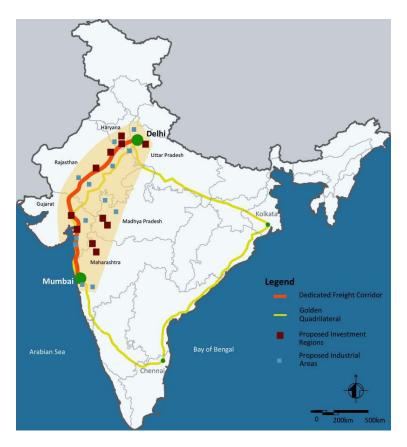
Delhi Mumbai Industrial Corridor Project

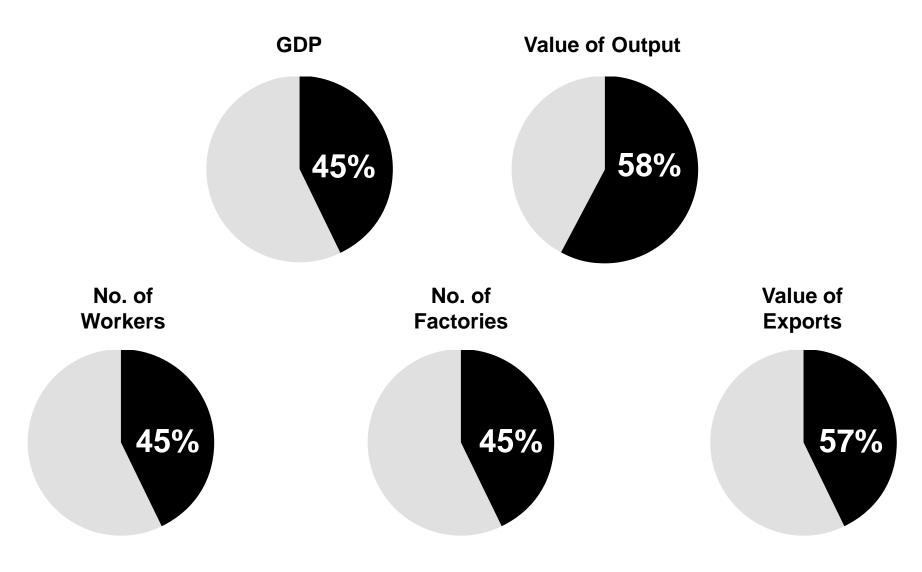


The DMIC Corridor





Contribution of DMIC States

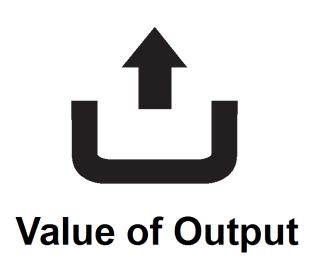


Source: Ministry of Statistics & Programme Implementation, ASI, Labour Bureau



In 9 years

USD **720** billion INR 43,20,000 crores



3 In 9 years

USD **3.3** trillion INR 1,98,00,000 crores

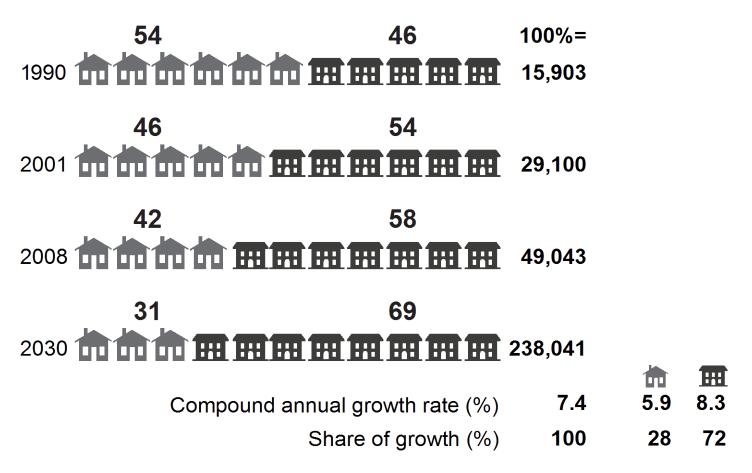


2 In 7 years

USD **25.5** million INR 2,55,00,000 lacs

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

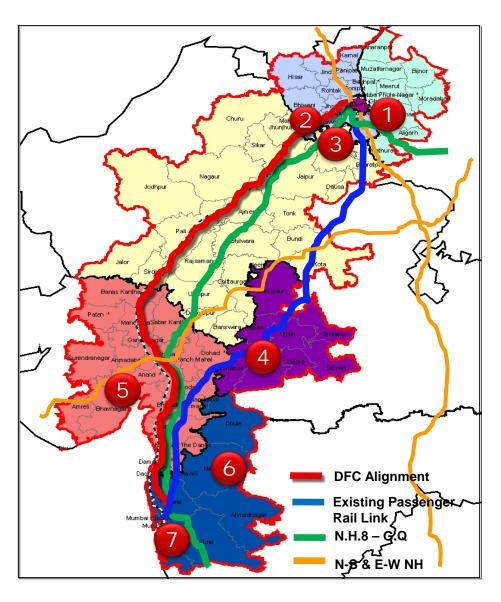
Share of India's GDP %; rupees billion, real 2008



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

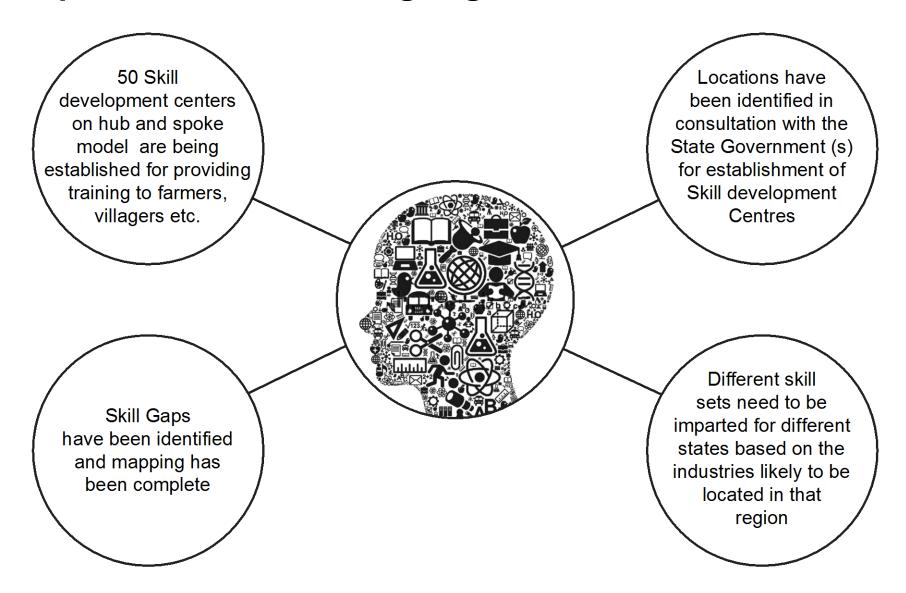
Master Planning - Key sustainable dev. concepts

- 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



Technology (Skill Gap) Matrix

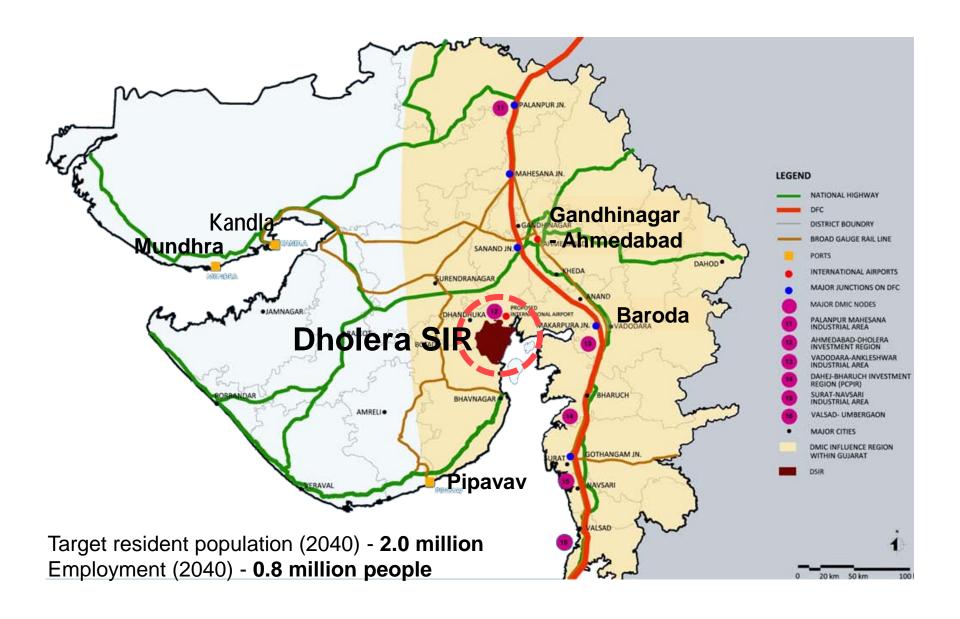
Investment Region Technical Areas	Manesar- Bawal IR	Pithampur-Dhar- Mhow IR	Dholera Special IR	Dadri-Noida- Ghaziabad IR	Khushkhea- Bhiwadi- Neemrana IR	Igatpuri-Nashik- Sinnar IR
Industrial automation & Process Control	V		√	~	V	
Design and Manufacturing	V	V		V	V	V
Automobile mechatronics	V	V		V		V
Hydraulics & pneumatic control	V		√	V	V	√
Electrical & Mechanical Maint.	V	√	V	√	V	√
Networking & Information Technology	V	√			√	√
Infrastructure and construction technology	V	√	√	√	V	V
Welding and fabrication	\checkmark	V	\checkmark	V	V	\checkmark
Garments- design and construction	√	√	√			
Food processing	V	√	√	√	√	√
Chemical and Pharma		√				
Environmental engineering	V		√			
Testing and Calibration	V	√	V	√	√	√
Soft Skills	V	V	V	V	√	$\overline{\hspace{1cm}}$

