



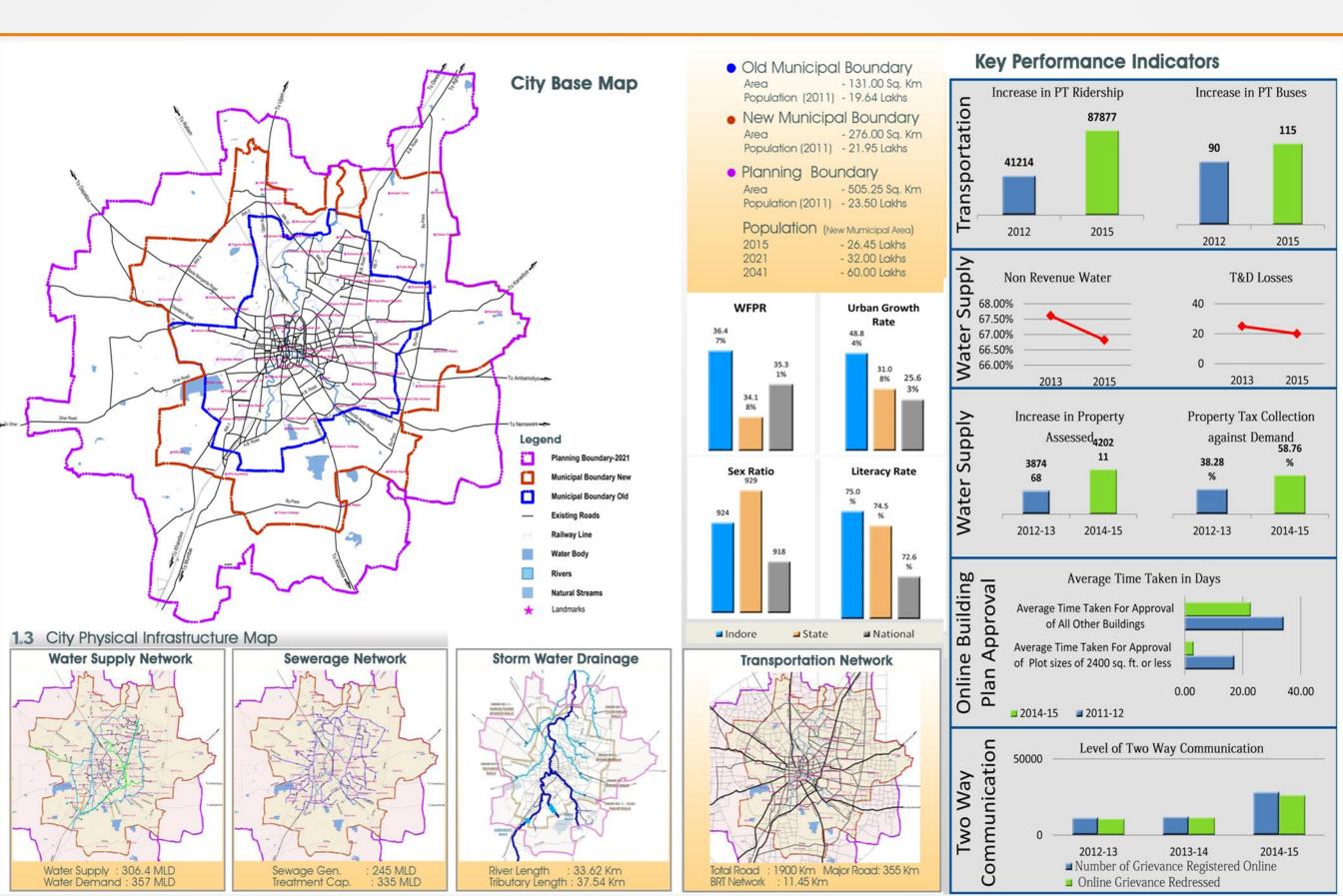


Indore Municipal Corporation



Technical Consultant: Mehta and Associates

City Profile



Citizen Consultation

CITIZEN ENGAGEMENT SUMMARY

Total Engagement 591965

MEDIUM OF ENGAGEMENTS

















16573





Indore conducted one of the widest citizens consultation in the country.

CONSULTATION INCLUSION

Profession	%
Student / Youth	28%
Working Professional	19%
Other / General Public	19%
Housewife	16%
Service Provider	7%
Senior Citizen	5%
Businessman/Industrialist	4%
Traders	2%

Age Group Wise Distribut

Age Group Wise Distribution
13-17 — 3%
18-24 — 58%
25-34 — 21%
35-44 — 11%
45-54 — 4.8%
55-64 — 2.2%
65+
Sex Wise Distribution
62% 🔳 🗥 38%

ROUND 1

Duration:

15th Sep - 25th Oct

Agenda:

Vision and Goals

Total interactions: 253180

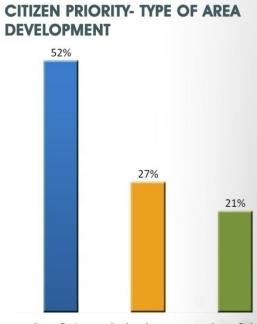


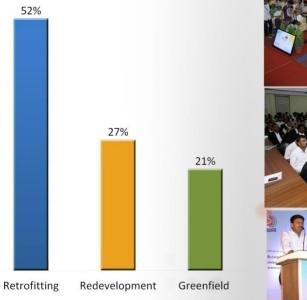




CITIZEN PRIORITY- SECTOR WISE

Sector	%
Larger Focus on Indore's Heritage & Culture	15%
Public Transport & Walkability	14%
Appropriate Waste Management	11%
More Open Space	11%
Citizen role in decision making	9%
Proper Sewerage Facilities	8%
Affordable Housing	8%
Uninterrupted Power Supply	7%
Better Water Supply	6%
Technology Enabled Delivery of Public Services	6%
Safety & Security	5%











Citizen Consultation

4.1 ROUND 2 CITIZEN ENAGEMENT



Round 2

Duration:

