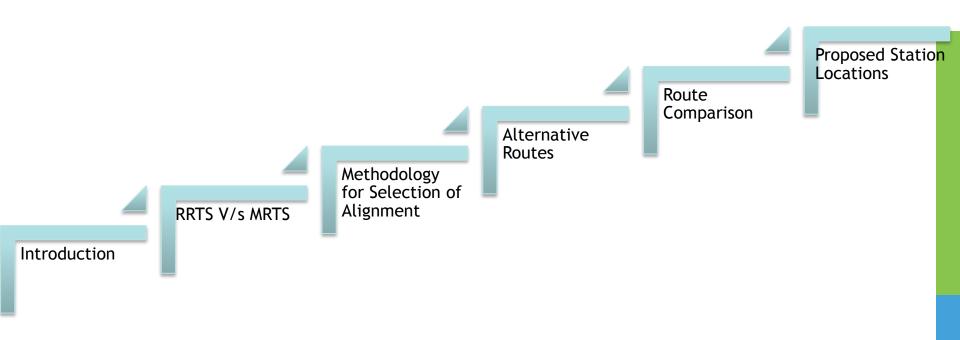


PRESENTATION ON DELHI-GURGAON-REWARI-ALWAR RRTS CORRIDOR ALIGNMENT

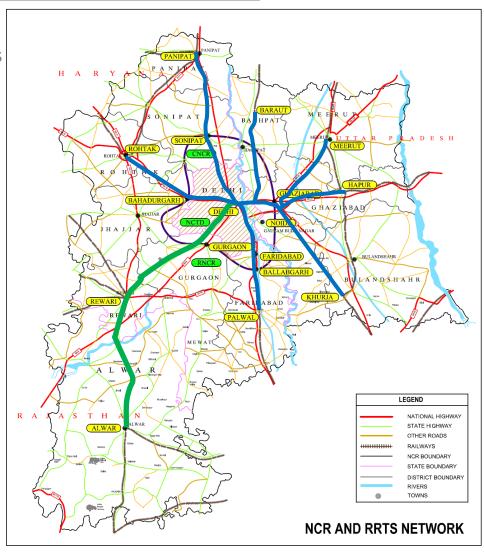
Contents





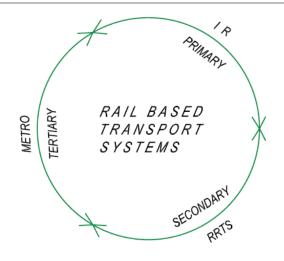
Introduction

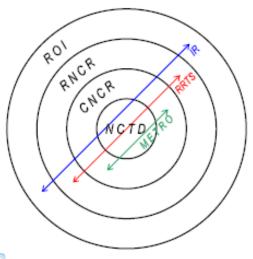
- NCRPB) Horizon 2032 Identified Eight RRTS (Regional Rapid Transit System) Rail Corridors
 - Delhi Gurgaon Rewari Alwar (158 Kms) [DGRA Project Corridor]
 - Delhi Ghaziabad Meerut (67 Kms)
 - Delhi Sonipat Panipat (89 Kms)
 - Delhi Faridabad Ballabgarh Palwal (60kms)
 - Delhi Bahadurgarh Rohtak (70 Kms)
 - Delhi Shahadra Baraut (56 Kms)
 - Ghaziabad Khurja (83 Kms)
 - Ghaziabad Hapur (57 Kms)
- RRTS corridors development broadly along the existing rail alignments
 - Deviate where necessary to connect present and likely growth centers
 - RRTS to provide a rapid transportation system for intra regional movement