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



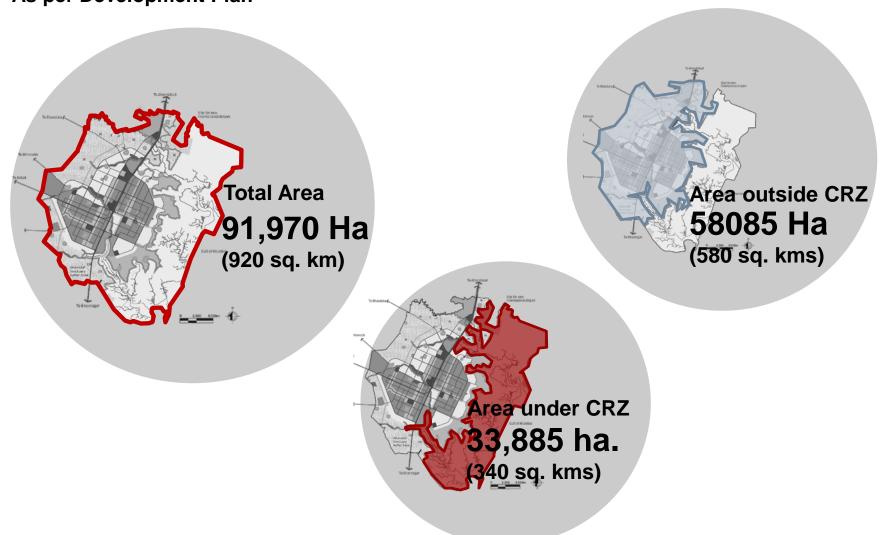
Information & Communications Technology

Dholera Special Investment Region

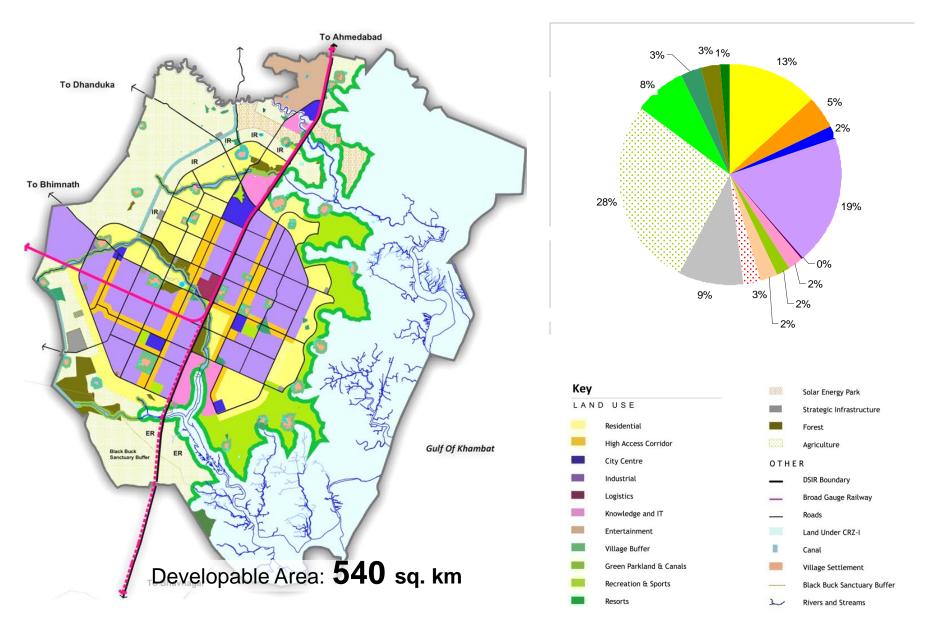


Dholera SIR: Key Indicators

As per Development Plan



Master Plan



Dholera SIR: Projections

Industrial, Tourism & other Jobs



343,000

Supported Jobs



484,000





827,000



Resident population in DSIR

2.0 million





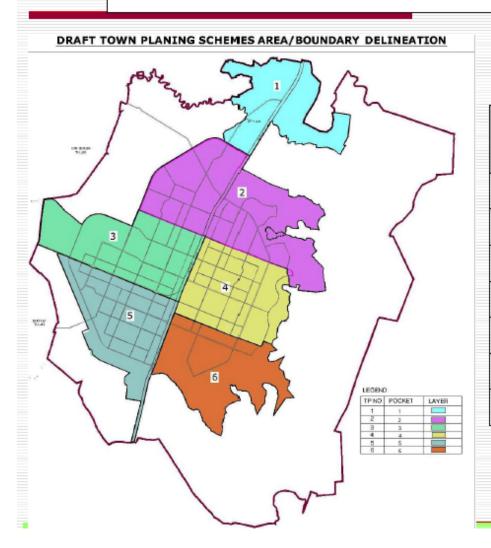






Draft Town Planning Scheme

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
То	406.59	

Owners' meeting in Dholera Village to discuss Town Planning Schemes









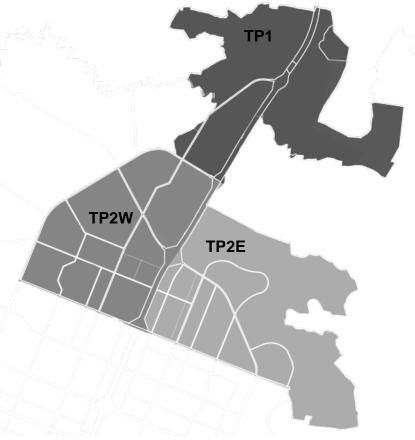
Consultative meeting for Town Planning Scheme 2



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)



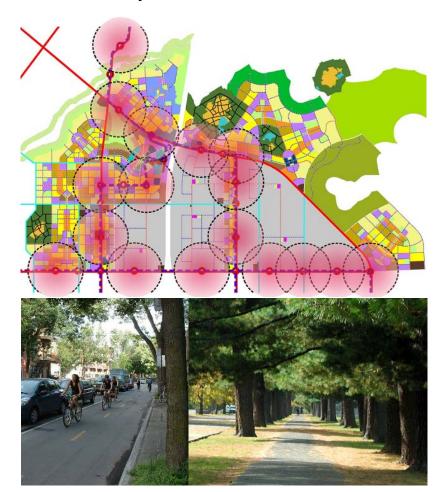
Base (Flat) Infrastructure Include:



- 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

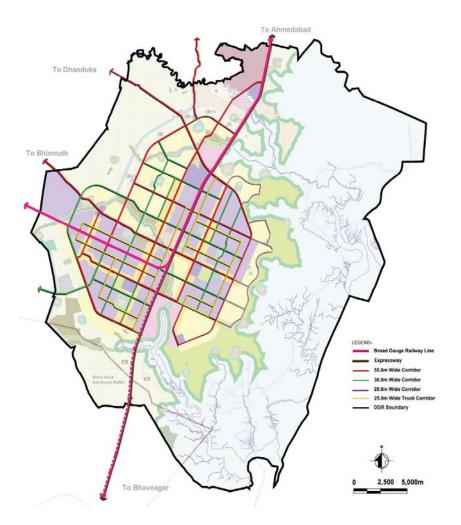


Proposed BRT In Phase I and...



