



Smart City Jaipur





Citizen Engagement Round 3 - Feedback on Proposal

1. Citizen Engagement Round 1 & 2

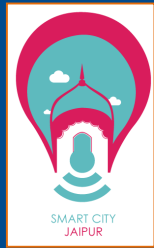
Update and screenshots

2. Road Map and Vision Vision

3. Area based development proposal

4. Pan City development proposal

5. Financial Plan



CITIZEN ENGAGEMENT

MEDIUMS TO CONNECT WITH CITIZENS, targets & Extent



WEBSITE: JAIPUR SMART CITY

Gives basic information about the project, possible smart solutions as well as introduction to the engagement plan. Provides link to : Suggestion box, online opinion poll and contacts for any other feedbacks. Visited by more than **3500 citizens**.



FACEBOOK: SMART CITY JAIPUR

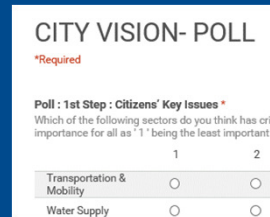
For the contents of the Facebook page, Jaipur city has taken a step ahead towards bringing awareness among citizen. The page apart from promotional activities also provides regular posts on Best Practises to bring an understanding amount citizens as well as continuous updates on upcoming events. Also all replayed press briefs are being posted on the page. Received 1000 likes with reach of **47000 citizen**



TWITTER:

JAIPURSMARTCITY@JAIPURSMART

Twitter account follows several. Twits on Jaipur smart city are being followed here by the citizens.



ONLINE OPINION POLLS: ON

WWW.JAIPURSMARTCITYCHALLENGE.COM

Polling in 4 steps: understanding citizens' priority on key issues, their areas of preference, their idea of smartness and how do they see Jaipur as a smart city. More than **500 online polls** taken in Round 1



WEBPAGE: on WWW.MYGOV.IN

An understanding of MoUD Smart city Challenge 2 and providing links to the website for polling and suggestions. A dedicated Discussion webpage for valuable feedback, online Bloggers competition and Logo competition. **71 suggestions** received in Round 1.



EMAIL:

JAIPURSMARTCITYSUGGESTIONS@GMAIL.COM

Gmail account has been created for receiving suggestions/competition entries. More than **823 entries** received in Round 1.



WHATSAPP:

Post Stakeholders meet, A WhatsApp e-group was created covering key stake holders including Business, Trading, Association, Commerce Chambers, and Govt officials to circulate basic information about the engagement plan, forward related photos/ videos and bring awareness among citizens on the proceedings of the proposal preparation. Association members represents a group of **1500 members**





ROUND 1 & 2 – REACH OUT, UNDERSTAND ISSUES AND PRIORITIES, ESTABLISH JAIPUR CITY VISION



STAKEHOLDER CONSULTATION



GOVERNMENT OFFICIALS

Presented basic information about the project, possible smart solutions as well as introduction to the engagement plan. Open discussion on the possible SMART options and on Area-based development options held.



FACE TO FACE MEETINGS



GOVERNMENT OFFICIALS

Face to face meeting with more than 25 government officials/agencies were held. The purpose was to engage the officials in understanding the proposals in pipeline and their aspirations towards advancement of projects for smart application.



STAKEHOLDER CONSULTATION

WARD COUNCILLORS

91 ward councillors meeting held twice on 28th Sept 2015 where Smart City Project and guidelines were discussed and feedback was taken for potential issues and preferred areas



PRESENTATION

COLLEGES

Project Brief for Jaipur Smart city was shared with around 50 colleges. Presentations were held on SMART city concept and interactive sessions were conducted.



STAKEHOLDER CONSULTATION



ASSOCIATIONS & ORGANISATIONS

business communities, trading Communities, Royal Family, Heritage conservation activists, Commerce Chambers, Schools, Colleges and Institutions Brief given on project and possible smart solutions. The participants undertook the opinion poll during the presentation, as well as discussed on the area development options arriving to a common opinion.