RRTS v/s MRTS

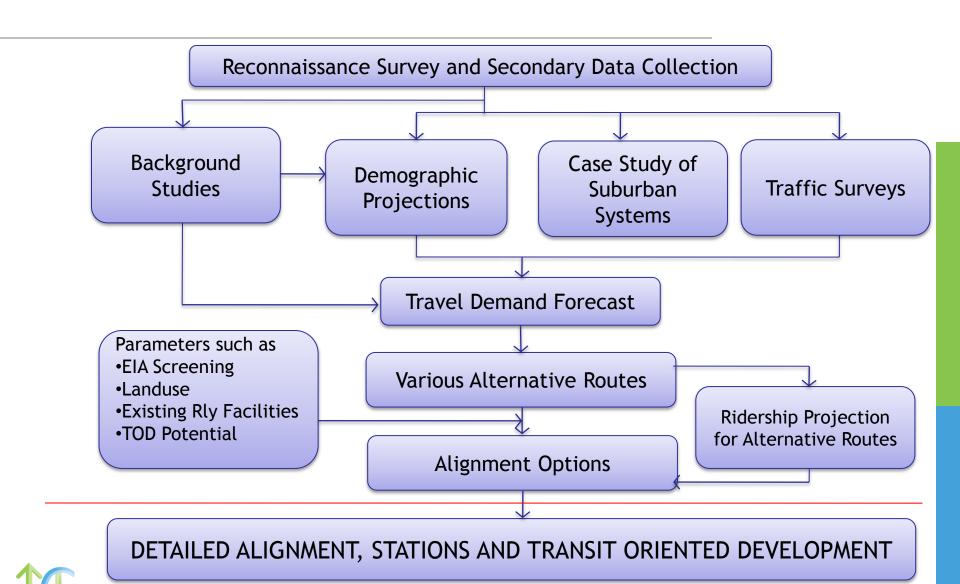




Parameter	RRTS	METRO/ MRTS
Traffic Served	Inter city/ Intra Regional	Intra City / Sub urban
Station Spacing (Km)	5 +	0.8 to 2
Average Station Spacing (Km)	10	1
Max Speed (KmPH)	160 +	80
Booked Speed (KmPH)	145 +	70
Average Speed (KmPH)	80 - 100	28 - 35



Methodology for Alignment Selection

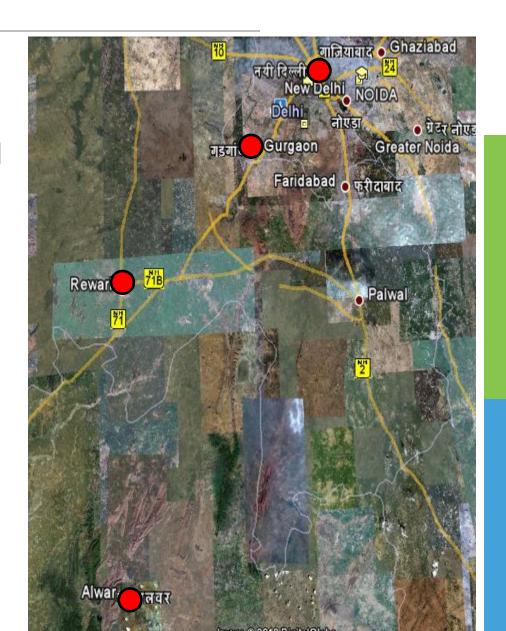


Route Planning

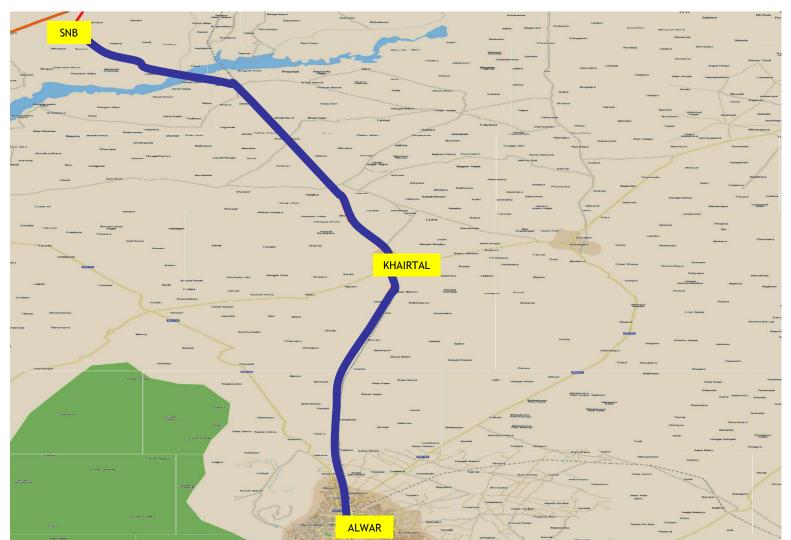
Considerations

- DMRC network
 Development in NCTD and
 CNCR zones
- Development in Gurgaon-Rewari Region (DMIC project)
- Multiple access nodes
 within NCTD Distributed
 Boarding / Alighting
- Minimum necessary
 access nodes to achieve
 the desired higher speeds