LRT In the later phases

Building world-class infrastructure

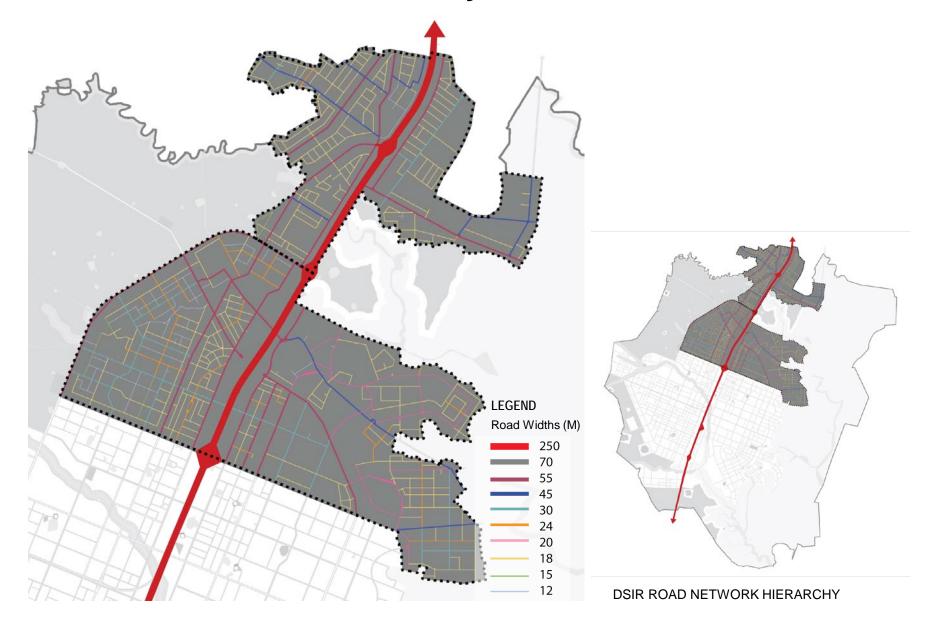


Roads

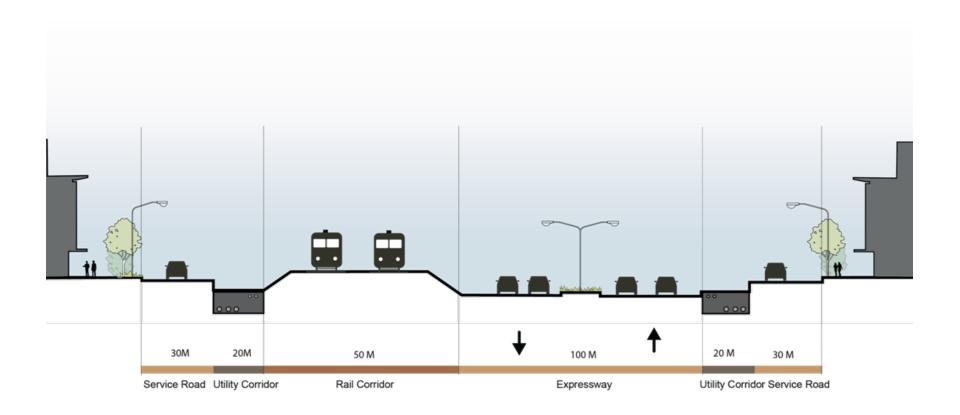
Hierarchy of Arterial and other Roads with dedicated lanes for Public Transport, Cycling, Walking



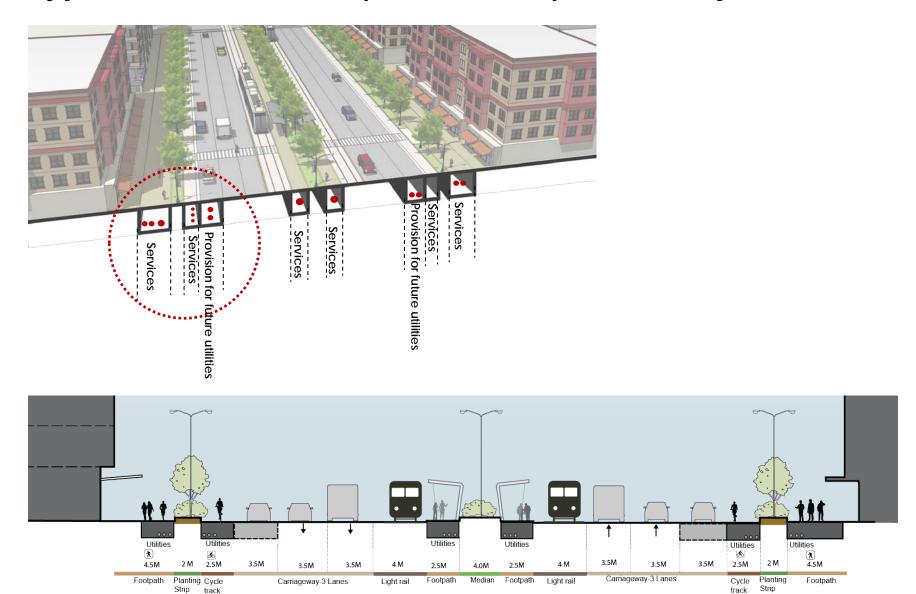
DSIR Road Network Hierarchy – TP Scheme 1&2



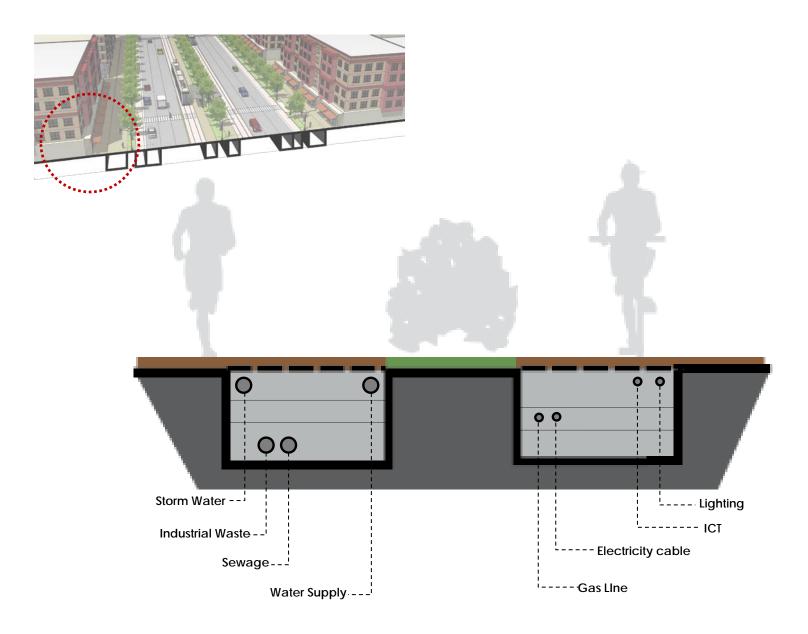
SPINE Road - SH-6 Road Section and Utility Corridor



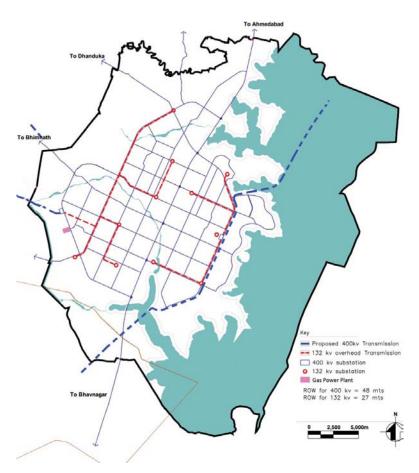
Typical Road Section (55 M & 70 M) with Utility Corridor



