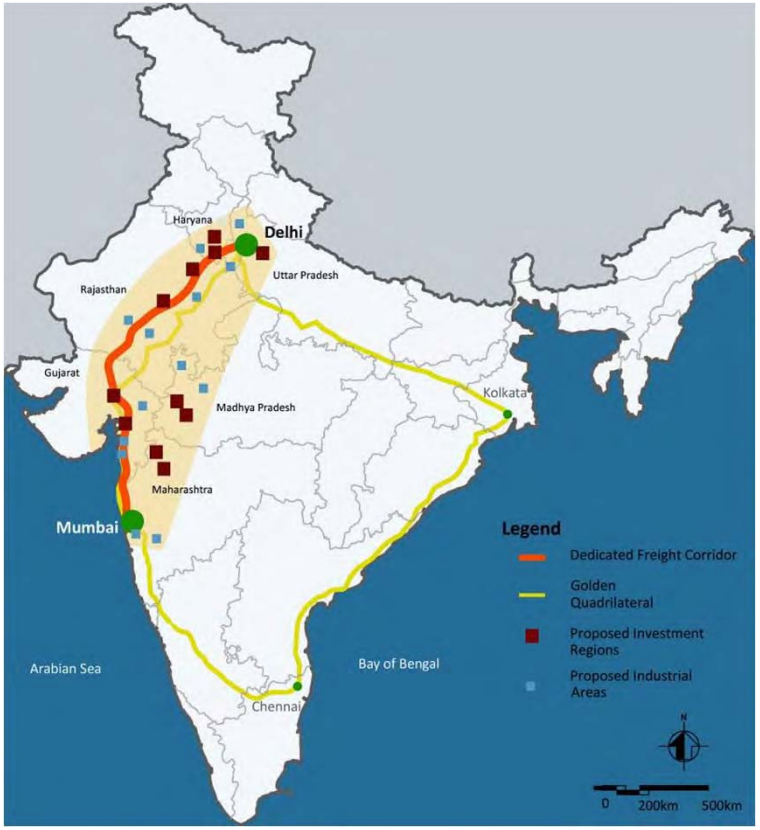
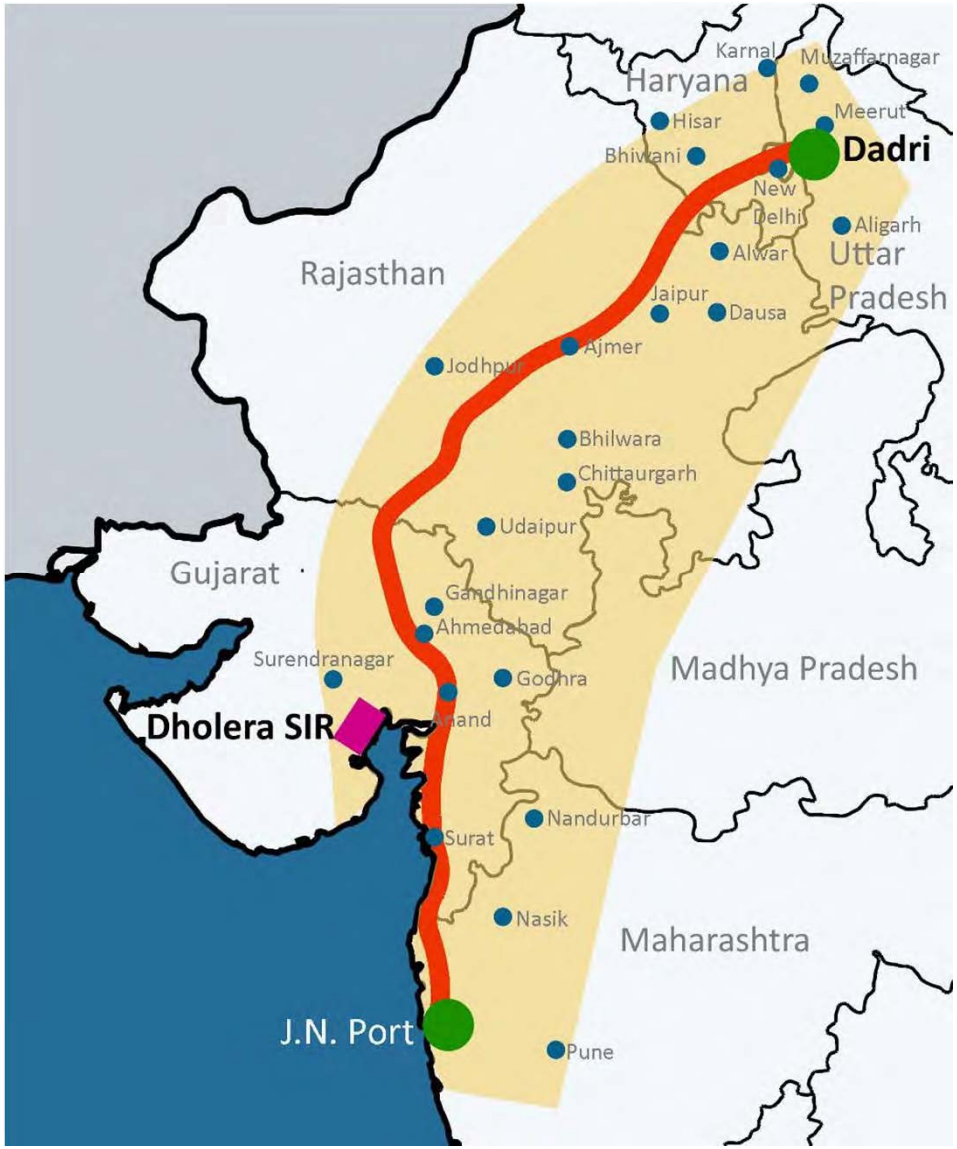
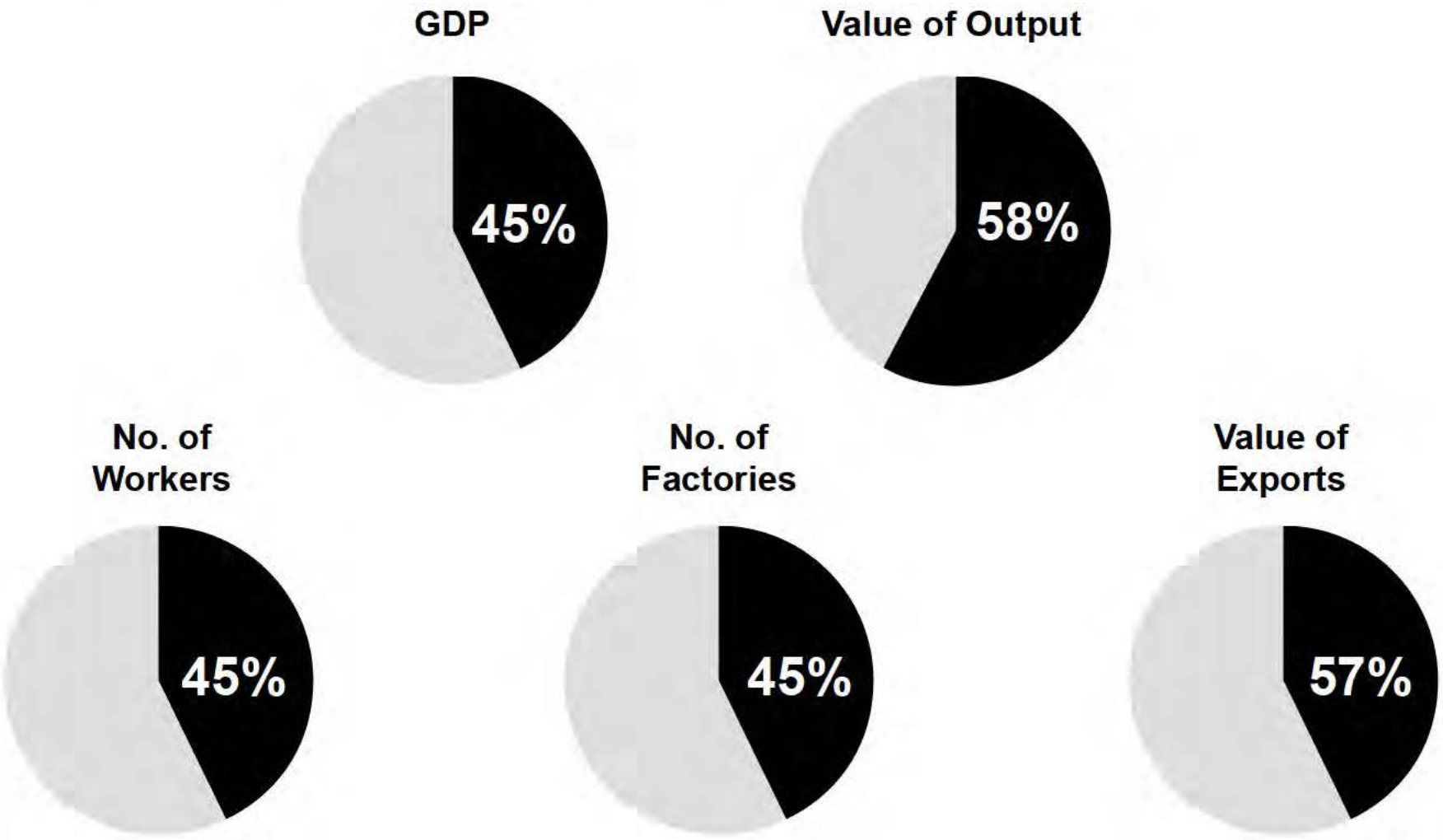
Delhi Mumbai Industrial Corridor Project

