Valecha AVP – IT (BD)



Delhi Integrated Multi-modal Transit System Limited Joint Venture of Govt. of NCT of Delhi and IDFC Foundation

An ISO 9001, 14001, OHSAS 18001, ISO 27001 & CMMI L3 Certified Company

DIMTS Overview

DIMTS is a 50:50 Joint Venture of

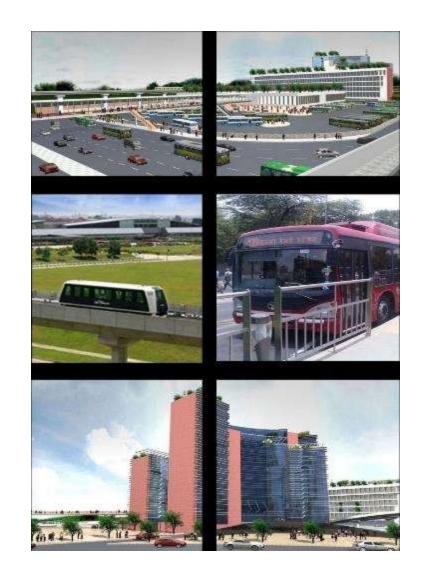
Government of National Capital Territory of Delhi (GNCTD) &

Infrastructure Development Finance Company Ltd. (IDFC; USD 10 billion assets under management; power, highways, ports, etc.)

Chief Secretary of Government of National Capital Territory of Delhi is the chairman of the company

Vision

To create an environment where the majority of trips take place by public transport in preference to personal motorized transport





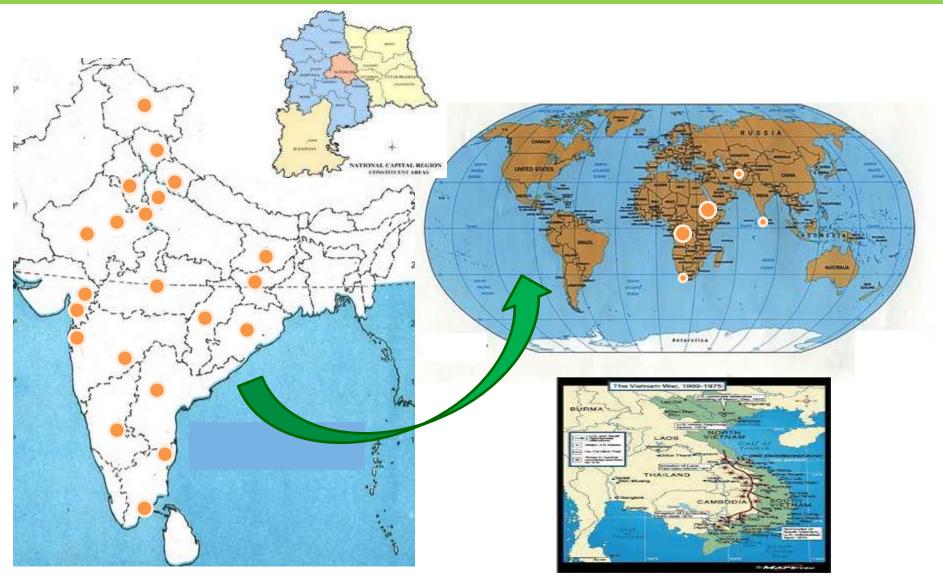
About DIMTS

A Value Proposition





Areas and Geographies



Projects and clients across 17 states in India and 5 countries



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DIMTS – in Numbers





1,500 Buses



40 + Make

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Particulars not to be used as Residence Proof



12,00,000 Vehicle Registration

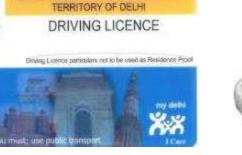


GOVERNMENT OF NATIONAL CAPITAL

License

400 + Water Tankers

80 GB Data /Day



38,00,000 Smart Card 1500 ETMs





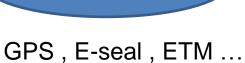
900,000 E-Tickets



Any Mode – Any Device – Any Vendor



(Cargo – Surface, Sea | Passenger| Paratransit)









Urban Transport - Need of the hour : Operations Perspective

Is any of the bus Where are the over-speeding? buses?? Has there been any accident? 1 1 1 2 2 1 ional Network Control Cen \bigcirc Trains Scotland Have any of the buses missed any schedule/ stops? Reliable, safe and presentable service to citizens Revenue leakages

Are all the buses operating as per schedule?