Typical detail of Utility Corridor



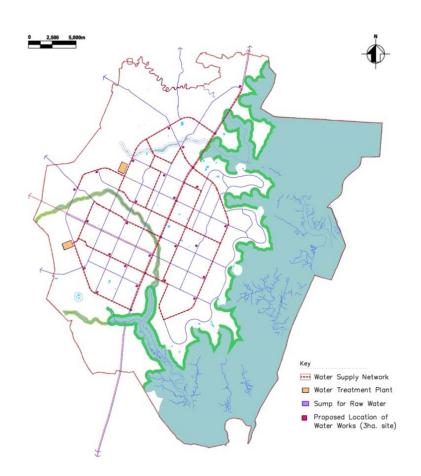
Building world-class infrastructure



Power

Total Requirement: 1,700 MW

Phase I: **400 MW**

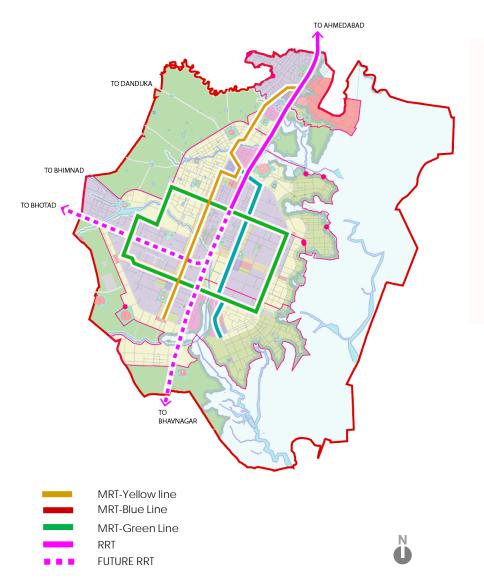


Water

Total Demand = 950 mld

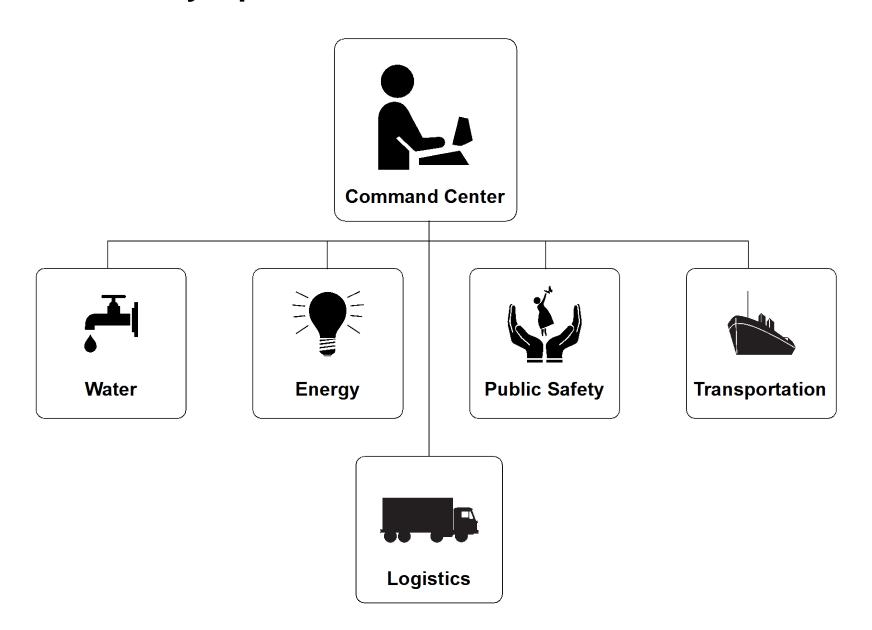
Phase I = **260 mld**

MRTS/RRTS from Ahmedabad to Dholera

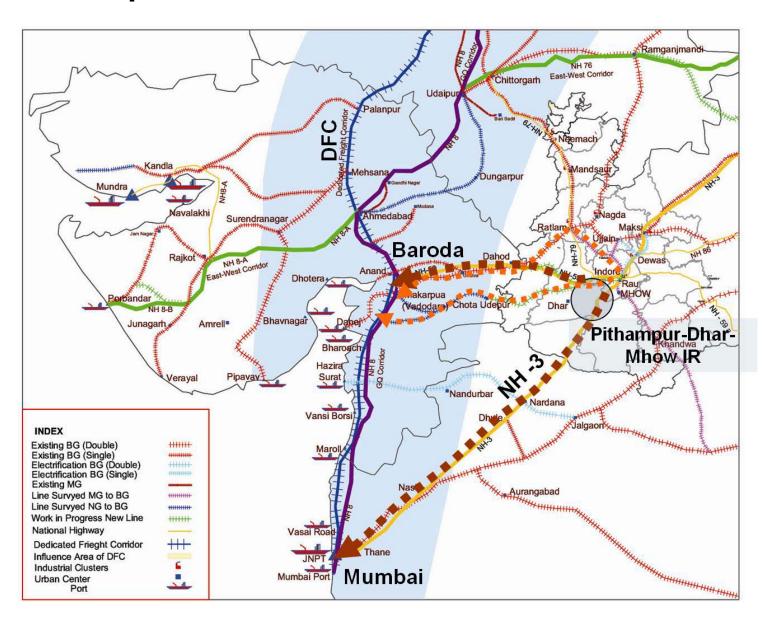




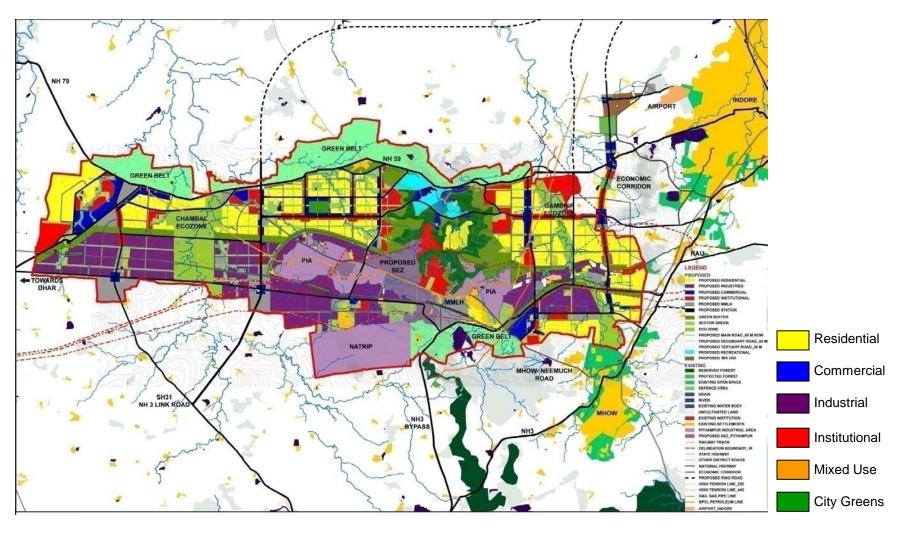
IT Based City Operations & Governance Platform



Pithampur-Dhar- Mhow IR



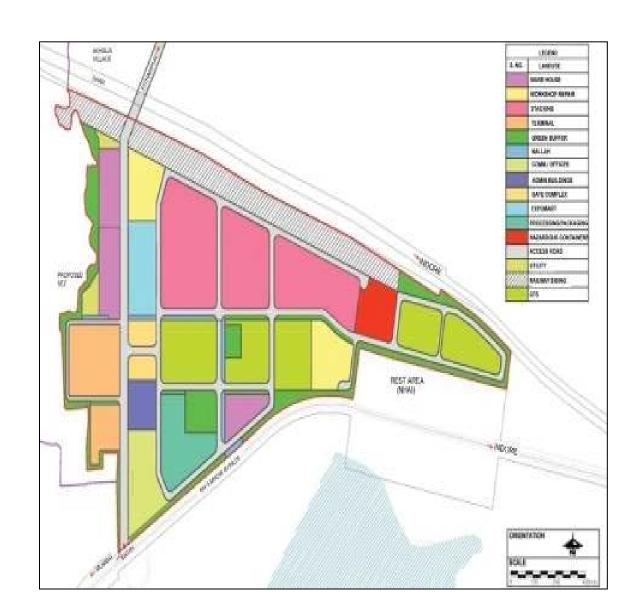
Pithampur-Dhar- Mhow – Master Plan



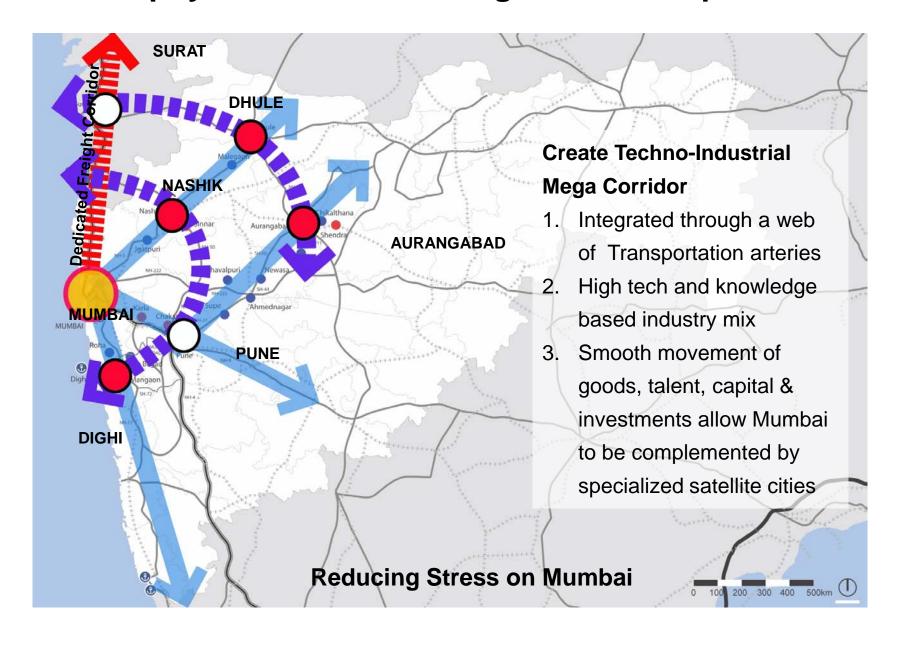
Total Area – **372.4 sq. km** Population – **1.16 million**