26th Oct - 15th Nov

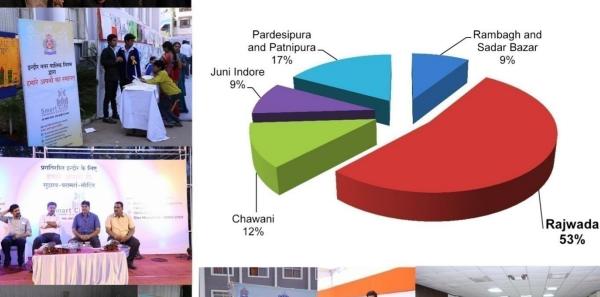
Agenda:

Finalization of Area and Pan-City

Total Interactions:

173989

Citizen Engagement Area Prefered For Development





4.2 ROUND 3 CITIZEN ENAGEMENT

Round 3

Duration:

15th Nov – 6th Nov

Agenda:

Draft Smart City Proposal



164796

More than 80% Population has been covered in selected area for Area based development through Door to Door Consultation in round 3





















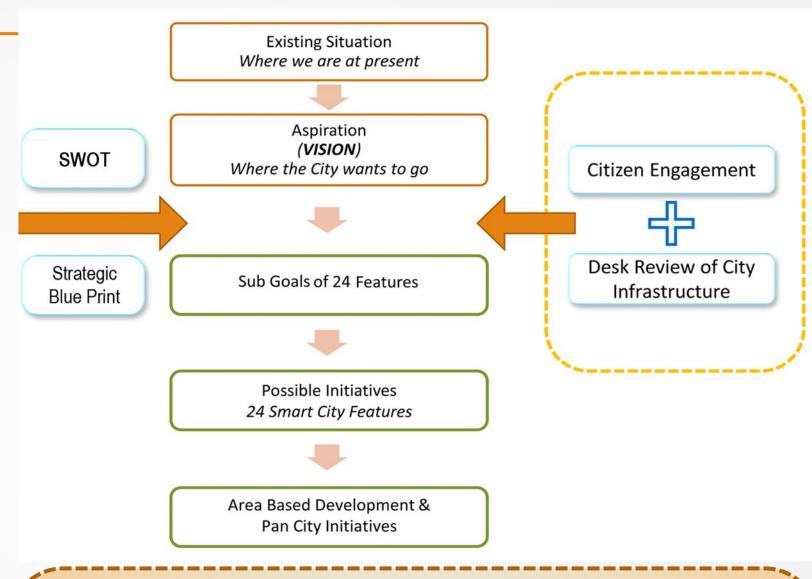






Strategy and City Vision

City Level Self Assessment **Smart City Feature** Scenario 2 Scenario 1 Scenario 3 Citizen participation **Identity and Culture Economy and Employment** Education Health 6 Mixed Use Compactness **Public Open Space** Housing and Inclusiveness 10 Transport Walkability IT Connectivity Intelligent Government Services **Energy Supply Energy Source** Water Supply 17 Water Management 18 Waste Water Management 19 Air Quality **Energy Efficiency Underground Electrification** 22 Sanitation 23 Waste management Safety and Security **Existing Situation** Aspirations