Are there any breakdowns?



plugged through use of

Methodical planning of

electronic ticketing

routes

Fleet Management Systems: A V L S

GPS based Automatic Vehicle Location (AVL) System has been deployed on all the

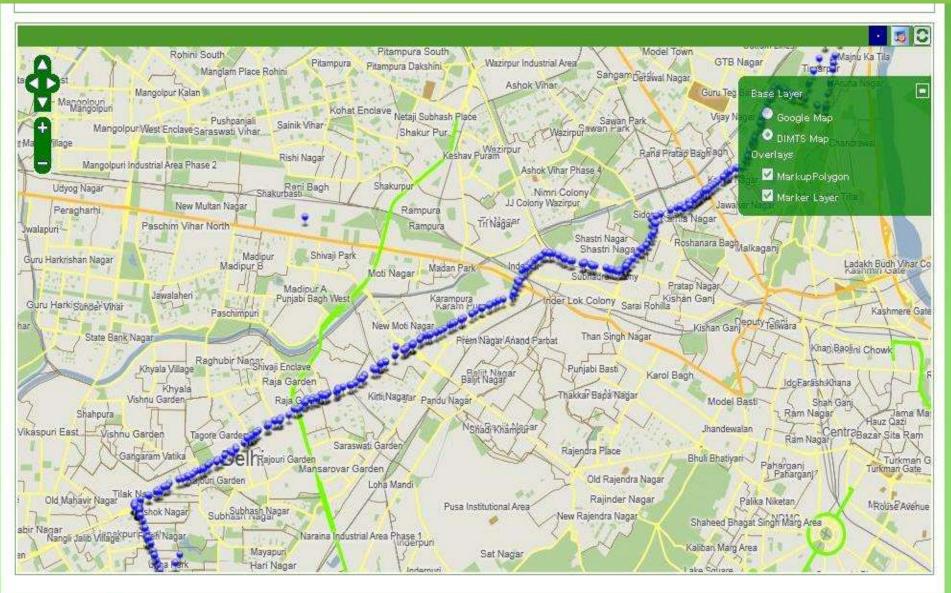
buses. System is being used to monitor operations of the fleet

Alerts Dashboard manages alerts and responds to deviation/violations

- Over-speeding reports
- Depot, vehicle and route wise reports
- Missed stops reports
- Route deviation reports
- Trip status reports (Cut/Short/Missed)
- Distance travelled



Fleet Management Systems: A V L S





DIMTS

Electronic Ticketing System

DIMTS has deployed New Generation Electronic Ticketing Machines (ETMs)

- Real Time data transfer through GPRS
- Smart Card Enabled
- Over the air configuration & update of master data, configuration data and application





Backend System enables:

- E-mail of Operation & Revenue parameters to key stakeholders
- Performance analysis Route-wise, Conductor-wise
- Display heath status of the field devices to take proactive action
- Day-end revenue reconciliation



Solution in Action : PIS (Public Information System)





Para Transit

- Real-time tracking of > 80,000 Vehicles
- Autos fitted with GPS integrated EFMs
- Complete Trip tracking with fare meter data
- MIS reporting to the Transport Department
- Pooch-o Auto booking mobile application for Public

GPS integrated EFM are approved by Dept. of Legal Metrology (Weights & Measures) with the following features :

- GPS / GPRS integrated EFM with position update at 10 sec interval
- Printer for printing fare receipt
- Display screen to show fare and distance as well as status of integrated device , Customizable buttons for trip start/stop
- Panic Button
- tampering alert to prevent tampering of integrated meters
- Device installed and maintained by empanelled vendors







