





My Heart Ahmedabad, My Smart Ahmedabad

Principles of Smart City - Ahmedabad

Sustainable Development

 Clean energy, Pollution control, Conservation &Recycling

Urban Resilience

- Climate Resilience
- Disaster Planning including droughts, floods, epidemics
- Heat Action Plan

Collaborative Governance

- Citizen involvement
- Complaint registrationsCCRS

PRINCIPLES OF AHMEDABAD SMART CITY

Efficient Implementation

 Implementation Efficiency across various services

Intelligent Infrastructure

 Transport, Utilities supply, Waste management



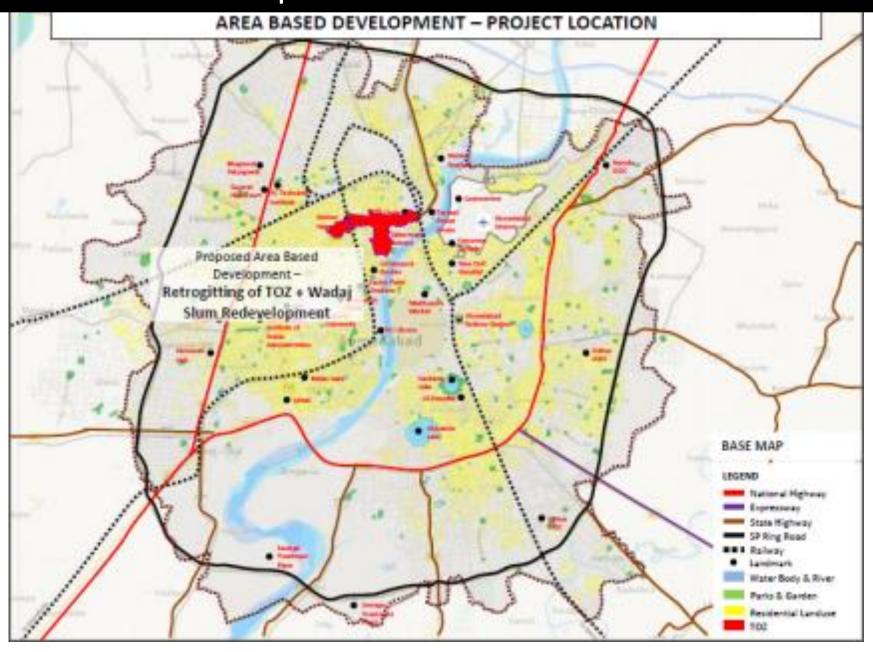
Providing Efficient, Affordable, Equitable and Customized Governance for the Citizens of Ahmedabad

MISSION / GOALS

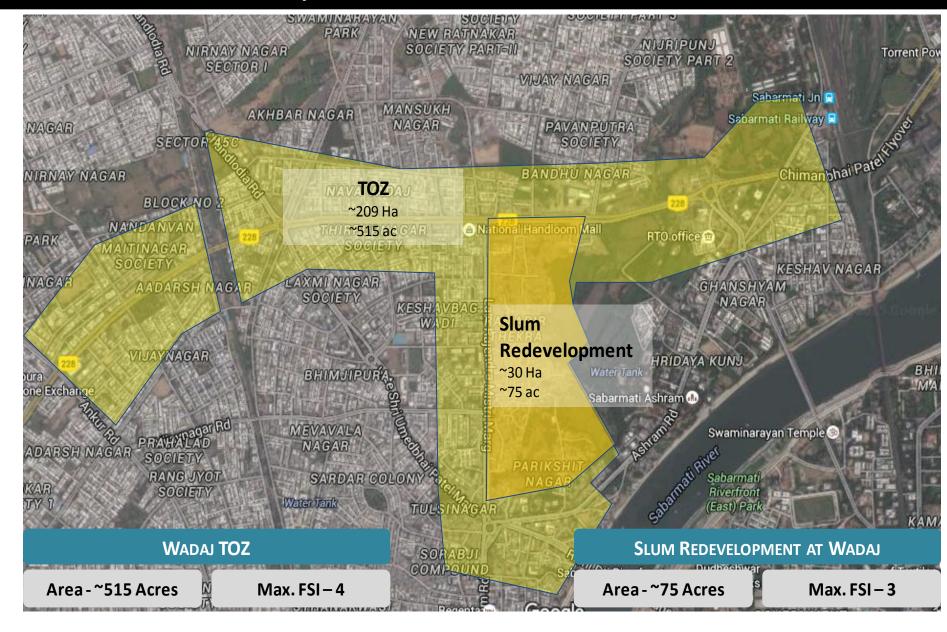
- Targeted solutions for different sections, areas and population segments
- Addressing requirements and problems for different segments differently
- Employing smart and innovative measures to address common pan-city problems
- Tackling foreseeable issues by employing proactive measures