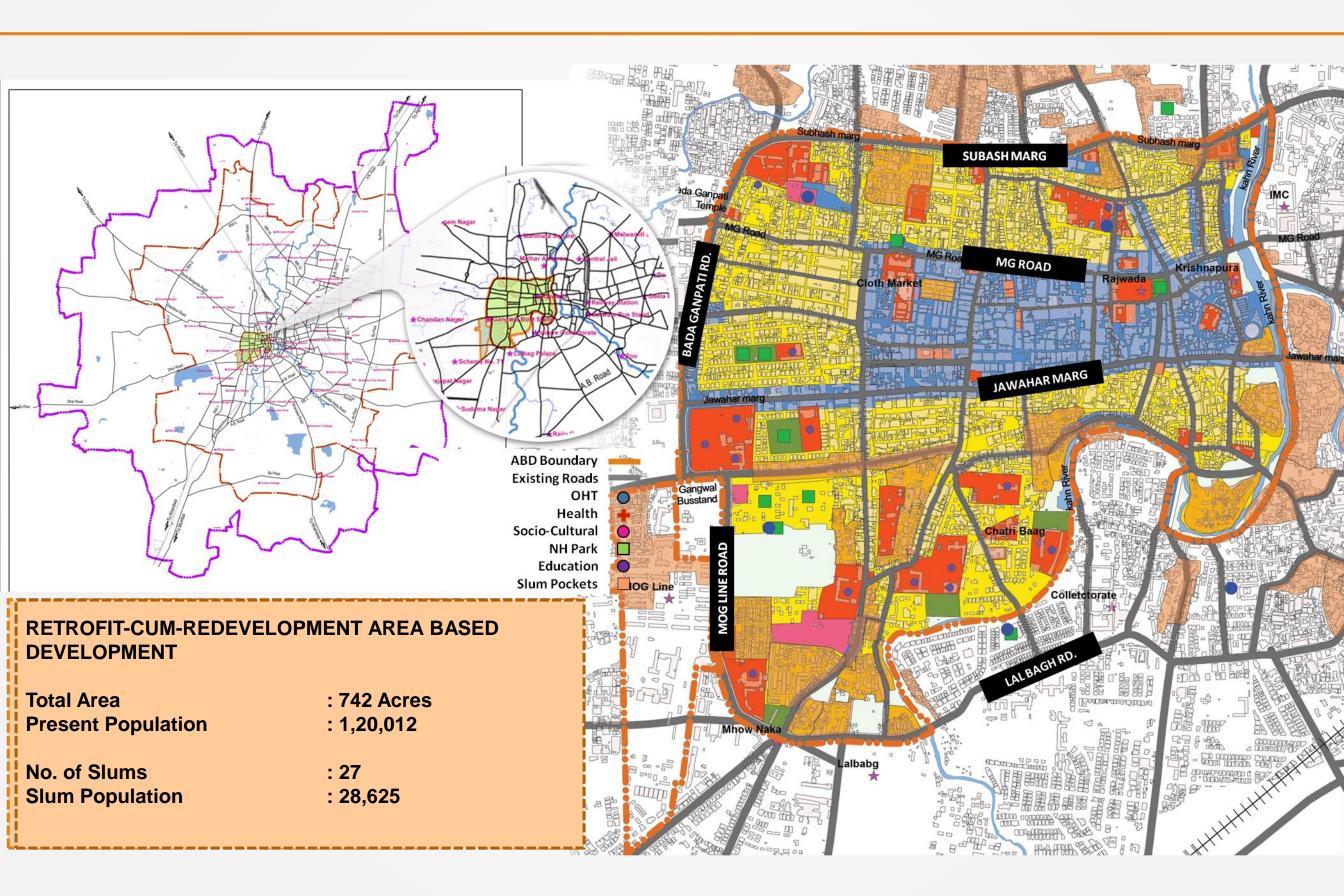


VISION

"Inheritance, Innovation, Inclusion, Incubation and Investment"

"An ideal world-class smart commercial metropolis that thrives on investment opportunities, incubating business and ideas, rich inheritance and inclusive development"

Area Based Development - Existing Situation



Area Based Development - Proposal



RAJWADA RETROFITING CUM REDEVELOPMENT MASTER PLAN ---- AREA BASED DEVELOPMENT PROPOSAL AREA

PROPOSED FEATURES AND COMPONENTS

Identity and Culture

Heritage Walk

Conservation of Built Heritage Development of Plazas

2. Economy and Employment

Incubation & Plug n play centres

Skill Development Centres

Transportation and Walkability

- (Improvement of Roads, Intersections & Pedestrian

Pathways/Crossings, Monitoring of Air Quality) No Vehicle Zone (16% of Selected Area)

P Smart Parking (Capacity 7200 ECS)

4. Redevelopment of Public Land

(Compact Developed on TOD Principles, Mixed use, 3 FAR)

Redevlopment Parcels (16 parcels, 164.45 acres)

Development of 67.74 acres of Public Open

85.30% of built-up area to be Green Buildings in Redevelopment

65% of the terrace covered with Solar Power Rain Water Harvesting & Reuse

Water Supply, Water Management, Waste Water Management and Sanitization

24/7 Water Supply System Re-use of Recycled Water (Dual Piping) 100% Smart Metering with SCADA System Public Toilets

DEWATS (capacity 13500 KL)

River Front Development (3.9 Km)

Chenelization of River Underground Storm Water Drainage Network Riverside Green Buffer with Active Open Space Development of River-Side BRT

6. Solid Waste Management

100% Door to Door Collection Waste To Energy Plants

7. Power Supply & Efficiency

Smart Power Grid for 24/7 un-inturupted Power Smart Energy Meter

8. Underground Electrification & Utility

Underground Ducts for Laying of Utilities incl. **Power Lines**

9. IT Connectivity & IT Enabled Govt. Services

Public Wi-Fi Hot Spots Area Command and Control Center

10. Health & Education

Smart Classrooms

Upgradation of School Facilities Improvement of Health Facilities

11. Safety and Security

Energy Efficient Street Lighting Fire Hydrant System for Dense Areas Muli-Use CCTV Camera

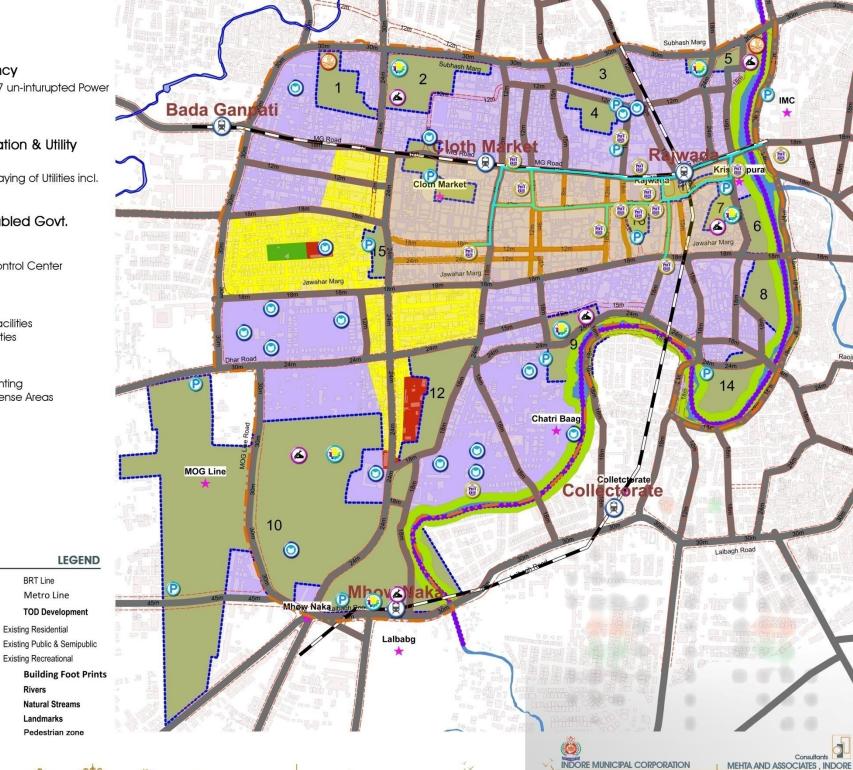
BRT Line

Existing Residential

Existing Recreational

Rivers **Natural Streams**

Metro Line **TOD Development**



Area Based Development - Proposal

PROPOSED COMPONENTS AND ACTIVITIES

Enhanced Transportation and Mobility

Development of roads and junctions

as per street design guidelines (integrated with underground ducting, smart signalization, survillance, traffic management)



Muilti-Level Parking

equipped with smart components (integrated with IT solutions and pan city solutions)



Multi Modal Interchange Facilities and network (integration of NMT, public bike sharing, e-vehicle, traffic management)

