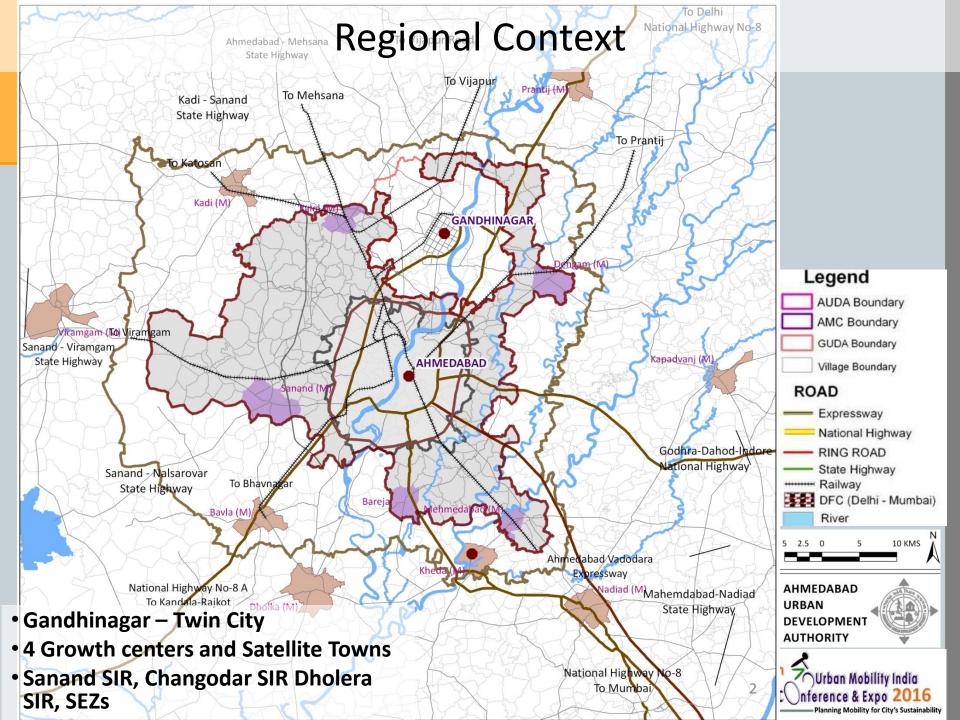


# LEADERS IN URBAN TRANSPORT PLANNING

Ahmedabad Urban Development Authority





## What motivated/helped us

- Used lessons learnt from other cities and cases for better decision making.
- Idea of integrated strategic planning and transport management
- Attempt to understands the complexities of urban transport problems and possible context-sensitive solutions.
- Recognized the need for integrated mobility planning



# Learning from the historic "Core City"



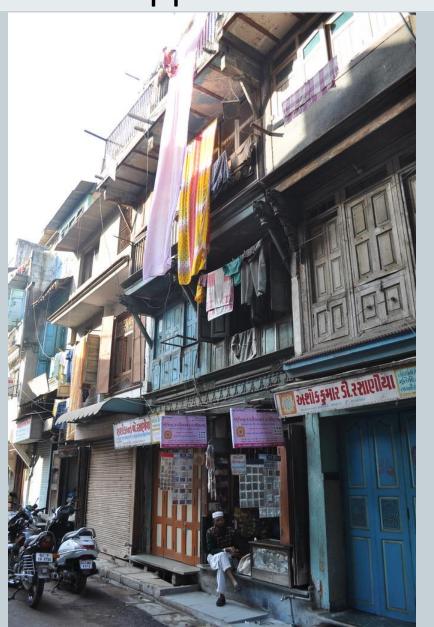
## Is it vibrant Commercial Hub?



# Is it really Pedestrian friendly street?



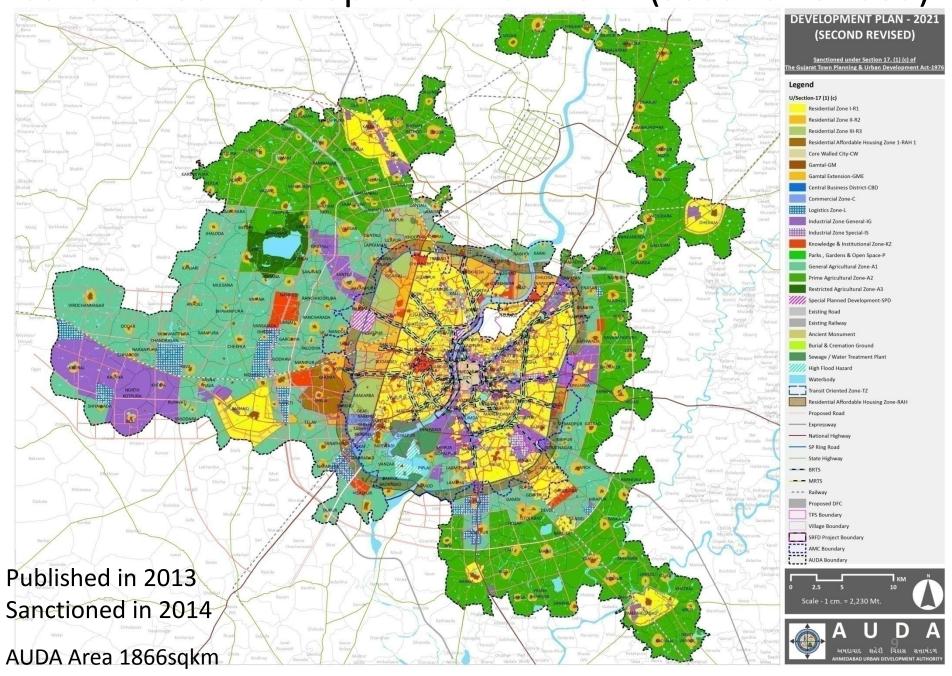
# Mixed uses – Commercial on GF & Residential on upper floors





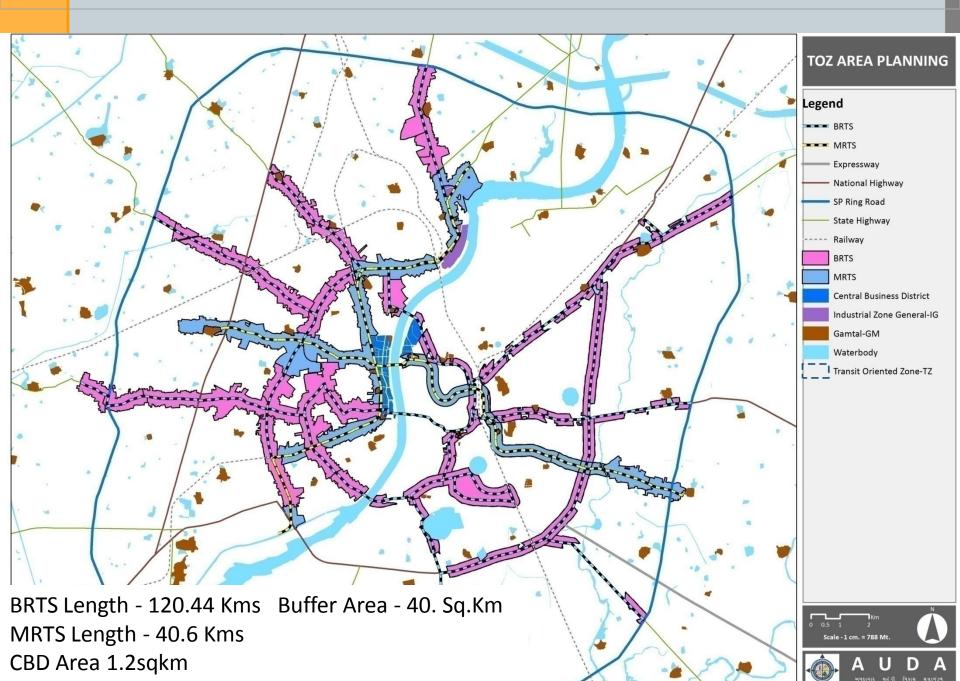


# Sanctioned Development Plan 2021 (second revised)





### To meet up the need for integrated mobility planning



# Managing Densification of Ahmedabad's Commercial Hub and Mixed-Use Corridors



### Local Area Plan

Planning or redefine the existing developed or undeveloped or developing area in terms of accessibility, walkability, and connectivity as well plan for future infrastructure, amenities and utilites requirements to sustain the future density and growth.



The challenge is to ensure that this transformation does not lead to stressed infrastructure or more congestion



The Ahmedabad Urban Development Authority and the Ahmedabad Municipal Corporation are developing a plan to meet this challenge



How?