Number of representations: 65

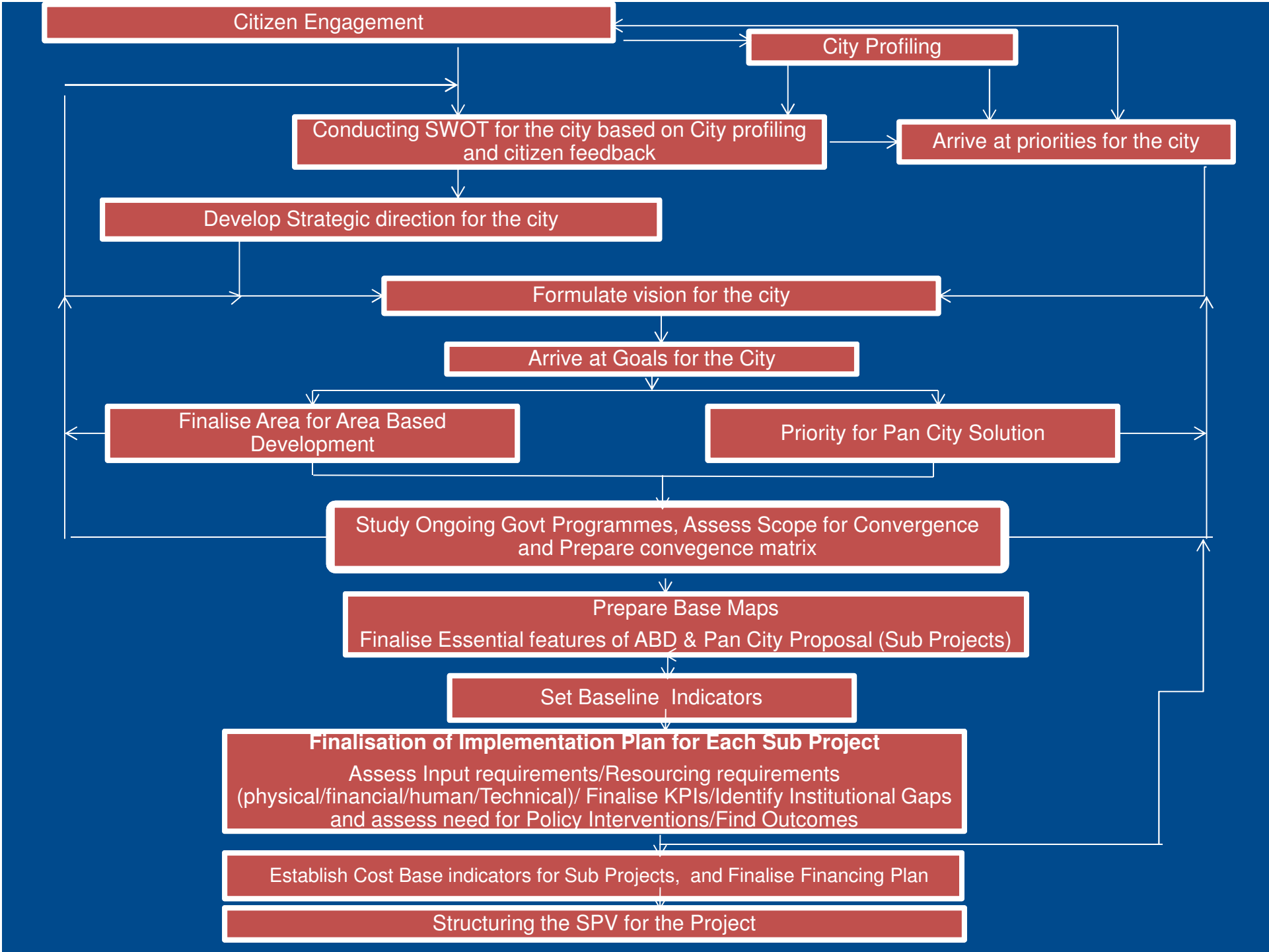


PRESENTATION



SCHOOL FOR DISABLED

Briefing about Smart city project. Remarkable excitement and inquisitiveness from students lead to drawing competition on the vision of ' Future of Jaipur'



CITIZEN ENGAGEMENT INSIGHTS

- **PROACTIVE ENGAGEMENT WITH WIDE RANGE OF CITIZEN GROUPS**
- **WARD LEVEL INPUTS, BUSINESS COMMUNITIES, TRADING COMMUNITIES, ROYAL FAMILY, HERITAGE CONSERVATION ACTIVISTS, COMMERCE CHAMBERS, SCHOOLS, COLLEGES AND INSTITUTIONS, SLUM DWELLERS AND GENERAL PUBLIC**
- **RECEIVED OVERWHELMING RESPONSE OF OVER 1 LAKH FEEDBACK / SUGGESTIONS FROM DIFFERENT CITIZEN GROUPS. GREAT ENTHUSIASM FROM CITIZENS**
- **SMS POLLING ADOPTED AS ACTIVE MEDIUM OF ENGAGEMENT TO VALIDATE THE INSIGHTS RECEIVED THROUGH VARIOUS MEDIUM TO ARRIVE AT CITY PRIORITY**
- **FOR STAGE 2 CONSULTATION, FEEDBACK PLANNED THROUGH POLLING APP BEING NEWLY LAUNCHED - TEXT, IMAGE, VIDEO AND DESIRED ACTIONABLE RESPONSES**

EXTENT OF PARTICIPATION:

- No. of Face to Face meetings: 25
- No. of Representations in Stakeholder Consultation: 65
- No. of Ward Level Consultations: 75000
- SMS Polling Outreach: 15,00,000
- No. of College Student Participation (Briefs sent to 50 colleges): 15000
- College Lectures and Seminars (10) –Student reach : 4320
- Facebook Reach: More than 45000

Top 3 Priorities emerging from Consultation

Strategic Focus for Pan City

- Transport
- Tourism
- Solid Management

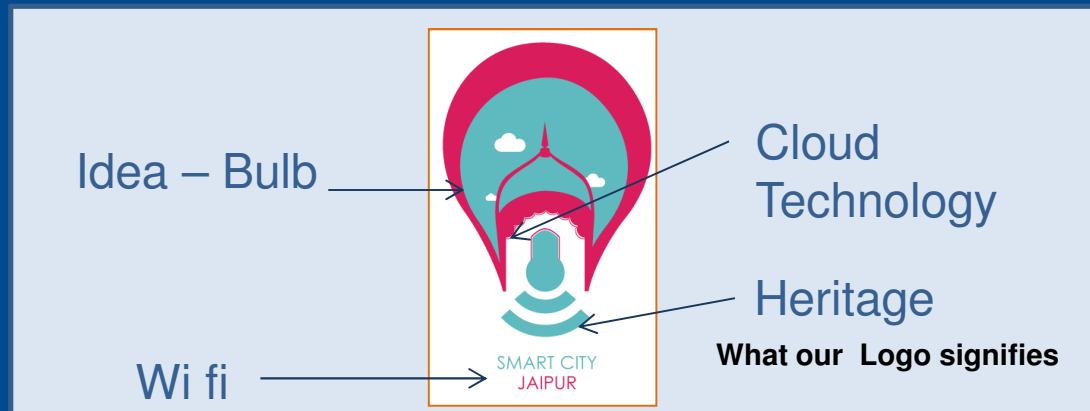
Strategic Focus for Area Based Development

- Heritage and tourism
- Transportation
- Sustainable and Smart Civic Infrastructure



Vision and Goals

“Jaipur Smart City aspires to leverage its heritage and tourism, through innovative and inclusive solutions, to enhance the quality of life” ’



Winner: Dhruv Pal Singh, User Id: 1522437
Winning Entry from Logo Competition adopted as Campaign Brand