AREA BASED SOLUTION

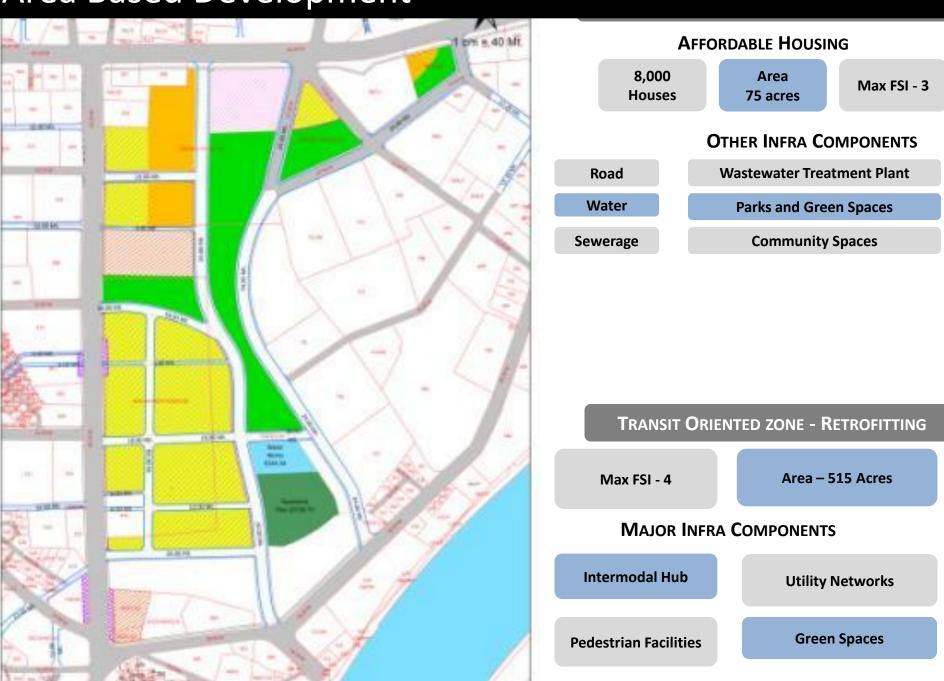
Area Based Development



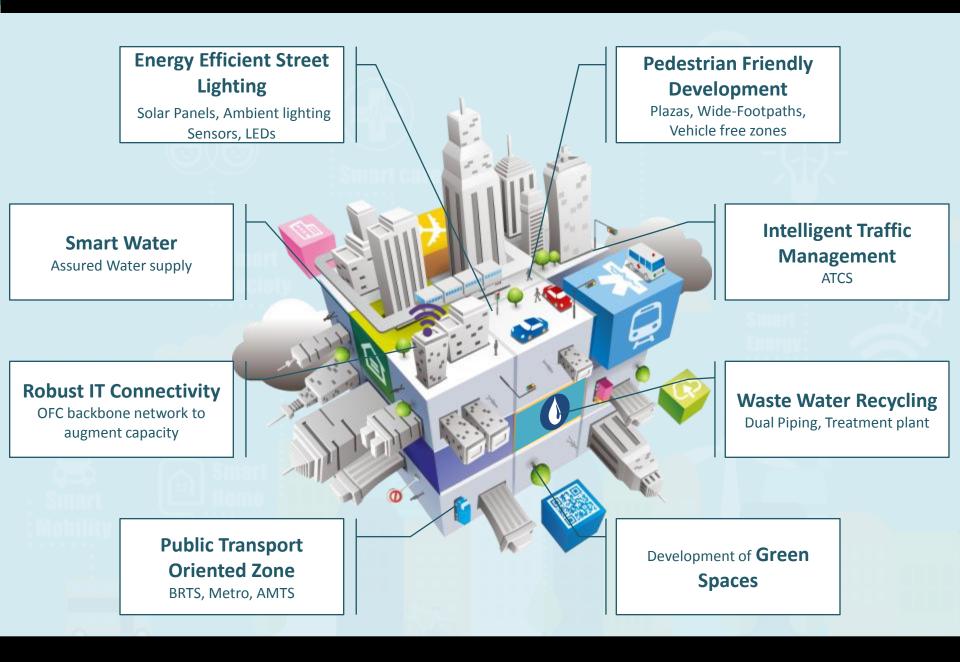
Area Based Development



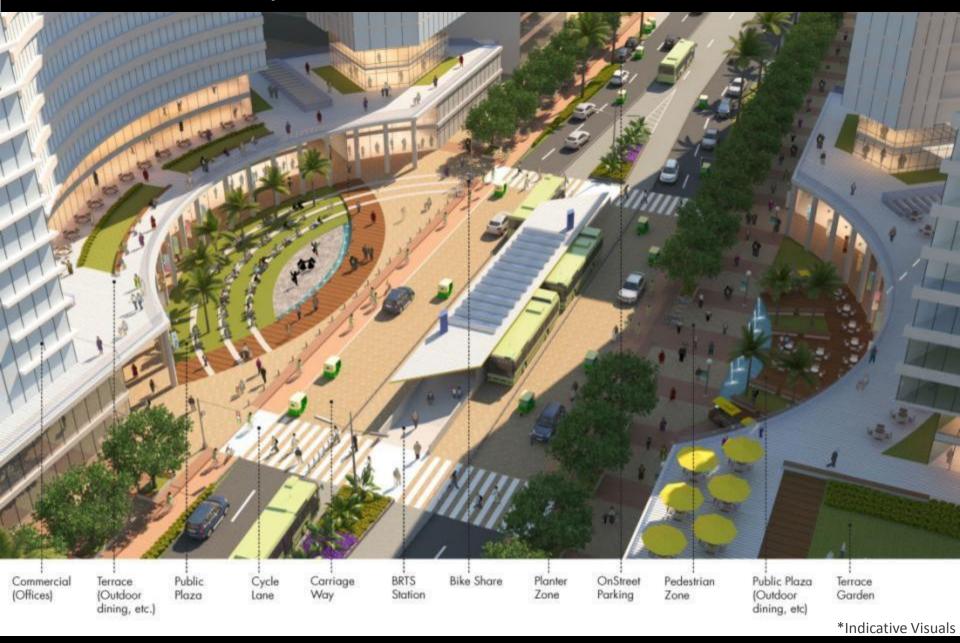
Area Based Development



Common Smart Features Planned



Transit Oriented Zone – Expansion of Public Realm & Densification of TOZ



PAN CITY SOLUTION

Pan City Initiative 1 – Integrated Transit Platform (with Common Card Payment System)

INTEGRATED TRANSIT PLATFORM

City Goal – Access to Public Transport within 400 m of each household







Integration of Multi-Modal Transport Solutions (BRTS, AMTS, Metro, Taxis, Autos) to empower commuters Vehicle location systems on BRTS / Metro / GSRTC / AMTS

Journey Planner & Booking on App

CCTV Access to Traffic,
Parking lots on App

Public Information System at Stations

Real Time Tracking of Vehicles on App

Real Time Parking Availability

COMMON CARD PAYMENT SYSTEM

Seamless Mobility
Card for utilization
at various public
places

- Applications Envisaged
 - Transportation Systems
 - Parking System
 - Recreational Areas
 - Municipal Bills
 - Utility Payments
 - Retail & Others
- To be implemented on PPP basis; RFP floated



Pan City Initiative 2 - Command Control Centre & OFC Network



- Integration of Existing AMC Control room under single platform
 - BRTS
 - AMTS
 - E-Governance
 - Monsoon Control Room
 - Traffic
 - Fire Control Room
 - Pollution