Pedestranization of streets and Non-Moterized Zone

(pedestranization of market area and heritage precinct designed as per street design guidelines and smart pedestrian infrastructure)

Heritage conservation and Promotion of Tourism

Conservation of all built heritage , fascade regulations in heritage influence area



Developemnt of heritage walk street

circut with sigange and tourist infrastructure

Development of Plazas and Green open spaces

Environmental upgradation and Green open spaces



River front developement

Development of green buffer, BRT network along river and Recreational openspaces



Recreational Open Spaces

Community and neighbourhood open spaces

Redevelopment of Public land



Energy Efficient and Green Mixed Use Buildings

Compact and Affordable Housing

65% roof covered with solar power units, Ample smart parking and universally accessible spaces

Economy and Employment generation centres



Incubation Centre, Skill development Centre and Plug n Play Facilities

Social Infrastructure



Strengthening of health Infrastructure

Strengthening of Educational Infrastructure

Physical Infrastructure

Upgraded water supply with smart water management system and drainage network



100% sewerage coverage with decetralized treatment Smart waste management system

Redevelopment Proposal Area

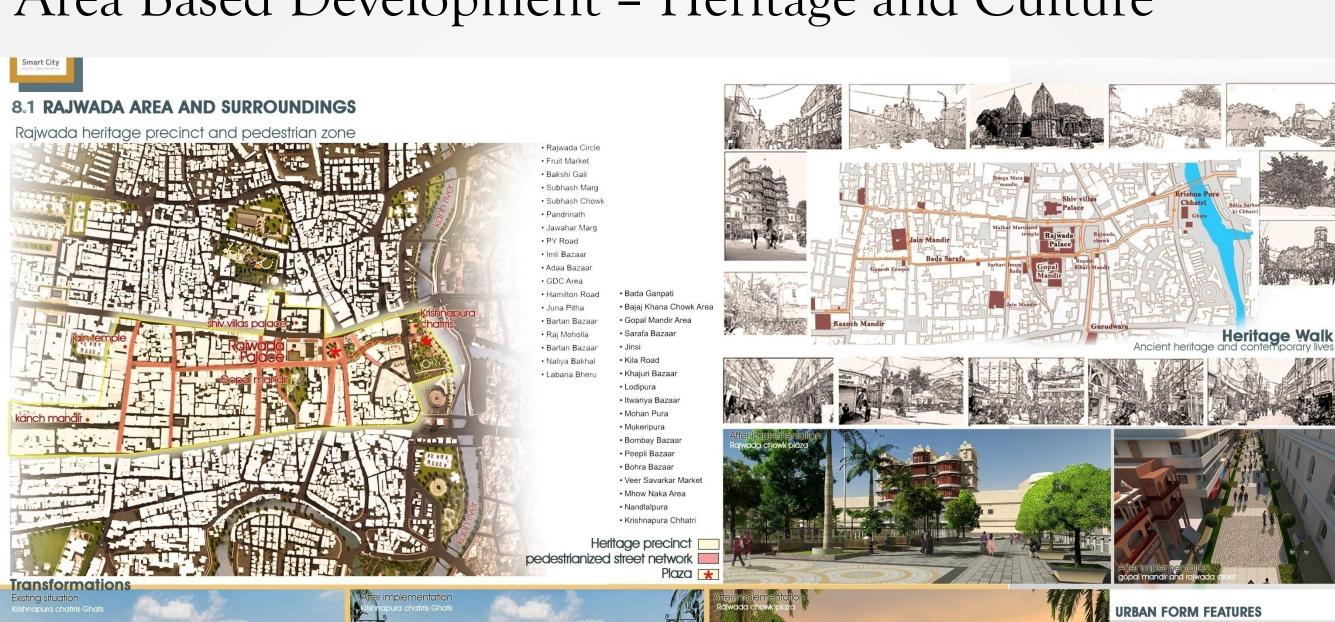
Energy Efficient and Green Mixed Use Buildings



Compact and Affordable Housing for slums
65% roof covered with solar power units, Ample smart parking and
universally accessible spaces



Area Based Development - Heritage and Culture













Oriented Dev.

infrastructure

Mixed-Use &

Compactness

Renewable



Tri V

Universal Accessiblity















Area Based Development - No-Vehicle Zone



URBAN FORM FEATURES



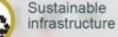






Environment







Mixed-Use & Compactness



Integrated Public Transport



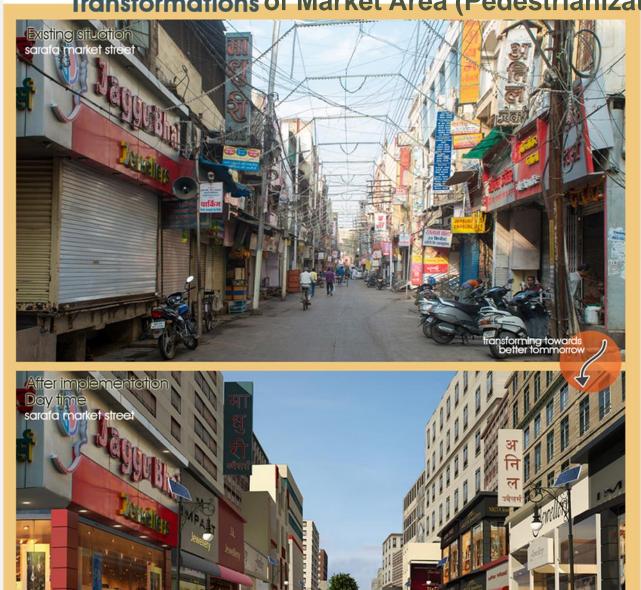


Renewable Energy



Area Based Development - Transformations









Area Based Development - Transformations

Transformation of Kanh River (River Front Development)