Intelligent Signaling System – Ahmedabad

- DIMTS has been nominated for restoration & repair works of 186 signalised intersections and up-gradation of Control Room with remote monitoring, in a phased manner, for Ahmedabad Municipal corporation
- Based on DIMTS performance, Ahmedabad Municipal Corporation has renewed O&M contract by 3 more years - up to Octo 2018





- ISS Ahmedabad includes
 - 186 Signalised Intersections
 - Adaptive Signal Controller
 - LED Signal Heads
 - Vehicle detection cameras
 - MPLS-VPN leased line
 - Operations Control Center
 - CoSiCoSt ATCS software
 - Operations & Maintenance of Signalised intersections
 - Maintenance contract Data 386 Jns renewed till 2018

Intelligent Signaling System – Ahmedabad

AREA TRAFFIC CONTROL SYSTE	M. AHM	EDABAI	D	GINTS '
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AHMEDABAD			ICT - Intersection Cy	cie Time Ct
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	2	18	18	15
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= =	4	15	34	
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Intelligent Signaling System – Surat

- In Jan 2014, DIMTS was awarded the contract for Development, Supply, Installation & Maintenance of Area Traffic Control System(ATCS) at 52 Junctions on BRTS corridor in Surat City
- DIMTS will Operate & Maintain these Junctions for 6 years.



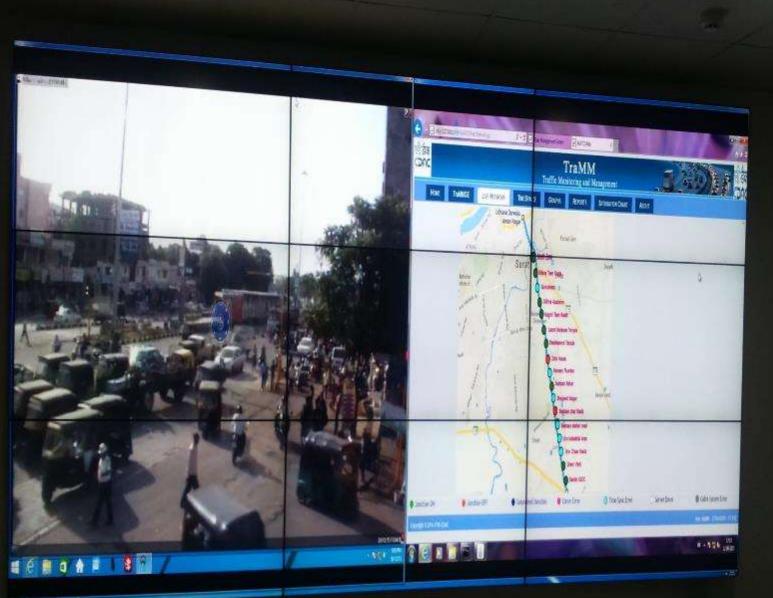


- ISS Surat includes
 - 52 Signalised Intersections
 - adaptive Wireless Traffic Signal Controller,
 - LED Signal Heads,
 - Vehicle detection cameras,
 - OFC for 24x7 communication
 - Operation Control Center(OCC),
 - CoSiCoSt application software
 - TraMM Application Software

ATCS Control Room – Surat



ATCS Control Room – Surat



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COMMAND & CONTROL CENTER

State-of-the-art Command & Control Center for monitoring of various ITS sub-systems :

- Adaptive Traffic Control System(ATCS)
- CCTV based Junction Surveillance
- Variable Message Signs (VMS)
- Red Light/Speed violation Detection
- Video Incident Detection System
- Parking lot Vacancy Counter
- Automatic Vehicle locator System





AUTOMATED PARKING MANAGEMENT SYSTEM (APMS)





- Operator based Entry/Exit Booth with interface to Arming/Exit Loops, Bar-code printer/reader, Smart-Card Reader, User fare Display, Boom Barrier & ANPR camera for Number plate reading.
- Bar code based token generation at Entry Gate while Bar code token scanning, tariff calculation and Payment receipt generation at Exit Gate
- VMS as part of Parking Guidance system provides vacancy information.
- Availability of Parking slot information upon arrival and proper signage and navigation system, ensures hassle-free parking space.
- Provision for advance Parking reservation through SMS or Internet
- Efficient Parking reduces congestion, pollution, driver's frustration and enhances overall driving experience within Parking lot.