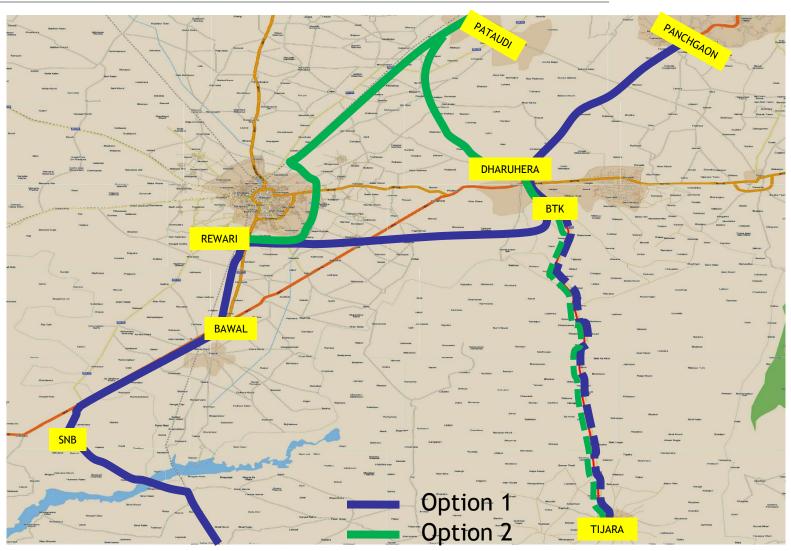


Route Options: Alwar - SNB





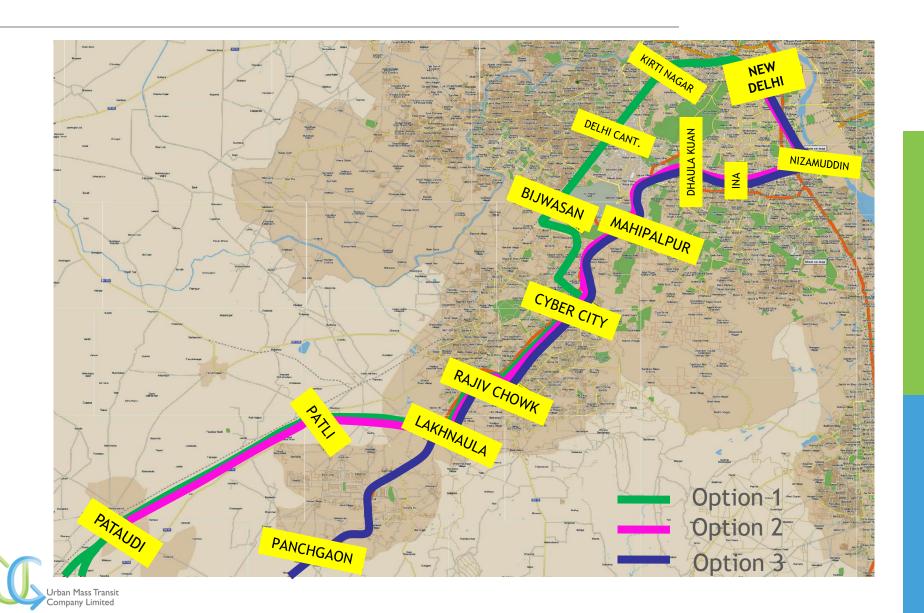
Route Options: SNB – Rewari – Pataudi/Panchgaon





Future Extn

Route Options: Pataudi / Panchgaon – New Delhi



Route Comparison

Route	Option 1	Option 2	Option 3
Route Description	New Delhi - Kirti Nagar - Bijwasan - Cyber City - Rajiv Chowk - Lakhnaula- Patli - Pataudi - Rewari - Bawal - Alwar Pataudi - Dharuhera - BTK	New Delhi - Nizamuddin - Dhaula Kuan - Mahipalpur - Cyber City - Rajiv Chowk - Lakhnaula- Patli - Pataudi - Rewari - Bawal - Alwar Pataudi - Dharuhera - BTK	New Delhi - Nizamuddin - Dhaula kuan - Mahipalpur - Cyber City - Rajiv Chowk - Lakhnaula - Panchgaon - Dharuhera - BTK - Rewari - Bawal - Alwal BTK - Tijara (Future)
	- Tijara	- Tijara	
Daily Traffic, lakh 2031	8.00 (-11%)	8.25 (-8%)	9.00
Peak Sectional Load in '000, 2031	18	18	16
Important nodes Served	Cyber City, Patli, Pataudi, Rewari	Cyber City, Patli, Pataudi, Rewari	Cyber City, Panchgaon, Dharuhera, BTK, Rewari
Important Nodes Not Served	Panchgaon	Panchgaon	Patli, Pataudi
Airport Connectivity	Bijwasan	Mahipalpur	Mahipalpur



Route Comparison

Company Limited

Route	Option 1	Option 2	Option 3
Route Description	New Delhi - Kirti Nagar - Bijwasan - Cyber City - Rajiv Chowk - Lakhnaula- Patli - Pataudi - Rewari - Bawal - Alwar Pataudi - Dharuhera - BTK - Tijara	New Delhi - Nizamuddin - Dhaula Kuan - Mahipalpur - Cyber City - Rajiv Chowk - Lakhnaula- Patli - Pataudi - Rewari - Bawal - Alwar Pataudi - Dharuhera - BTK - Tijara	New Delhi - Nizamuddin - Dhaula kuan - Mahipalpur - Cyber City - Rajiv Chowk - Lakhnaula - Panchgaon - Dharuhera - BTK - Rewari - Bawal - Alwal BTK - Tijara (Future)
Metro / MRTS Connectivity	New Delhi, Kirti Nagar, Cyber City, Rajiv Chowk, Mohammadpur Jharsa (Lakhnaula)	New Delhi, Nizamuddin, Jorbagh(INA), Dhaula Kuan, Cyber City, Rajiv Chowk, Mohammadpur Jharsa (Lakhnaula)	New Delhi, Nizamuddin, Jorbagh(INA), Dhaula Kuan, Cyber City, Rajiv Chowk, Mohammadpur Jharsa (Lakhnaula), Panchgaon
Multi Modal / Inter-state Connectivity	New Delhi	New Delhi, Nizamuddin	New Delhi, Nizamuddin