The DMIC Corridor





Contribution of DMIC States



Source: Ministry of Statistics & Programme Implementation, ASI, Labour Bureau

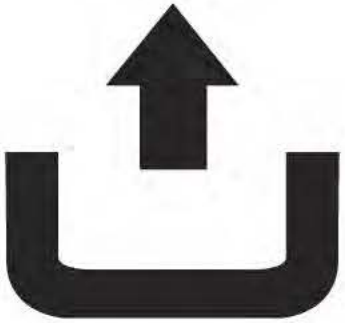
Exports

4

In 9 years

USD 720 billion

INR 43,20,000 crores



Value of Output

3

In 9 years

USD 3.3 trillion

INR 1,98,00,000 crores

Employment

2

In 7 years

USD 25.5 million

INR 2,55,00,000 lacs

1 USD = INR 60

Cities will account for nearly 70% of India's GDP by 2030

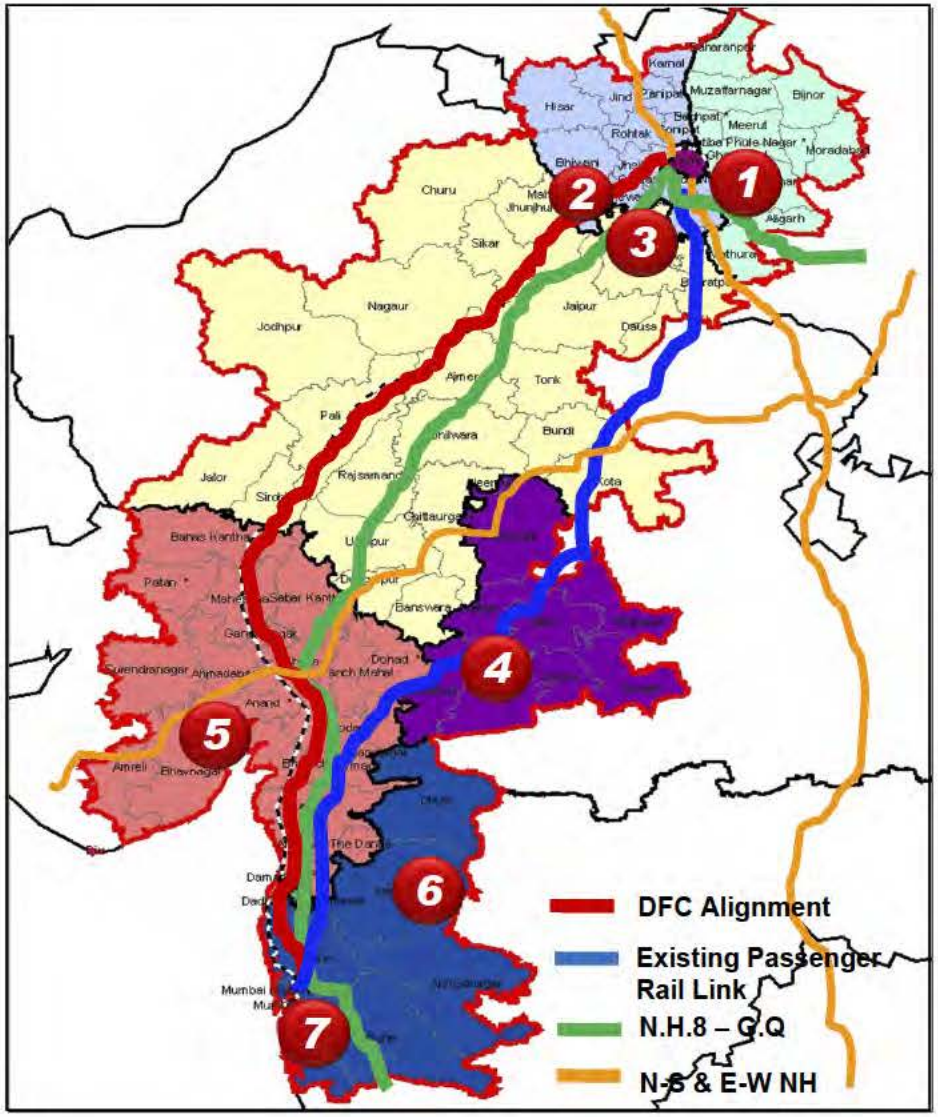
Share of India's GDP %; rupees billion, real 2008

Compound annual growth rate (%)	7.4	5.9	8.3
Share of growth (%)	100	28	72

New DMIC Cities will help to meet pressures of urbanisation and also lead India's economic growth for the next 20 years

Source: India's Urban Awakening: Building inclusive cities, sustaining economic growth - McKinsey Global Institute, April 2010

7 Nodes being developed in DMIC Phase 1



1 Dadri – Noida Ghaziabad IR, UP

2 Manesar – Bawal IR, Haryana

3 Neemrana – Khushkhera – Bhiwadi IR, Rajasthan

4 Pithampur- Dhar - Mhow IR, MP

5 Ahmedabad – Dholera IR, Gujarat

6 Shendra - Bidkin Industrial Park, Maharashtra

7 Dighi Port IA, Maharashtra

Best practices in Master Planning being brought in through international consultants

Node	Consultants	Area (sq. km)
Ahmedabad-Dholera Investment Region, Gujarat	**Consortium led by M/s Halcrow, UK**	**920**
Manesar-Bawal Investment Region, Haryana	**Consortium led by M/s Jurong, Singapore**	**402**
Khushkhera-Bhiwadi-Neemrana Investment Region, Rajasthan	**Consortium led by M/s Kuiper Compagnons, Holland**	**165**
Pithampur-Dhar-Mhow Investment Region, Madhya Pradesh	**Consortium led by M/s Lea Associates South Asia**	**372.4**
Dadri-Noida-Ghaziabad Investment Region, Uttar Pradesh	**Consortium led by M/s Halcrow, UK**	**200**
Dighi Port Industrial Area, Maharashtra	**M/s AECOM, Hong Kong**	**253**
Shendra Bidkin Industrial Park Maharashtra	**M/s AECOM, Hong Kong**	**84**

Master Planning - Key sustainable dev. concepts

- **Reduction of commuting needs for the workforce**
  - Polycentric structure – with multiple CBDs and Industrial zones
  - Integration of land uses encouraging mixed-use
  - Affordable Workers Housing located near the industrial zones

- **Neighborhoods distributed around High access Mass Transit Corridors**
  - Encouraging cycling & pedestrian modes over cars

- **Recycling and Reuse of water and solid wastes**

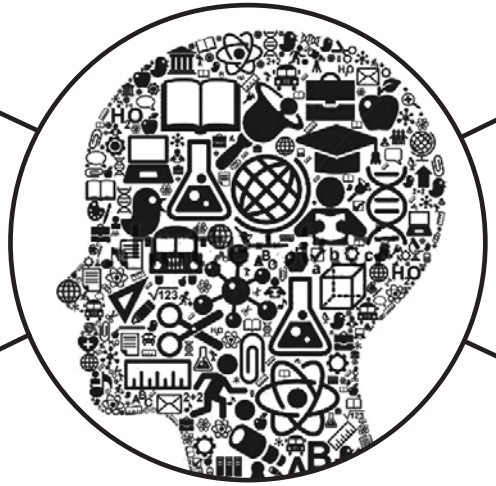
Master Planning - Key sustainable dev.concepts

- Energy sufficiency through use of renewables
- Conservation of better agricultural land & Protection of sensitive natural environment (Coastal zones, forests, sanctuaries)
- Integration of existing villages into the new city
- SMART City - IT based real time Control and Governance

Availability of skilled workforce – imperative for the envisaged growth in DMIC

50 Skill development centers on hub and spoke model are being established for providing training to farmers, villagers etc.

Locations have been identified in consultation with the State Government (s) for establishment of Skill development Centres



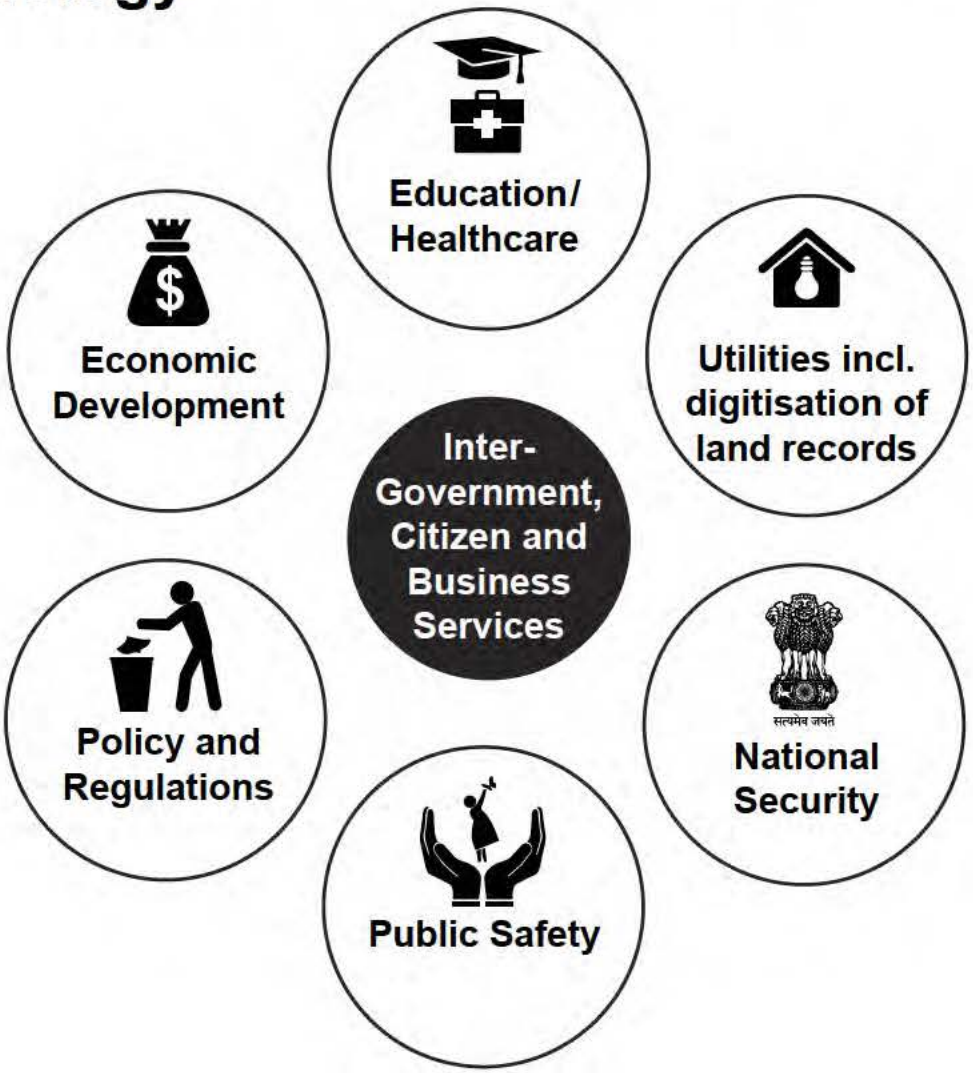
Skill Gaps have been identified and mapping has been complete

Different skill sets need to be imparted for different states based on the industries likely to be located in that region

