



SMART
CITY
BHOPAL

PUBLIC BICYCLE SHARING BHOPAL

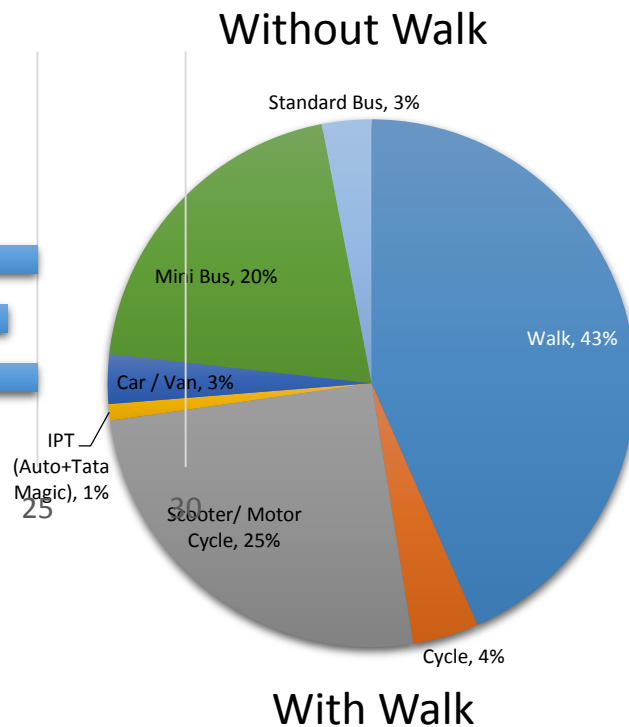
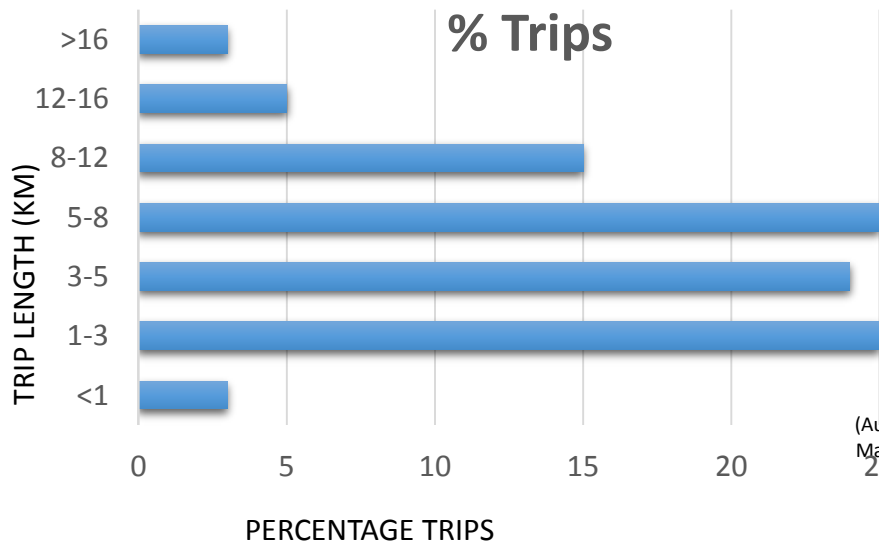
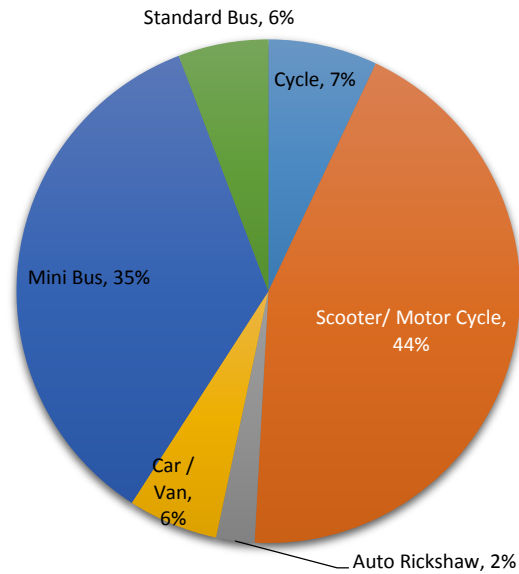
Ms. Priyanka Das