SURVEILLANCE

CCTV SURVEILLANCE AT ALL MAJOR PUBLIC PLACES



Garden



RECREATION



SMART TRAFFIC

AREA TRAFFIC CONTROL SYSTEM

Intelligent traffic signal control

Monitors Traffic Density

Controls Traffic Signal Timings

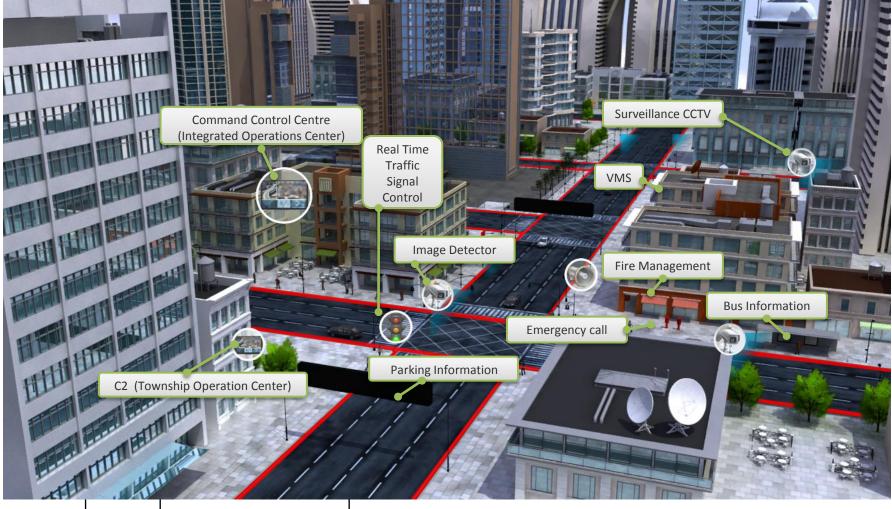
180 Traffic Junctions | 1 Pilot

OTHER APPLICATIONS

- Integration with Other Elements
 - E-Townhall Meetings
 - Pollution Monitoring Sensors
 - Convergence of Emergency Services – on lines of 911
 - Water accountability at Community Level – Integration with SCADA

One Control room for all Stadium Water Distribution Station 848736 BOREWELL Fast Slow Border Museum

Command Control Centre & OFC Network



PARTNER SENSORS



BUILDINGS













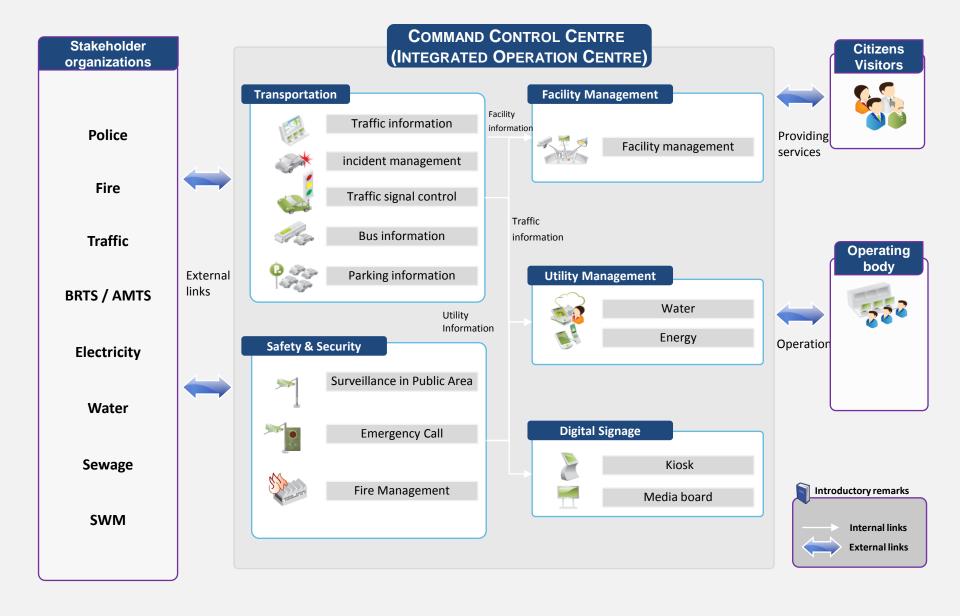








Command Control Centre & OFC Network



PROPOSAL OVERVIEW

AREA-BASED INITIATIVE

WADAJ SLUM REDEVELOPMENT & TOZ RETROFITTING (~590 ACRES)