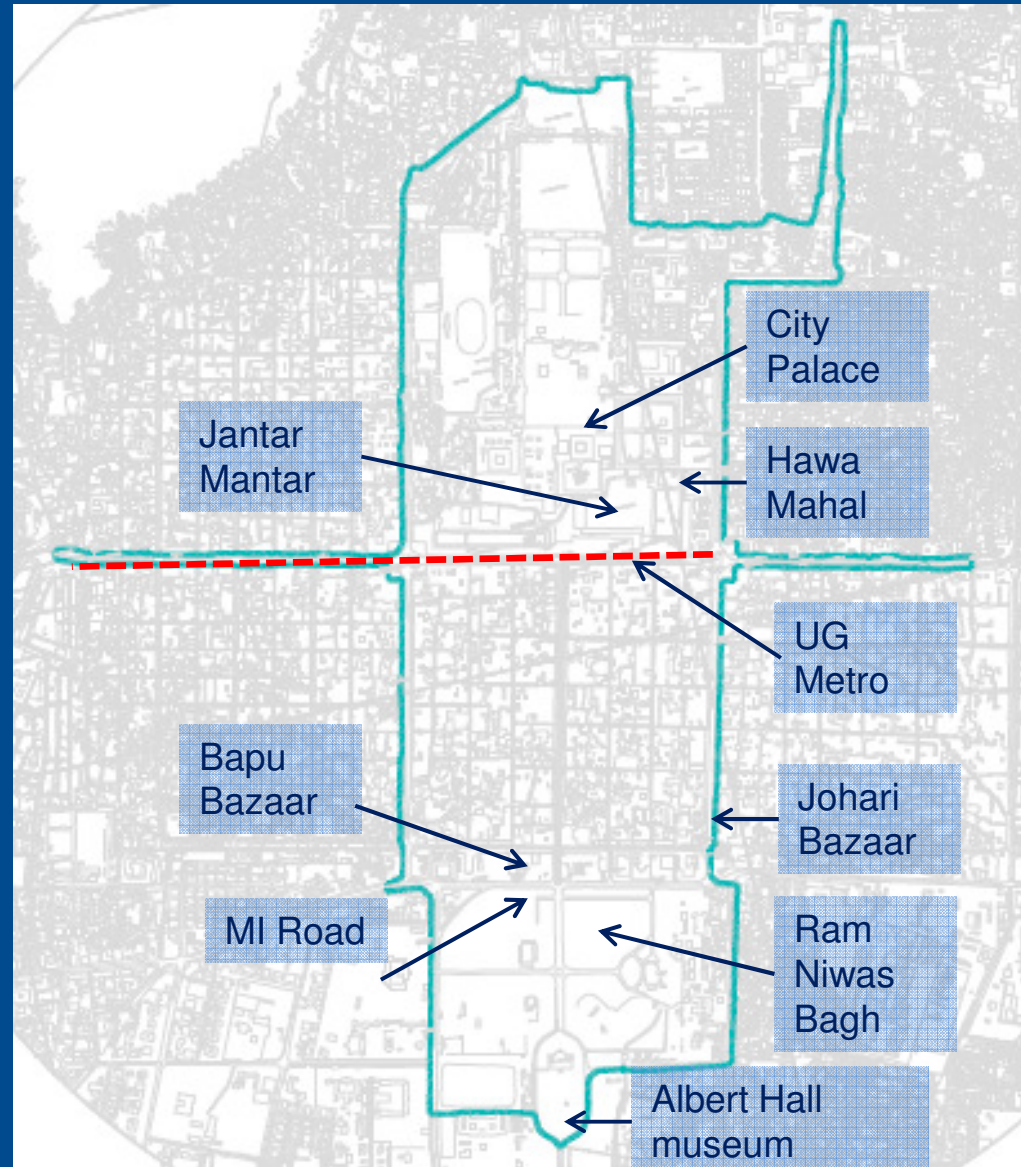


Partial Walled City with Albert Hall

Approx. Area – approx 706 Acre
(Ward no. 84, 74, 59-part)

User group – Business
community, Tourists

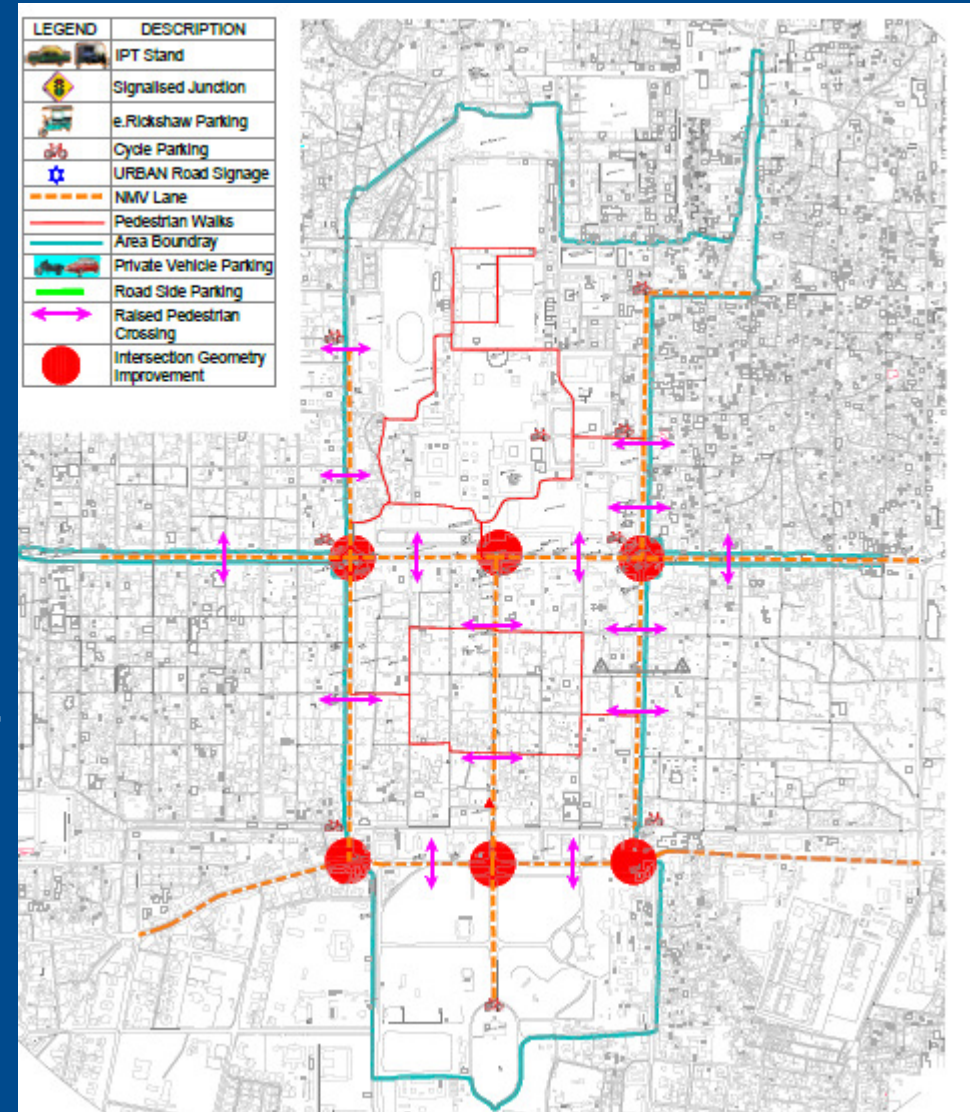
The chosen area for area based development is two chowkries of the walled city, i.e. on either side of the axis between Badi Chaupar and Choti Chaupar and extended to include the Albert museum and Ram Niwas Bagh. Further the area is extended to include the entire East West Axis and extended upto the Zurawar Gate.