Executive Director

**Bhopal Smart City Development Corporation
Limited**

TRAVEL BEHAVIOUR

- About 20 lakh trips are made in a day.
- 43% are by walk.
- 77% trips are for **Work and Education**
- Average Trip Length: 4.75 km
- Average Travel Time: 21 min



BHOPAL PUBLIC BIKE SHARE

- Bhopal Smart Public Bike Sharing is India's first fully automated system .
- The stations are **unmanned** and linked to the **Central control system**
- This data is used to make decisions on **redistribution of cycles** around stations during the hours of operations.
- Fully **cashless** system
- Bhopal PBS Project is a Design, Procurement, Installation, Operation and Maintenance.
- Combination of global technology with local operational expertise
- 500 cycles and 50 stations
- Its 24/7
- Physically integrated with BRTS
- More than 28000 registered users
- Connecting neighbourhoods, educational institutions and hotels



SMART BIKE

- Board computer with NFC card reader
- GPS and WiFi Localisation
- Fork lock
- Parking function
- Mobile application and App



Rental via NFC
or App

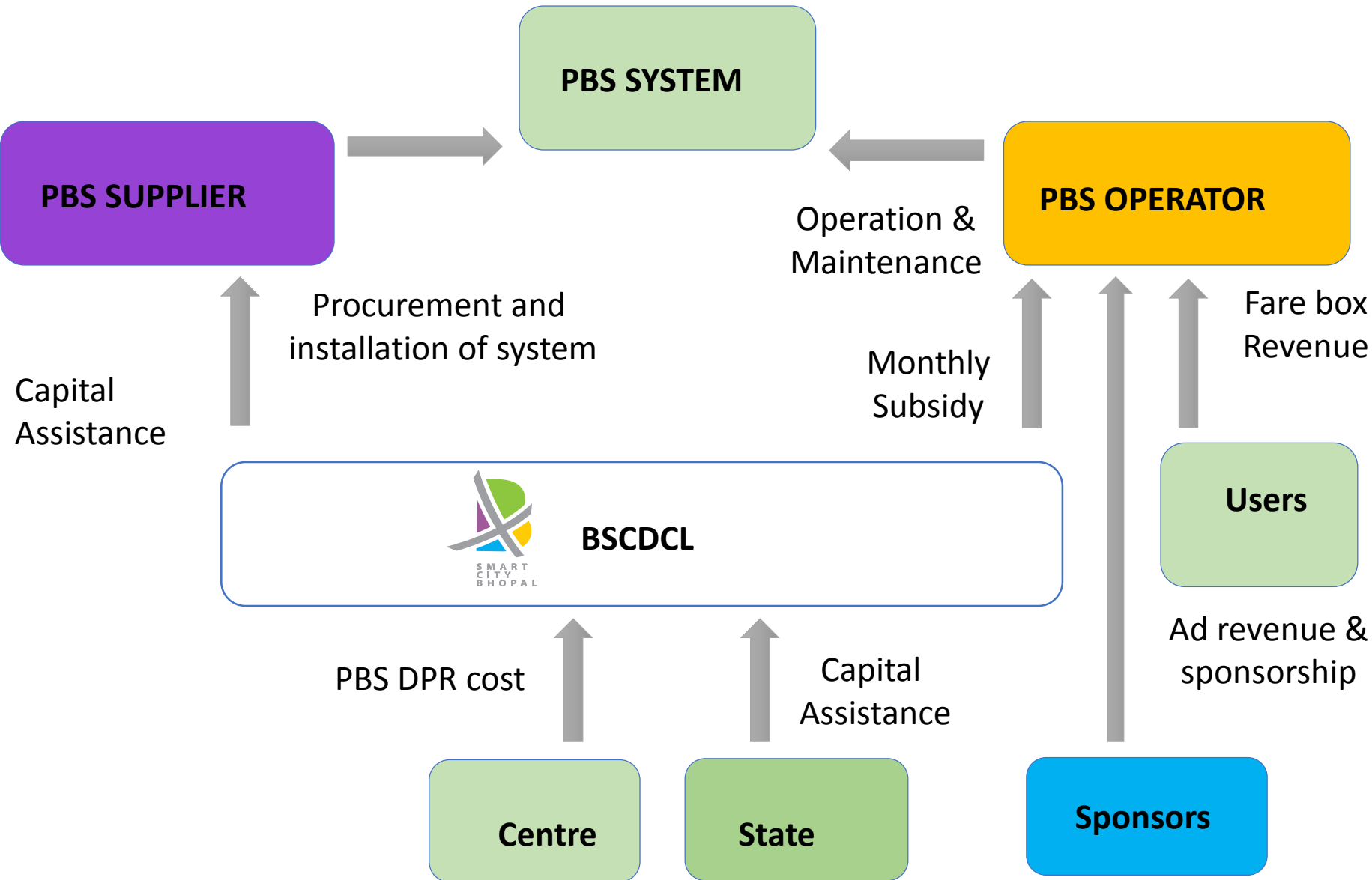


Rental with
Smart Cards



PIN code
entry

FINANCIAL MODEL



MONTHLY SUBSIDIES ARE RELATED TO EFFICIENCY

- 20%
- 30%
- 40%

PROJECT COST & RECOVERY



CAPITAL COST

Rs 2.95 Crs.

- Cycles.
- Cycle Stations.
- Other initial Setups Expenses.
- Paid in instalments

OPERATING COST

Rs 6.70 Lacs / Mnt

- Communication System
- Maintenance, Theft and Damage
- Spare Parts
- Insurance
- Employees Cost (Salaries)
- Administrative and Office Expense

COST RECOVERY

- Fare box revenue
- Advertisement Revenue
- Annual Cycling Event
- CSR Funding
- Support from BSCDCL

VGF - Approx Rs. 10 per bicycle/day subject to SLA



SMART
CITY
BHOPAL

< CHARTERED

Rental history

Tuesday
07-18-  

 **Nandan kanan Park (Charimli)**

 10:28 a.m.

 **BIKE 79534**

 10:52 a.m.

Bike number

79534

Duration

23 Min.

Price

0 INR

FARE STRUCTURE

REGISTRATION (REFUNDABLE)

Rs. 500

MEMBERSHIP (OPTIONAL)