### **Planning Initiations**

- Bombay Town Planning Act, 1915 (Provided for T.P. Schemes only)
  - 11 TP Schemes 1<sup>st</sup> TPS Jamalpur, 1920
- Bombay Town planning act, 1954 (DP & T.P. Schemes for Municipal areas)
  - 20 TP Schemes
  - First DP AMC 1965, Revised DP AMC 1983
- Gujarat Town Planning & Urban Development Act, 1976
- Formation of Area / Urban Development Authority
  - 134 TP Schemes AUDA
  - First DP AUDA 1987,
  - First Revised DP AUDA 2002
  - Second revision Sanctioned Development Plan -2021

Amendment in Gujarat Town Planning & Urban Development Act, 1976

-Local Area Plan



## **Urban Planning Process**

#### 3 tier Planning Process

First Tier "Development Plan" (Macro Level)

#### - AUDA (AUDA+ AMC)

Zoning Proposals

Regulation for Development

City level Transportation and infrastructure planning and implementation

Second Tier "Town Planning Schemes" (Micro Level)

#### - AUDA + AMC

Land reconstitution

Neighborhood level road network, social and physical infrastructure

Financing of neighborhood level infrastructure

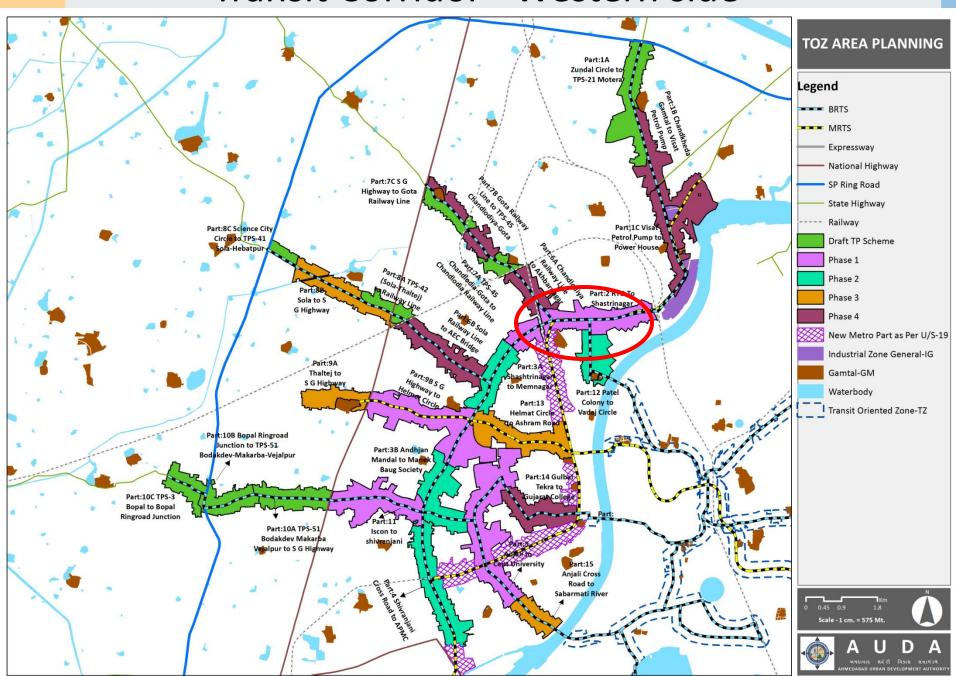
Third Tier "Local Area Plan" (Micro Level)

- AUDA + AMC



# Keys to prepare and implement Local Area Plan

### Transit Corridor- Western side



### Aspects to be considered for Transit Oriented Zone

- Higher density development
- Pedestrian friendly streets
- Green Network
- Efficient use of front margin
- Efficient use of ground
- Higher transit connectivity
- High intensity of infrastructure
- Well designed and well managed public parking (On-street & Off-street )
- Destine to city tourist places, Economic Centre, Commercial hub and major transit route

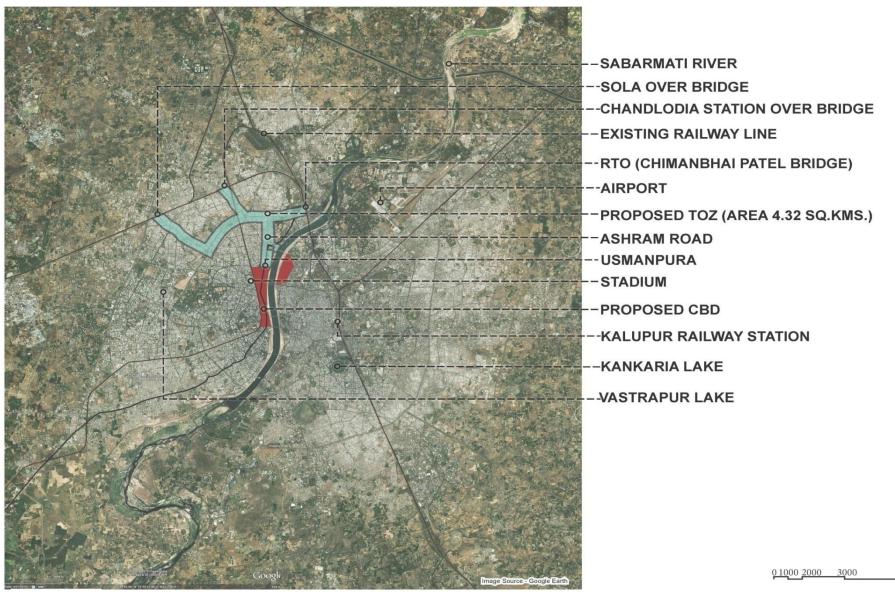


- 1. Facilitating the Public Transport
- 2. Improving walkability by reducing block sizes
- Expanding the public realm

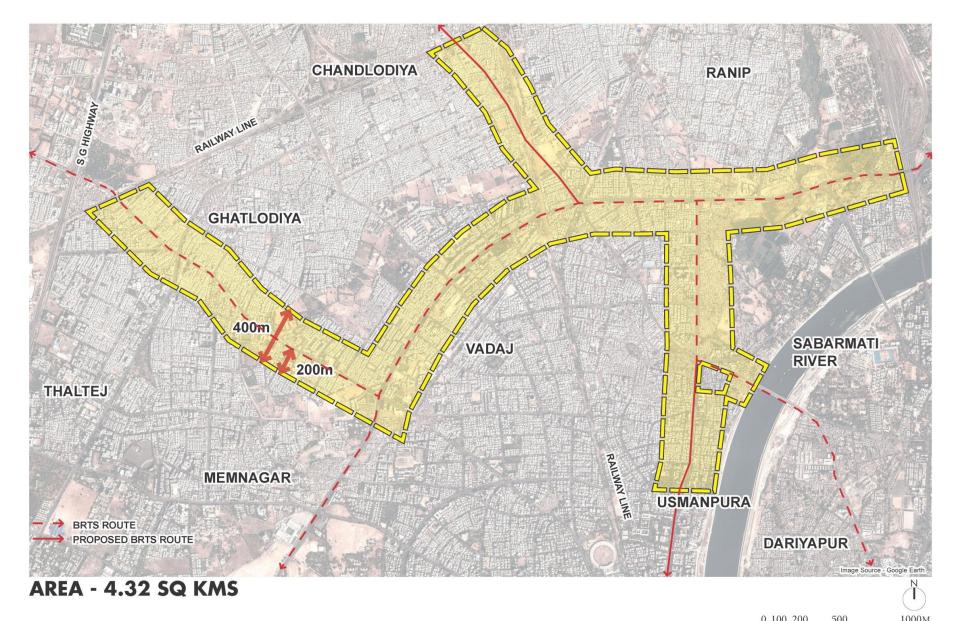


# UNDERSTANDING THE AREA

# Local Area Plan – TOZ Wadaj

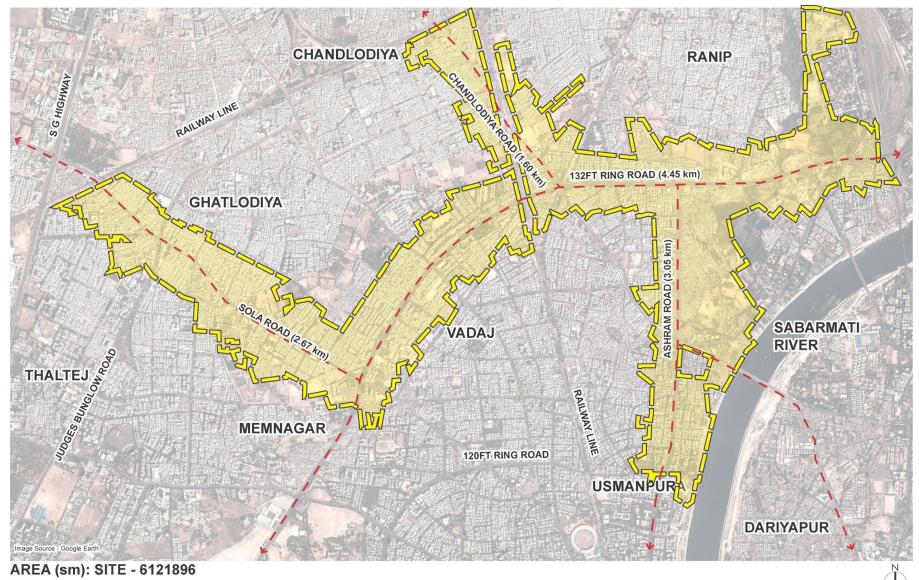






SOURCE: AUDA

Ourban Mobility India
Conference & Expo 2016
Planning Mobility for City's Sustainability



**GAMTAL - 48394** 

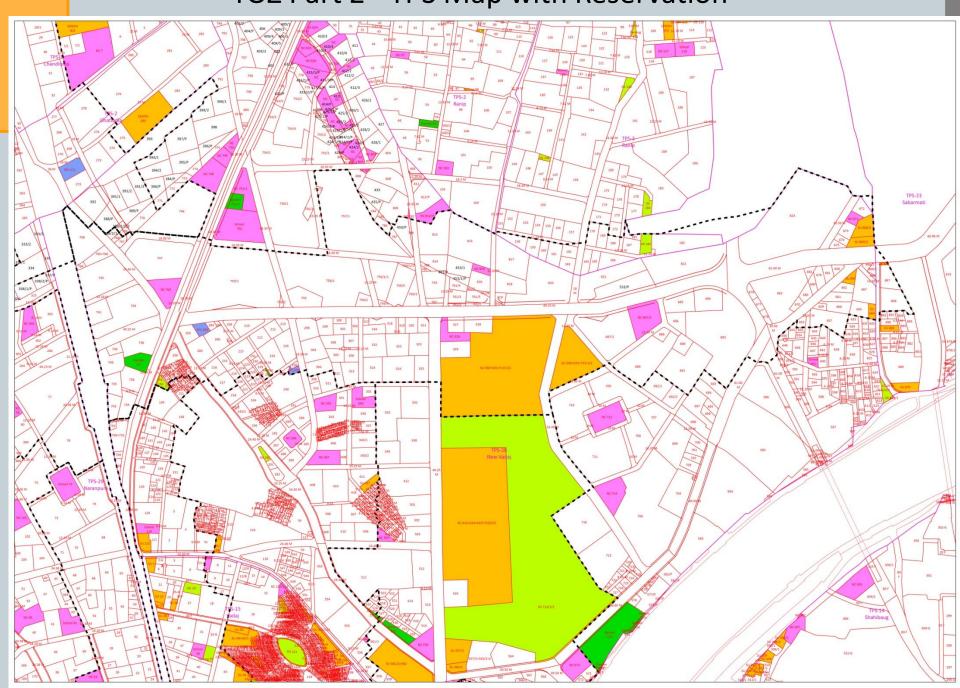
TOTAL - 5497645 (5.49 SQ KMS)