Parking Solution

Report Details

DIMTS

IN ME PAR'S ----

Location-wise Revenue & Capacity Utilization

Current Month From 15-Feb-2015 To 16-Mar-2015 Previous Month From 16-Jan-2015 To 14-Feb-2015



Parking Solution

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000 - 6820 000 - 2300 2370 2002 5 2290 1830 1976 67 2460 1777 5 1780 2002 5 2290 1830 1976 67 2460 1100 1815 940 2150 2110 1310 2967 5	10- 5.22 5.11 5.75 5.68 5.94 5.01 1742.5
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Empowering Commuters Poochh-O App

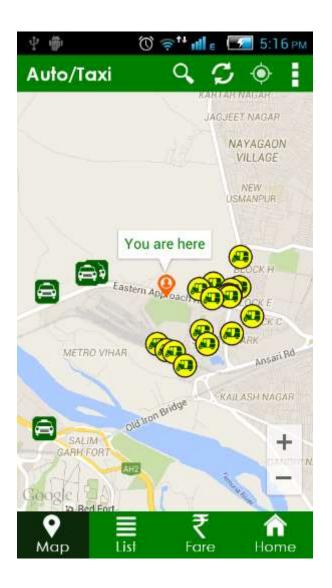


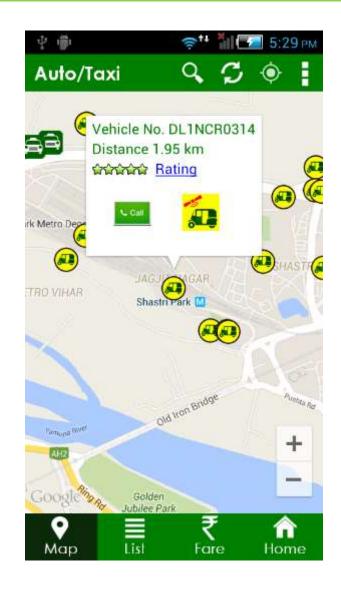






Auto/Taxi

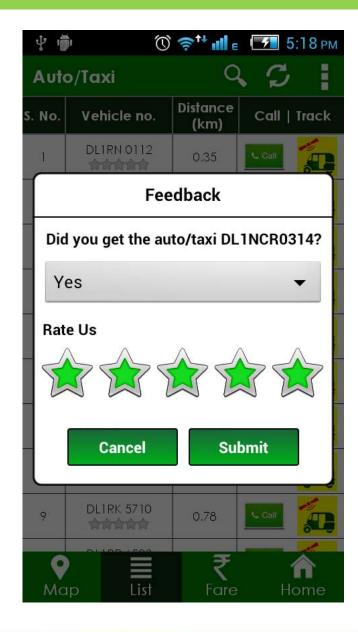






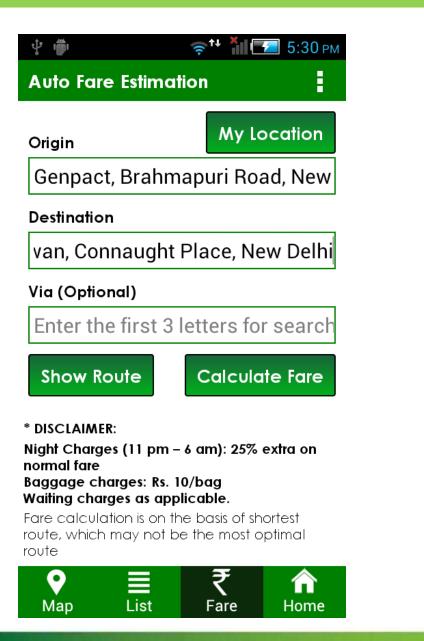
Auto/Taxi

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Fare Estimation

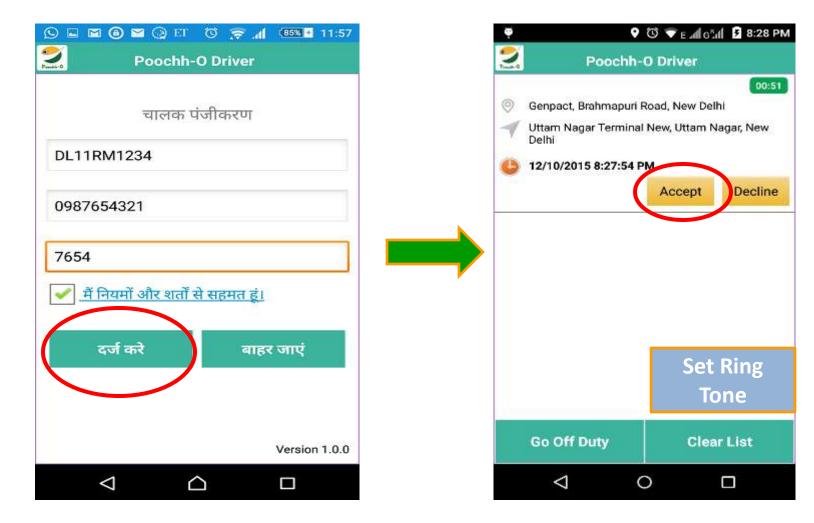






Poochh-O (पूछो), ड्राइवर ऍप के स्क्रीन





चालक के लिए प्रारंभिक पंजीकरण स्क्रीन



Poochh-O (पूछो)





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NextBus





Search Nearby Bus Stops

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neck Seat Availability(Occupancy) and time

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Destination	: Kamla Market	
Frequency	: 15mins	
Bus Type	: 🔒))
Name	: 901CLDOWN	
Source	: MangolPuri Y Block	
Destination	: Kamla Market	
Frequency	: 15mins	
Bus Type	: 🖨))
Name	: 901CLUP	