Route Comparison

Route	Option 1	Option 2	Option 3
Route Description	New Delhi - Kirti Nagar - Bijwasan - Cyber City - Rajiv Chowk - Lakhnaula- Patli - Pataudi - Rewari - Bawal - Alwar	New Delhi - Nizamuddin - Dhaula Kuan - Mahipalpur - Cyber City - Rajiv Chowk - Lakhnaula- Patli - Pataudi - Rewari - Bawal - Alwar	New Delhi - Nizamuddin - Dhaula kuan - Mahipalpur - Cyber City - Rajiv Chowk - Lakhnaula - Panchgaon - Dharuhera - BTK - Rewari - Bawal - Alwal
	Pataudi - Dharuhera - BTK - Tijara	Pataudi - Dharuhera - BTK - Tijara	BTK - Tijara (Future)
Engineering Constraints	 NDLS station modernization envisages 3 level underground facilities. Existing & Planned Metro lines have already occupied possible UG /elevated alignment on major roads 	Minimal constraints	Minimal constraints
	•Other roads available are Narrow & Congested		

Proposed Route – Stations & Distances

From	То	Approximate Distance (Kms)	Approx. Cumulative Distance (Kms)
New Delhi	Nizamuddin	7.50	7.50
Nizamuddin	INA	5.30	12.80
INA	Dhaula Kuan	4.10	16.90
Dhaula Kuan	Mahipalpur	7.20	24.10
Mahipalpur	Cyber City	7.00	31.10
Cyber City	Rajiv Chowk	7.60	38.70
Rajiv Chowk	Manesar / Lakhnaula	7.50	46.20
Manesar / Lakhnaula	Panchgaon	12.70	58.90
Panchgaon	Dharuhera	14.80	73.70
Dharuhera	ВТК	6.00	79.70
ВТК	Rewari	21.10	100.80
Rewari	Bawal	9.20	110.00
Bawal	SNB	11.90	121.90
SNB	Khairtal	28.50	150.40
Khairtal	Alwar	24.40	174.80

Proposed Station Locations on the Alignment



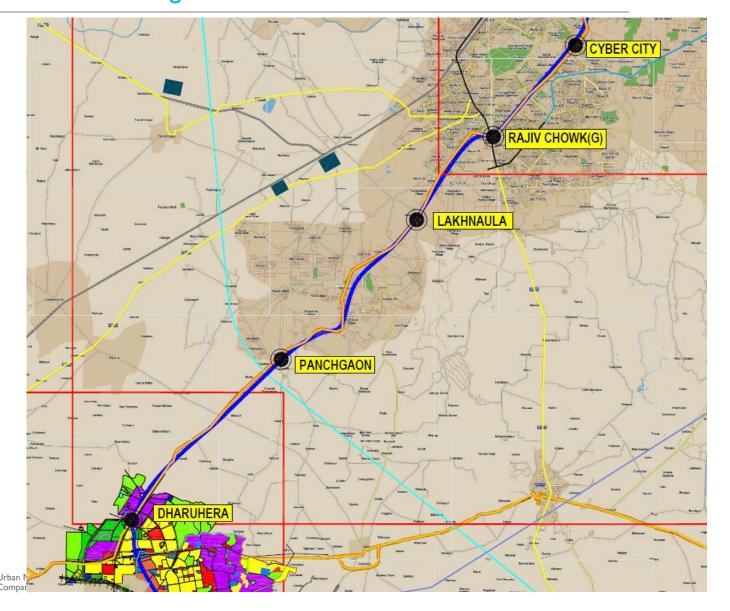
Proposed RRTS Station Locations

Considerations

- Integration with Master Plan Land uses
- RRTS Stations have been proposed near proposed
 Transport Land use
- Availability of Space