# TOZ Part 2 as per Zoning



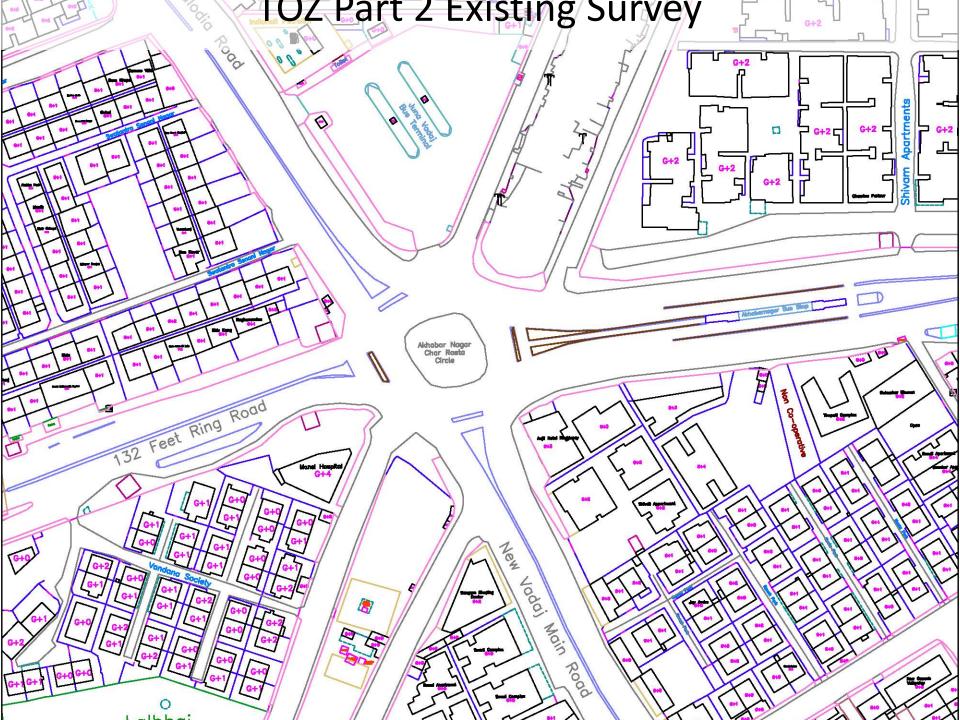
### TOZ Part 2 - TPS Map with Reservation



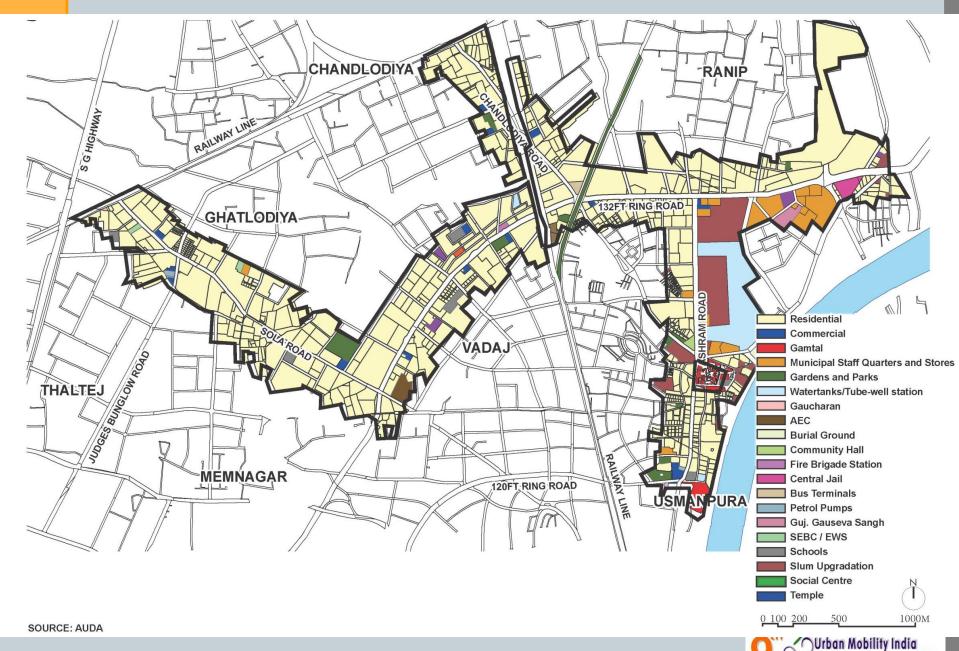
# **TOZ Part 2 Existing Survey**







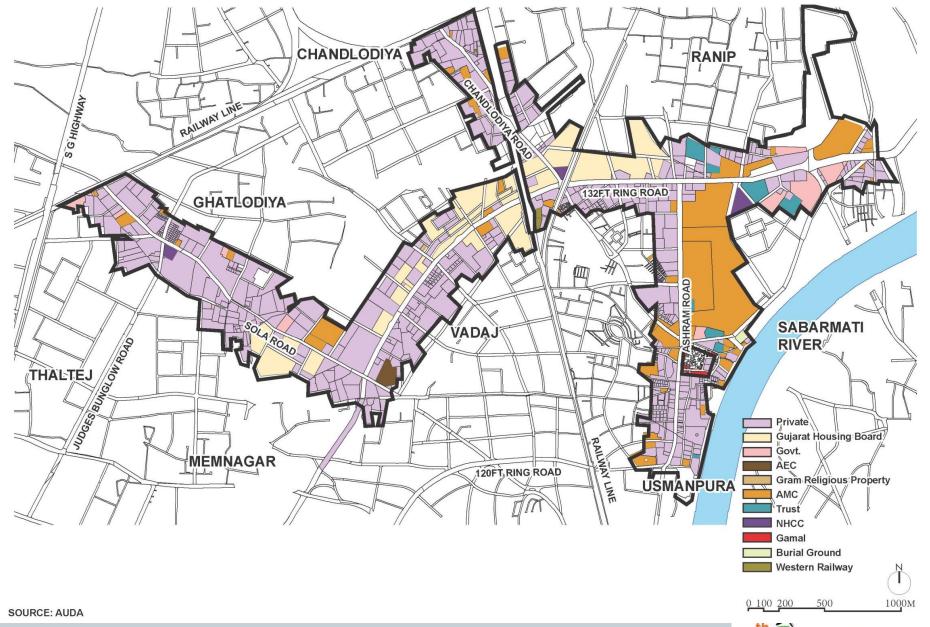
### Land Use Analysis



nference & Expo 2016

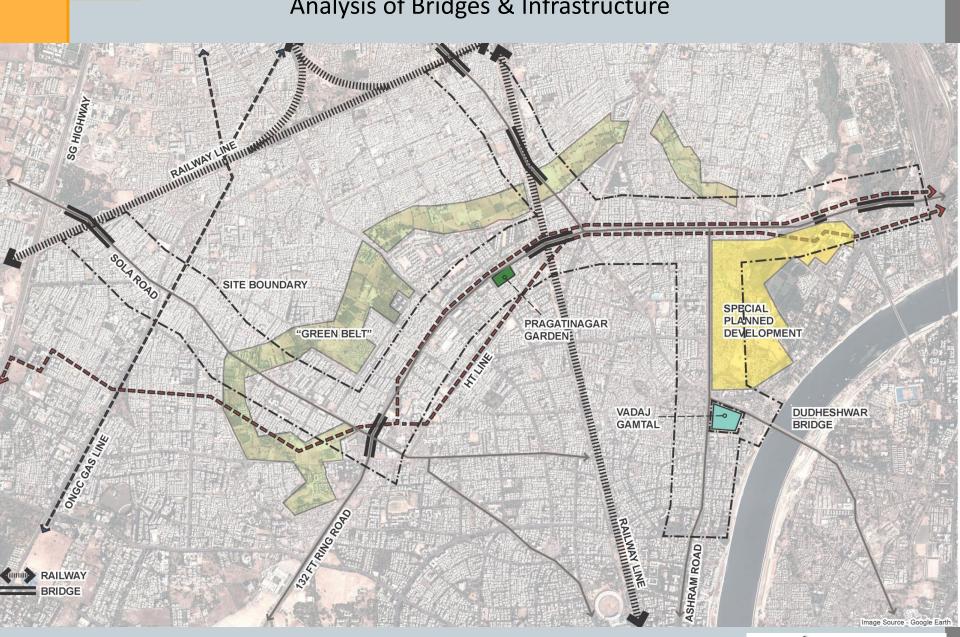
Planning Mobility for City's Sustainability