Technology (Skill Gap) Matrix

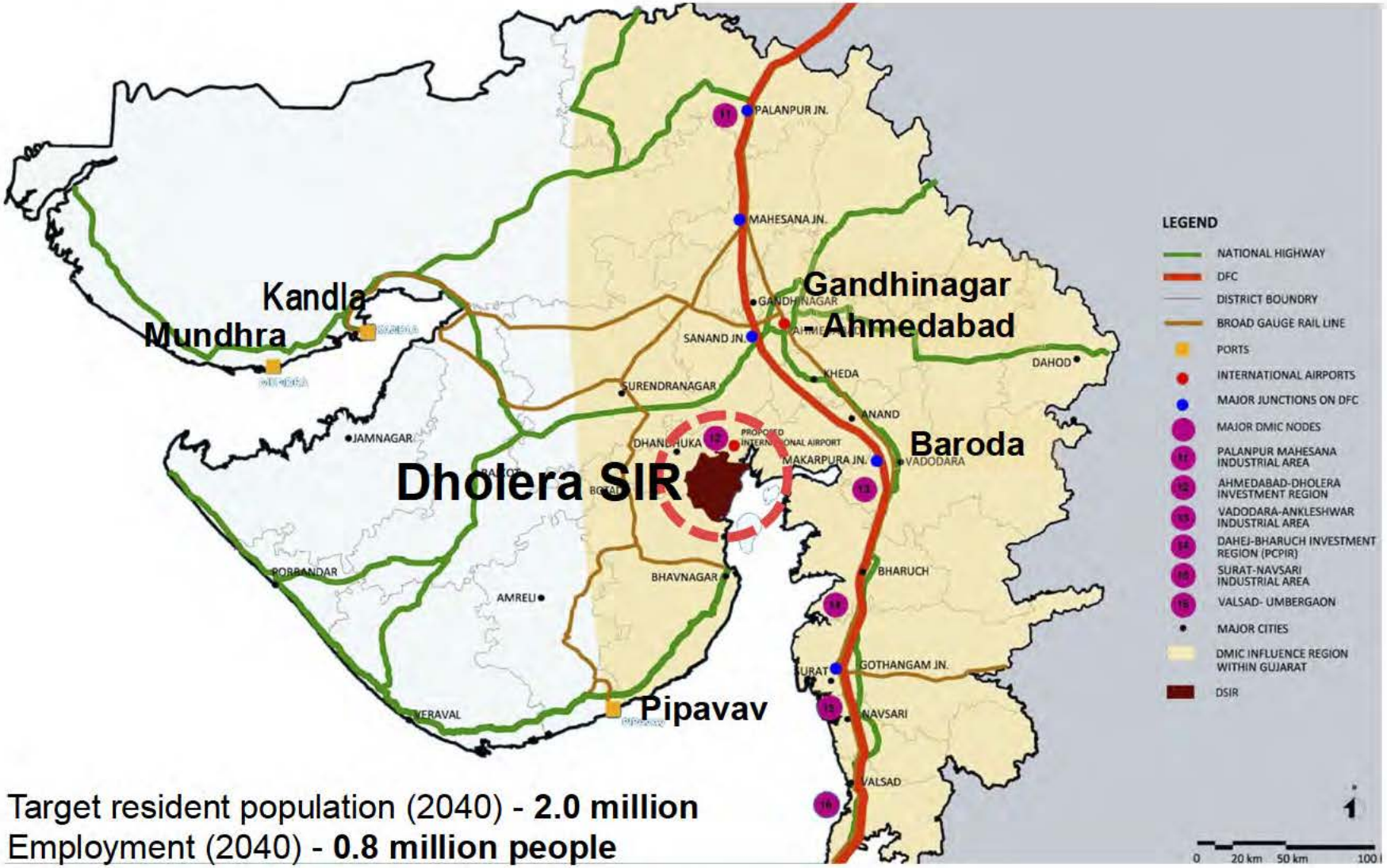
Investment Region **Technical Areas**	Manesar-Bawal IR	Pithampur-Dhar-Mhow IR	Dholera Special IR	Dadri-Noida-Ghaziabad IR	Khushkhea-Bhiwadi-Neemrana IR	Igatpuri-Nashik-Sinnar IR
Industrial automation & Process Control	√		√	√	√	
Design and Manufacturing	√	√		√	√	√
Automobile mechatronics	√	√		√		√
Hydraulics & pneumatic control	√		√	√	√	√
Electrical & Mechanical Maint.	√	√	√	√	√	√
Networking & Information Technology	√	√			√	√
Infrastructure and construction technology	√	√	√	√	√	√
Welding and fabrication	√	√	√	√	√	√
Garments- design and construction	√	√	√			
Food processing	√	√	√	√	√	√
Chemical and Pharma		√				
Environmental engineering	√		√			
Testing and Calibration	√	√	√	√	√	√
Soft Skills	√	√	√	√	√	√

Cities are being developed as Smart Cities with use of Digital Technology



Information & Communications Technology

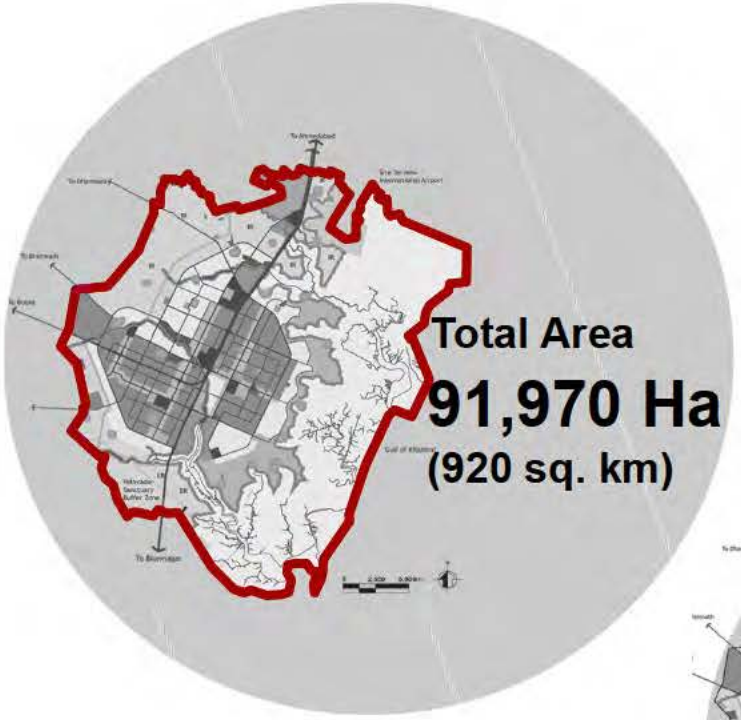
Dholera Special Investment Region



Target resident population (2040) - **2.0 million**
Employment (2040) - **0.8 million people**

Dholera SIR: Key Indicators

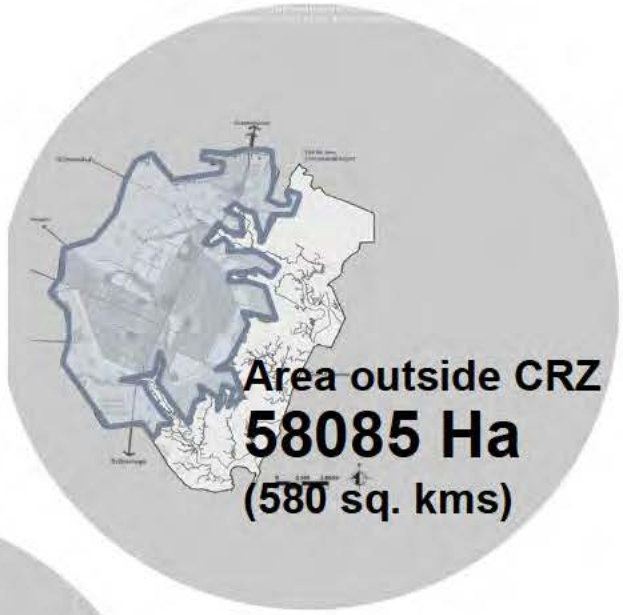
As per Development Plan



Total Area

91,970 Ha

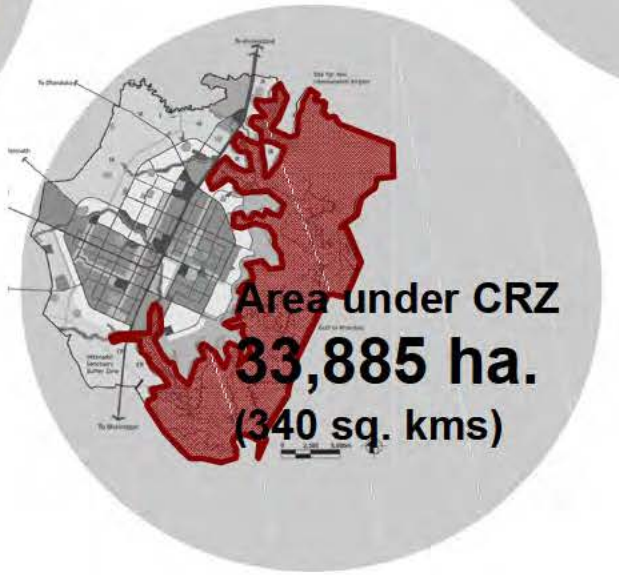
(920 sq. km)



Area outside CRZ

58085 Ha

(580 sq. kms)

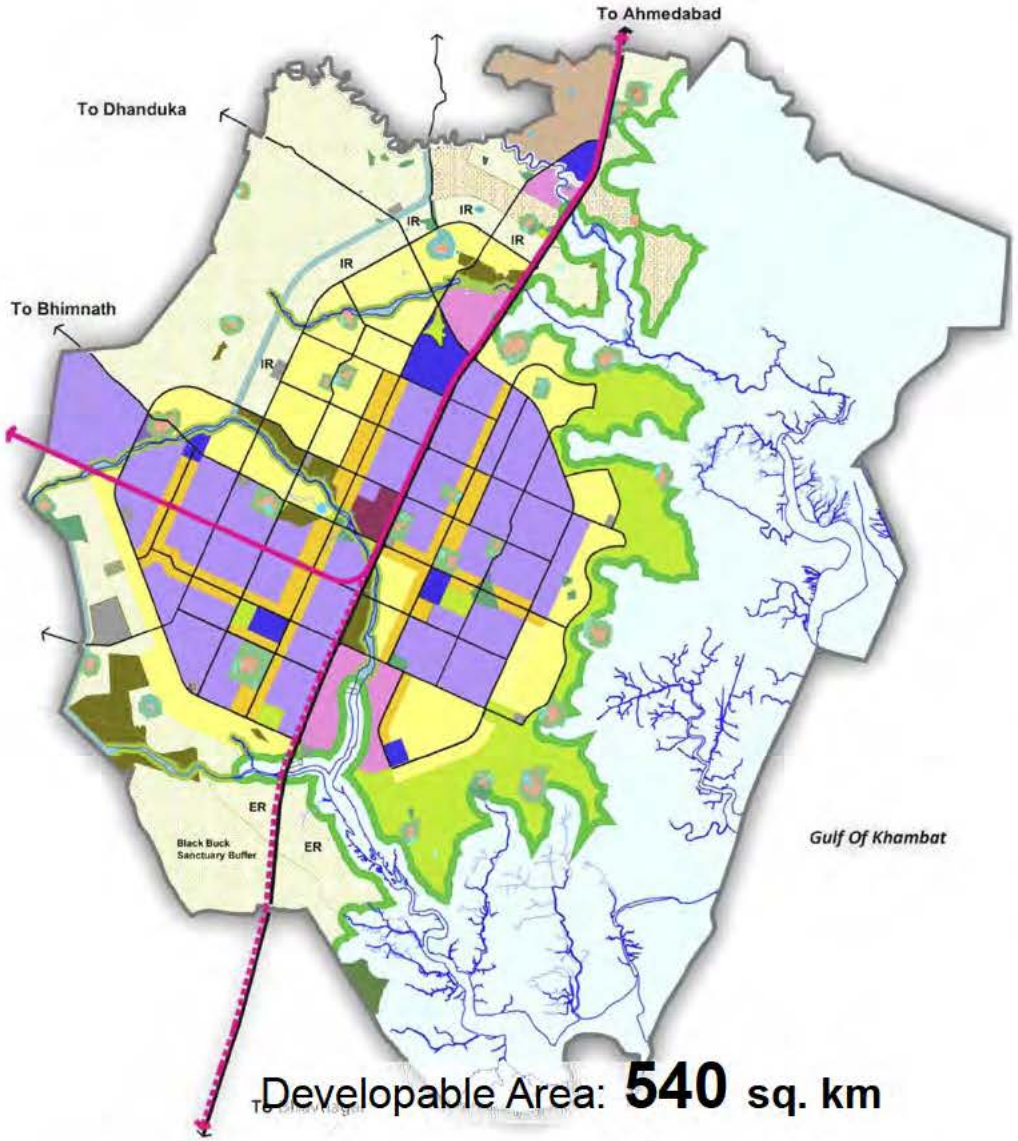


Area under CRZ

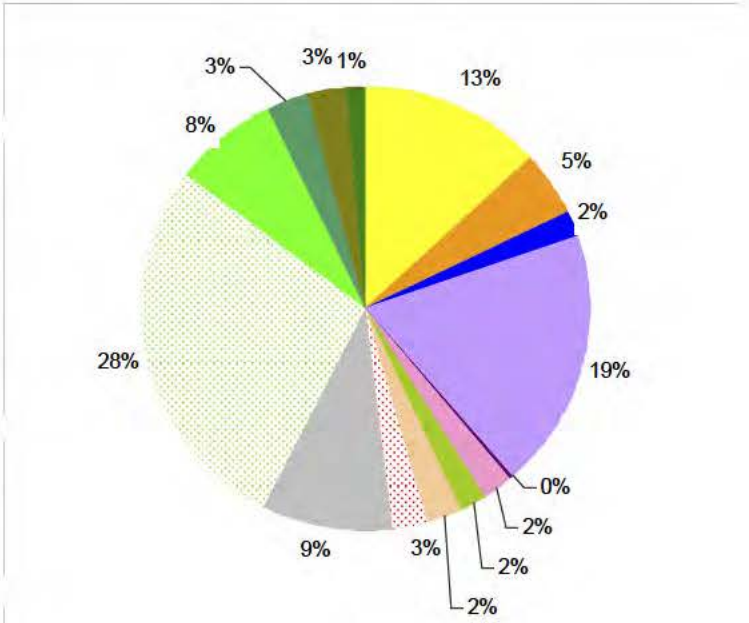
33,885 ha.