Source	: Ajmeri Gate	
Destination	: Mangolpuri Y Block	
Frequency	: 15mins	
Bus Type	: 📮	>>
Name	: 901DOWN	
Source	: Mangolpuri S Block	
Destination	: Kamla Market	
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Bus Type	: 📮	>>

Seat Availability(Occupancy) and time of arr



NextBus

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Rohini Depot II	1
Arriving in :	3 min
Puspanjali End	lave
Arriving in :	3 min
Kali Mata Man	dir
Arriving in :	4 min
Deepali Chowk	2
Arriving in :	6 min
Saraswati Viha	ar C Block
Arriving in :	7 min
Madhuban Cho	owk Outer Ring Road
Arriving in :	8 min
Madhuban Cho	owk PP Metro Stn
Arriving in :	15 min
Pitan ETA is	available for this route.
Arriving in :	16 min

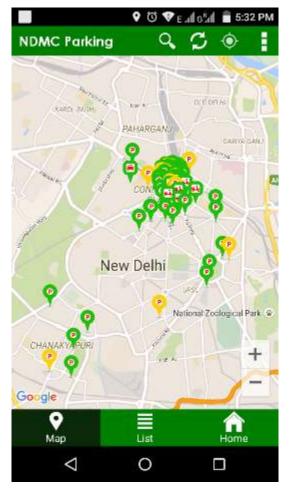


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Parking



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NITI MARG.SW Area	Ŷ
PALIKA PLACE, Around CP	Ŷ
SHANKAR MARKET, Around CP	Ŷ
♥ III Map List	A Home
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Carpool



🕾 📖 🖼 🖬 Registration

Welcome to Poochh-O Carpool

Please enter your mobile number

S +91 Mobile No.

For verification, a One Time Password(OTP) will be sent to you.

I agree to the <u>Terms & Conditions</u>. I understand that I would not carpool with strangers and I would choose known people from my neighbourhood / office etc. for the carpool.