### **Ownership Analysis**



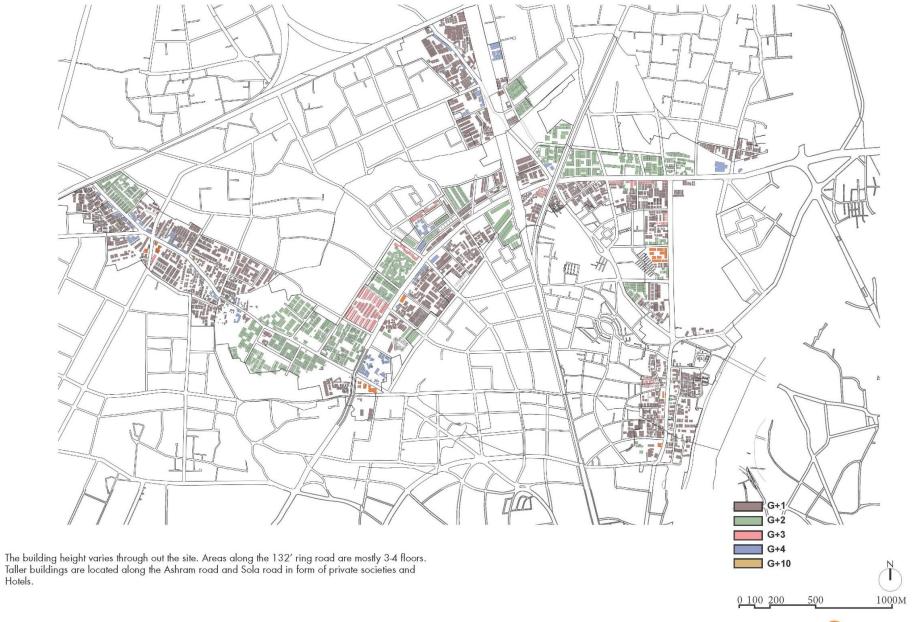


### Analysis of Bridges & Infrastructure





### **Building Height Analysis**



Hotels.



### Build form -132 ft. Ring Road



ASHOPALAV APARTMENTS
Use & Typology - Residential Low Rise
Ownership & Type - Private/ Gujarat Housing Board



SAMPARN TOWER Use & Typology - Residential High Rise Ownership & Type - Private



SHANTI ARCADE Use & Typology - Commercial (Shops & Offices) Ownership & Type - Private



GUJARAT HOUSING BOARD Use & Typology - Government Office Ownership & Type - Public



SHIVAM APARTMENTS Use & Typology - Residential Low Rise Ownership & Type - Private



SHRIKANT NAGAR, RONAK PARK ROAD Use & Typology - Residential Bunglows Ownership & Type - Private



### Build form – Juna Vadaj- Ramapir Tekra- Ashram Road



HOTEL FORTUNE LANDMARK Use & Typology - Hotel Ownership & Type - Corporate



GOKULNAGAR SOCIETY Use & Typology - Residential Bunglow Ownership & Type - Private



JUNA WADAJ BUS TERMINAL Use & Typology - Government - Transit Ownership & Type - Public



JUNA WADAJ SLUM AREA Use & Typology - Residential Slum Ownership & Type - Public/Private