Area Based Proposal - Transport

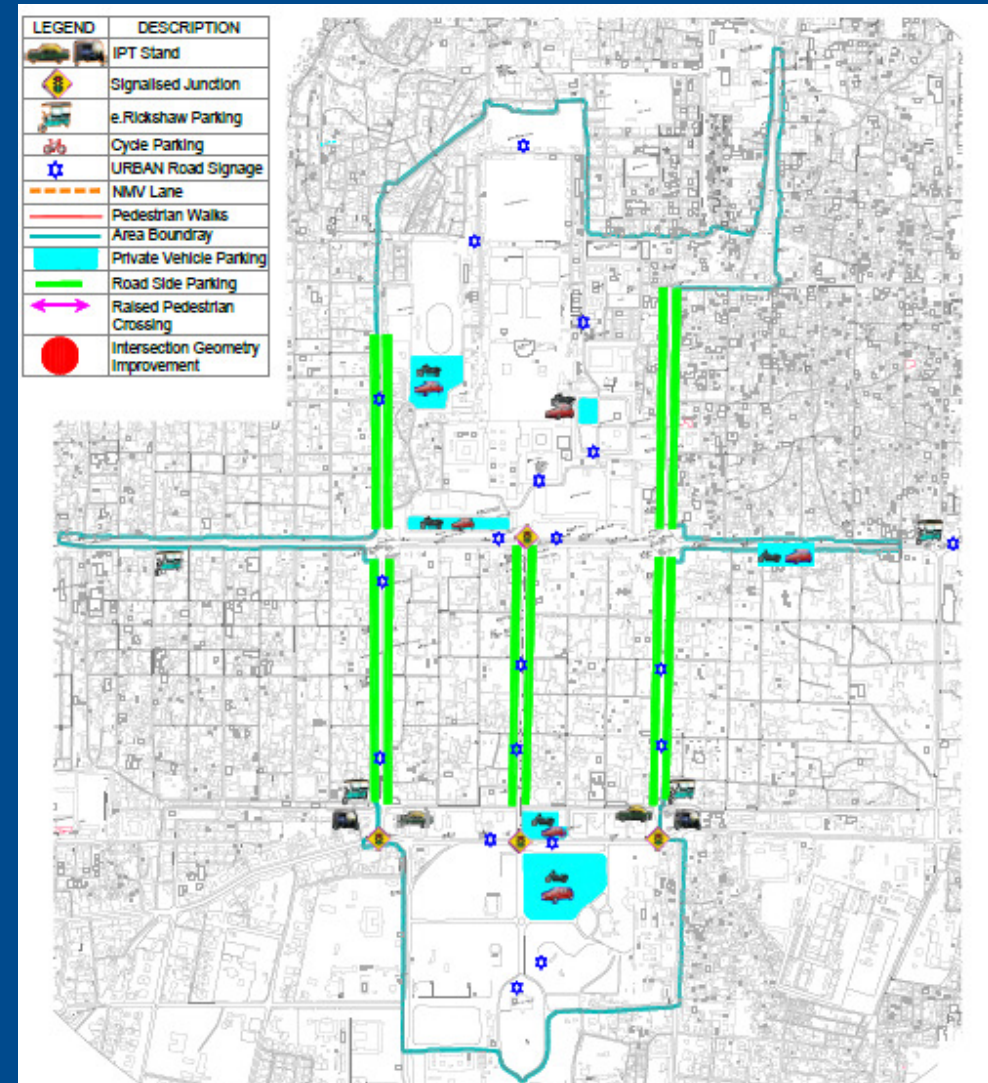
- Sustainable mobility with corridors fitted for:
 - Non-Motorised Transport
 - Pedestrianisation
 - Public bike sharing system
 - Universal access (Barrier free)
 - Electric vehicles / IPT (Rickshaws)
 - smart parking and smart signage.





Area Based Proposal - Transport

- Smart mobility with corridors fitted for:
 - Smart Signages for traffic/tourism
 - Intelligent Car /Coach Parking System
 - Smart Auto/Taxi Stands
 - App for IPT
 - Taxis & car pooling App
 - ITS for traffic signal cycles and bus information

















Area Based Proposal – Heritage & Tourism

- Heritage and Tourism
 - Adaptive reuse of heritage structures
 - Integrated city pass
 - Smart and green concepts in public areas
 - Smart heritage walk