Four RRTS Stations in Gurgaon-Manesar Urban Complex Location on the Alignment

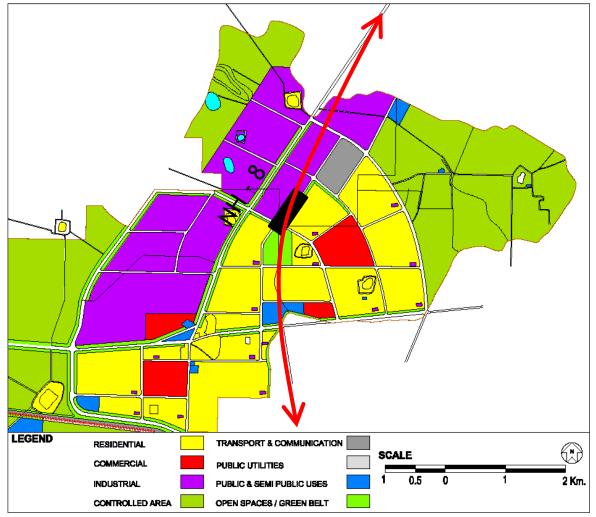


Dharuhera RRTS Station – Elevated Google Satellite Image Location





Dharuhera RRTS Station – Elevated Location in Master Plan of Dharuhera - 2021

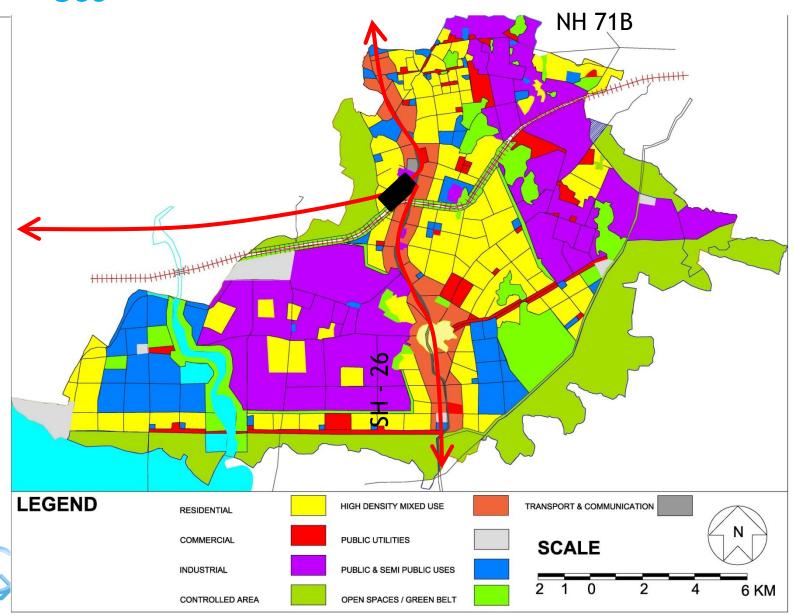




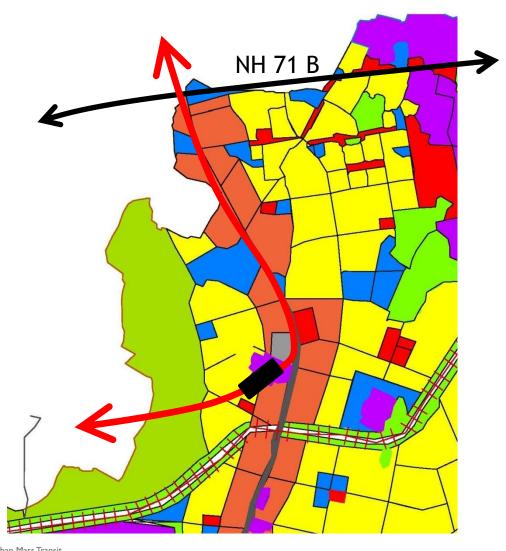
BTK RRTS Station – Elevated Location – Google Satellite Image



BTK RRTS Station – Proposed Transportation Land Use



BTK RRTS Station – Elevated at Transportation Land Use proposed for ISBT





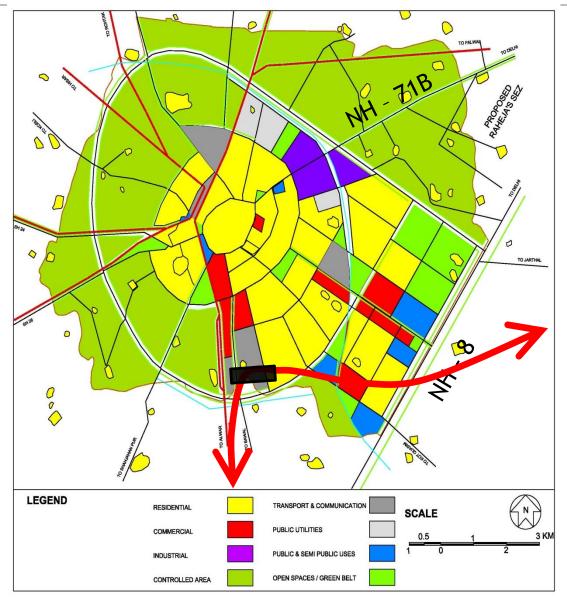
NH 71 B



SH - 26 and BTK

Rewari RRTS Station – Elevated

At the proposed Transportation Use – (Master Plan 2021)