OZONE AANGAN Use & Typology - Residential High Rise Ownership & Type - Private

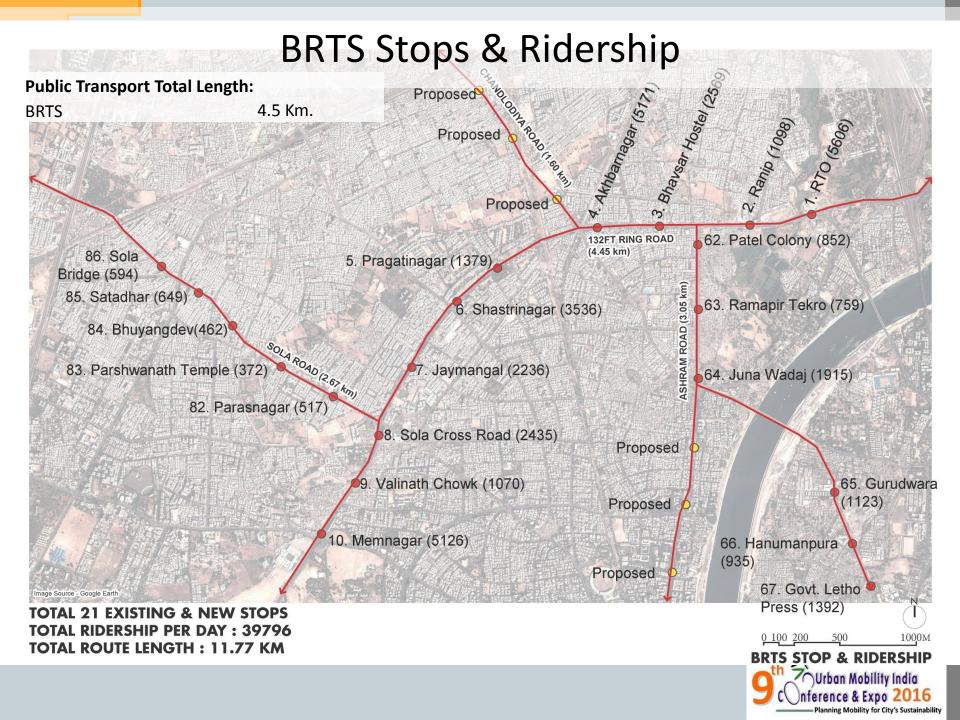


NEEL COMPLEX Use & Typology - Residential Low Rise Ownership & Type - Private

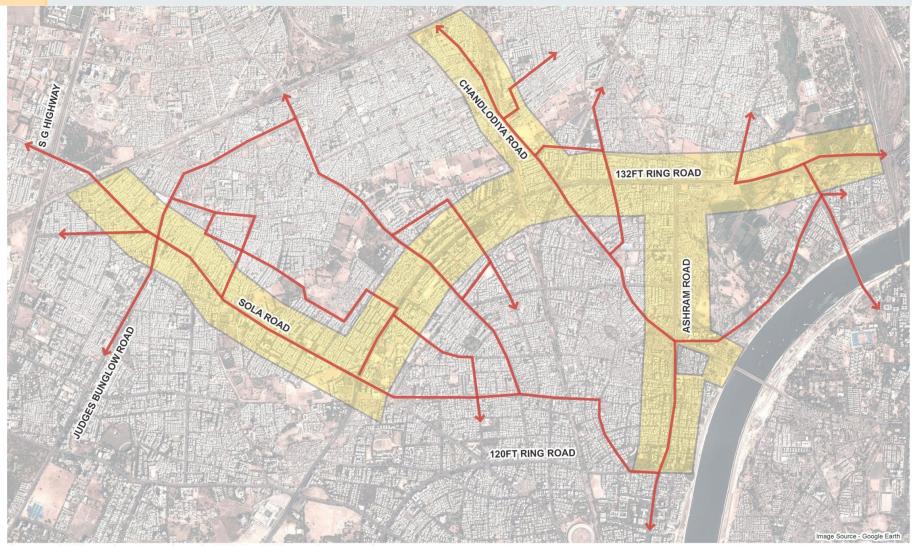


# **Facilitating the Public Transport**



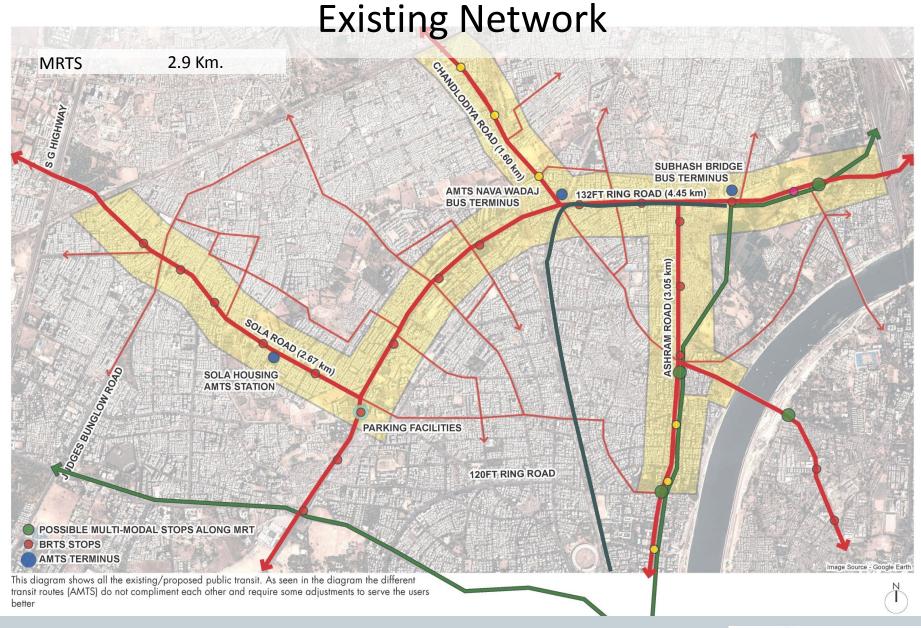


#### **AMTS Route**

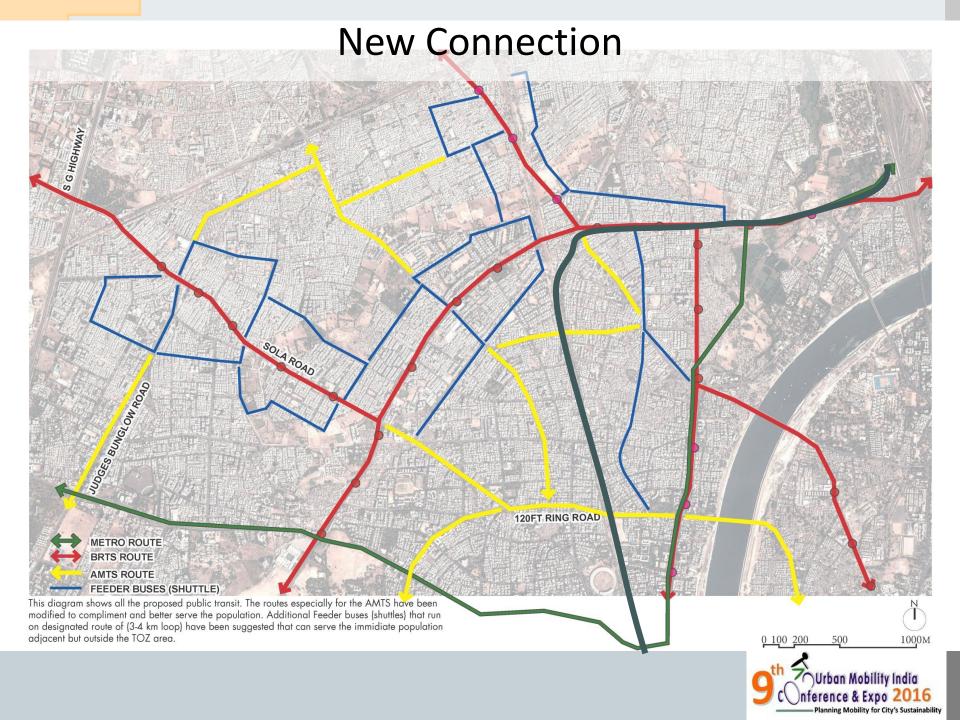


The present AMTS route does not compliment the BRTS. The AMTS network requires redesign to better serve the transit users. In some cases the AMTS and BRTS follow the same route which may be unnecessary. While some areas are not well served, a well-designed AMTS that work with BRTS will help increase the overall use of the public transit system and ridership.





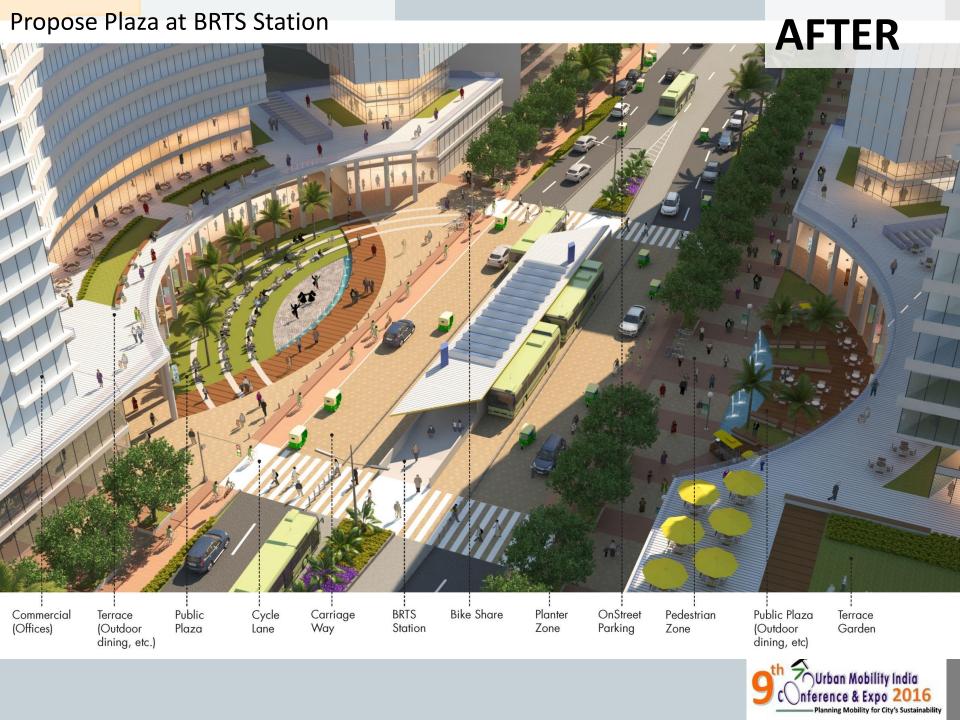




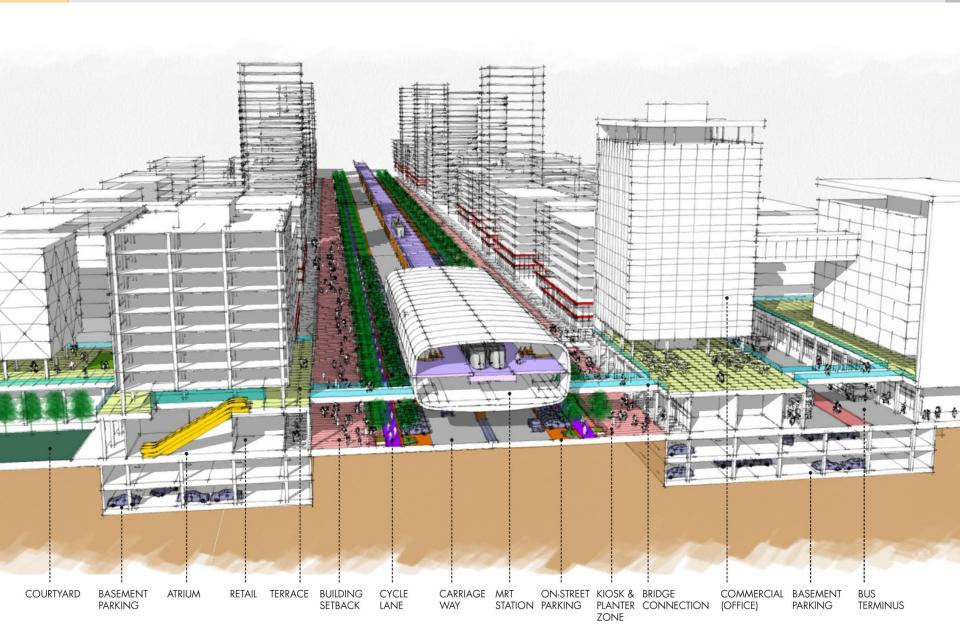
# **Existing BRTS Station**

# **BEFORE**





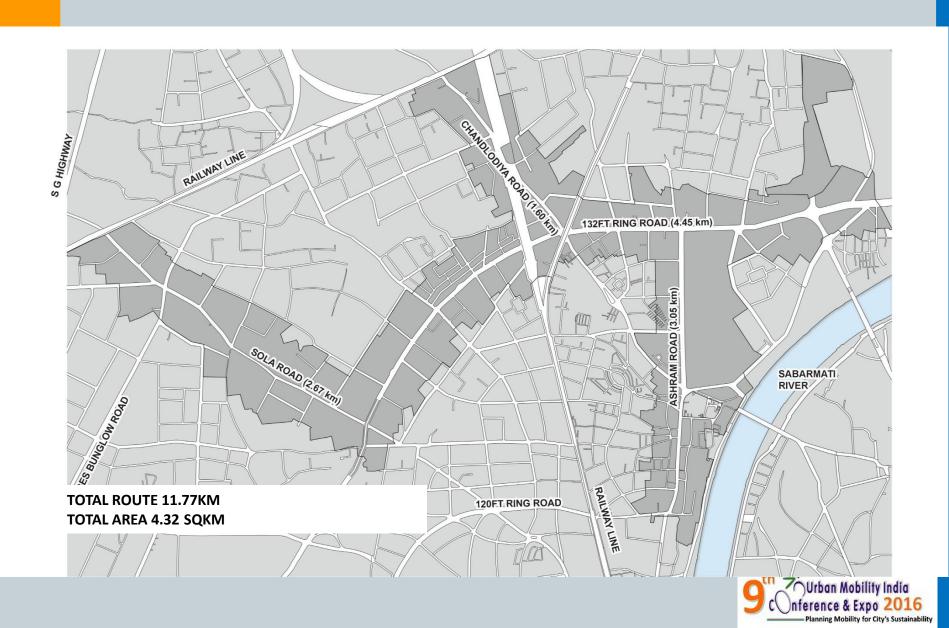
# Propose Schematic View Near MRT Station



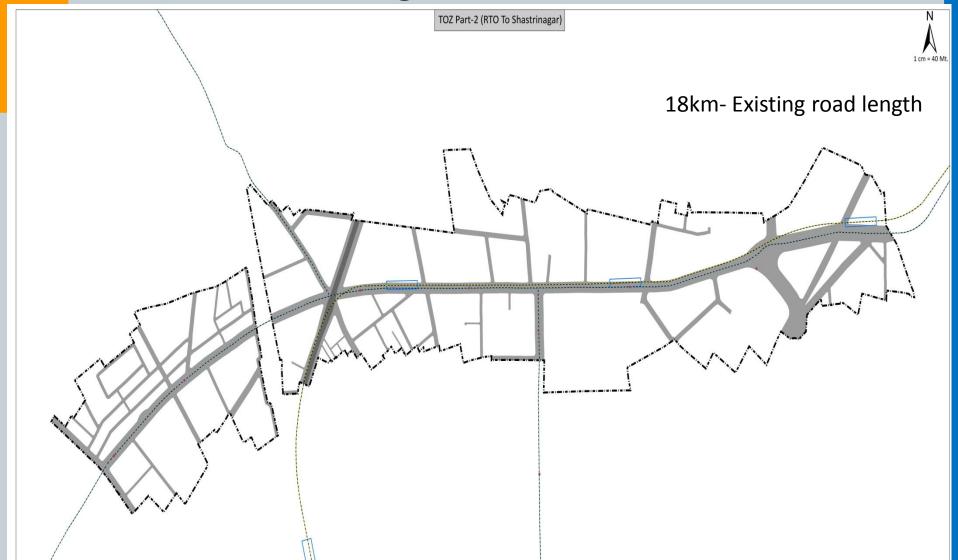
# Improving walkability by reducing block sizes