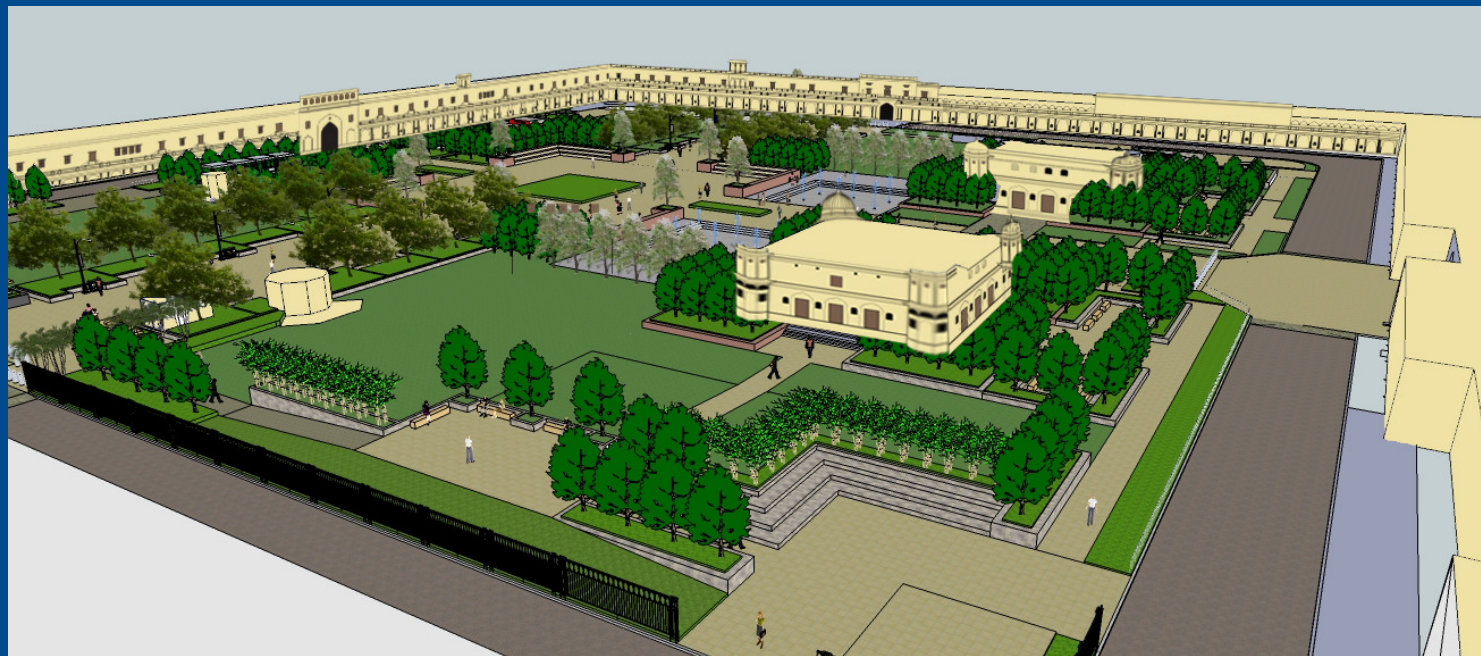




Area Based Proposal – Heritage & Tourism

Deployment of a WiFi network using public WiFi, which allows access to Internet in Heritage areas		Rain water Harvesting		District Cooling for the interior areas <input type="checkbox"/>		Integration with Public bike sharing scheme	
Installation of smart kiosk / terminals for information about the monument, etc.		Waste water reuse		Installation of smart lighting to enhance lighting levels, uniformity and energy efficiency in monument lighting		Barrier free access in entire complex	
QR codes for information on monuments and museum artefacts <input type="checkbox"/>		Integration with smart parking		Surveillance cameras and CCTV coverage for safety and security <input type="checkbox"/>		Air quality monitoring sensors	

- Jaleb Chowk
- Govind Devji Temple
- Old Police HQ
- Old Town Hall
- Talkatora Lake
- Heritage walks

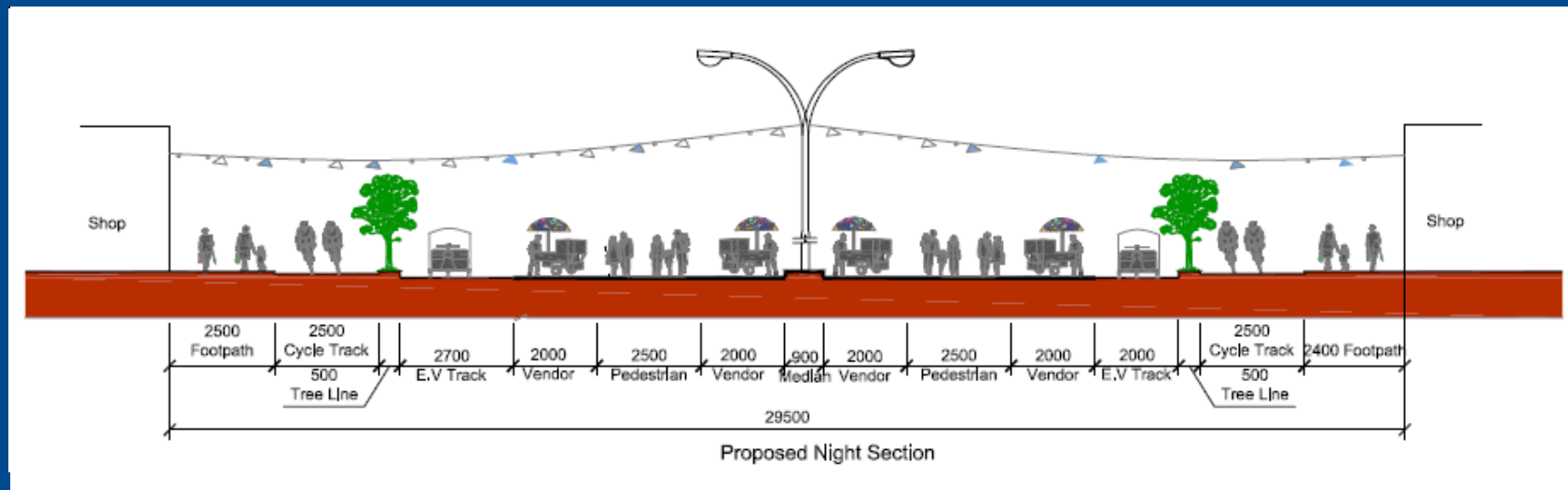




Area Based Proposal – Heritage & Tourism

- Heritage and Tourism

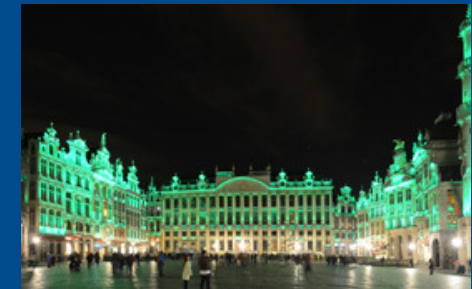
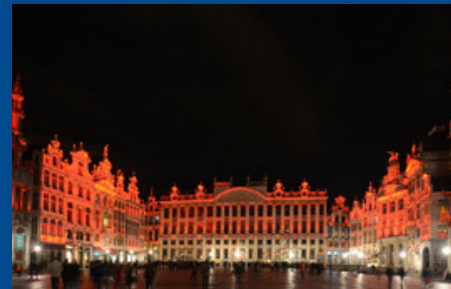
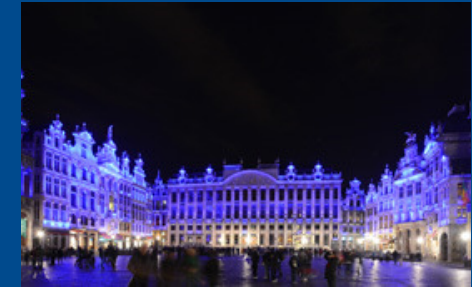
- Talkatora Lake to be desilted, cleaned and along with its precinct. Water show is proposed in the open space.
- Night market
- Vending Zone with infra smart infra provision and licensing