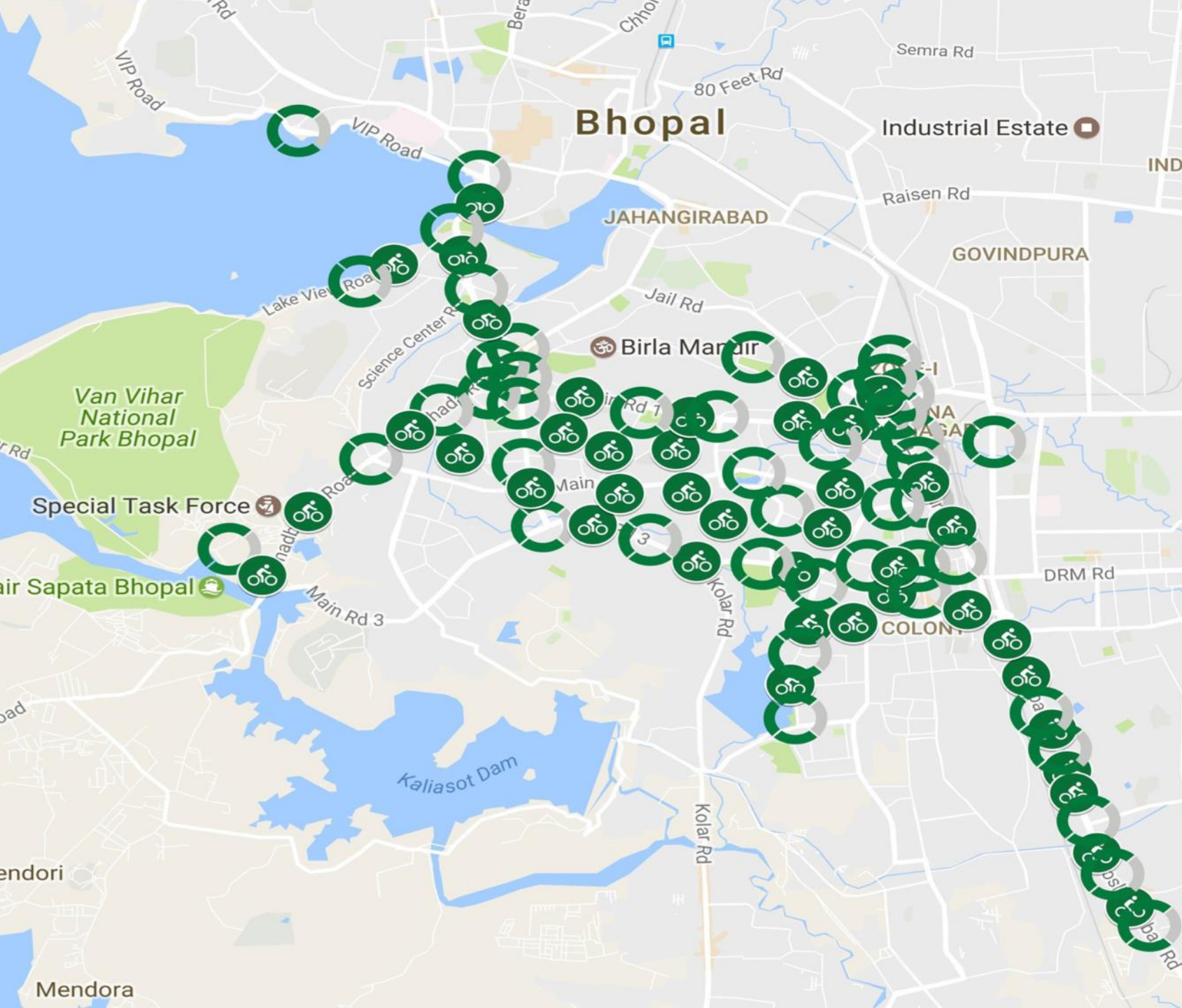
YEARLY	999
QUARTERLY	299
MONTHLY	149

USER CHARGES

Time	Non-Member (Rs)	Member (Rs)
0-30 Min	10	0
Till 60 Min	20	10
Till 90 Min	40	20
Till 120 Min	60	30
Every additional 30 min	30	15