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

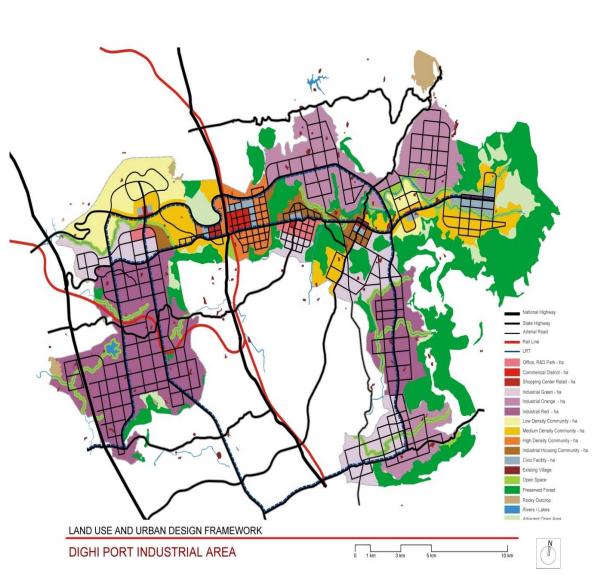
• Population (2042): **1.6** mn

• 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



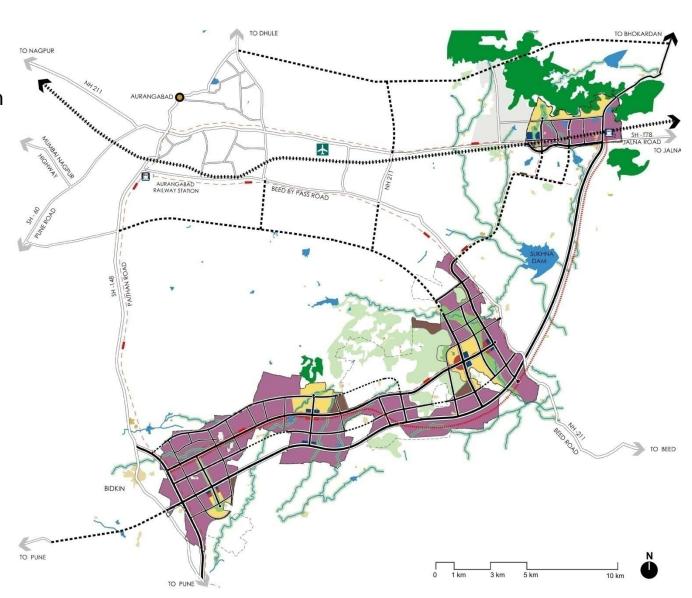




Shendra-Bidkin Industrial Park

Area: **84** sq. km

Population: **0.5** mn







Exhibition cum Convention Centre, Aurangabad

Early Bird Project

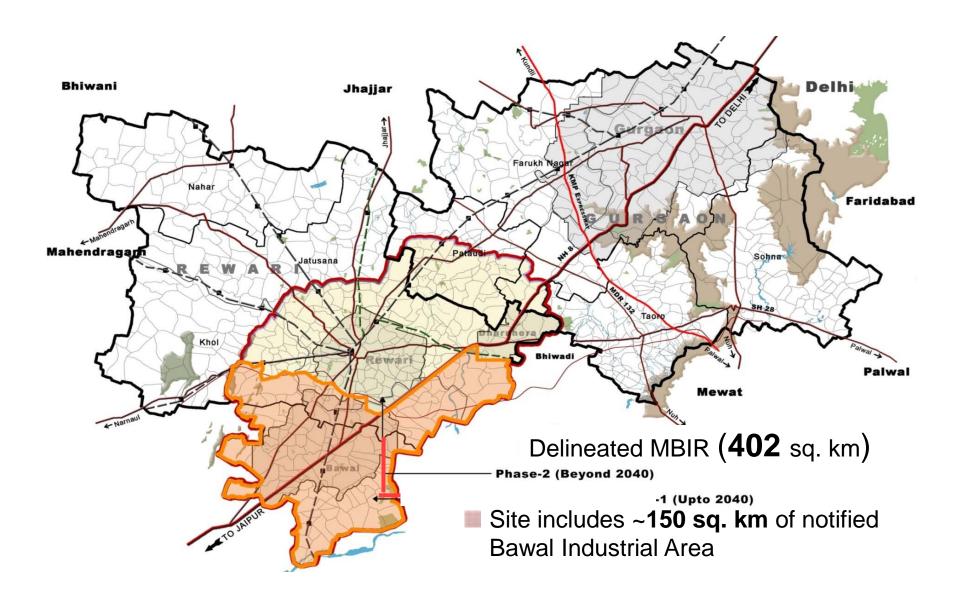
• Site: **50** acres

• Built up area: ECC:

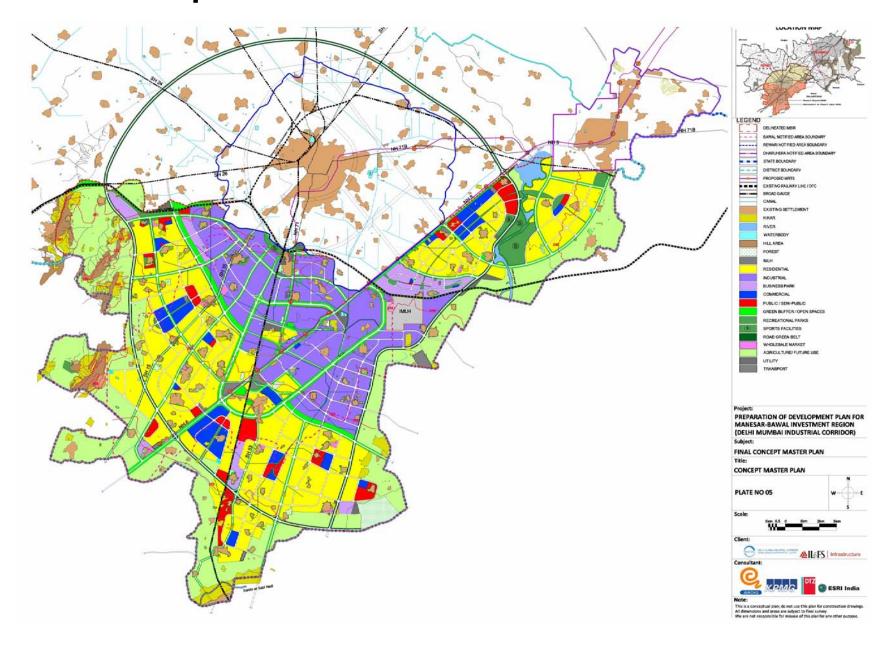
30,000 sq. m



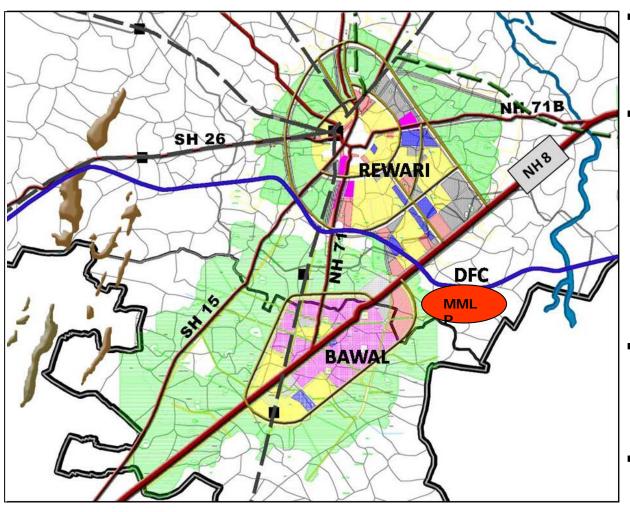
Manesar - Bawal Investment Region



The Concept Master Plan

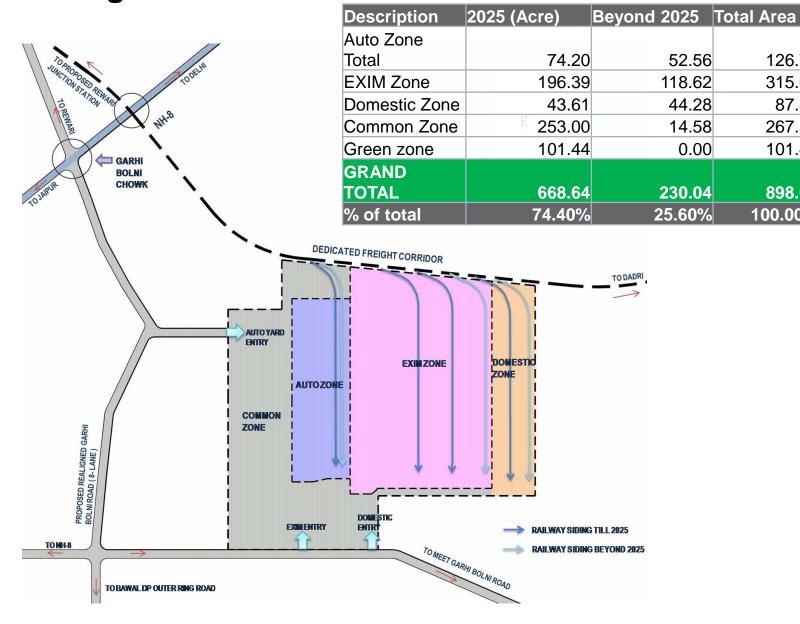


Multi Modal Logistics City at Rewari



- Strategically located at intersection of National Highway 8 and DFC
- Potential to become a
 Regional Hub serving
 NCR, especially Gurgaon,
 Bhiwadi and DMIC
 Manesar-Bawal &
 Neemrana Investment
 Regions
- Capacity: >1.39 mn
 TEUs per yr plus
 Automobile traffic
- Site: ~ 900 acres