Area Based Proposal - Power

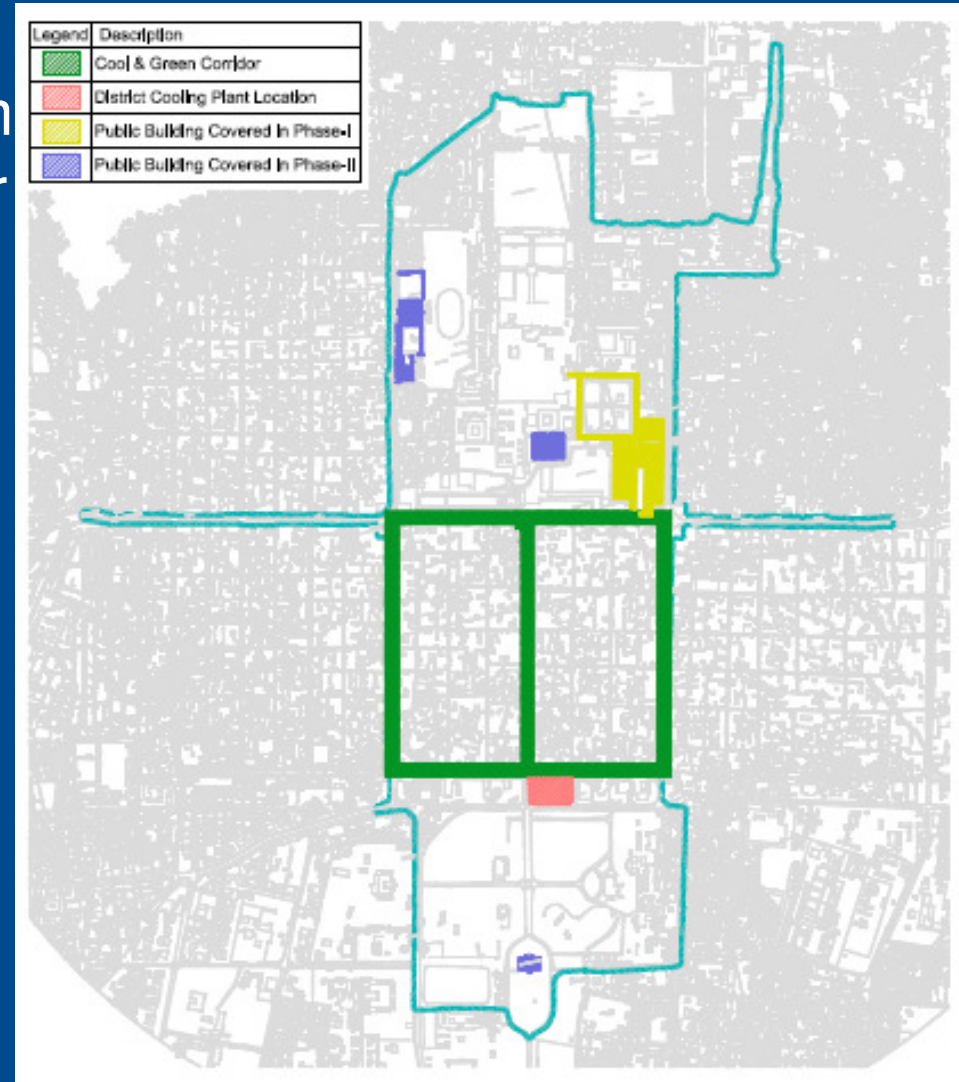
- Assured Electricity Supply with 10% of the areas' energy requirement coming from solar
- Smart street lighting and monuments lighting using Energy efficient sensors
- Underground cabling of OH cables





Area Based Proposal – Eco friendly Cool and Green Corridor

- Aromatic Mist Spray System for cooling of “Barandah” for pedestrians for pleasant ambience
- Additional “Barandahs” and
- Street landscape on corridors
- Thus developing a “Cool & Green” tourist corridor





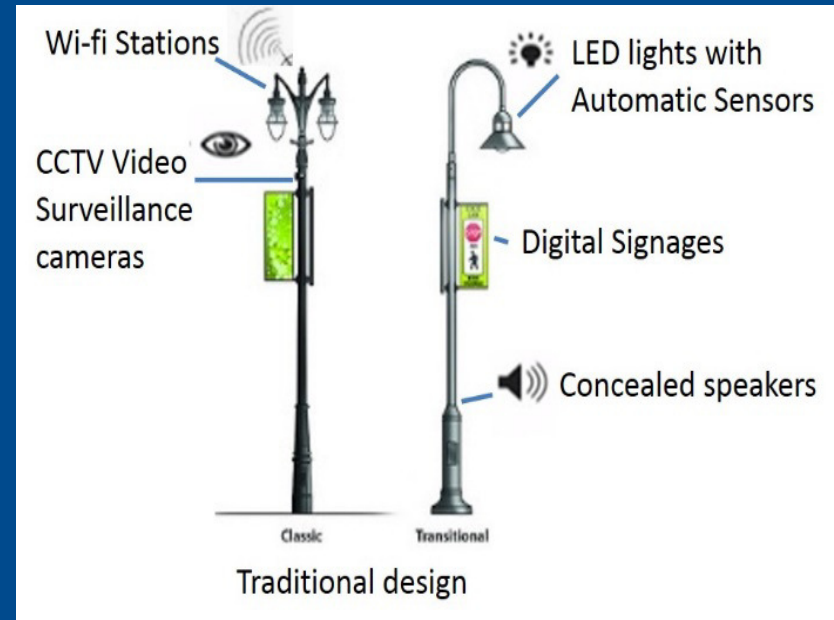
Area Based Proposal – Water supply and Sanitation

- Efficient Water Management
 - Smart meters with sensors
 - Asset maintenance alerts
 - Automated Online Residual Chlorine Monitoring System
- Waste water recycling and Rain Water Harvesting for Public Buildings
- Sanitation and Solid Waste Management
 - Smart toilets
 - Smart Collection of Solid Waste
 - Citizen Awareness Campaign
- Bins having sensors with alert capability



Area Based Proposal – Others

- Safety of Citizens
 - Video Crime monitoring
 - Incident alerts app
 - Helpline and SOS Mobile number
 - Panic Button
- Air Quality Monitoring with App
- Mobile application enabling citizens to report street problems



- Public Wifi zone in select corridor and monuments



Area Based Proposal – Others

- Information and electronic delivery of city services via smart Kiosk, for:
 - Wayfinding and journey planning
 - Local information
 - Information related to Weather Conditions
 - Payment of Utility Bills





Round 1: Citizen consultation – Pan City Solution

- Jaipur Smart City Website
- Page on MyGov.in
- Dedicated e-mail address
- Focus group discussion with
 - Councilors
 - Key Govt. stakeholders
 - Industry association, NGO etc
 - College students
- Questionnaire surveys at ward level