Road abutting Rewari Railway Station



Rewari Railway Station

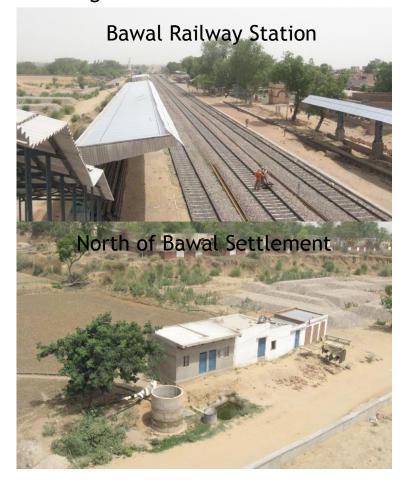
Rewari RRTS Station – Elevated Location - South of Ring Road and Railway Intersection



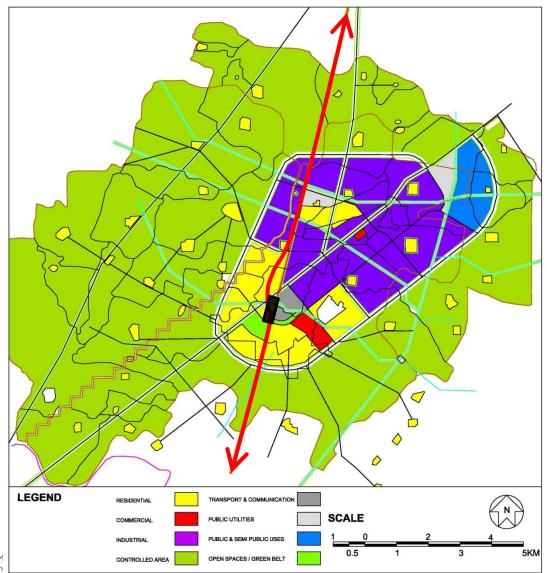
Bawal RRTS Station – Elevated South of NH-8, West of Proposed Logistics Hub



Greenfield Development - potential for TOD Development - Integrated with Logistic Hub With DFC