Zoning Plan



126.76 14.11%

267.58 29.77%

101.44 11.29%

35.05%

9.78%

100.00

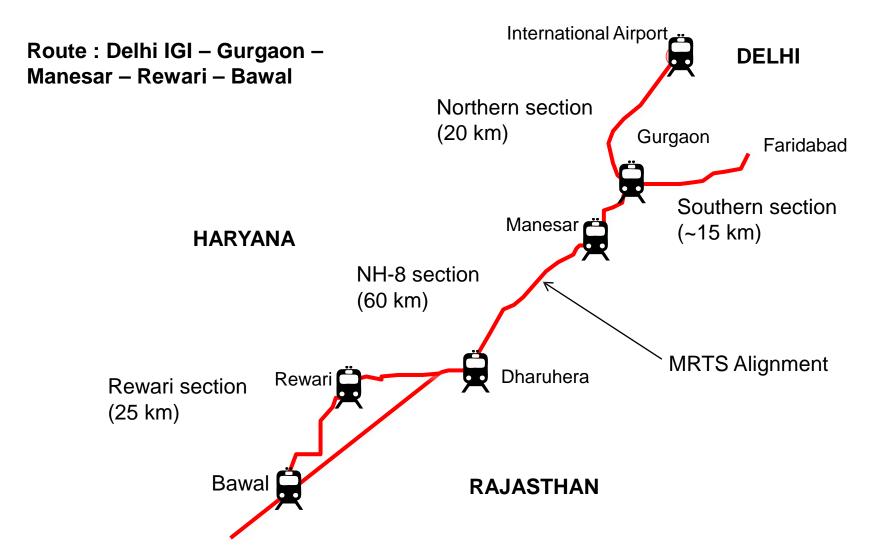
315.01

898.67

100.00%

87.88

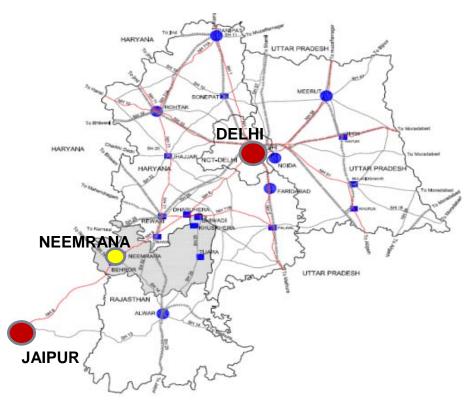
MRTS: Delhi IGI – Bawal



Total route length ~120 km

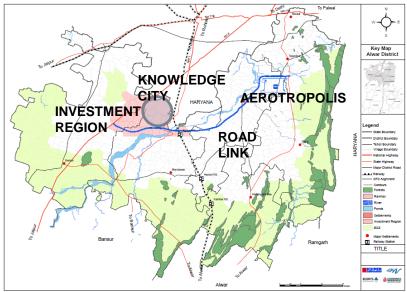
Can be extended upto Neemrana Node in Rajasthan

Khushkhera-Bhiwadi-Neemrana IR



Early Bird Projects:

- Aerotropolis
- Knowledge city
- Neemrana Bhiwadi Road link (50 km)



Concept Master Plan for KBN Investment Region

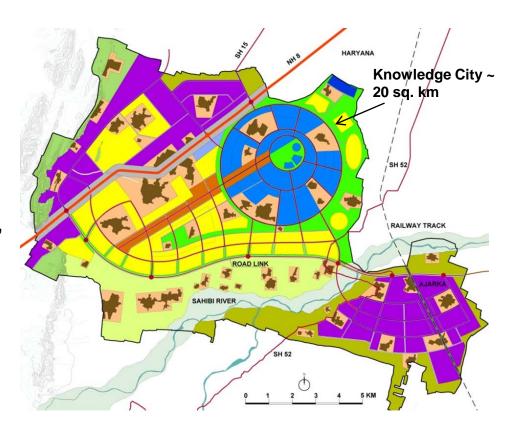
Area: **165 sq. km**

Urbanisable Area – 101 sq. km

Target Population: 1.3 million

Projected Employment – **0.55** mn

Investment Region target industries -Electronic, Automotive, Pharmaceuticals, Bio- tech and ICT



Aerotropolis

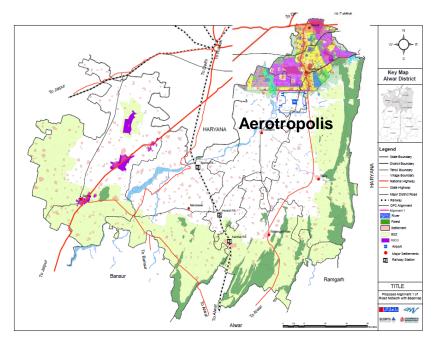
• Strategically located between Delhi and Jaipur, south of Bhiwadi Master Plan Area

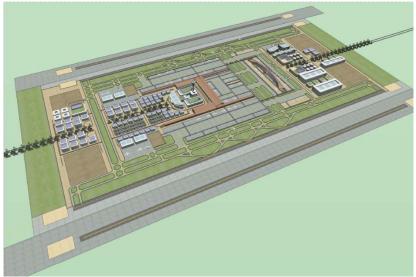
• Total Area: 24 sq. km

• Total Cost: Rs. 4000 crores

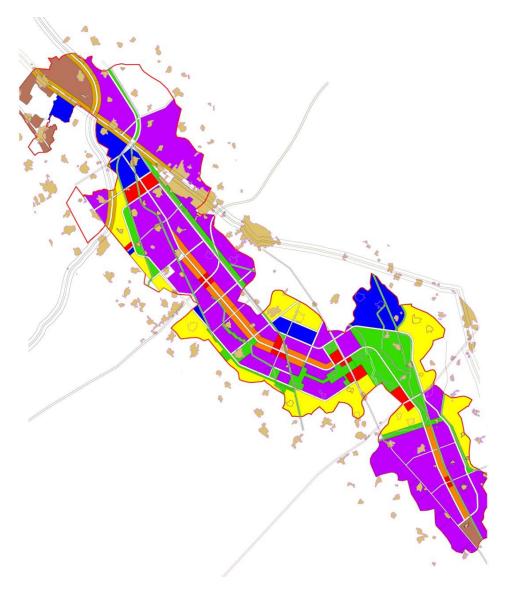
• Components:

- Passenger & Cargo traffic handling
- Non aviation Business Parks, Hotels, Distribution centers etc.
- Maintenance Repair Overhaul (MRO)





Dadri Noida Ghaziabad Investment Region – Master Plan

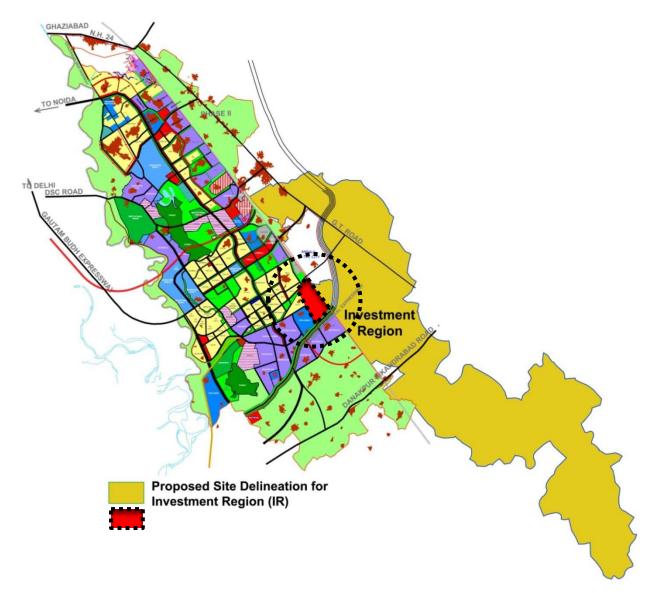


Total Area: Approx 210 sq kms

Land Use	%
Industrial Area	37
Residential	14
Commercial	4
Public - Semi Public Facilities	6
Utilities	1
Transportation	14
Green Areas / Agriculture	17
Non Developable area	7
Total	100