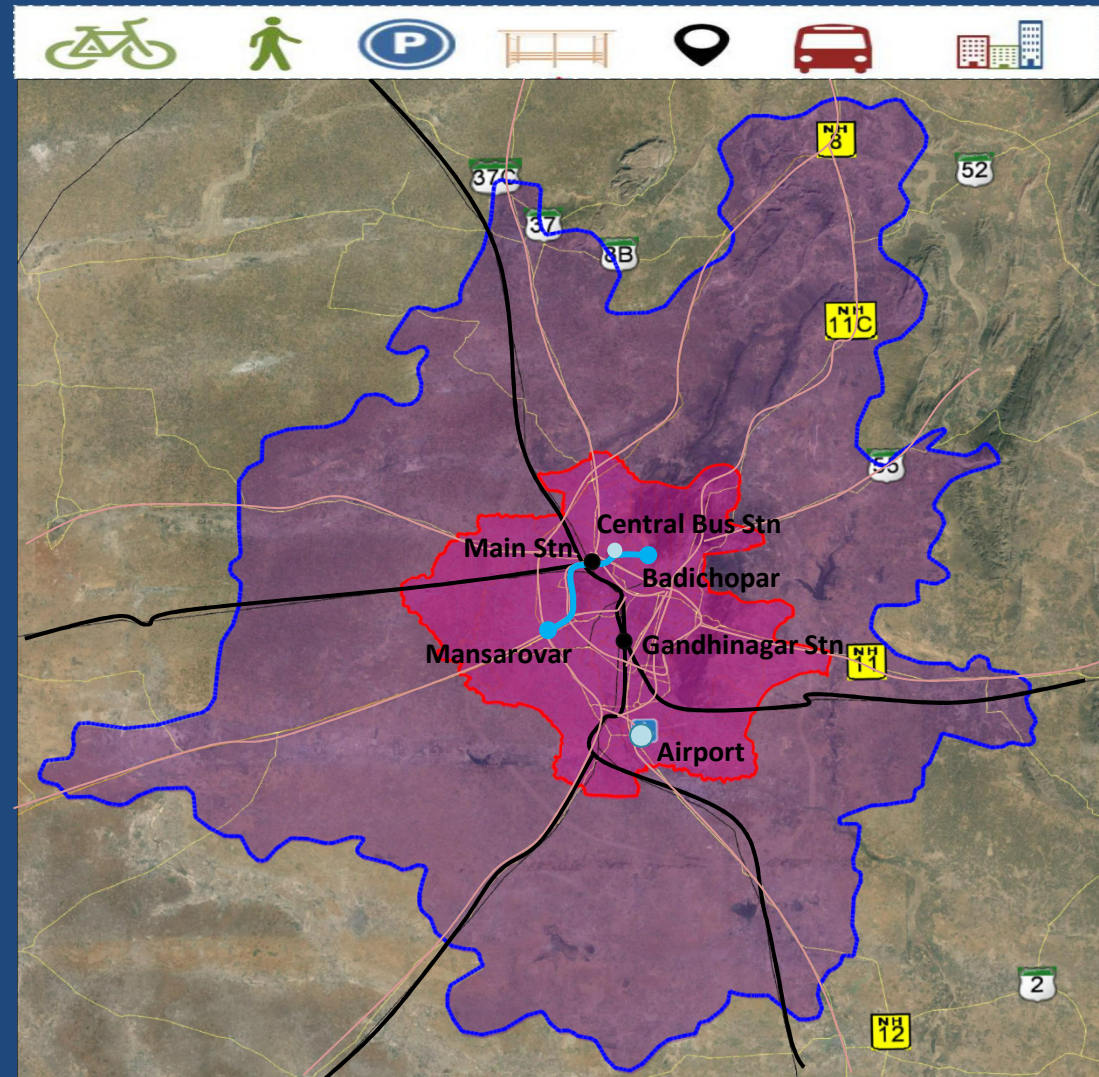
Traffic and Transport

Solid Waste Management

Snapshot of Public Transport in Jaipur



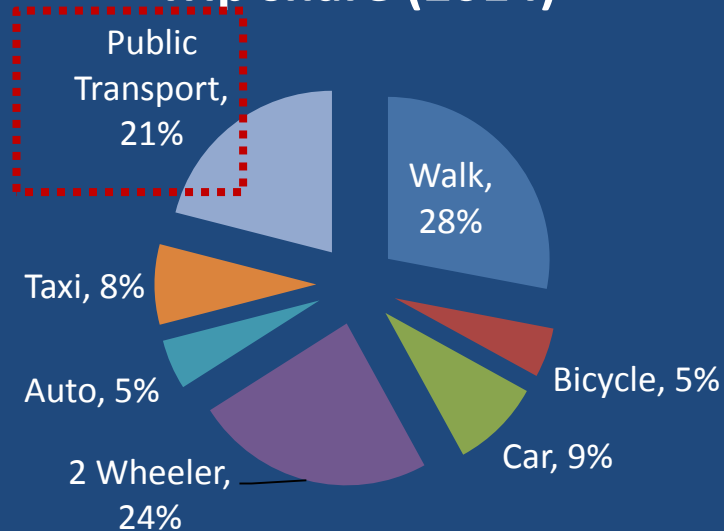
- ▶ **Railways** – 2 railway station (Main & Gandhinagar)
- ▶ **Airport** – Operated by AAI at Sanganer
- ▶ **Regional bus terminal** – RSRTC Sindhi Camp
- ▶ **Metro** operated by Jaipur Metro Rail Corporation (JMRC)
- ▶ **City Buses** operated by Jaipur City Transport Services Ltd (JCTSL) and pvt. operators
- ▶ **Non-Motorized transport**
 - ▶ Pedestrian Infrastructure – Jaipur Development Authority (JDA) / Nagar Nigam Jaipur (NNJ)





Public transport characteristics

Trip share (2014)



Source: Updated DPR for Phase 2, 2014, JMRC

Key indicators	
Employment	~ 14.70 lakhs
Average journey speed	16 kmph (core) 28 kmph (total network)
Per capita Trip Rate (motorized)	0.68
Walkability	51% (footpath length / road length)
Fatality index	71 (fatalities / lakh population)

Source: Comprehensive Mobility Plan, 2010,

- ▶ **By 2031 Traffic Characteristics of Jaipur would be:** (as per CMP 2010)
 - ▶ Employment - ~ 32 lakhs
 - ▶ Trip Share of Public Transport - 16%
 - ▶ Avg. Network speed – 14 kmph
 - ▶ Per capita Trip rate – 0.85