(340 sq. kms)

Master Plan



Developable Area: **540** sq. km



Key

LAND USE

- Residential
- High Access Corridor
- City Centre
- Industrial
- Logistics
- Knowledge and IT
- Entertainment
- Village Buffer
- Green Parkland & Canals
- Recreation & Sports
- Resorts
- Solar Energy Park
- Strategic Infrastructure
- Forest
- Agriculture

OTHER

- DSIR Boundary
- Broad Gauge Railway
- Roads
- Land Under CRZ-I
- Canal
- Village Settlement
- Black Buck Sanctuary Buffer
- Rivers and Streams

Dholera SIR: Projections

Industrial, Tourism & other Jobs

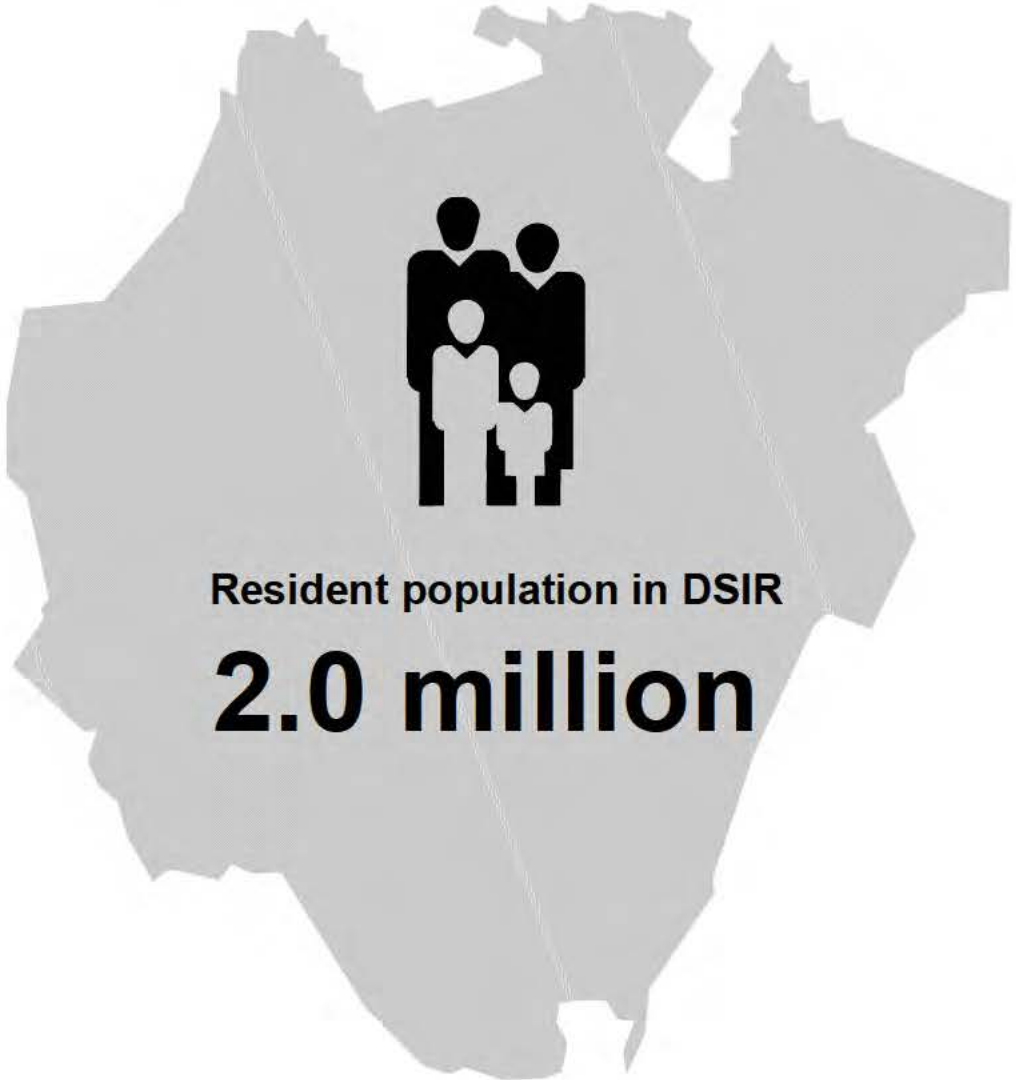
343,000

Supported Jobs

484,000

Total Jobs

827,000



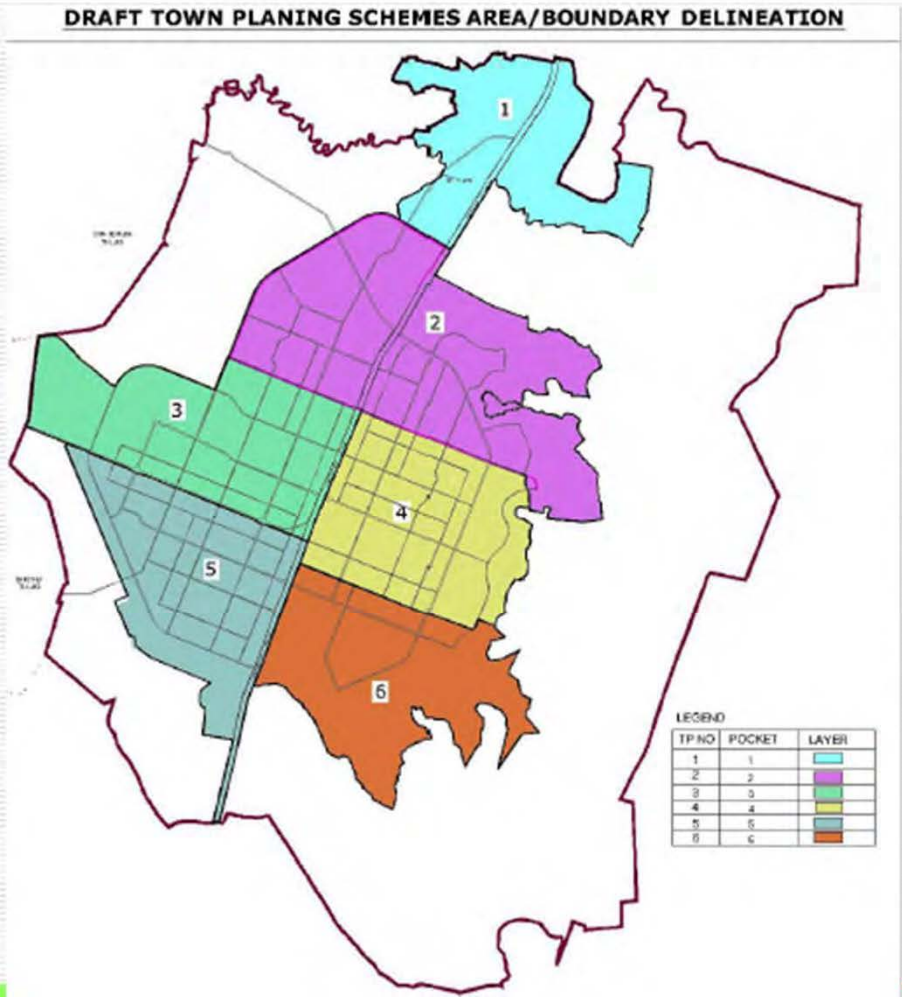

Ecology


Settlement


T P roads

Draft Town Planning Scheme

DRAFT TOWN PLANNING SCHEME NO. 1 TO 6



Draft Town Planning Scheme Area Table

SR. NO	T.P.S NO.	AREA IN SQ. KM
1	1	51.28
2	2	103.00
3	3	67.06
4	4	59.85
5	5	63.00
6	6	62.40
Total		406.59

Owners' meeting in Dholera Village to discuss Town Planning Schemes

Consultative meeting for Town Planning Scheme 2









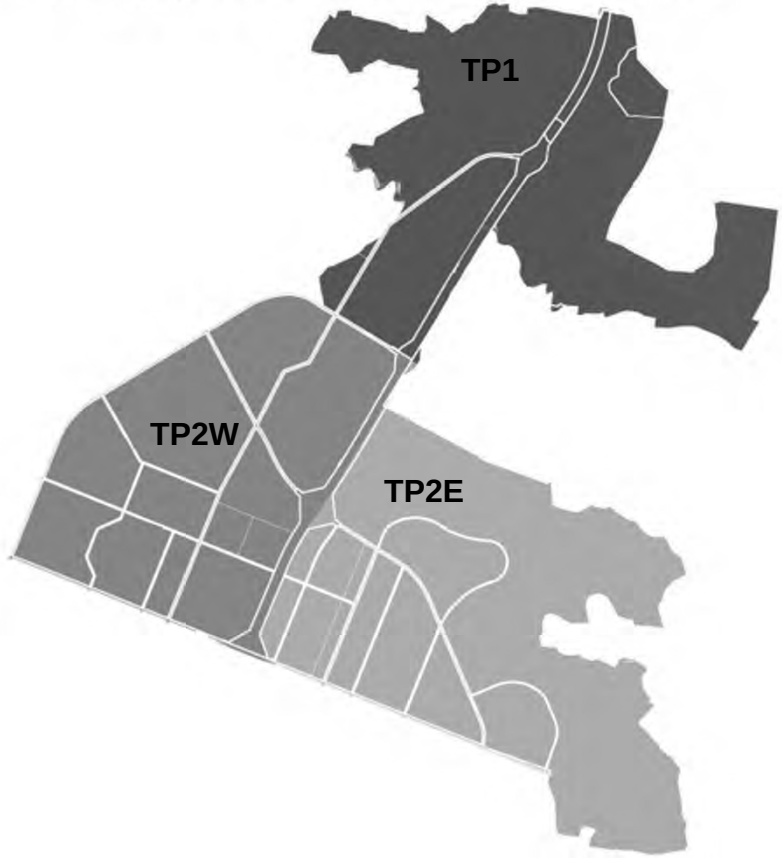
Phase -1 of Dholera

Area to be developed in phase 1a-

154 sq. kms

Validated Construction Cost (2013) ~

INR **20,000** Crores (USD 3333 million)