Integrated Industrial Township-Site Location

Hi Tech Integrated Township



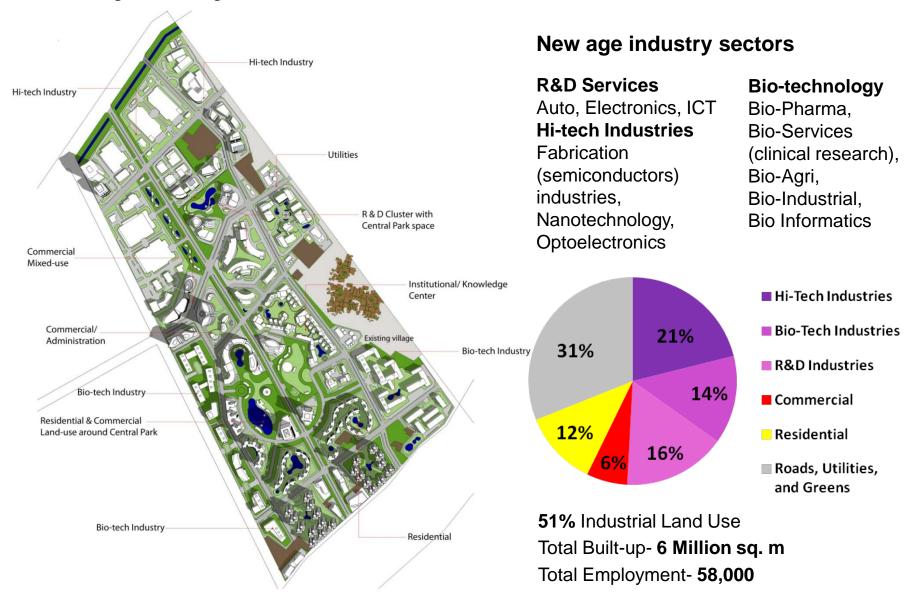
Located in Greater Noida Spread over an area of 747.5 acres

Villages:

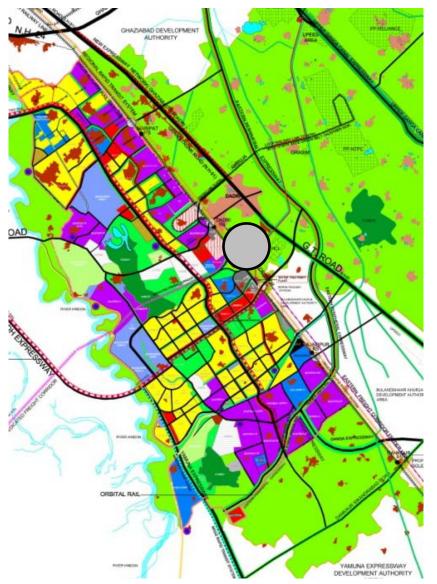
- 1. Rithori,
- 2. Raipur Bangar,
- 3. Dhabra,
- 4. Gohri Bachera
- 5. Ajaibpur
- 6. Maycha

Integrated Industrial Township-Project Components

Promoting Knowledge – based Hi-tech Industries



Multi-Modal Logistics Hub- Site Location





Located in Greater Noida Located on NH-91 and Delhi-Howrah BG Line

Power Plants







Gas based Power Plants

Capacity: **1000-1200** MW each.

Sites:

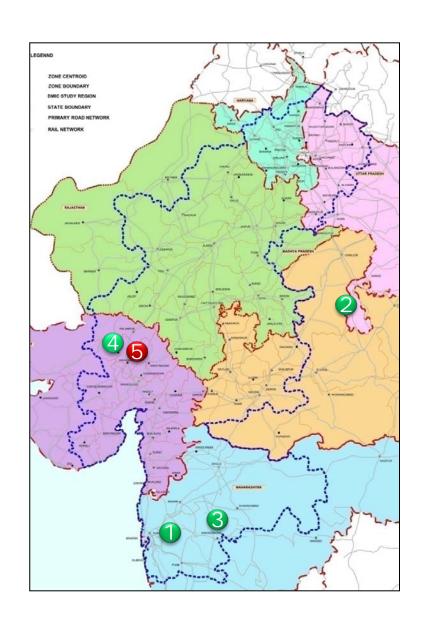
Ville Bhagad, District Raigad, Maharashtra

Chainpura, District Guna, Madhya Pradesh

Indapur, District Pune, Maharashtra

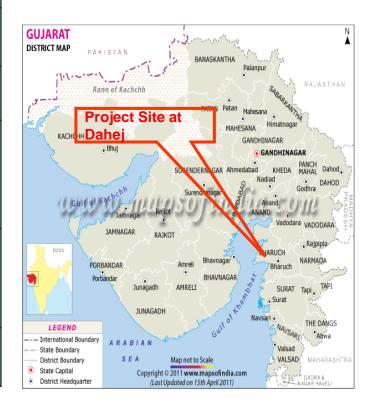
Vaghel, District Patan, Gujarat

Rajpur-Shahpur, District Mehsana, Gujarat



Dahej Desalination Project

Project	Construction of a sea water reverse osmosis ("SWRO") desalination plant in Dahej, Gujarat.
Sponsors	Hitachi, Hyflux and Itochu
Production Volume	75 million gallons per day (" MGD ") / 336 MLD
Total Project Cost	USD [606] Million*
Offtaker	Dahej Special Economic Zone Ltd. (" DSL "), a JV of ONGC Petro Additions Ltd (" OPaL ") and Gujarat Industrial Development Corporation
Water Purchase Agreement ("WPA")	[30]-year WPA with DSL on 100% take or pay guarantee backed by GIDC
Tariff	INR [37]* per cum +6.25%* p.a. Escalation + WPI on the variable costs



^{*}Indicative only

Model Solar Project-Neemrana



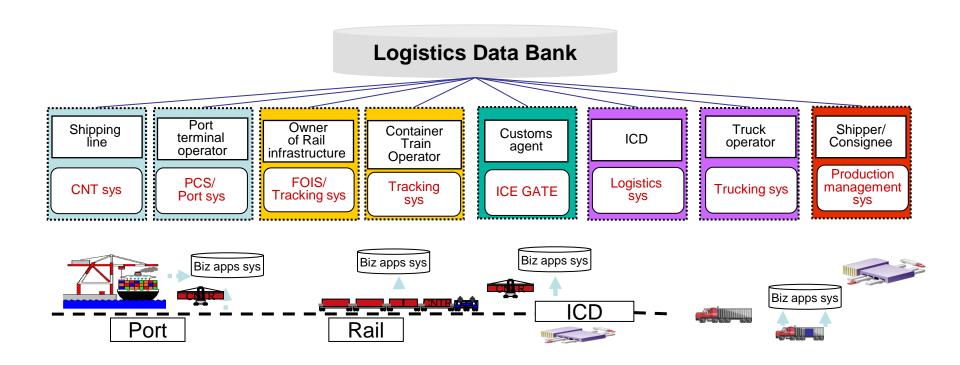


- MoU: New Energy & Industrial Technology
 Development Organization (NEDO), Ministry of
 New & Renewable Energy (MNRE), Ministry of
 Finance (MoF) and DMICDC dated April 30, 2012
- Location: Neemrana Industrial Park, Japanese Zone, Rajasthan, INDIA
- Project Scheme: 6.00 MWp Solar PV & 1.6 MW DG Power
 - 5.00 MWp Solar Power Project Feeding Power to the Commercial Grid under JNNSM scheme
 - 1.00 MWp Solar Power Project and 1.60 MW Diesel Generator Set integrated with Smart Micro Grid, Feeding Power to Industrial Consumers in Neemrana Industrial Park

DMIC Logistics Data Bank

Aimed at improving competition, reducing transportation lead time and cost by **sharing** container movement information on real time basis among all agencies in the Supply Chain using an IT based platform.

Necessary to create an extensive database at an early stage to generate rapid changes in supply chain.



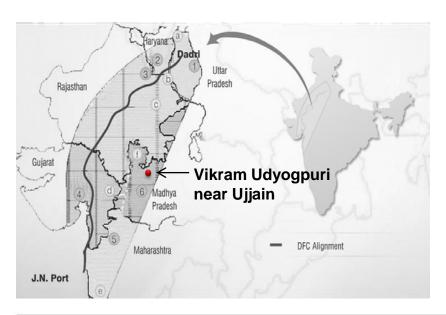
Early Bird Projects

Integrated Industrial Township at Greater Noida

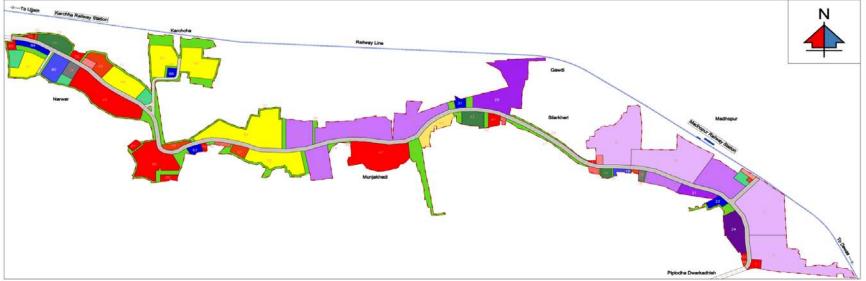
- Strategically located near Delhi and spread over an area of 747.5 acres in Greater Noida
- Employment generation capacity of over 2 lakh jobs
- Will attract investment to the tune of Rs. 35000 crores
- Complete plug and play factories with vertical manufacturing
- Suitable for High Tech, R & D, Bio –tech industries