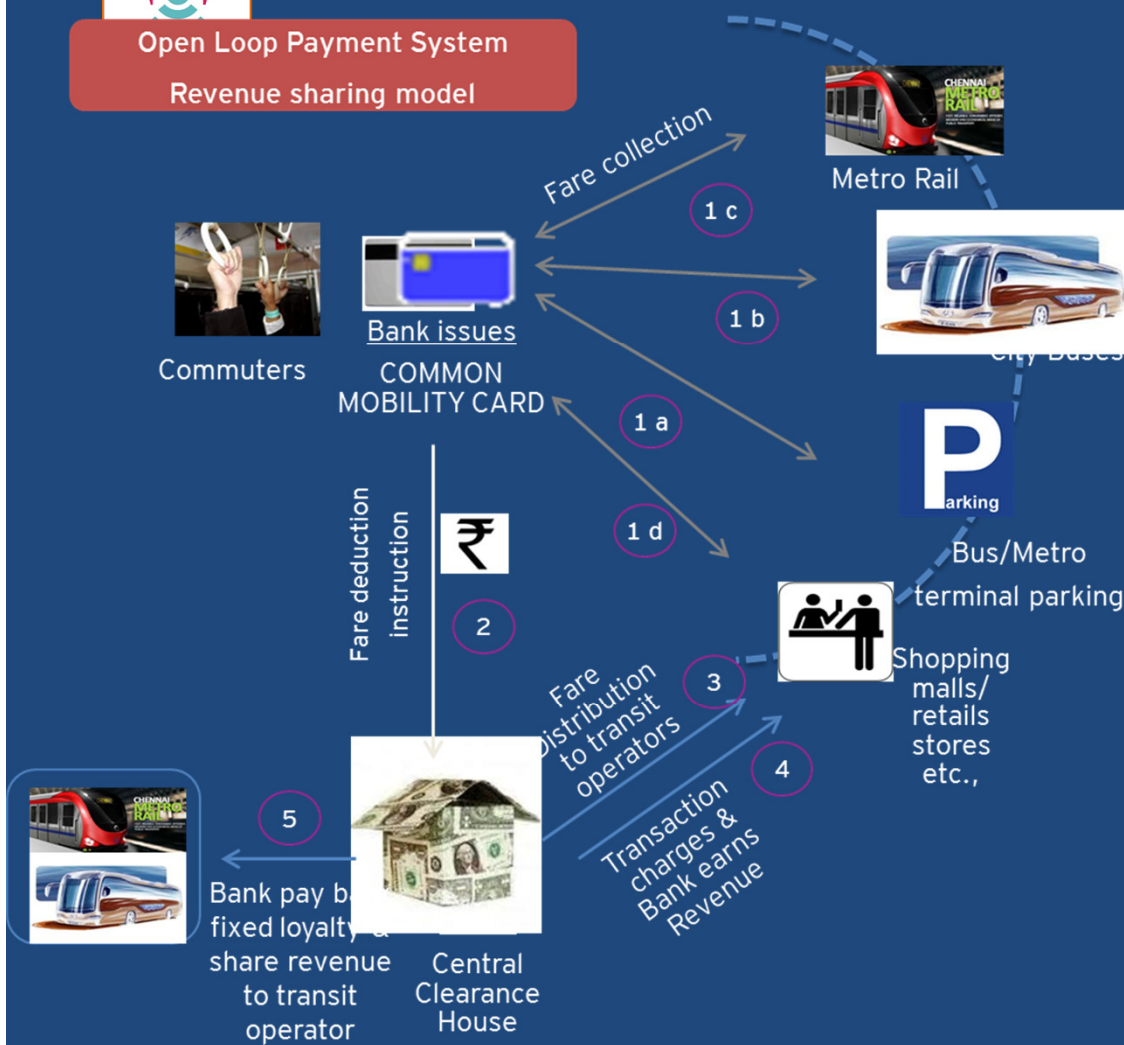
Decline in percentage share of modal choice for Public Transport

- 1) Low quality of services of Public Transport - buses
- 2) Inadequate integration of various modes of Public Transport



Smart Mobility Card

Open Loop Payment System
Revenue sharing model



The EMV technology based smart cards are accepted within network of transit operator's terminals.

Media can be used on network of other payment methods like Visa/MasterCard/RuPay/Amex.

Model is convenient for a commuter as single media in wallet can be used for all payment needs.

Model also aids him to gain loyalty points for usage of cards on transit or non transit network.

Advantages of Open Loop CMC:

- ▶ Wider acceptance of card for end user at multiple merchants for transactions
- ▶ No KYC for on boarding customers
- ▶ ZERO Capex Investment for Transit Operators
- ▶ Addition revenue for Transit Operators - Fixed loyalty, Revenue share on non transport transactions
- ▶ Open Data Format Standards

The platform can also be leveraged to offer tourist cards:

- 'Jaipur Pass' – combined features of Mobility Card and entry to Tourist Sites



Smart Public Transport – Public Information System



- ▶ The objective of this module is to facilitate access to public transport by providing reliable information
 - ▶ Location information
 - ▶ Real time and mode specific arrival & departure schedules
 - ▶ Clear, coherent schedules and network maps
 - ▶ Information inside vehicles esp. on opportunities for interchanges
 - ▶ Information to enable calculation of time and mode of journey

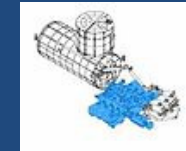
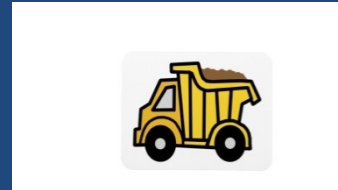
Target groups

- City dwellers
- Visitors
- Tourist



Solid Waste Management in Jaipur

Segregation & Disposal



Waste Generation

Solid waste handling & storage at source

Solid waste collection from source

Transfer to central storage facility

Waste processing facility

Scientific disposal

Street sweeping & community bins

Collection & Transport

- 2 Common Bio-Medical Waste Treatment Facilities operational on PPP basis
- 2 MSW treatment plants operational on PPP basis
- Bottling Plant on PPP mode for Bio-gas operational since 2014
- Proposal under consideration- Plant for Disposal of Construction Material / Debris on PPP Mode

- One sanitary landfill site

**Low service levels in terms of Collection & grievance redressal
Addressed by the city through implementing door to door collection on PPP**



Pan city solution – Solid waste management

Modules	Features	Convergence
Route optimization, Fleet & Depot management, SLA monitoring	<ul style="list-style-type: none"> ▶ Vehicle tracking system (VTS) ▶ Fleet management ▶ People management / attendance monitoring ▶ Route optimization / Service scheduling ▶ Monitoring of Door to Door collection ▶ Integration of weather data ▶ Vehicle maintenance module ▶ Bin monitoring ▶ Multiple touch points for complaints registration & redressal 	<ul style="list-style-type: none"> ▶ Nagar Nigam already implemented VTS ▶ Nagar Nigam in process of implementing city wide Door to Door collection system
Registrations of recyclers	<ul style="list-style-type: none"> ▶ Registration / data module for recyclers and rag pickers ▶ Hand held devices / central module for recyclers for promoting waste segregation 	

Primary objective is to Instill Discipline

- Operational level
- Waste generation / Household level



Funding

	Component	Total Project Cost	Gol + GoR Smart City Grant	PPP <i>In Rs Cr</i>	Convergence
1	Area Based Dev. (Walled City)	1222.10	980	--	392
2	Pan City 1 Smart multi-modal mobility	104.60		--	6
2	Pan City 2 Smart Solid waste management	340.30		280	9
	Total	1667	980	280	407



Thank – You!