DOCKING STATION





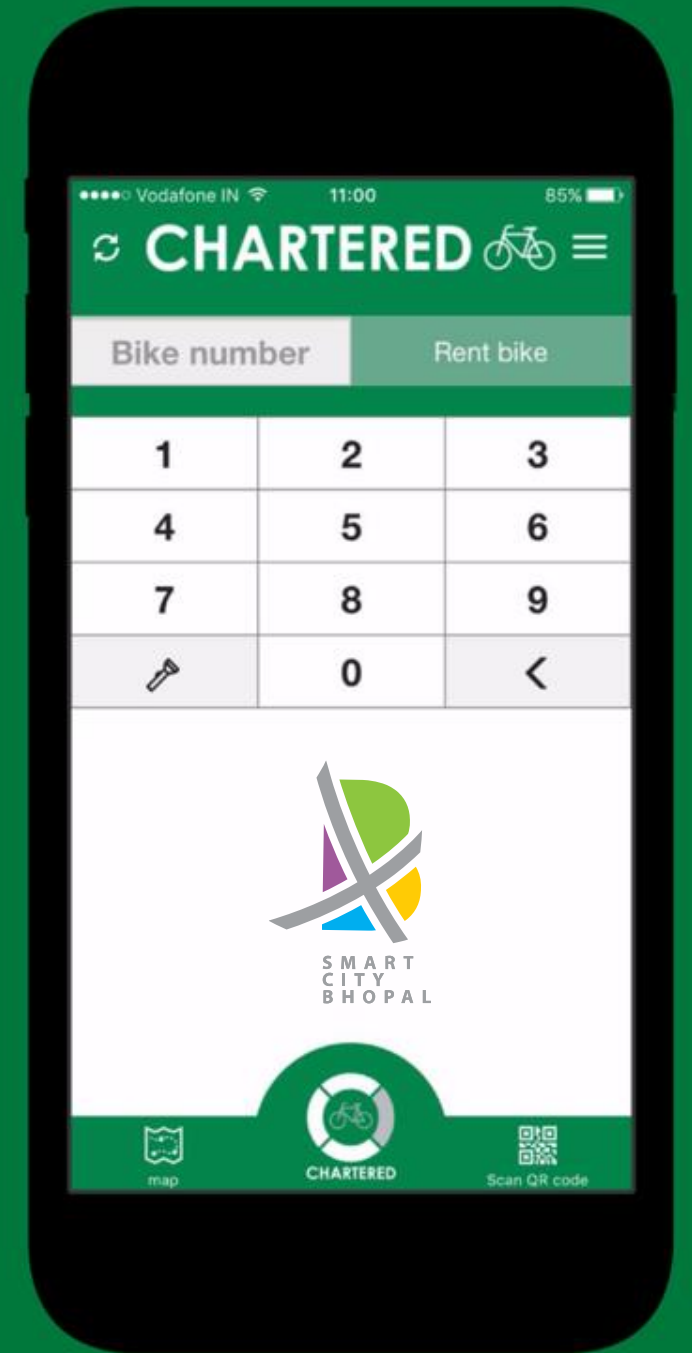
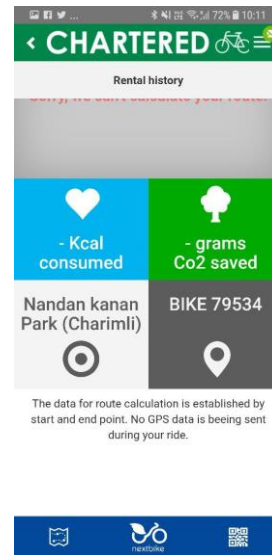