# Existing Street Network-TOZ Wadaj

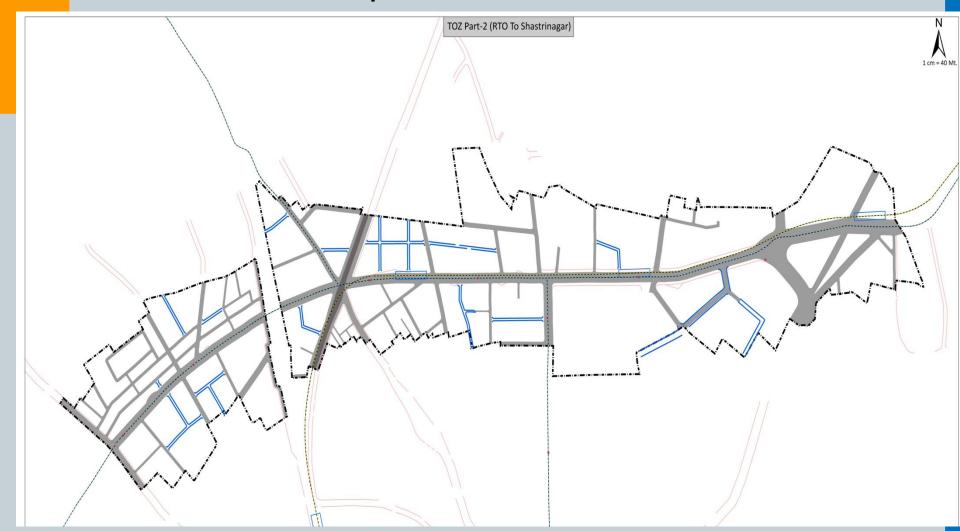


# Existing notified road



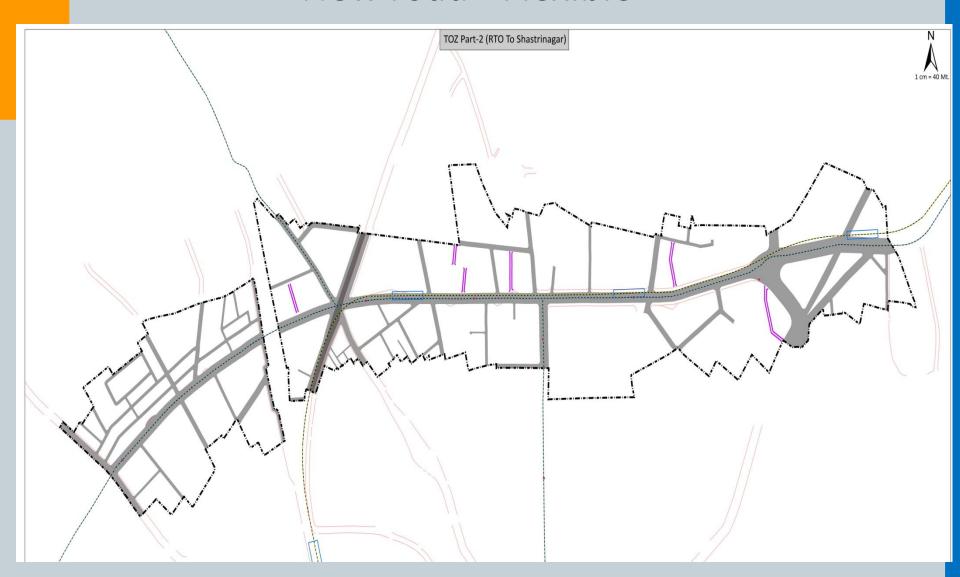


# New Proposed Road-ROW 1



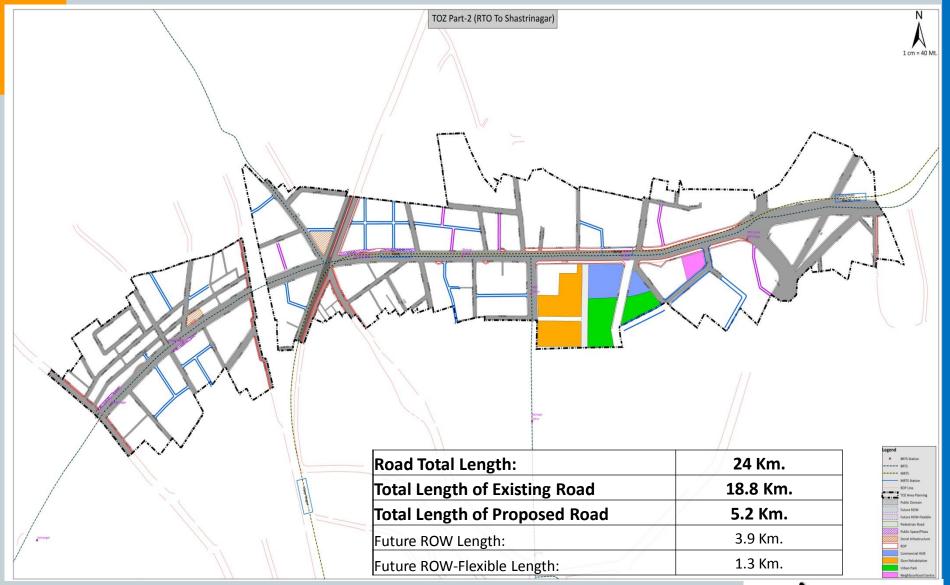


# New road - Flexible





# **Proposed Network**





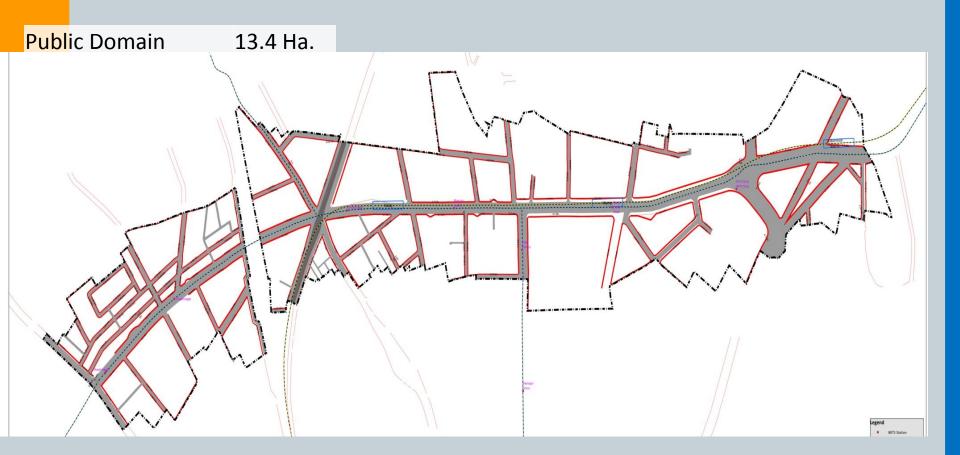
# Street Hierarchy



# **Expanding the public realm**

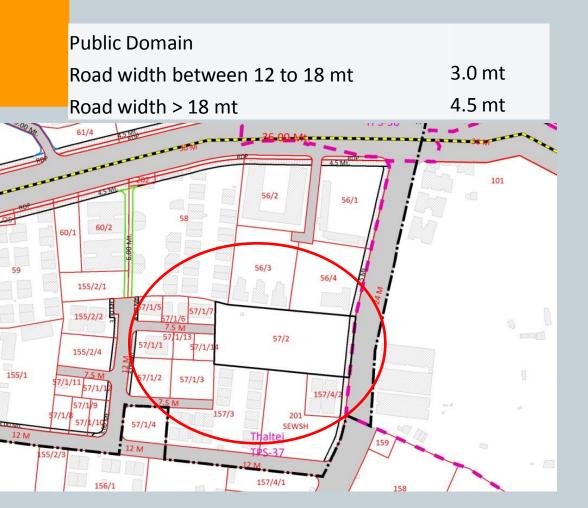


# Public domain



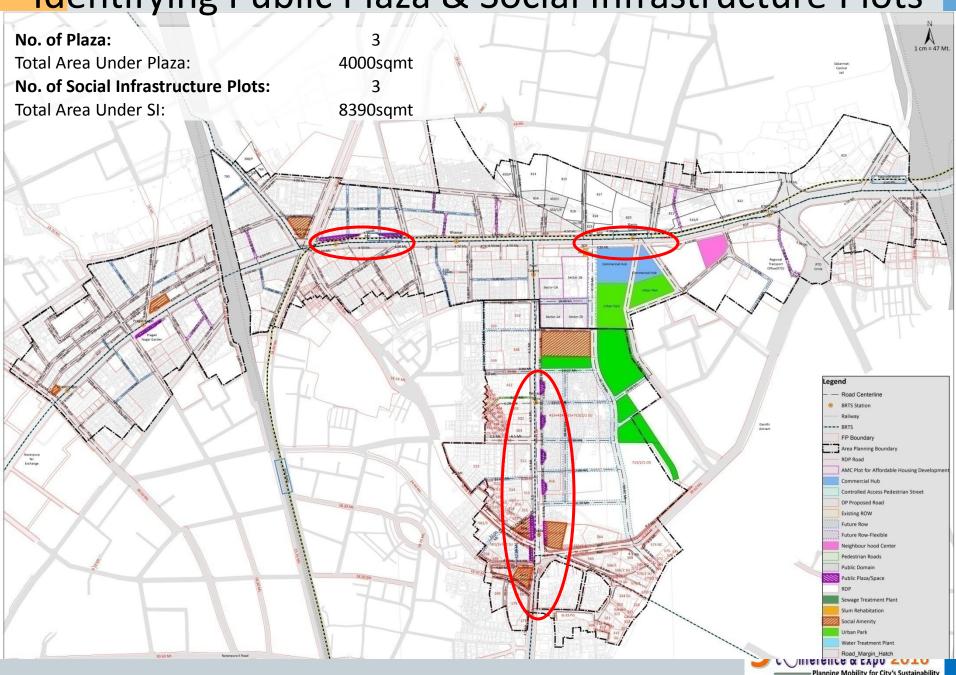


#### Public domain

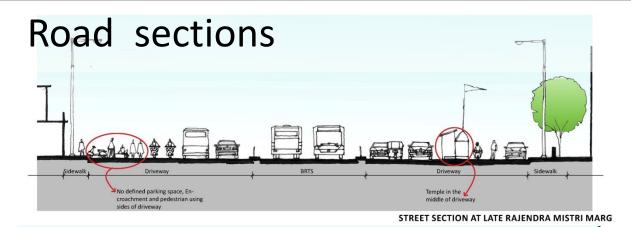




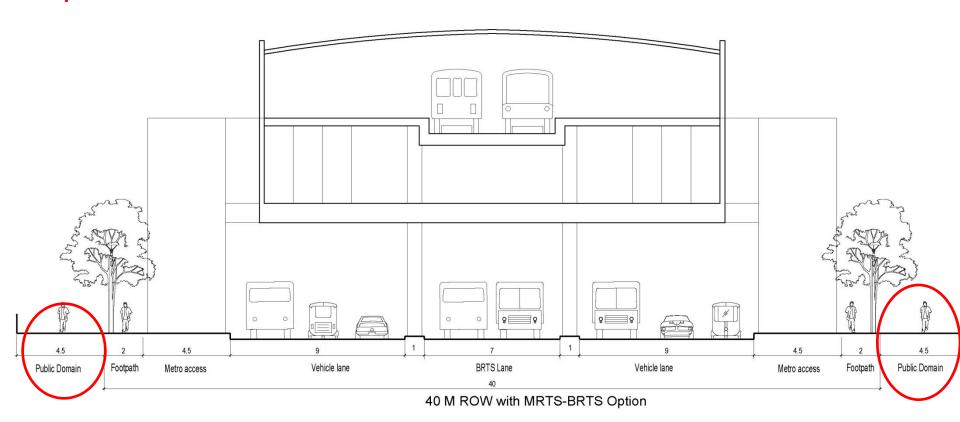
# Identifying Public Plaza & Social Infrastructure Plots