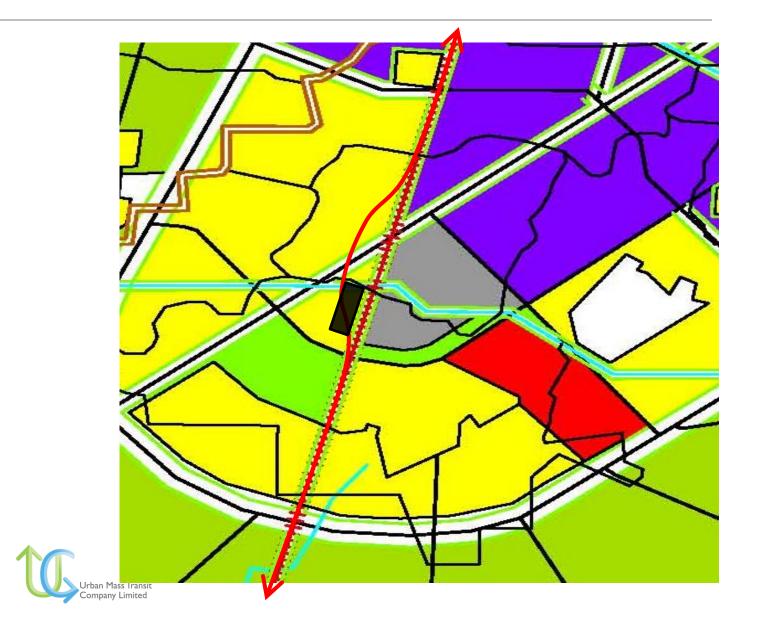


Bawal RRTS Station – Elevated Master Plan of Bawal - 2021

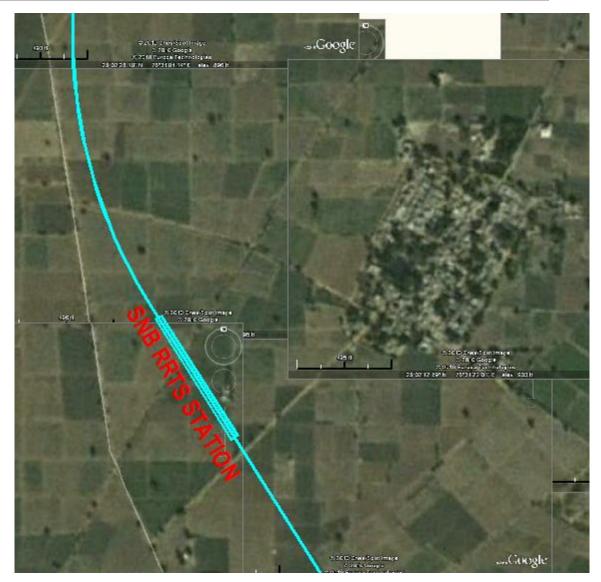




Bawal RRTS Station – Elevated Master Plan of Bawal - 2021

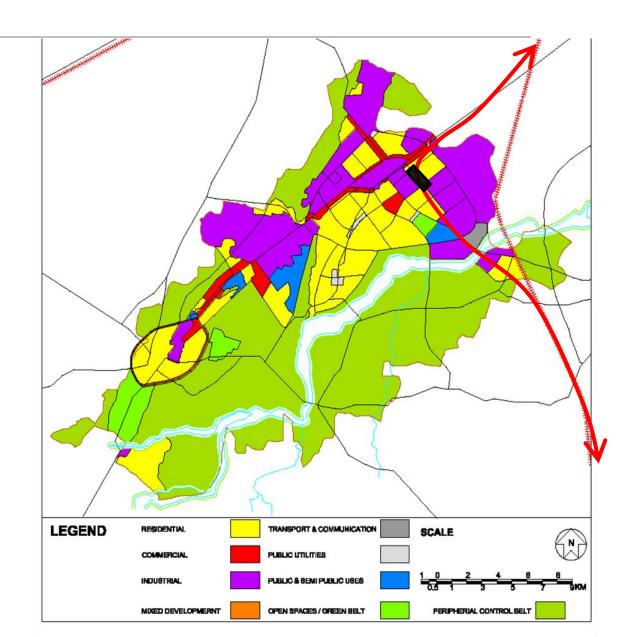


SNB RRTS Station – Elevated At Transportation Land Use



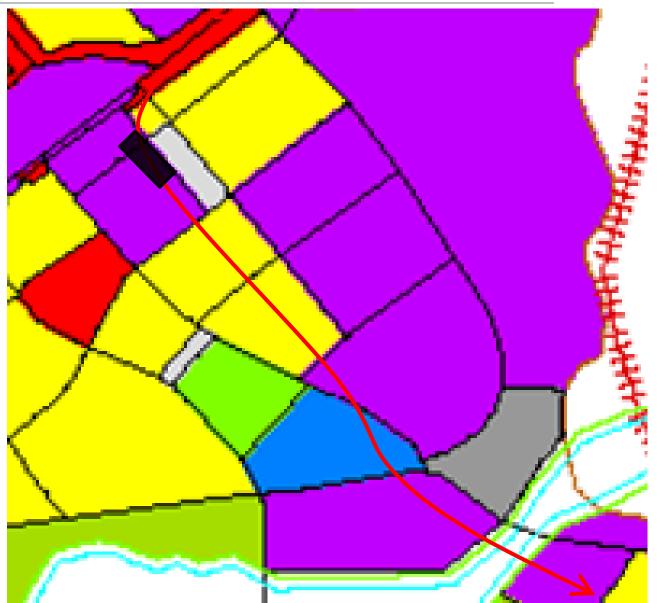


SNB RRTS Station – Elevated



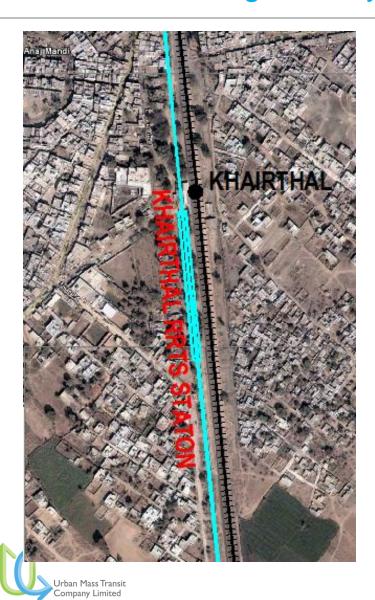


SNB RRTS Station – Elevated At Transportation Land Use





Khairthal RRTS Station – Elevated South of Existing Railway Station



Greenfield Development, Potential for TOD Development

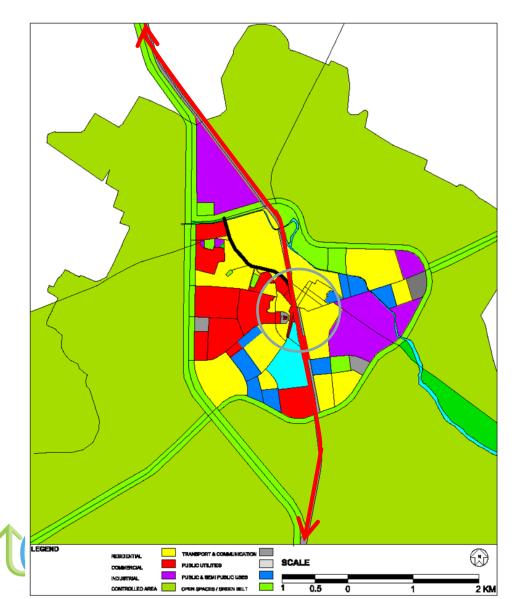