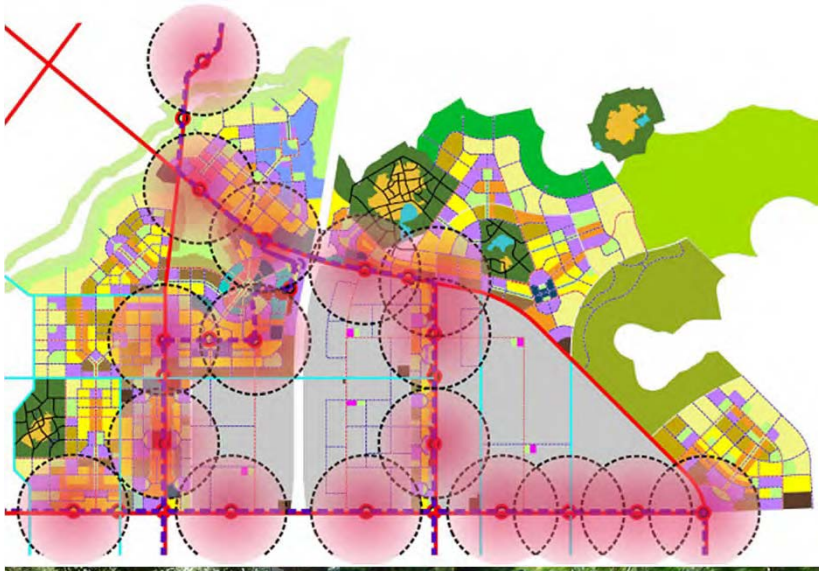


Base (Flat) Infrastructure Include:

- Roads and Utilities (TP 1 & 2) : 550 kms
- Potable Water: Raw Water Pipeline from Periej Dam and Water Treatment
- Sewage: CETP and STP (RecyclePlants)
- Industrial Water: Effluent Pipeline from AMC & Tertiary Treatment Plant
- Stormwater: Collection and Treatment
- Flood: River Training and Bunding
- Solid waste: Transfer and Treatment
- Power: Transmission and Distribution
- ICT: Networks
- Related Projects (RRTS/MRTS, Airport)

Transit and Walkability

A Compact city that promotes the creation of neighborhoods and walkable places connected by transit

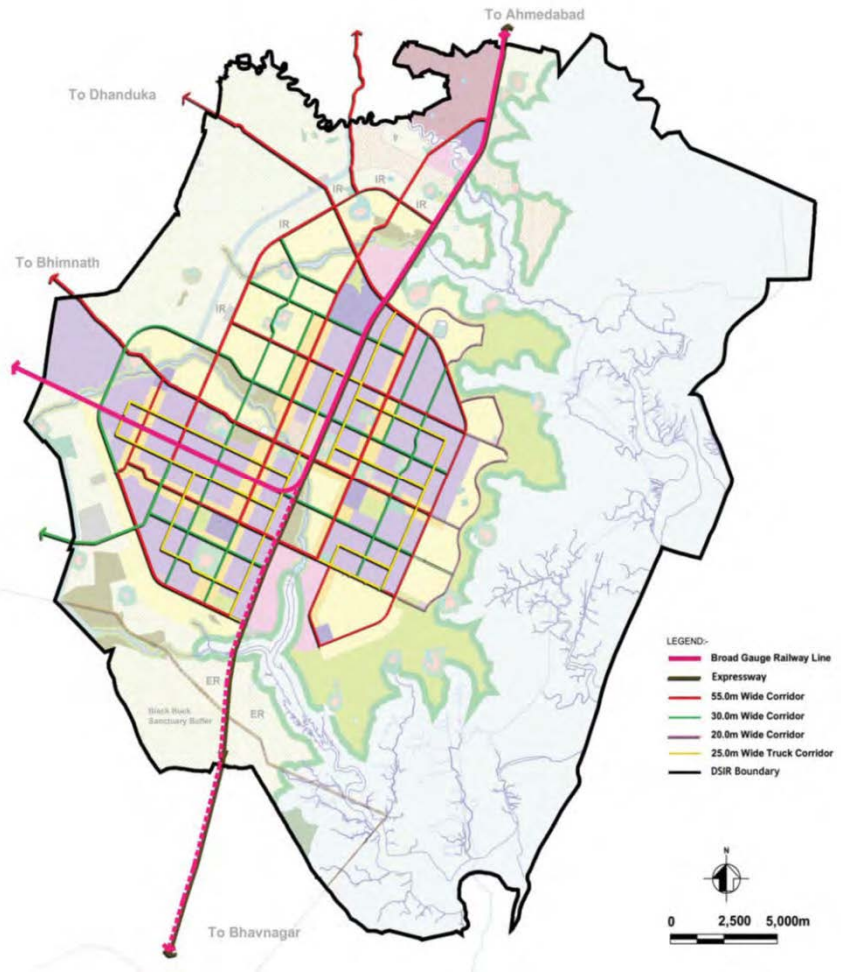


10 min walking distance

Proposed BRT In Phase I and…

LRT In the later phases

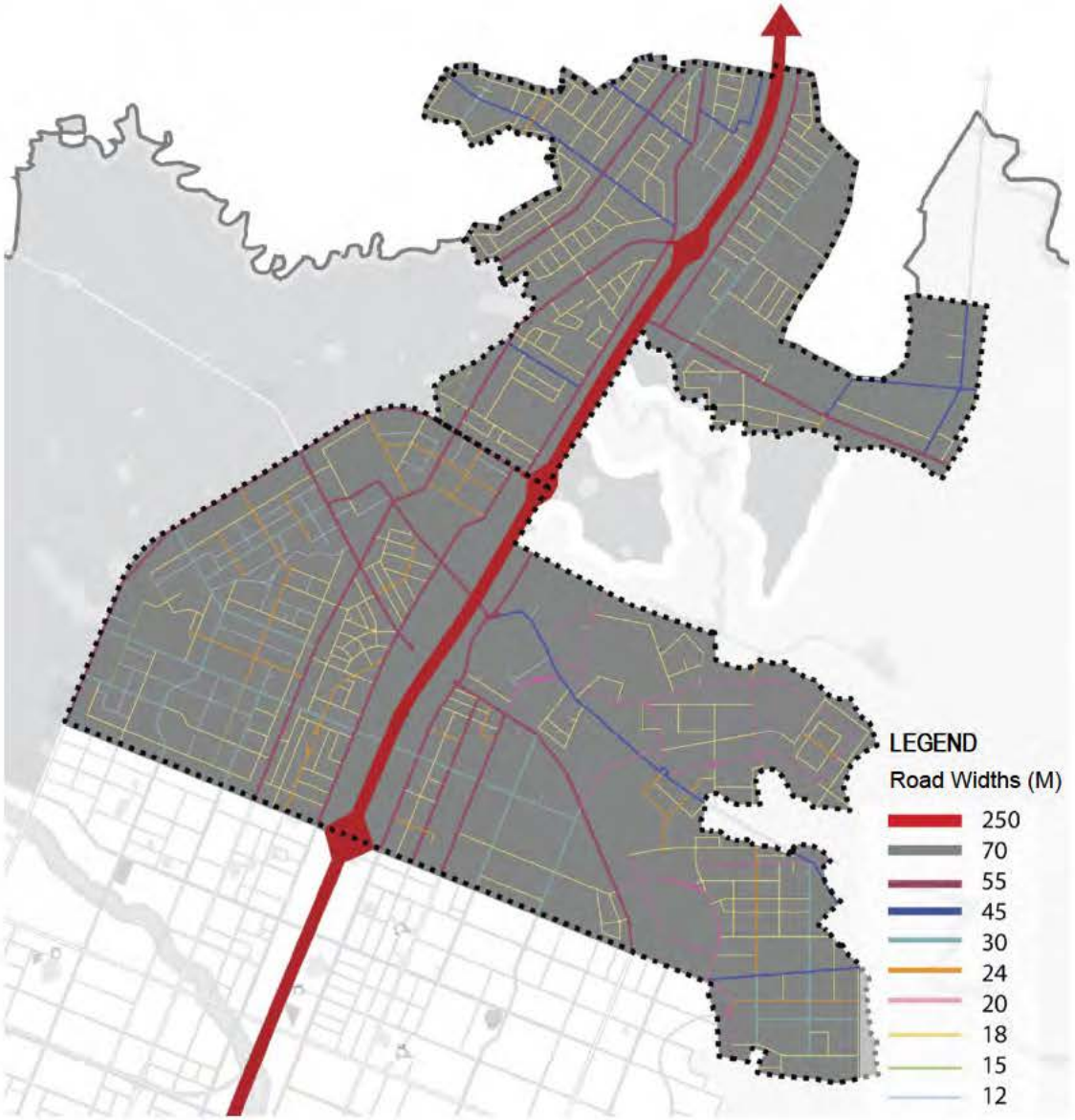
Building world-class infrastructure

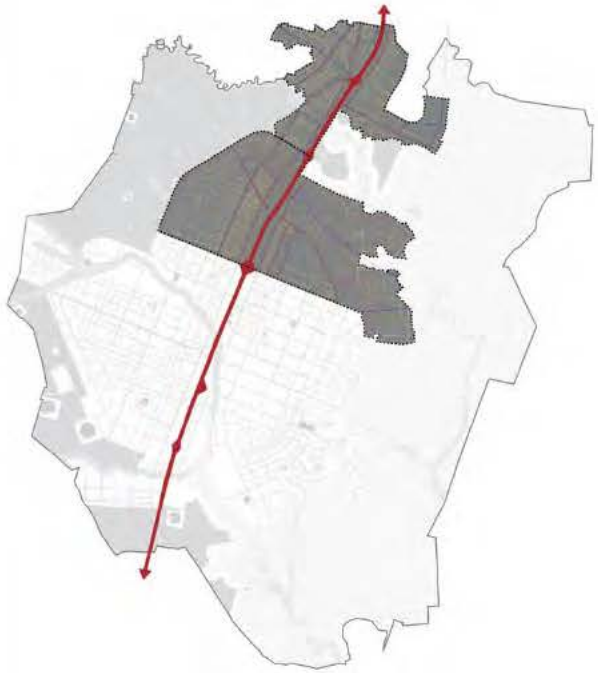


Roads

Hierarchy of Arterial and other Roads with dedicated lanes for Public Transport, Cycling, Walking

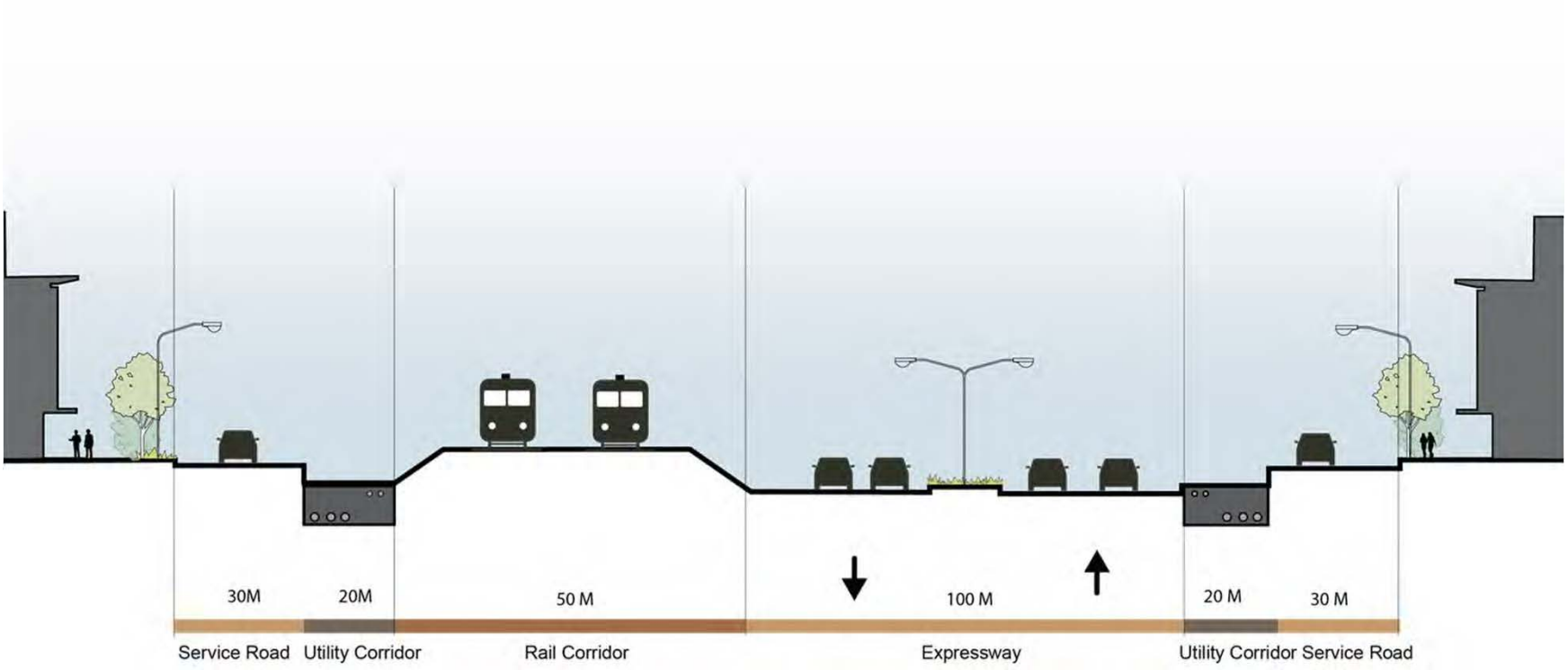
DSIR Road Network Hierarchy – TP Scheme 1&2