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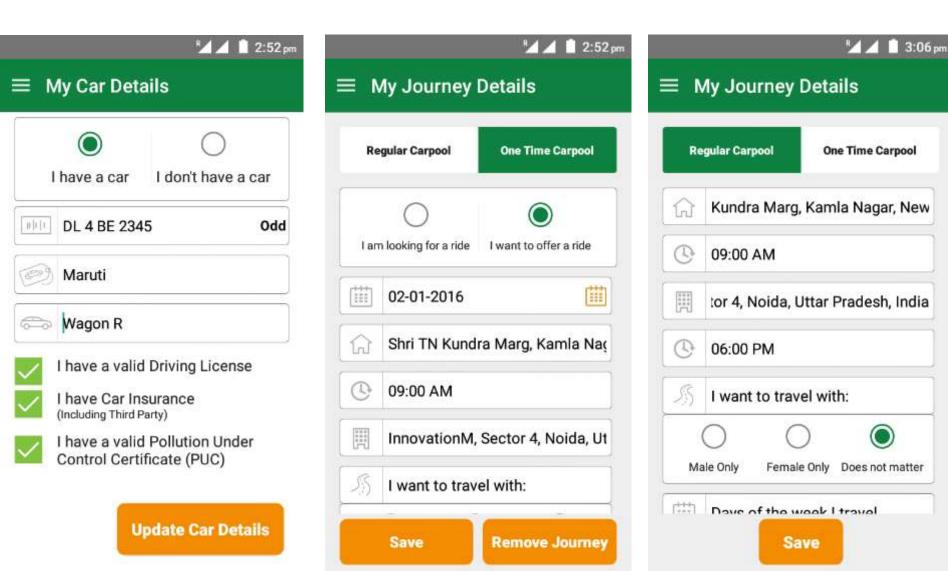
Register





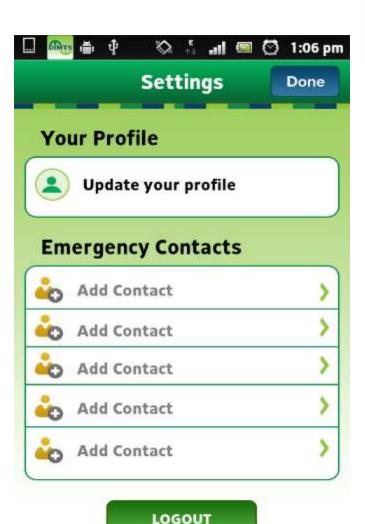
Carpool







Telltail





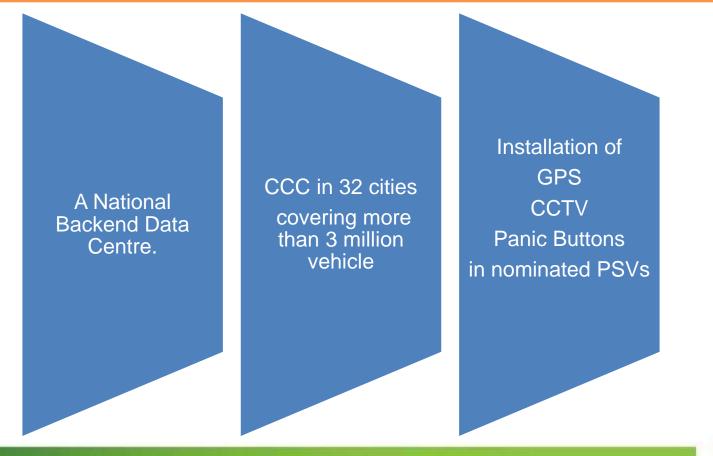


MORTH - National Level Vehicle Security and Tracking System

Scope is to support MoRTH in formulating and implementing the scheme "Security for Women in Public Road Transport in the Country"

Project is planned to be funded from the Nirbhaya Fund.

Following components are proposed





DIMTS IN NEWS

Intelligent parking system debuts at Connaught Place provide info on seat availability

Also planned is an app that will allow you to book a slot in advance



Boards give you information on empty spaces within a parking lot.

SHALINI NARAYAN & ADITI VATSA

periment in some NDMC areas to check know in advance of the next bas

Now a mobile app to track buses,

BUS TRACKER NextBus app to provide information on routes, bus frequency, bus stop locations

Atul Mathur a states for Windowices.com

NEW DELHE Travelling by public transport is set to get easier in the Capital. The Delhi Integrated Multi-Modal Transit System (DIMTS) - an agency that consults with the government on transport issues - has come up with a mobile application that will tell you the exact time of arrival of the pext bus at a particular stand. If will also indicate whether the bas is crowded or ponts are available.