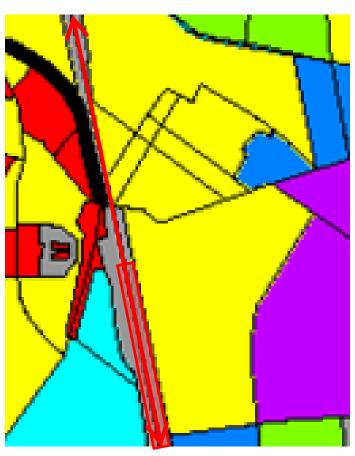
Khairthal Station



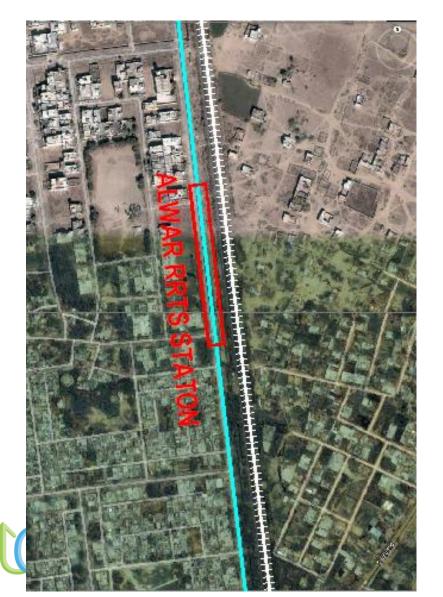
Khairthal Settlement

Khairthal RRTS Station – Elevated South of Existing Railway Station – Master Plan Khairthal 2021





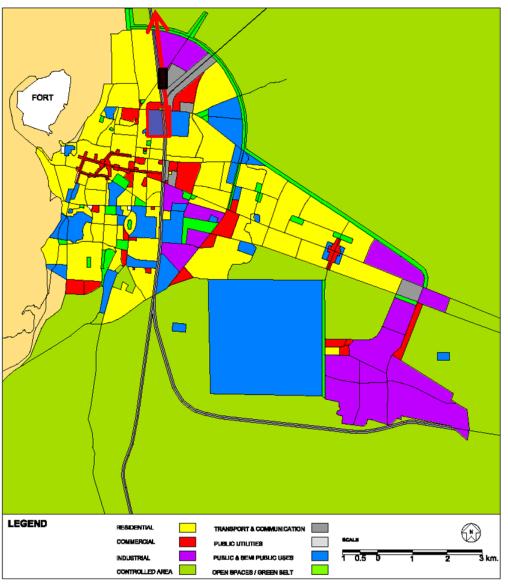
Alwar RRTS Station/ Terminal – Elevated/At Grade





Existing Alwar Station has no space for future expansion

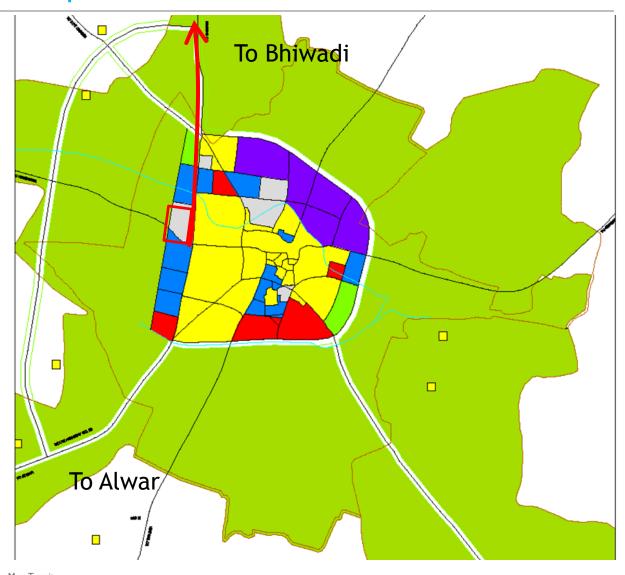
Alwar RRTS Station – Elevated/At Grade Location of Station and Depot in Master Plan of Alwar - 2021



Vacant Land Available -Currently under Public - Semipublic Use



Tijara RRTS Station – Elevated/At Grade – On Spur Line at Transportation Land Use



THANK YOU