Area Based Development - River Front Development & Public Open Spaces



Area Based Development - Redevelopment of Public Land



11.1 REDEVELOPMENT OF PUBLIC LAND

16 Pockets Identified accross the Area Area Under Redevelopment: 164 Acreas Development on TOD Principles Open Space Developed: 33.68 Acres 50% of the Redevelopment Area will be developed as mixed-use, high density (3.0 FAR, residential density of 375 DUs/ Ha























REDEVELOPMENT PARCELS



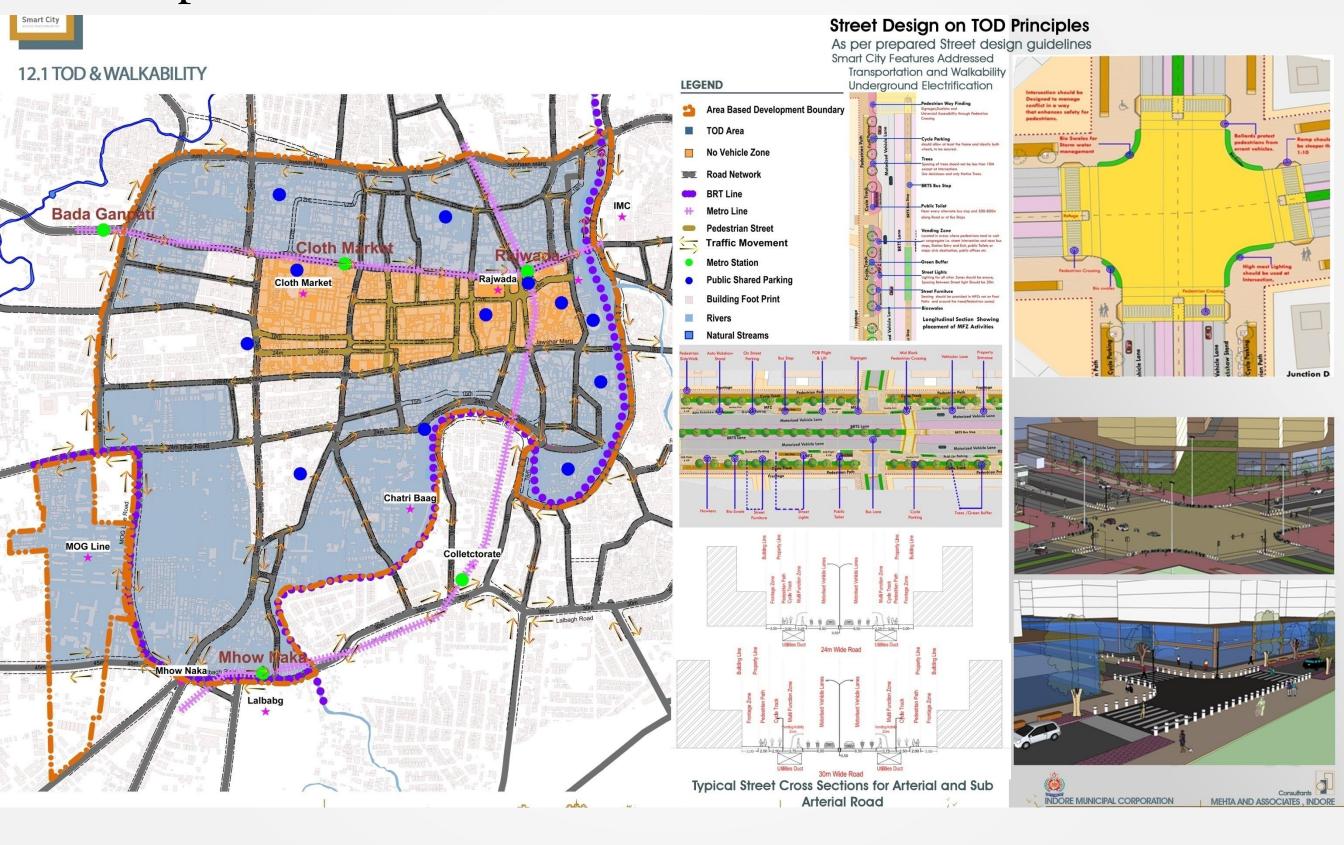
11.2 REDEVELOPMENT THROUGH POLICY DRIVEN STRATEGIES







Area Based Development - Transit Oriented Development



fleet present in service

Highlight service areas

affected due to

unavailability of

resources.