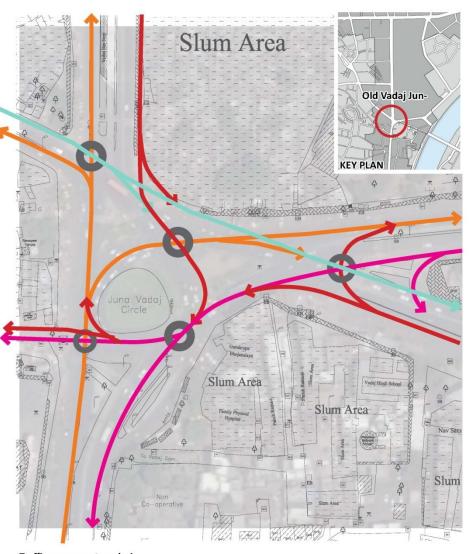


#### **Proposed sections**





## **Existing Junction**



Traffic movement analysis

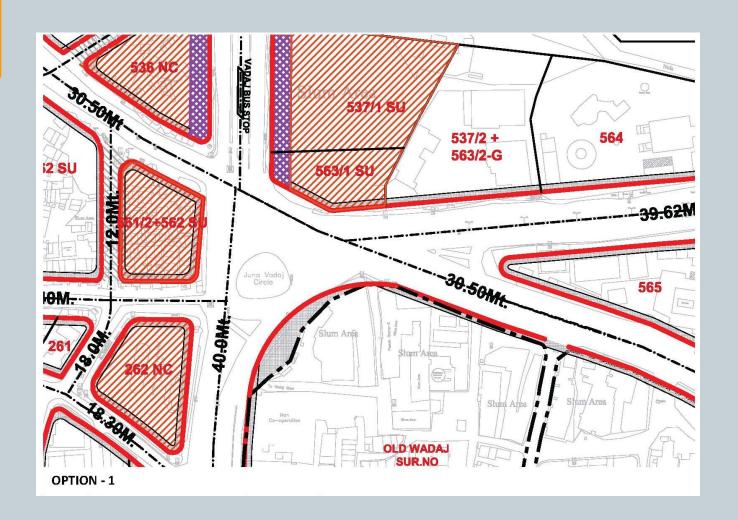


Aerial view of the junction showing conflict points

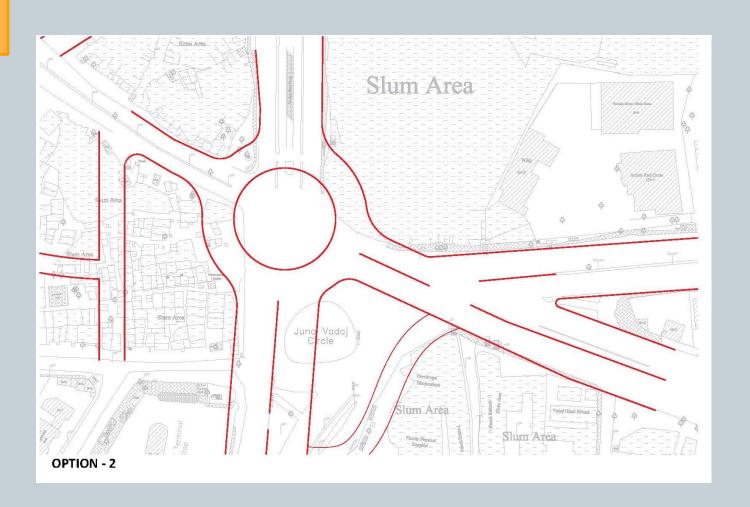


Aerial view of the junction showing conflict points

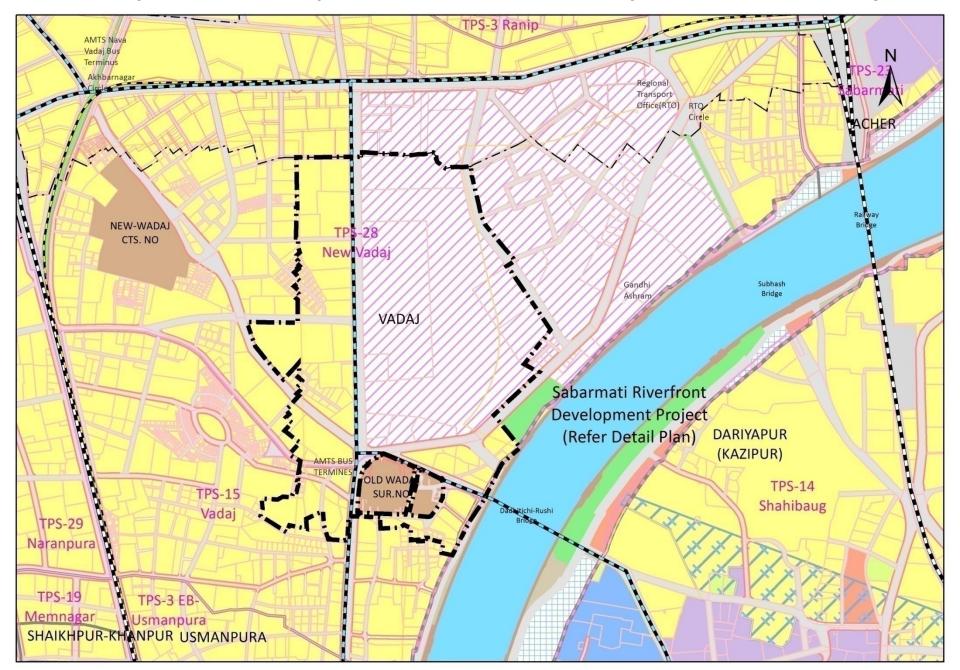
#### **Junction Design**



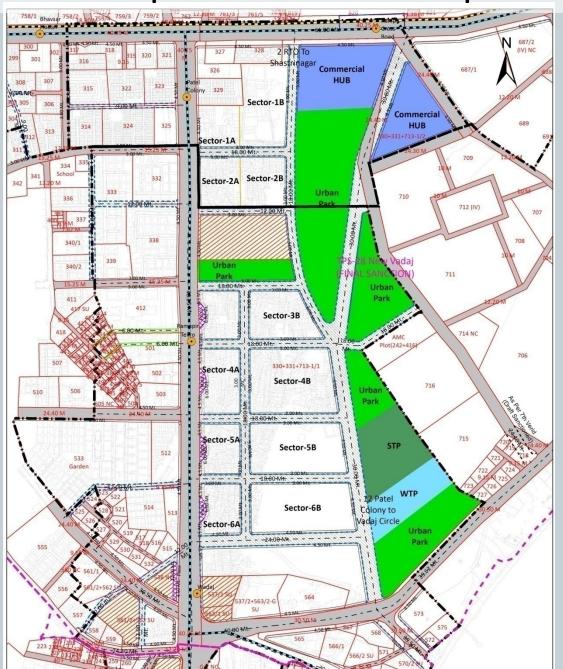
# Alternative 2 - Junction Design



# Proposal for Special area development - Wadaj

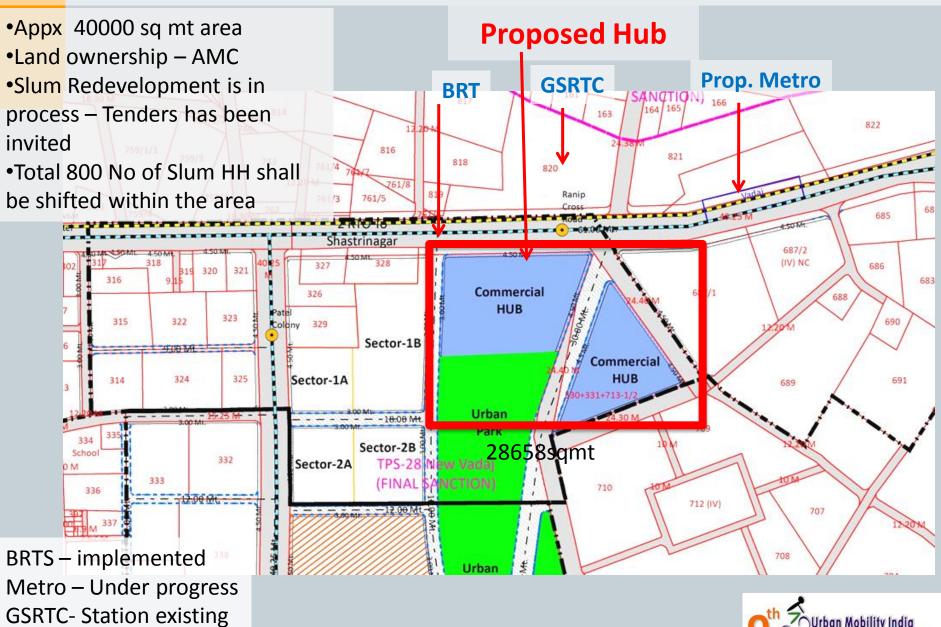


# Proposal for Special area development - Wadaj



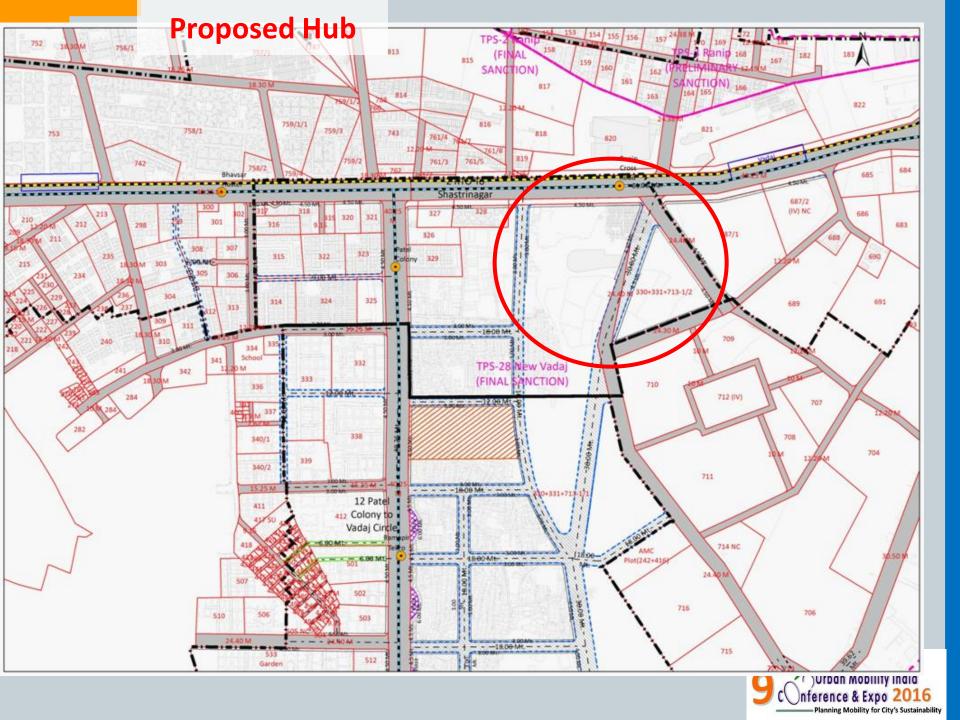


## Well Integrated Multimodal Hub



AMTS –route existing

Urban Mobility India
Onference & Expo 2016
Planning Mobility for City's Sustainability



# Estimated Cost – TOZ Part 2



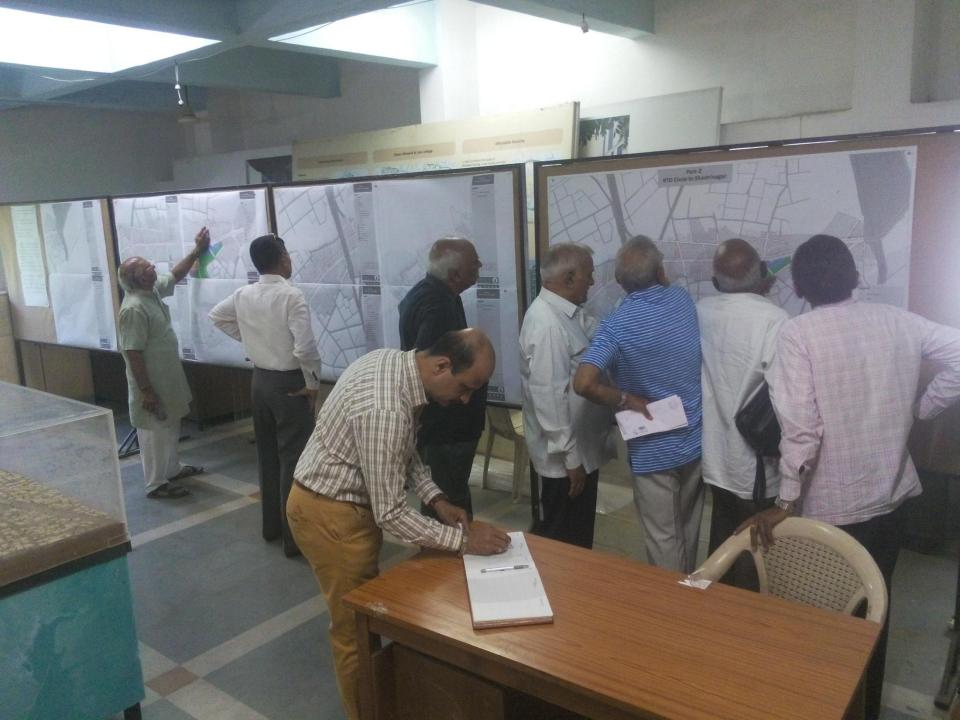
Component	Estimated Cost (Rs. in cr)
1Transportation	
Construction of Roads	76.59
Street Light	2
Parking Management System	10
intelligent Traffic Management	6
IT Based Junction Design	2
station area development	5
feeder bus connectivity	10