IN-SITU SLUM REDEVELOPMENT | RETROFITTING UTILITY NETWORKS
SMART COMPONENTS | TRANSIT ORIENTED DEVELOPMENT | PLANNED DENSIFICATION





PAN CITY INITIATIVES

INTEGRATED TRANSIT PLATFORM

INTEGRATED TRANSIT MANAGEMENT SYSTEM | COMMON CARD PAYMENT SYSTEM

&

COMMAND CONTROL CENTRE & OFC NETWORK

INTEGRATION OF EXISTING CONTROL ROOMS I SURVEILLANCE | SMART TRAFFIC MANAGEMENT

Command Control Centre + OFC

Transit Oriented Zone

Slum Redevelopment

Affordable housing & Slum rehabilitation



Water, Sewerage & Drainage Services



Better Traffic & Parking Management



Ready Access to Public Transport -BRTS & AMTS



Efficient Healthcare



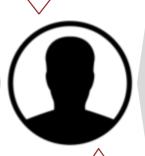
Better Education Facilities – Smart Learning



Safety & Surveillance – CCTV Coverage, Safe Roads, Control Center



Core
Infrastructure
Delivery &
City-wide
Civic Services



Inclusive services targeting all citizen segments



Connected Civic Centers – Points of Service Delivery



Civic Services across online & mobile platforms



Common Payment Platform across transport services



Walkable Spaces & Widened Public spaces



Faster Approvals for Businesses



Faster Building Plan Approvals



Green Energy

Financial Summary – Smart City Proposal

TOTAL PROJECT COSTS FUNDING OPTIONS Pan City Project Total Capital Costs Integrated transit Platform 89 Cr INR 2,290 Cr **Pan City Initiative Smart City Funds** Total Operating Costs (5 yrs) Common Card Payment System **INR 619 Cr** INR 105 Cr **INR 151 Cr** INR 1,415 Cr Command Control Center Total A&OE 53 Cr Centre Govt. CAPEX - INR 539 Cr INR 52 Cr INR 488 Cr OFC OPEX (5 yrs) - INR 43 Cr State Govt. /AMC 150 Cr INR 488 Cr Surveillance I ATCS I Integration AMC / SPV Funds INR 142 Cr **Area Based Project** INR 439 Cr Affordable Housing INR 836 Cr **PPP** Area-based **Development Utility Network** INR 961 Cr (TOZ + Slum) INR 1,821 Cr INR 529 Cr Affordable Housing **Total AMC** Intermodal Hub Treatment Plant at Wadaj **CAPEX** – **INR 1751 Cr** investment *OPEX (5 yrs) – INR 71 Cr* INR 115 Cr **Amrut** ~700 Cr in **Smart Components INR 115 Cr** INR 146 Cr **Five Years** Treatment Plant at Wadaj Intermodal Hub INR 125 Cr **Swachh Bharat** Opex (5 yrs) + A&OE INR 1 Cr A&OE OPEX + A&OE INR 202 Cr Segregation at Source INR 52 Cr

Way Ahead for Ahmedabad Smart City

Registration of the company (SPV)

- Identification of
 - -Directors, including independent directors
 - -Full time CEO
 - –CFO and Company Secretary
 - Key officers responsible for planning and implementation
- Delegation of powers to the Company
- Along with the finalization of Smart City Plan
 - -Revenue model for the company
 - Fund raising plan
- •A model Article of Association has been provided in the tool kit to help the SPVs in drafting their AOA.

THANK YOU



Various Treatment Plants for Ahmedabad

- Vadaj Jal Vihar 60MLD Sewage Treatment Plant under Amrut Scheme
- Hansol 50 MLD Tertiary Treatment Plant
- Vinzol 35 MLD Tertiary Treatment Plant

Behrampura-Danilimda 30 MLD Effluent Treatment

Plant