(ISWM) Management Intelligent

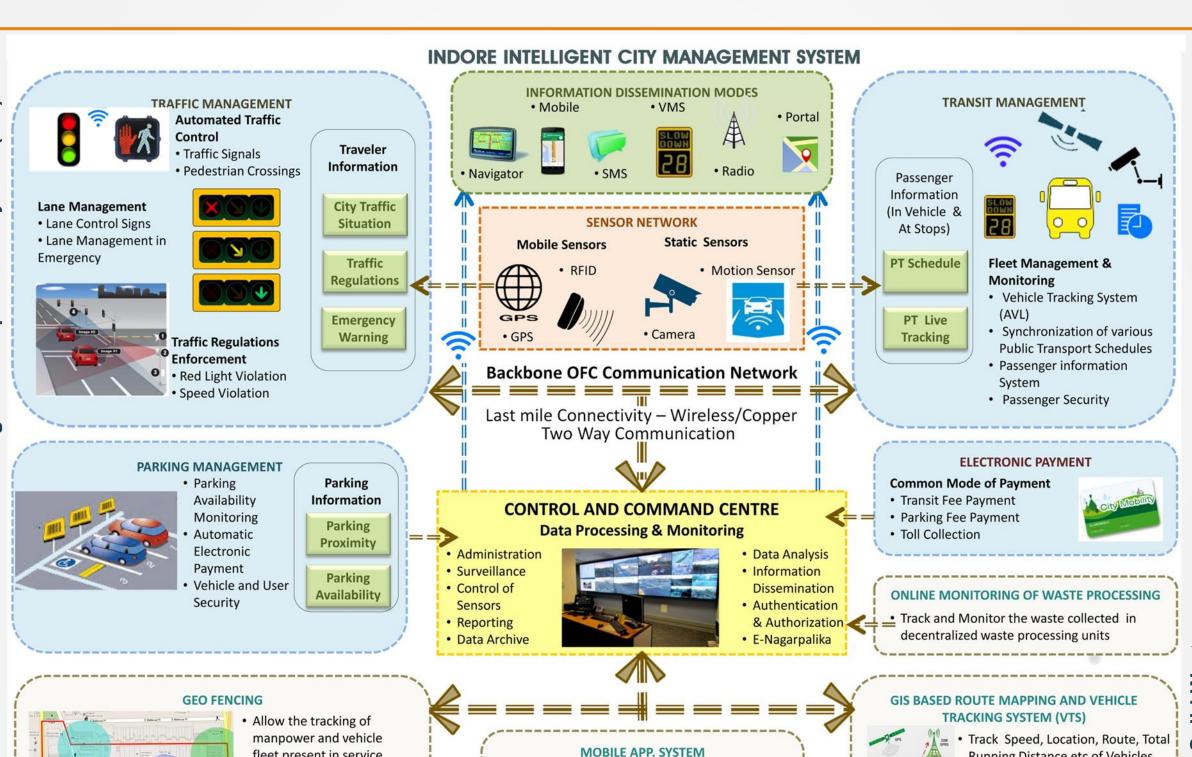
Running Distance etc of Vehicles

Locate the secondary collection

points and waste bins locations

Planning based upon above data.

Optimized Route Mapping and



· Track the Safai Mitra (SM)

· Coordination time with SM

· Register complaints for Litter

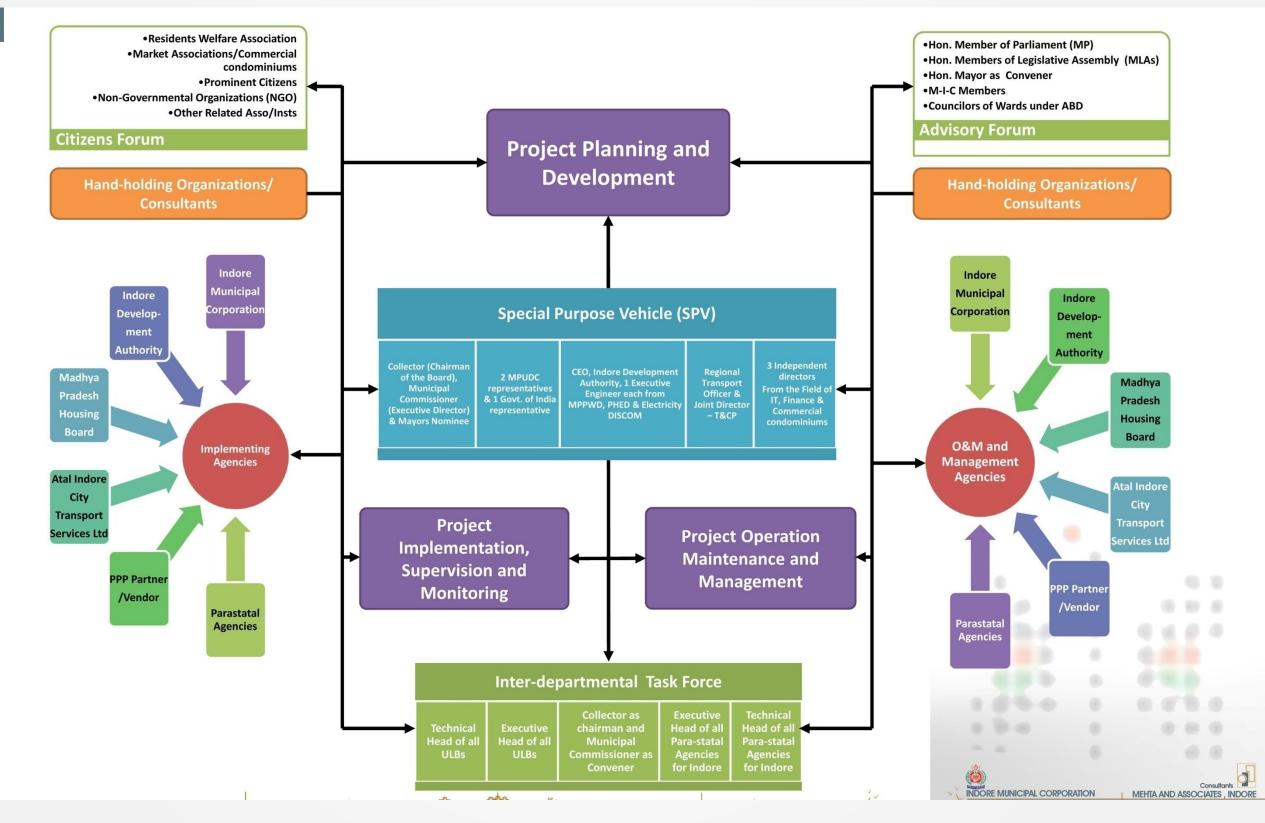
· Register complaint of Absenteeism

• Toll free helpline for 24x7 support

Transparent billing of user charges

Role of Various Stakeholders





Financial Plan – Project Cost

PROJECT COST	
Component wise cost of Retro-fitting-cum-Redevelopment ABD Proposal	
Identity & Culture	46.00 Crs
Economy & Employment	45.00 Crs
Transportation & Walkability	507.43 Crs
Redevelopment of Public Land	2991.02 Crs
Water Supply, Water Management, Waste Water Management and Sanitation	452.95 Crs
Solid Waste Management	3.52 Crs
Power Supply & Efficiency	72.38 Crs
Underground Electrification & Utilities Shifting	227.26 Crs
IT Connectivity & IT Enabled Govt Services	42.96 Crs
Health & Education	16.56 Crs
Safety & Security	63.69 Crs
Component wise cost of Pan-City Proposal – IICMS	
Central Command & Control Center, Backbone OFC Comm. Network & City Dashboard Activity	118.00 Crs
Intelligent Transport System (ITS)	250.00 Crs
Intelligent Solid Waste Management (ISWM)	20.00 Crs
Administrative and O&M Expenses	242.84 Crs
TOTAL	5099.60 Cr