NextBus, the application, is available on all mobile platforms. The application will initially provide information only on 1200-odd orange-coloured cluster buses run under the brand name of 'Delhi Transir'. However, it will soon include DTC buses

According to DIMTS officials, commuters can now plan their journey with the help of NextBus. The application will tell them the exact time of arrival of the next bus along with its route number. "The most exciting feature of

the application is 'Occupancy Status'. This feature helps com-ONAM AMAM: muters know the availability of seats in orange buses which are arriving Commuters will get to has 'Seats Available' or 'Standing Available' or if it is 'Crowded'." a DIMTS official said. The offi-



. The NextBus application will tell commuters the exact time of arrival of the next hus along with its route number and occupancy status, HT FILE PHOTO

cial said the occupancy status information is relayed real-time to give the correct status to comittuters.

Despite the Delhi Government strengthening the fleet of buyes. In the national capital, frequency and reliability of buses continue to be a major cause of concern. DTC officials claim they follow a timetable and try to maintain the frequency of buses, but commuters complain that bases often full to turn up at the expected time.

Cluster buses, on the other hand, are better managed, follow a strict timetable and maintain efficiency of more than 95%. While the GPS devices installed in DTC buses have either been stolen or removed, the ones installed in cluster buses send real time status of its location to the central control room to help the centre use that information for the benefit of commuters.

"The NextBus application will also help you with the exact

location of the bus. Commuters can share their location with their family and friends using SMS and social media like WhatsApp, Facebook, Gmail, Hangouts, LinkedIn and Skype to keep their family and friends informed about their location." an official said

The upplication also provides information on the estimated fare and the trip distance, estimated travel time and traffic condition on the route.



DIMTS IN NEWS

Now a mobile app to track buses, provide info on seat availability

BUS TRACKER NextBus app to provide information on routes, bus frequency, bus stop locations

Atul Mathur

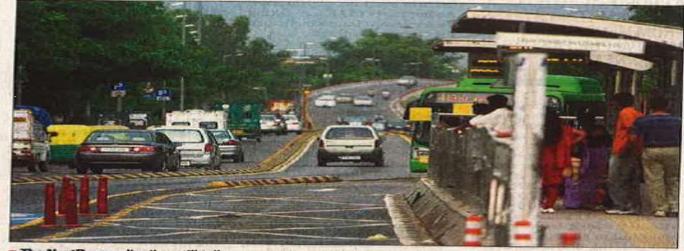
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HT FILE PHOTO

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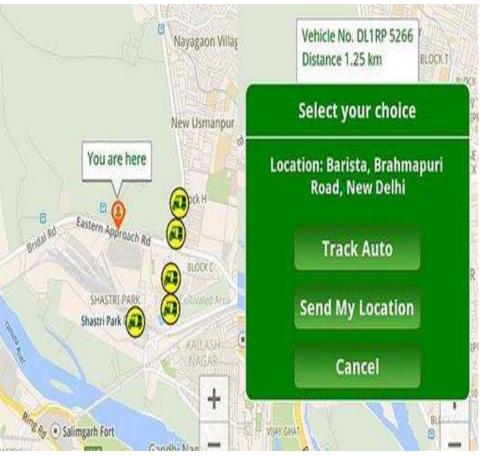
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DIMTS IN NEWS

Pooch-O Android app lets you book autos through smartphone



पॉपुलर हुआ 'PoochO' ऐप

2 महीने में 25 हजार से ज्यादा लोगों ने किया डाउनलोड

स्विधा का सवाल...