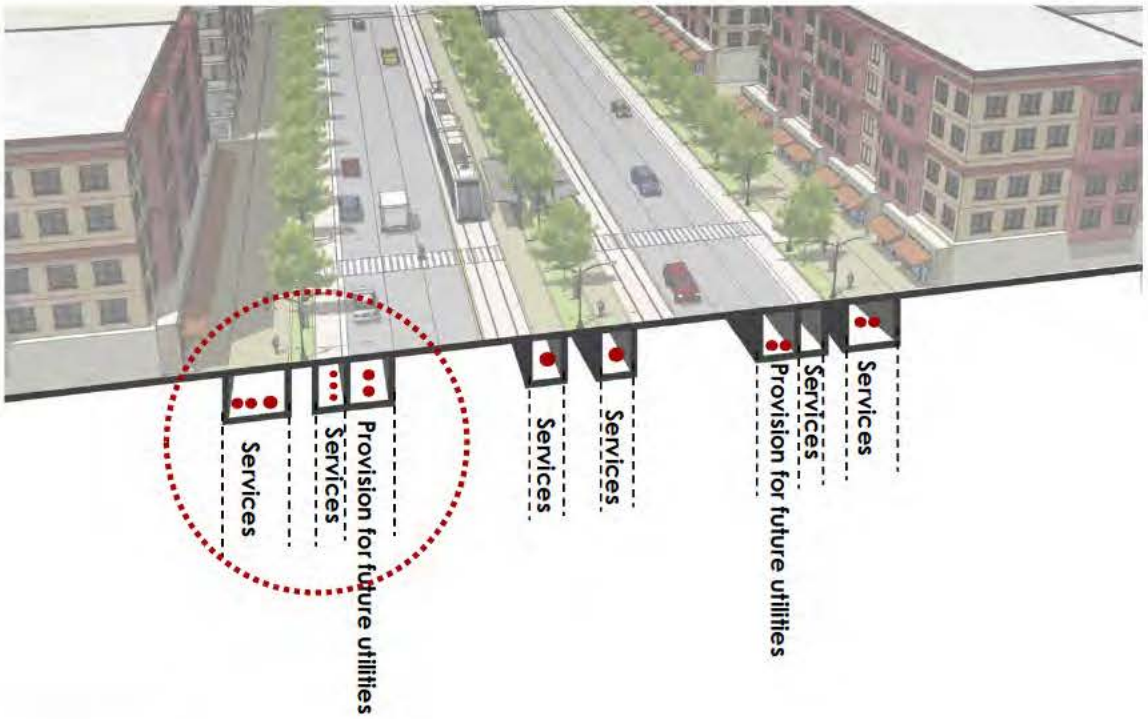
DSIR ROAD NETWORK HIERARCHY

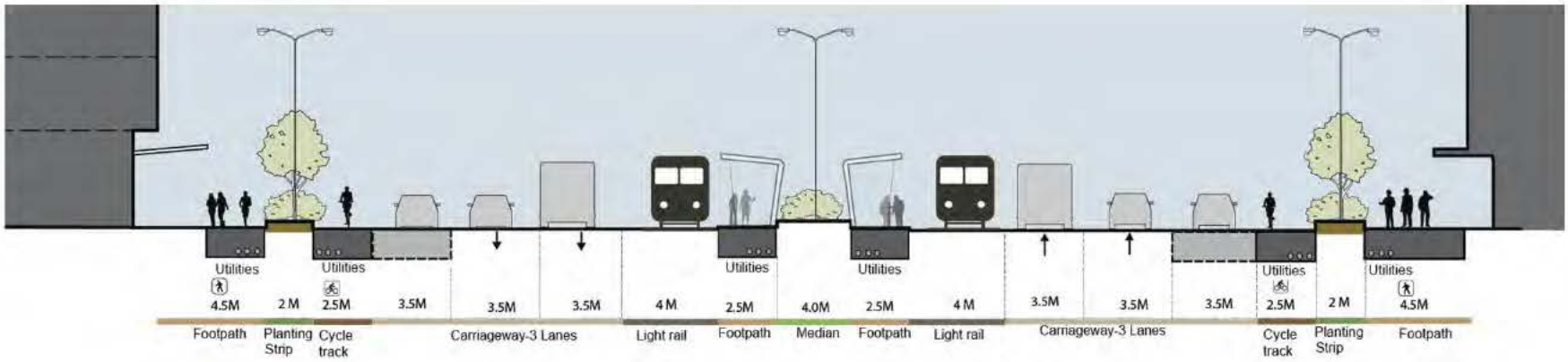
SPINE Road - SH-6 Road Section and Utility Corridor



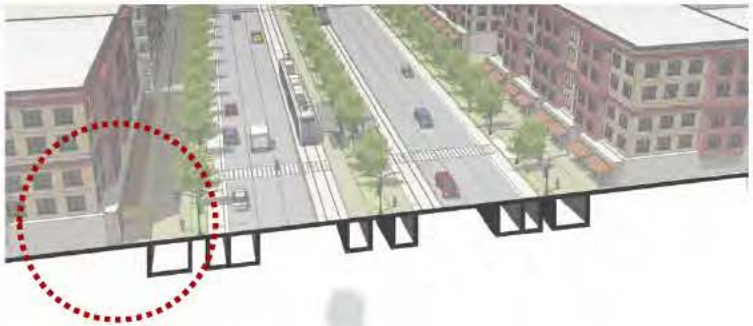
Not to scale

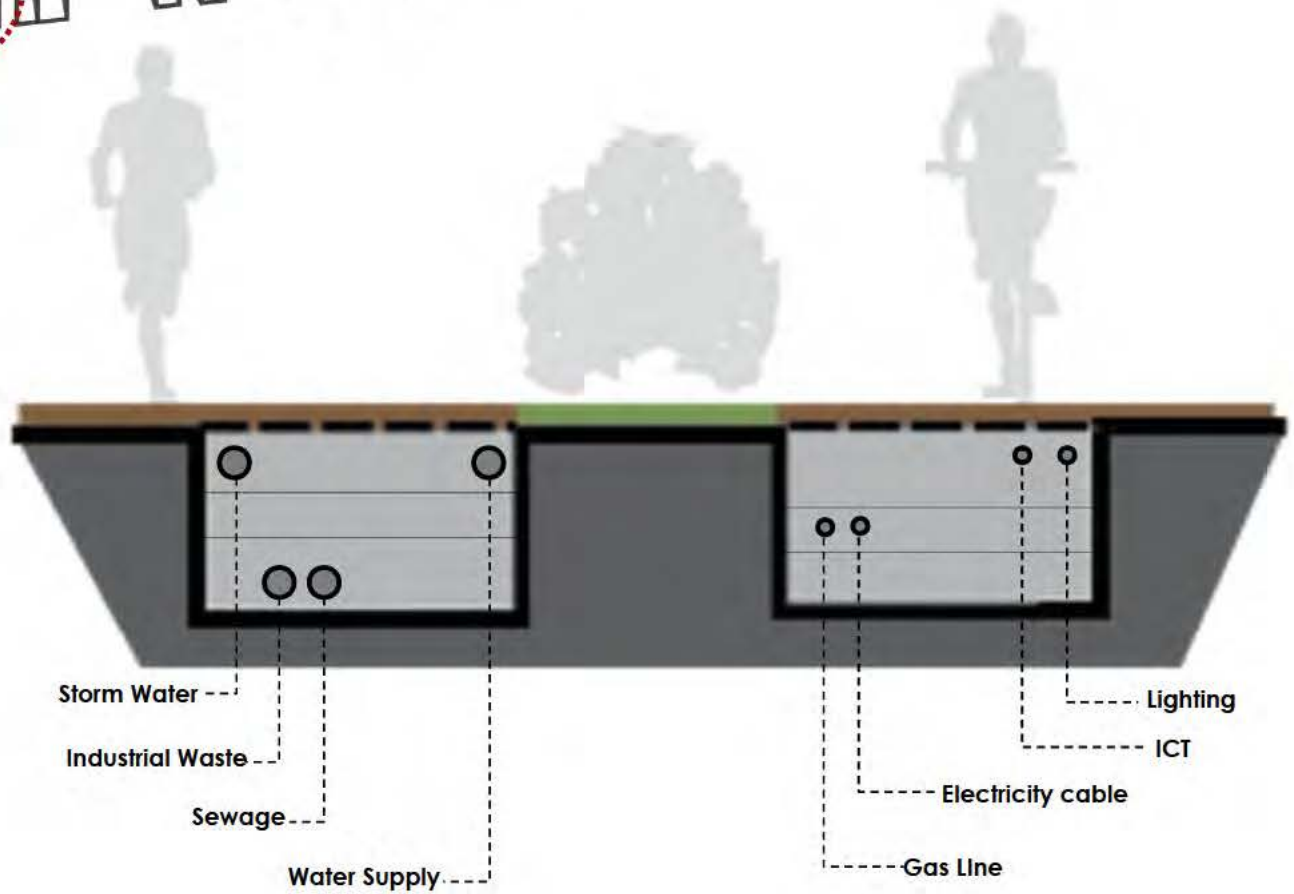
Typical Road Section (55 M & 70 M) with Utility Corridor