Financial Plan – Revenue Sources

RESOURCES PLAN	
Capital Structure	
Tied Grant from Government of India (GOI) under SCM/IMC Equity	488 Crs
Equity from Government of Madhya Pradesh (GOMP)	488 Crs
Convergence with Grants from GOI/GOMP under Various Missions/Programmes/Schemes (AMRUT, PMAY, IPDS, SBM, Digital India, Skill India)	600.4 Crs
Revenue Sources from Realestate Sale in Redevelopment of Govt Land and Premium on FAR from TOD and Redevelopment on Private Land	
Real-Estate Sale from Redevelopment Component (Present Value)	3,565 Crs
Premium on Additional FAR from TOD and Redevelopment on Private Land (Present Value)	2,775 Crs
SPV should be able to raise resources to the extent of	6,340 .00 Crs
Against Total Invest	5,099.60 Crs
RECURRING REVENUE from ABD Area	
RECURRING REVENUE from ABD Area Smart City Cess (+ from 6 th Year)	8.9 Crs
	8.9 Crs 59.4 Crs
Smart City Cess (+ from 6 th Year)	
Smart City Cess (+ from 6 th Year) Enhanced Property Tax (+ from 6 th Year)	59.4 Crs
Smart City Cess (+ from 6 th Year) Enhanced Property Tax (+ from 6 th Year) Water Charge (+ from 6 th Year)	59.4 Crs 21.85 Crs
Smart City Cess (+ from 6 th Year) Enhanced Property Tax (+ from 6 th Year) Water Charge (+ from 6 th Year) Sewerage Cess (+ from 6 th Year)	59.4 Crs 21.85 Crs 10.92 Crs
Smart City Cess (+ from 6 th Year) Enhanced Property Tax (+ from 6 th Year) Water Charge (+ from 6 th Year) Sewerage Cess (+ from 6 th Year) MSW Charge (+ from 6 th Year)	59.4 Crs 21.85 Crs 10.92 Crs 10.42 Crs

Financial Plan - Project Cost

Component wise cost of Retro-fitting-cum-Redevelopment ABD Proposal	
• Identity & Culture	46.00 Crs
• Economy & Employment	45.00 Crs
• Transportation & Walkability	507.43 Crs
Redevelopment of Public Land	2991.02 Crs
Water Supply, Waste Water Management and Sanitation	452.95 Crs
Solid Waste Management	3.52 Crs
Power Supply & Efficiency	72.38 Crs
• Underground Electrification & Utilities Shifting	227.26 Crs
• IT Connectivity & IT Enabled Govt Services	42.96 Crs
Health & Education	16.56 Crs
• Safety & Security	63.69 Crs
Total Cost of Retro-fitting-cum-Redevelopment ABD Proposal	4468.76 Crs
Component wise cost of Pan-City Proposal – IICMS	
• Central Command & Control Center, Backbone Comm. Network	118.00 Crs
• Intelligent Transport System (ITS)	250.00 Crs
• Intelligent Solid Waste Management (ISWM)	20.00 Crs
Total Cost of Pan-City Proposal – IICMS	388.00 Crs
Administrative and other Expenses	242.84 Crs
Total Cost of Smart City Proposal	5099.60 Crs

Financial Plan – Revenue Sources

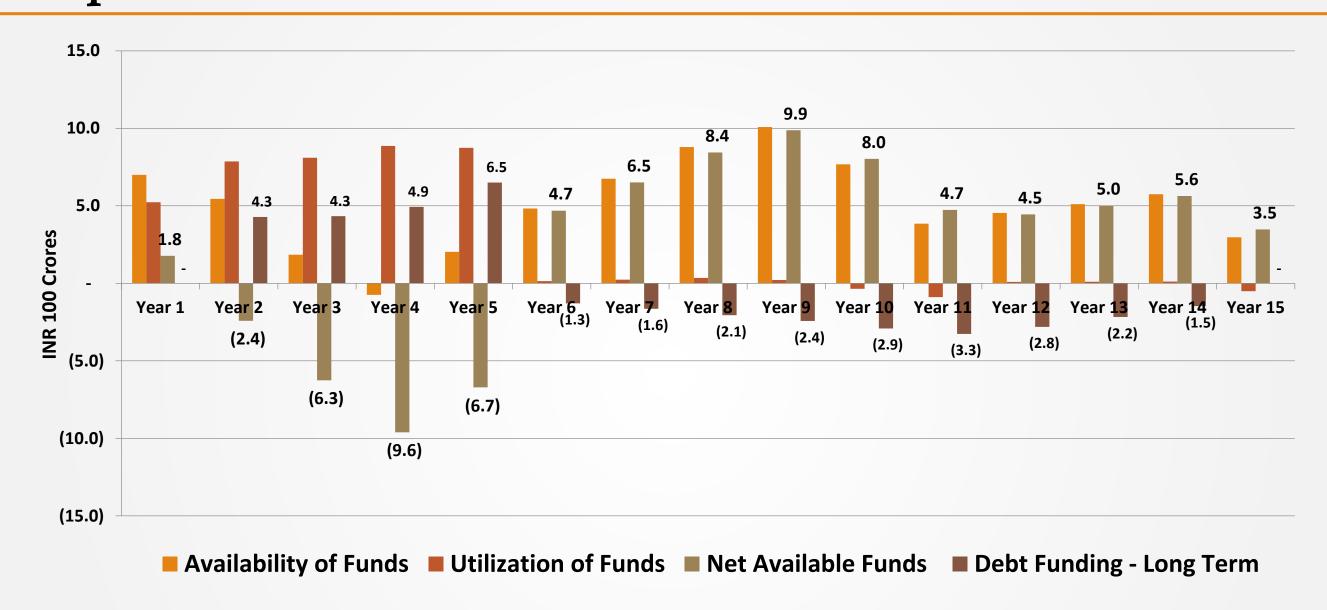
Capital Structure	
Tied Grant from Government of India (GOI) under SCM/IMC Equity	488.00 Crs
• Equity from Government of Madhya Pradesh (GOMP)	488.00 Crs
 Convergence with Grants from GOI/GOMP under Various Missions/Programmes/Schemes (AMRUT, PMAY, IPDS, SBM, Digital India, Skill India) 	600.40 Crs
Total Capital Structure	1576.40 Crs
Revenue Sources	
• Real-Estate Sale from Redevelopment Component (Present Value)	- 3565.00 Crs
• Premium on Additional FAR from TOD and Redevelopment (Present Value)	- 2775.00 Crs
Total Revenues against investment of Rs 5099.60 Crs	- 6340.00 Crs
SPV would use Free Cash-flow for Equity accumulated after the end of mission period (i.e. INR 2,785.7 crore (present value INR 1,110.2 crore) as seed capital	