की ले रहे हैं जानकारी

लोग रोज प्ले

स्टोर से ऐप

≡प्रशांत सोनी, नई दिल्ली

बिल्ली में चल रहे जीपीएस लगे ऑटो को फोन करके बुलाने की सुविधा देने वाला 'पूछो' मोवाइल ऐप लोगों के बीच पॉपुलर हो रहा है। पिछले 2 महीनों में 25 हजार से ज्यादा लोग इस ऐप को मोबाइल में डाउनलोड कर चुके हैं, जबकि रोज करीब 5500 लोग गुगल प्ले स्टोर में जाकर इस ऐप के बारे में जानकारी ले रहे हैं। एंडॉयड और आईओएस ऑपरेटिंग सिस्टम पर चलने वाले इस ऐप को डाउनलोड करने वाले लोग अब तक करीब 1.5 लाख बार इसे अपने मोबाइल पर एक्सेस करके इसका इस्तेमाल कर चुके हैं। ऐप को लोगों ने पसंद किया है और इसे ओवरऑल 4.1 स्टार रेटिंग मिली है। गुगल प्ले स्टोर पर अब तक 685 में से 370 लोग इसे 5 और 146 लोग 4 स्टार रेटिंग दे चुके हैं, जबकि कुल 169 लोगों ने 1 से लेकर 3 तक रेटिंग दी है।

ऐप को डिजाइन और मॉनिटर करने वाली दिल्ली सरकार की भागीदारी वाली कंपनी डिम्ट्स के अधिकारियों का कहना है कि जीपीएस लगे करीब 35 हजार ऑटो चालकों को इस ऐप के तहत रजिस्टर्ड करके उनके मोबाइल नंबर सिस्टम में फीड किए जा चुके हैं। रोज कुछ नए औंटो ओनर्स अपने इस ऐप की लॉन्चिंग होने के बाद ऐप) को पसंद कर रही हैं।

चह ऐप जीपीएस लगे ऑटो को फोन करके बुलाने की देता है सुविधा आॅटो टैकिंग का सिस्टम होने के कारण महिलाएं कर रही हैं ज्यादा पसंद

5500

ऑटो का रजिस्ट्रेशन करवाने के लिए डिम्टस से संपर्क कर रहे हैं। हालांकि, अधिकारियों ने माना कि अभी रजिस्टर्ड हो चुके सभी औंटो चालकों ने इस ऐप को अपने मोबाइल में डाउनलोड नहीं किया है, लेकिन पब्लिसिटी और एजुकेशन प्रोग्राम्स के जरिए उन्हें एकजुट करके इस ऐप के फायदे बताए जा रहे हैं। इसी साल 11 जुलाई को कारण खासतौर से महिलाएं इस ऐप

को लेकर डिम्ट्स को कुछ शिकायतें भी मिली थीं। इसमें ज्यादा शिकायतें ऑटो डाइवरों के फोन पिक ना करने या गलत फोन नंबर रजिस्टर्ड कराने से जुड़ी थीं। ऐप की फंक्शनिंग को लेकर भी कुछ तकनीकी दिक्कतें आ रही थीं, जिसके बाद 23 जुलाई को डिम्ट्स ने ऐप को दोवारा अपडेट करके दिक्कतें दर करने की कोशिश की। साथ ही ऐप में सिलेक्ट किए गए रूट पर पिछले एक घंटे की ट्रैफिक सिचुएशन का अपडेट बताने, मोबाइल की बैटरी बचाने के लिए ऐप से एग्जिट बटन की सुविधा देने और युजर एक्सपीरियंस को बेहतर बनाने के लिए कुछ नई चीजों को भी इंट्रोड्यूज किया गया, जिसके बाद इस ऐंप को लोगों से अच्छा फीडबैक मिलने लगा।

डिम्ट्स प्रवक्ता के मुताबिक अगर कॉल करने के बाद भी ऑटो वाला रिस्पॉन्स नहीं देता है या नहीं आता है, तो इसकी शिकायत करने के लिए फीडबैक मैकेनिज्म बनाया गया है। इस काम के लिए स्टाफ रखा गया है जो कस्टमर से मिले फीडबैक के वेस पर रोज रिपोर्ट तैयार करके संबंधित अधिकारियों को देते हैं और फिर एक्शन लिया जाता है।

ऑटो की ट्रेकिंग का सिस्टम होने के



Thank You

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