Intermodal hub	125
wifi hotspots	1
surveillance cameras	1
Total Transportation Cost	238
2Physical infrastructure	
Water Supply	29
Sewerage	17
Storm water	14
Solid Waste Management	0
and Acquisition (Rs in lakh)	15
3Garden and Lake development	_
Garden and Lake development	3
4Project cost	2
Preparation of detailed plans and studies  Total Cost of PROJECTS	3 245
ADD : 5 % PHYSICAL CONTIGENCIES + WORK CHARGE	12
ADD:150% PRICE ESCALATION FOR 10 YEARS	368
ADD: 10% ADM CHARGES	25
ADD: 20% FOR DEVELOPMENT OF SUROUNDING AREA	
Total Cost of TOZ (in Cr)	699



# Owners meeting has been conducted

Suggestion and Objections has been discussed and decision has been taken





#### Success depend upon three fold careful implementation

- 1. Proper planning
- 2. Proper Execution while giving permission
- 3. Taking possession and initiation of development



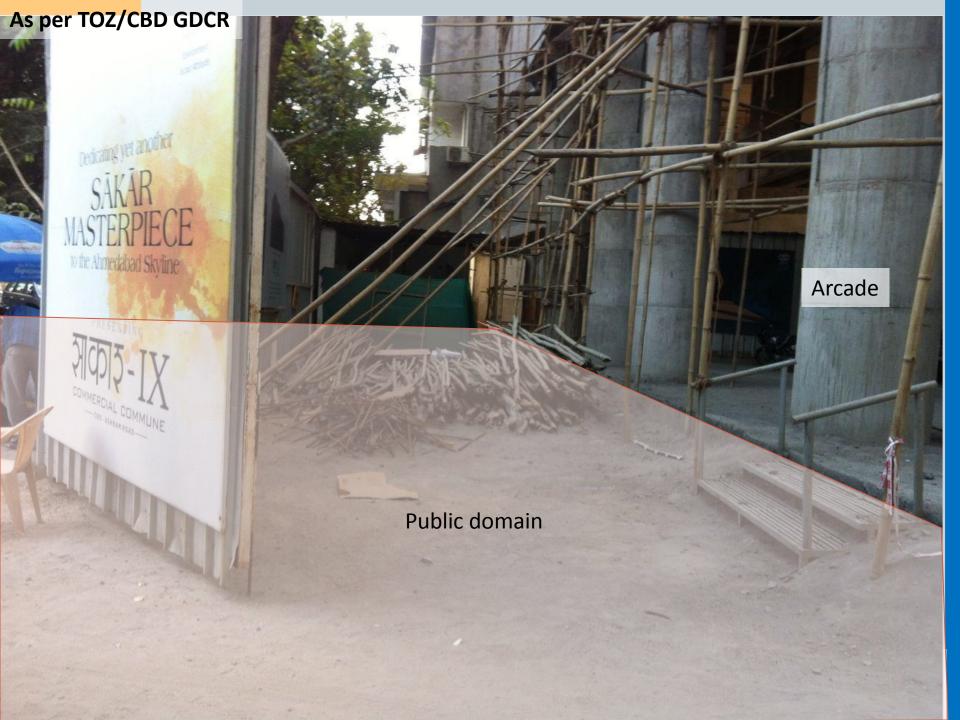
Appx. 121 permission has been given in TOZ area (FSI between 3.0 to 4.0) and 3 in CBD area

Any structure like ramp/security cabin shall not be permitted in Public Domain area









# Thank You