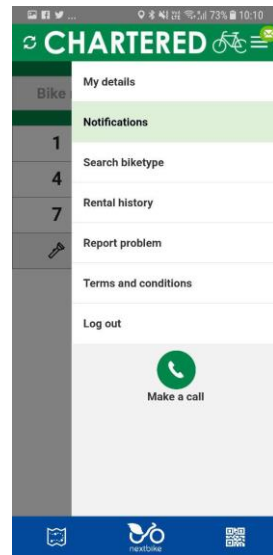
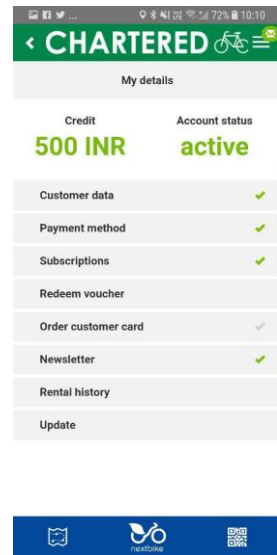
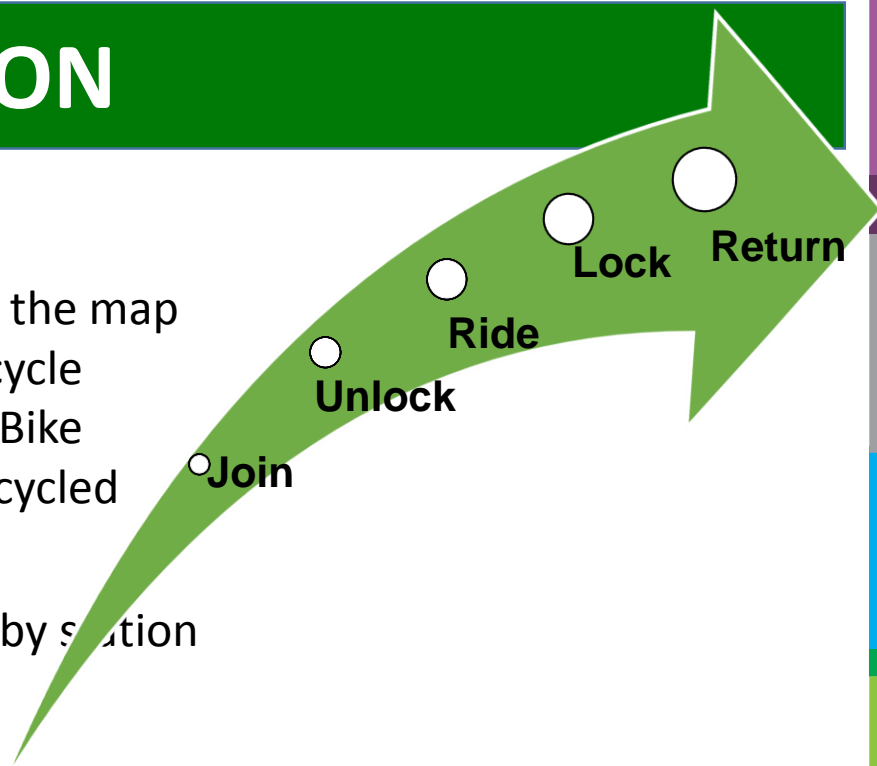
STATION PLACEMENT