Annual Recurring Revenue from ABD Area 124.30 Crs

for future replicable models

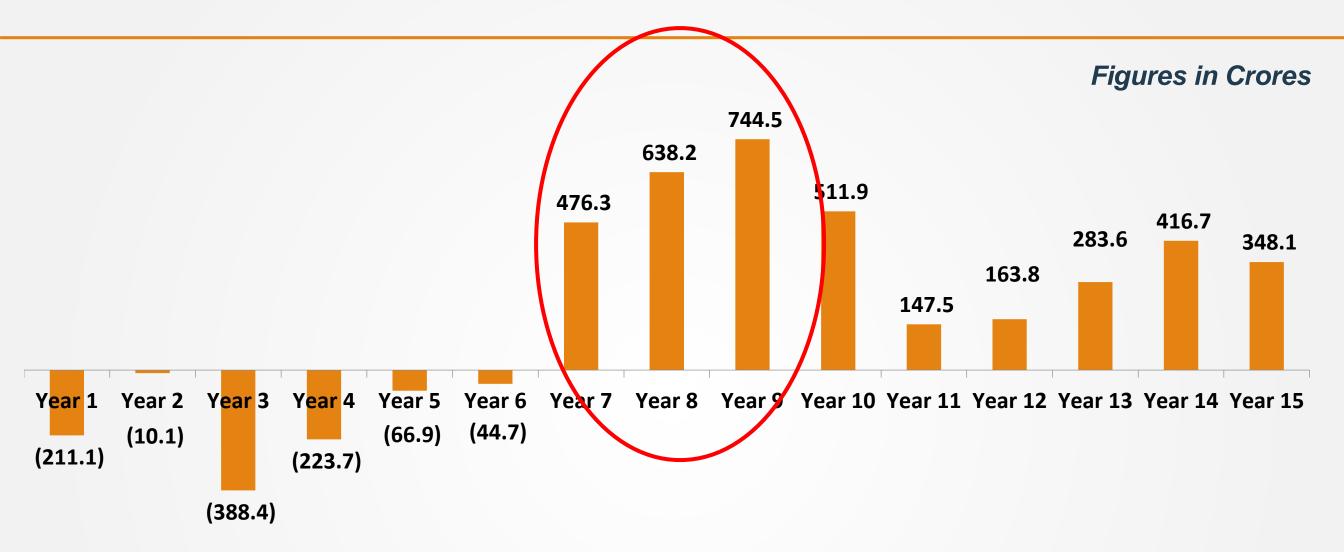
Enhanced Property Taxes etc. Due to Change in Rate Zone

Financial Plan – Fund Availability, Utilisation and Debt Requirement



- Debt Requirement during Year 2-5 sue to deficiency in Net Available Funds
- Surplus fund availability during Year 6-15 earning Free Cash-flow for Equity and enabling Debt Repayment

Financial Plan – Free Cash-flow for Equity



SPV would use Free Cash-flow for Equity accumulated after the end of mission period (i.e. INR 1859.0 crore (present value INR 1,109.0 crore) as seed capital for future replicable models

Key Features of Proposal

- The Proposal has evolved from the Vision leading to Inheritance, Innovation, Inclusion, Incubation and Investment
- The Proposal Addresses
 - Inheritance of rich Cultural and Economic Heritage
 - Conservation of Heritage
 - Heritage Street Development and Creation of Plazas, Avenues & spaces for leisure
 - Façade Treatment for Heritage Streets
 - · Rejuvenation and Innovation in spatial re-structuring of Urban Form through Innovations like
 - Transit Oriented Development
 - Focus on Pedestrian and NMV Safety
 - No-Vehicle Zones and Parking
 - River Front Development and creation of usable public Open spaces for Recreation and Leisure
 - Innovation in Energy conservation, Energy efficiency and re-use of recycled waste water

Key Features of Proposal

• The Proposal Addresses

- Inclusive Urban Governance and Citizen Services for better lifestyle,
 - Creation of Affordable Housing
 - Integrating proposals for Slums and informal settlements
 - Sustainable Urban Mobility, Traffic Management measures and Improved access to Public Transport
 - Improved Environment by addressing Water, Wastewater and Solid Waste Management systems
 - Provision of world class infrastructure with assured Power supply, Water Supply, Road Infrastructure, Underground Utilities, Increase in usable road space
 - Improved IT Connectivity and use of ICT in management of Citizen services

Key Features of Proposal

The Proposal Addresses

- Incubation of the Urban Work Force
 - Provision of Incubation centers and skill Development centers
 - Use of Schools after school hours for community learning initiatives and skill development
 - · Creation of employment opportunities by rejuvenating traditional market streets and urban economy
- Enabling Indore to be a Destination for Investment
 - Attracting investment in City through world class development of ABD and Pan City Proposal
 - Incentives for development on TOD Principles
 - Robust Financing Model
 - Use of grant as seed capital and regenerating seed capital for future replicable models;

Indore Smart City Proposal a Documentary

Thank You



Indore Municipal Corporation