Vikram Udyogpuri

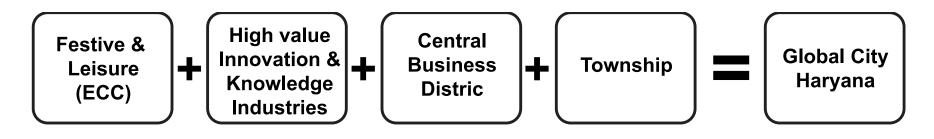


- Integrated Industrial Township (IIT) is an Early Bird Project to initiate industrial development for the takeoff of the Pithampur-Dhar-Mhow Investment Region while providing essential infrastructure and services to support establishment of institutions that would create a skilled and employable workforce
- The project is located about 8km from Ujjain and 12km from Dewas and has a total area of 443.79 Ha (1096.63 acres)



Global City project, Haryana

- Spread over an area of **1100** acres close to Gurgaon
- Has the potential to generate **25%** more GDP than that of Gurgaon
- Will generate over to **200000** jobs

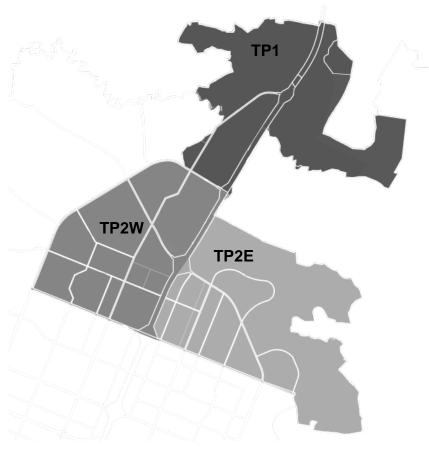




Dholera Phase -1 in Gujarat

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:



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)



Phase – 1 of new industrial city at Shendra, Maharashtra (24 sq. kms)



Multi Modal Logistics Park at Karmad (125 acres)

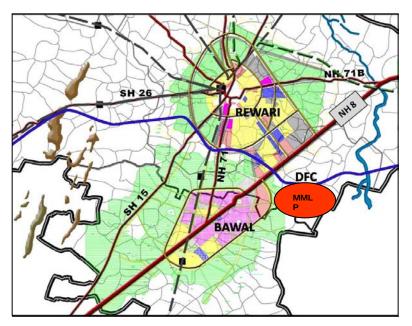


Water Supply Scheme for Shendra



Mixed used development over an area of 50 acres

Multi Modal Logistics City at Rewari



- Strategically located at intersection of National Highway 8 and DFC
- Potential to become a Regional Hub serving NCR, especially Gurgaon, Bhiwadi and DMIC Manesar-Bawal & Neemrana Investment Regions
- Capacity: >1.39 mn TEUs per yr plus Automobile traffic
- Site: ~ 900 acres



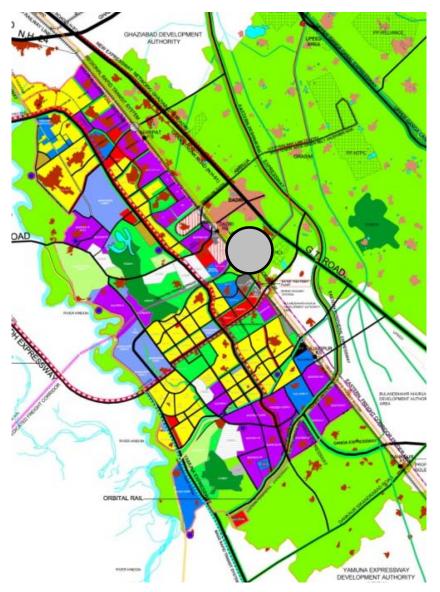








Multi-Modal Logistics Hub- Site Location





Located in Greater Noida Located on NH-91 and Delhi-Howrah BG Line

Other MMLPs being planned in DMIC Region

- MMLP Pithampur, Madhya Pradesh 175 acres
- MMLP Karmad, Maharashtra 125 acres
- MMLP Sanand, Gujarat 500 acres

Key components:

- Integrated systems accessible by multiple modes of transport
- Container terminals
- Warehouses
- 3rd Party logistics players
- ICD/CFSs
- Banking and Insurance
- Facilities for manufacturing, packaging, parking, mechanized handling, inter-modal transfers, sorting and grading.
- Aggregation/disaggregation to handle domestic and EXIM Freight.
 Integrated systems accessible by multiple modes of transport.









Exhibition cum Convention centre at Dwarka, New Delhi



- Strategically located in Sec 25-26, Dwarka near Delhi IGI Airport
- Will generate approx 200,000 jobs by 2040

ECC & IFC at Dwarka- Concept Plan



Total Site Area- 154 Ha (380.53 acres)

- Exhibition halls 2 million square feet
- Convention centre- 6000 fixed seating capacity
- Multi-purpose Arena- 18,000 capacity
- **3500 hotel keys** 4-5 star, business hotels, service apartments
- Commercial office space
- Multi-level parking
- Green open space
- **IFC** to be developed as Air Cargo Complex

Institutional & Financing Structure approved by the Cabinet **DMIC Apex Authority at Gol** Gol Capital Grant, leveraged (chaired by FM) through Infra Bonds, Multilaterals The Fund will be set up as a Trust, administered by a **Board of** GOI Grant will be State Apex Trustees. It will be chaired by Secretary, DEA and will comprise Revolving in nature **Authority** Secretary, DIPP, FA (DIPP), representatives of Dept. of to enable (Chaired by CM) Expenditure, Planning Commission, and CEO & MD, DMICDC, who development of will also be the CEO of the Fund/Trust. more cities **DMIC Project Equity** State Govt. Implementation Revolving **Fund** Fund will contribute Debt & Equity to SPVS on a case to case basis after investment proposals submitted by **DMICDC** Land **Board of** DMICDC are appraised, approved and (Knowledge Partner to **Trustees** sanctioned by the Board of Trustees. the Fund) **Debt DMIC Investment Node Equity / Debt Nodal/City Level SPV Debt Service Equity / Debt GOI** funding to SPV to be utilised for Power Holding Co. **Logistics Holding Co** Non-PPP projects SPV 1 SPV₁ SPV 2 SPV 2 Infra Infra Infra Non SPV₃ SPV₃ **Infra SPV Project Project** Project **PPPable** SPV **SPV SPV Projects** Water Holding Co. **Transport Holding Co. PPP-able Infra Projects** Infra SPV SPV 1 SPV 1 Concessions to be granted by the Nodal/ Infra SPV SPV 2 SPV 2 City Level SPV (for internal infra) and State Govt. (for external infra) SPV₃ SPV₃

Opportunities across the value chain...1/2

PPP

- The policy and regulatory frameworks (concession agreements) are well established
- Substantial scale-up in the last 5 years which has created opportunities for various companies to venture as "Project Developers

Contractors/ Consultants

- Business Opportunities from implementing agencies who will sub contract construction
- Skilled manpower and sophisticated construction technology available
- Mega projects like Delhi Metro, Highway, airports, ports projects have already showcased business opportunities for contractors

O&M Operators

- Emerging area of opportunity and has few players
- Going forward, the sectors will require equipments, systems and software

Opportunities across the value chain...2/2

Equipment Suppliers

- Consistent demand of equipment due to mega infrastructure development across sectors
- Huge business potential for overseas players to enter the market

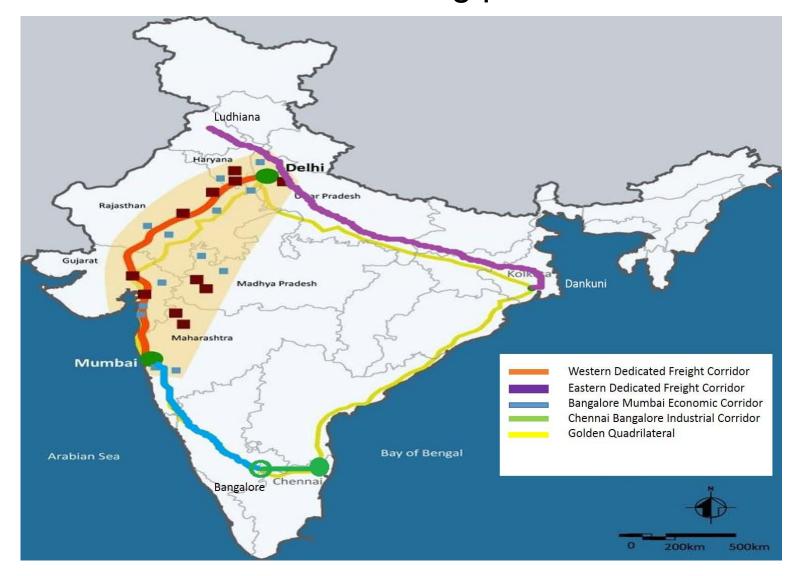
Rolling Stock Suppliers

- Increasing demand for various types of passenger & freight rolling stock
- Current domestic capacity caters half the demand and hence increasing imports
- Attractive opportunity exists for private players

Financing

- Various Financial Institutions and PE firms have already entered into the development area, incl. several Japanese banks
- Attractive opportunity exists for FIs, PE firms, private investors

Other Industrial Corridors being planned in India



These corridors will transform India as a manufacturing hub in next one decade.

Thank you