NETWORK
CONNECTIVITY



MOBILE APPLICATION

- Easy to use interface
- Look for the nearest bicycle on the map
- Check real time availability of cycle
- Enter Bike Number and Rent a Bike
- Track your calories burnt, kms cycled
- Calculates CO2 emission
- Easy Return on station or near by station





BICYCLE TRACK

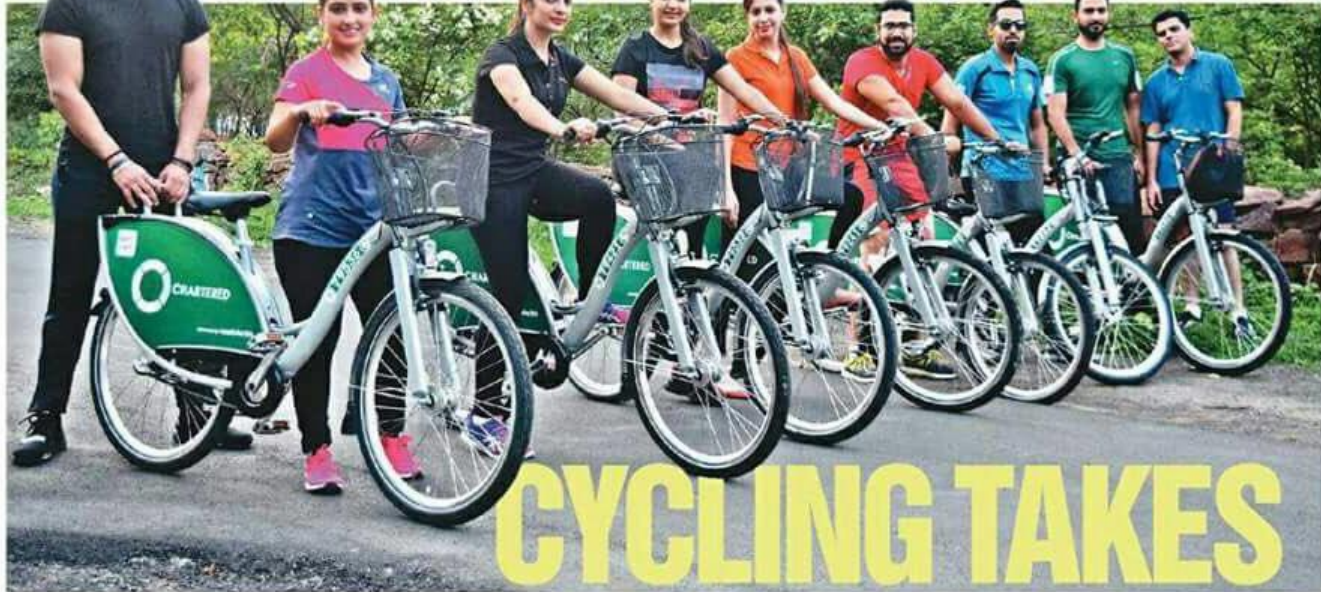
5 METER WIDE
12 KM LONG
INTEGRATING
BRTS AND PUBLIC BIKE SHARE