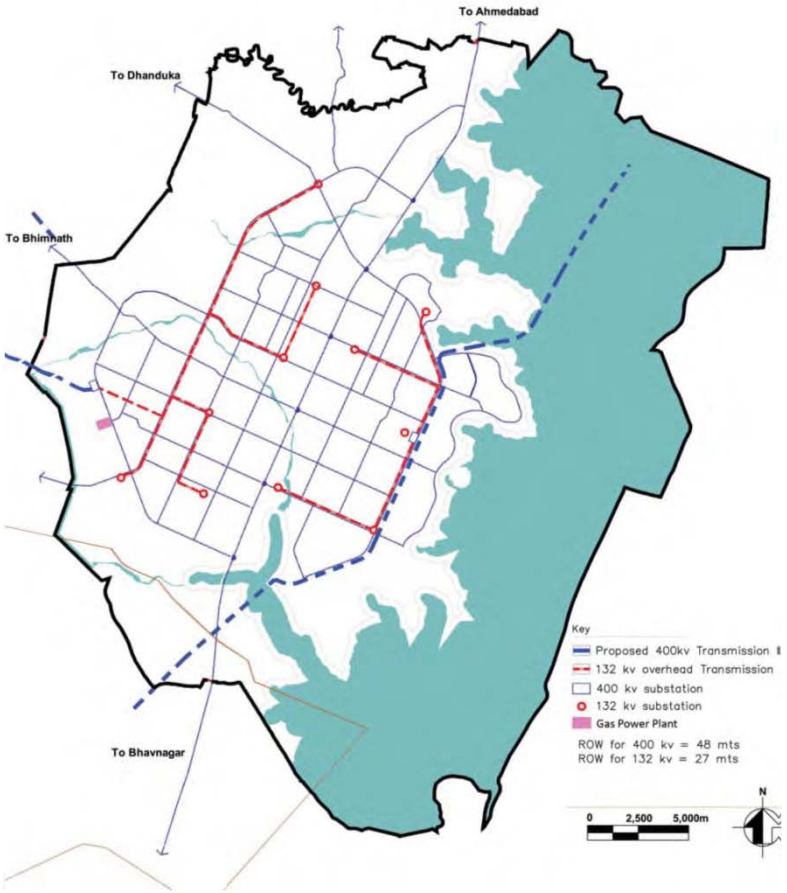


Typical detail of Utility Corridor





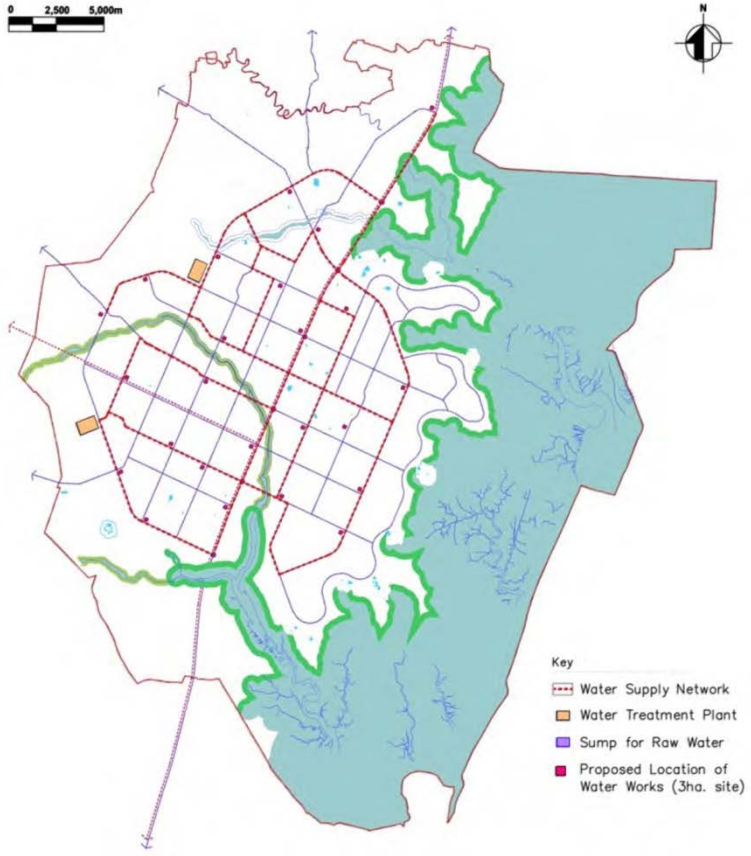
Building world-class infrastructure



Power

Total Requirement: **1,700 MW**

Phase I: **400 MW**

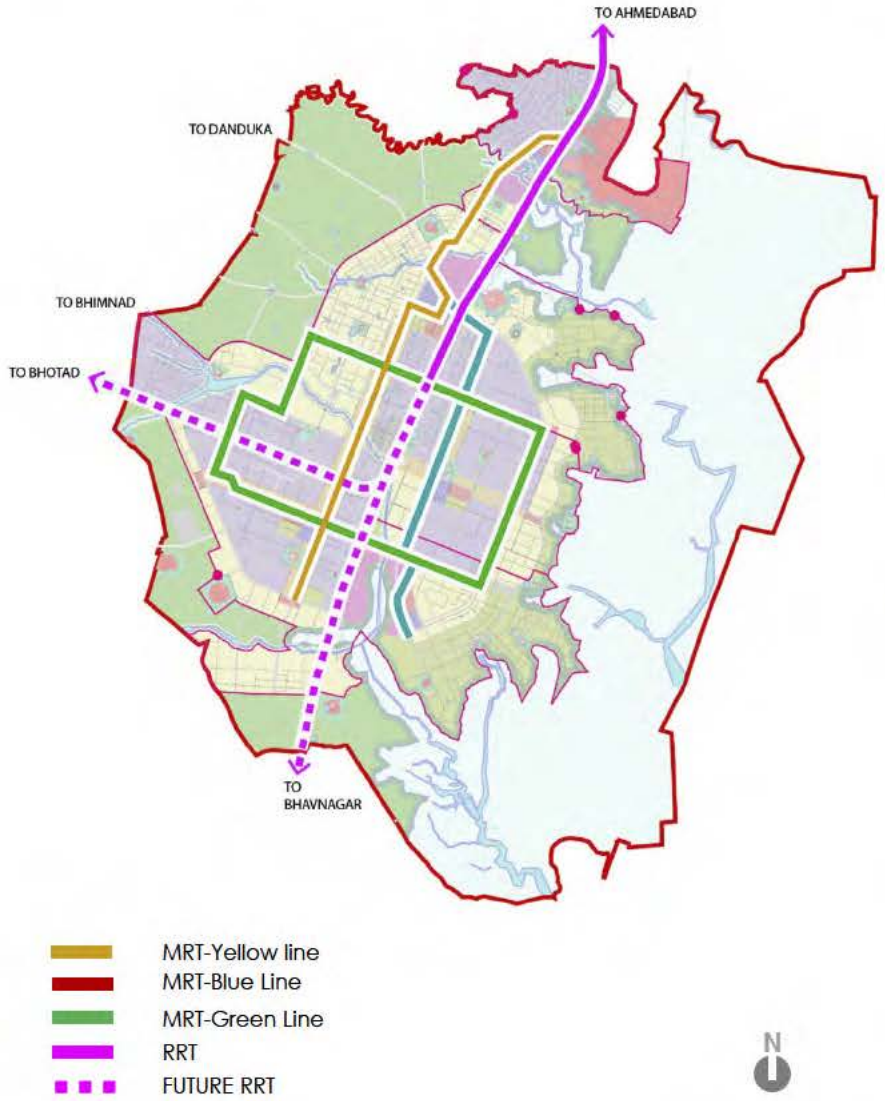


Water

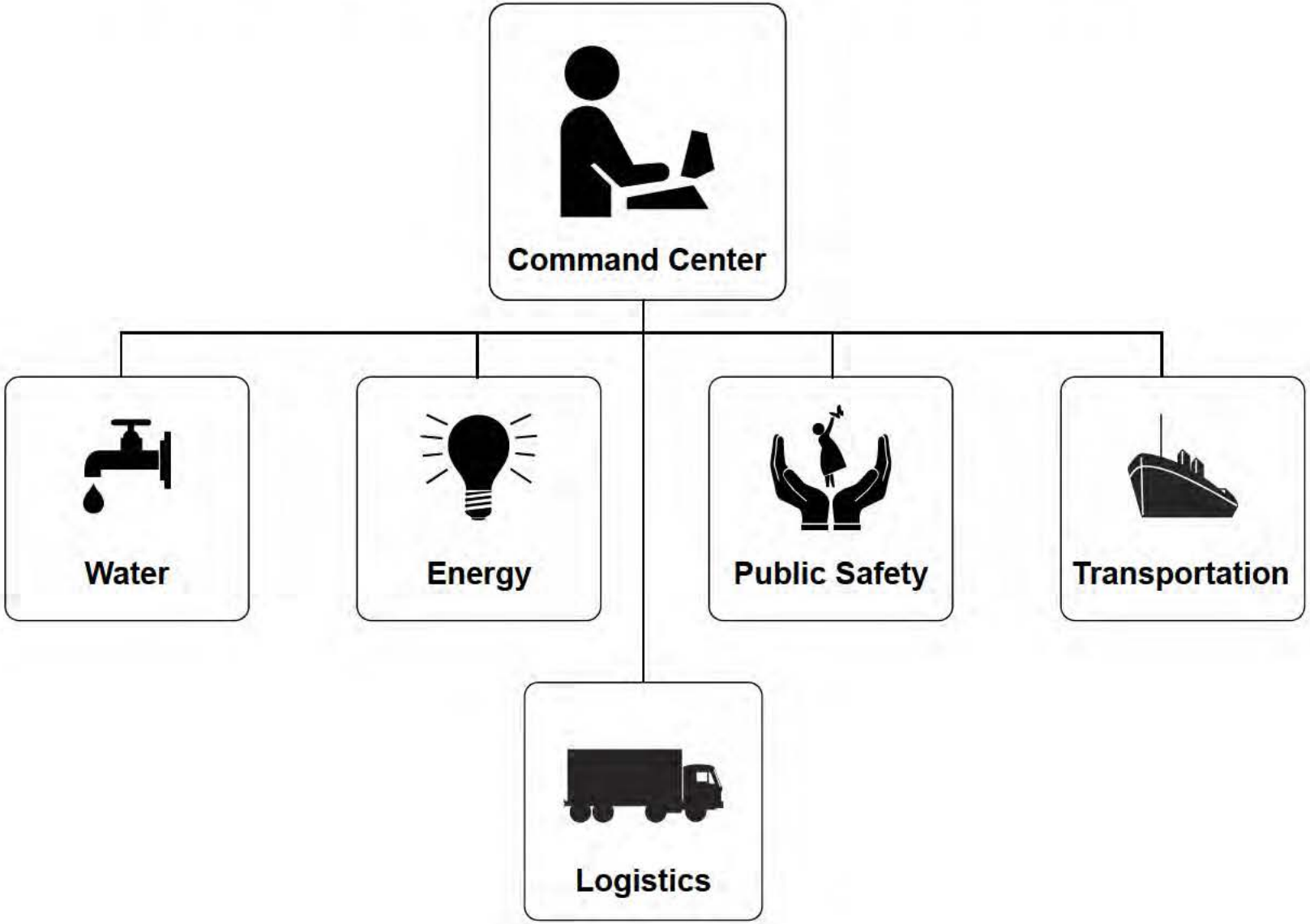
Total Demand = **950 mld**

Phase I = **260 mld**

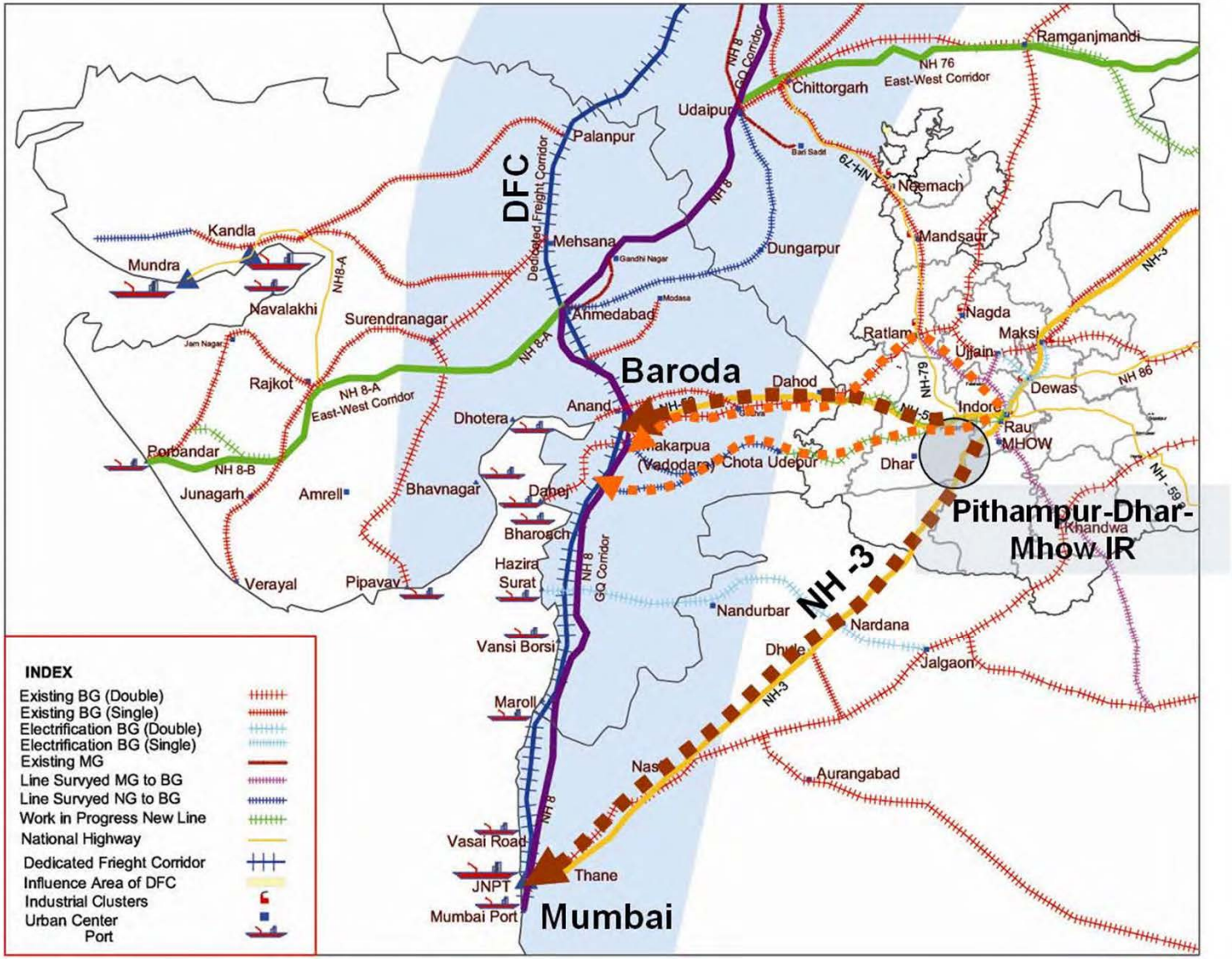
MRTS/RRTS from Ahmedabad to Dholera



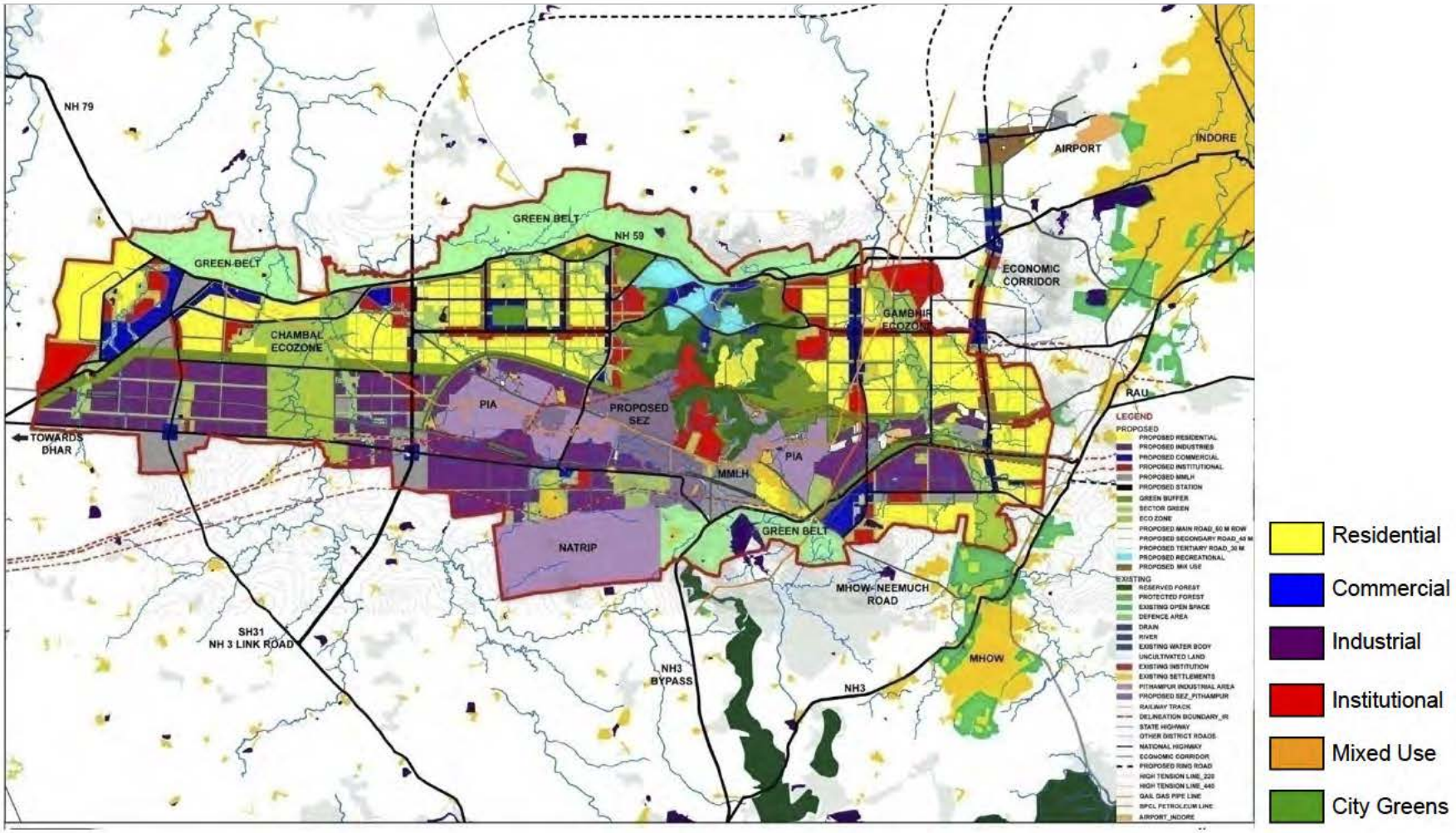
IT Based City Operations & Governance Platform



Pithampur-Dhar- Mhow IR



Pithampur-Dhar- Mhow – Master Plan

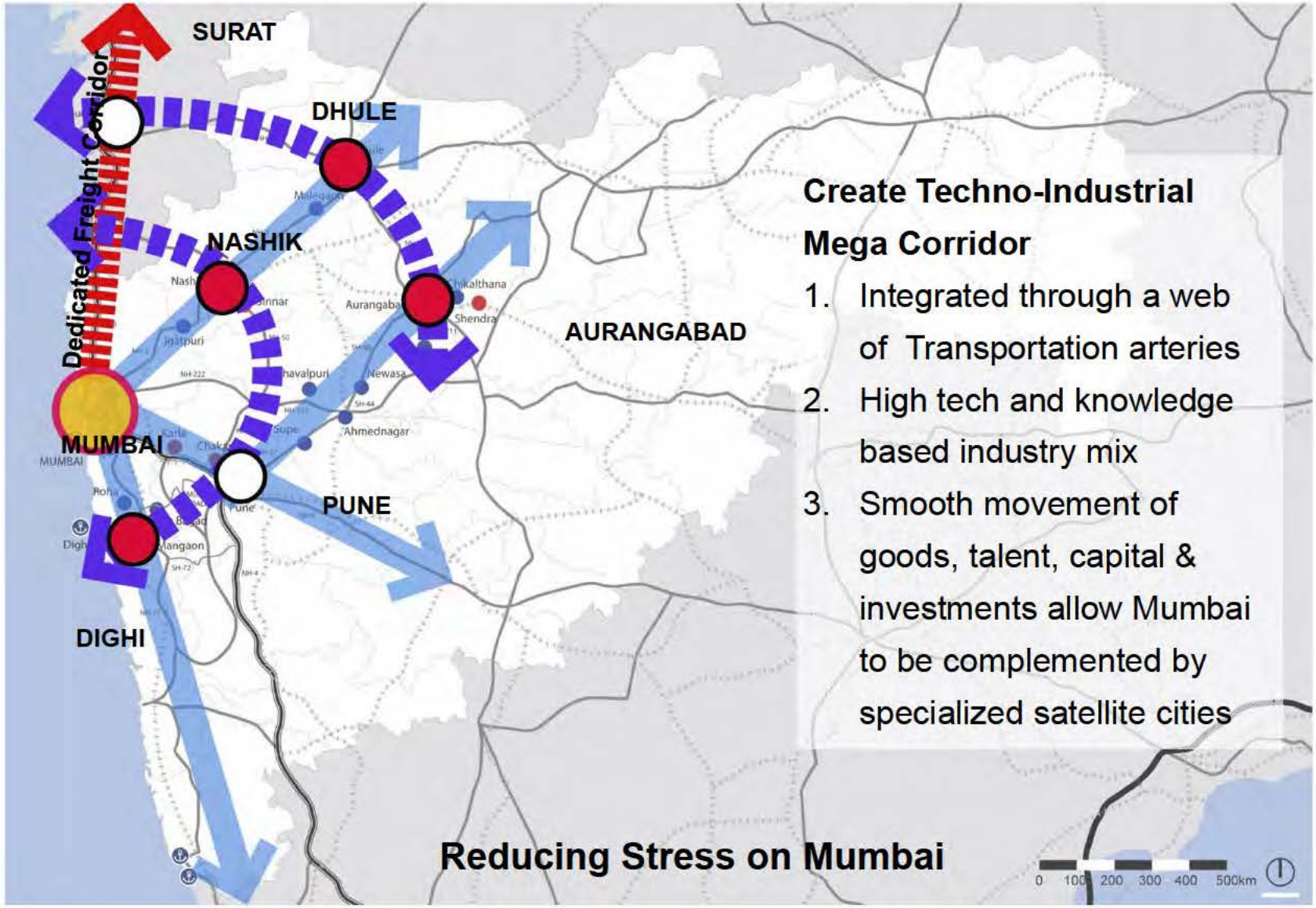


Total Area – **372.4 sq. km** Population – **1.16 million**

Multimodal Logistics Hub at Pithampur

- Site Area : ~**1.8 sq. km**
- Design Capacity: **0.63 million** TEUs
- Indore-Dahod railway link under implementation will connect it to the DFC

Philosophy - Decentralised Regional Development



Dighi Port Industrial Area

- Population (2042): **1.6** mn
- Total area: **253** sq. km
- Phase **1:50** Sq. km
- New integrated industrial and township enclave
  - 71% area under industries
  - Balance - residential & commercial use.
- Three major industrial clusters,
  - Engineering, Heavy Industry and Food Processing Park.
- Smaller, mixed-use centres in between