REDISTRIBUTION

THE CHARTERED CYCLES HAVE BECOME A NEW REASON FOR FRIENDS TO HANG OUT



CYCLING TAKES BHOPALITES BY STORM

While the entire country is discussing and partially implementing promotional programmes for healthier activities like cycling, Bhopal recently launched India's first GPS-enabled bicycle structure, which has been appreciated by fitness and adventure loving people of the city.

On a pleasant Saturday evening, a bunch of friends got together to try out cycling amidst lush green surroundings of Char Imli. "If you are worried about falling off the bike, you'd never get on. Cycling is the perfect way of fitness today and is

eco-friendly: I used to be very fond of it when I was a kid and I still cycle at times. The best place to cycle in Bhopal is Van Vihar, very close to nature and makes you feel alive," says Poorva Mulchandani, founder, Midas Touch.

While, for Radhika Sachdev, riding a bike is healthy and fun too. "It is a good way of exercise for all ages. Also its good for strength and stamina. Cycling has always been my favourite outdoor activity. It works as a great stress-buster. Char Imli is the place I love to cycle the most," she says. The GPS-enabled cycles are being imported from Germany and Bhopal features 50 docking stations and two six-km-long cycling tracks.

"Besides just cycling on these tracks, I can see people taking on these cycles all over the city. Cycling, in Bhopal especially, is great because there's so many green patches around. Like, for me the best spot for cycling is the Badbhada Dam area and the reason is obviously self-explanatory," says Chirag Lalchandani. "Cycling always helps me break the monotony," he adds.



Priya Hingorani, Chanu Dawani, Poorva Mulchandani & Radhika Sachdev



Priya Hingorani cycling at Char Imli



"Cycling is an amazing cross between adventure and exercise. A must do in today's humdrum life. Presently, I cycle on the track next to the Upper Lake but I would love to cycle one day by the coastline in Spain" - Chanu Dawani, fashion expert



Deepak Motwani, Sunny Hingorani, Iht Virk, Sahil Sachdev & Chirag Lalchandani

I started cycling as a cardio exercise. Not only do I burn good calories but also discover new routes. I feel really lucky to be living in this beautiful city which has so many green and scenic areas to cycle. While there are many cycling groups already in Bhopal, I want to form one of my own and go for long excursions in and around the city. -Sahil Sachdev



Sahil and Radhika Sachdev

MEDIA COVERAGE

International Media

CITYLAB

DESIGN / TRANSPORTATION / ENVIRONMENT / EQUITY / LIFE

<https://www.citylab.com/transportation/2017/07/can-bike-sharing-survive-in-india/533610/>



Young women riding public bikes on a designated bike lane in Bhopal. // Bhopal Smart City Development Corporation Limited

Can Bike Sharing Survive in India?

TANVI MISRA JUL 20, 2017

A new bike-share program launches in Bhopal, but Indian cyclists still face huge obstacles.

SHARE TWEET

A couple of years ago, starting a public bike-share system seemed a tall order for Bhopal, a city of around 1.7 million in Central India. In 2015, the proposal was met with ample skepticism from politicians, residents, and nonprofits. "In a city where sewerage and supply of drinking water are the major issues, [the Bhopal Municipal

JULY 2, 2017

LIVES

Public bike sharing sees more women pedalling than men





**NATIONAL AWARD
BEST
NMT INITIATIVE**



THANKS

www.charteredbike.in
www.smartbhopal.city