



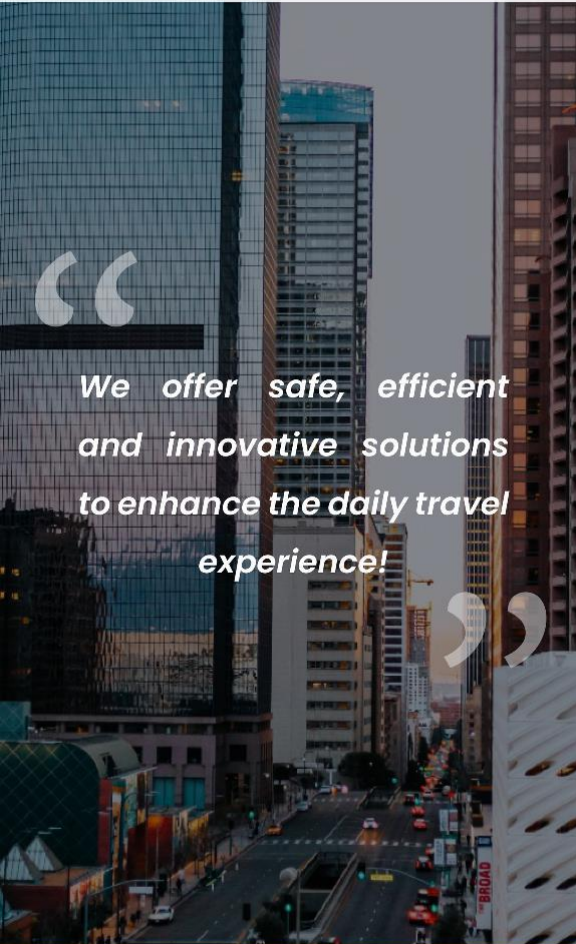
Simplicity and common sense characterize our planning and strategic direction



1.1



ABOUT US - UTMS



*We offer safe, efficient
and innovative solutions
to enhance the daily travel
experience!*

BRIEF

Established in 2018, UNITRANS has its **HEAD OFFICE located in Delhi** and a branch office in **Chandigarh** as well.

UNITRANS provides a comprehensive range of professional services across the entire spectrum of traffic and transport consulting, transport modeling (microsimulation and demand modeling), urban planning and designing, Parking Management & Parking Guidance system, master planning, and landscaping.

Specialized in transportation planning, traffic engineering and operations, highways and corridor studies, traffic engineering design, traffic safety, multimodal integration, and town planning.

Our AIM

Our aim is to provide clients with an integrated service specifically tailored for the individual needs of each project. **UNITRANS** aims to provide a comprehensive range of professional service to major development companies, professional organizations, and Government agencies throughout India and elsewhere.

Team

The core staff at UNITRANS has worked in various countries, including the Middle East, Africa, Australia, and New Zealand, among others. They also possess previous experience working with both Central and State Governments in India, as well as with multinational company's (MNCs).

Goals & Vision

To help our clients to achieve their business objectives by providing innovative, best-in-class consulting, traffic modelling, sales support solutions, Parking Management solutions and transport planning services.





OUR TEAM



SHARAD MOHINDRU

Co-founder | Director

B.Arch., Master's in Transport Planning
PTV Certified Trainer, 19+ years experience



MANRAJ SINGH BAINS

Co-founder | Director

M.Sc Transport planning and Engineering, BE (hons) Civil,
PTV Certified Trainer,
14+ Year experience



SIRISHA SANAGAPALLI

Associate Director Public Transport Expert &
Modeler

B. Plan., Master's in Transport Planning, 14+ years
experience

OUR TEAM



MOHD FAIZAN

Architect Planner.
B.Arch., M. Arch (Ekistics),
6+ years experience



DHARAMVIR

Architect Planner,
B.Arch., Master's in Transport
Planning, 2+ Years experience



NANDINI JAIN

Transport Planner
Master's in Transport Planning
2+ years experience



MANJEET DUBEY

Transport Planner
Master's in Transport Planning
1+ years experience



SAGARIKA

Transport Planner
Master's in Transport Planning
1+ years experience



SONIKA

Transport Planner
Master's in Transport Planning
5+ years experience

OUR TEAM



SUNNY S.

Associate Consultant
(Financial Expert)
17+ years experience



ANINDYA GHOSH

Associate consultant
(Urban Designer & M. Plan)
B.Arch., Master in Urban
Design, 18+ years experience

Key Highlights

More than

60

Satisfied National
and International
Clients

IndustryOutlook
TRAFFIC & TRANSPORTATION
ENGINEERING SERVICES



IS PROUD TO PRESENT
**UNITRANS MOBILITY
SOLUTIONS**
AS ONE OF THE
TOP 10
**TRAFFIC & TRANSPORTATION
ENGINEERING SERVICES**
2022

*in acknowledgement of its unwavering focus and dedication
to achieve excellence in quality and delivery in this field.*

presented by

Industry Outlook

Industry Outlook

140+

Completed Traffic
Impact Assessment
Studies

20+

Projects with
regional Travel
Demand
Modelling

70+

Studies with detailed
traffic and pedestrian
micro simulation
modelling



1st Prize in Smart City
competition from Honourable
Prime Minister of India



1.2

CLIENTS

Key Clients



Key Clients

ATKINS



bharti



दिल्ली मेट्रो रेल कॉर्पोरेशन लिमिटेड
Delhi Metro Rail Corporation Limited



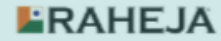
National Highway
Authority of India



Cadila
Healthcare Limited



Key Clients



NIRANKARI MISSION



Asian Development Bank



DARASHAW

Gulshan
HOMZ



Hines

Key Clients

BDP.



AIR INDIA



WORLD
RESOURCES
INSTITUTE



elevate[®]
homes

EMAAR





1.3



FLAGSHIP PROJECTS

BROAD SCOPE OF THE PROJECT

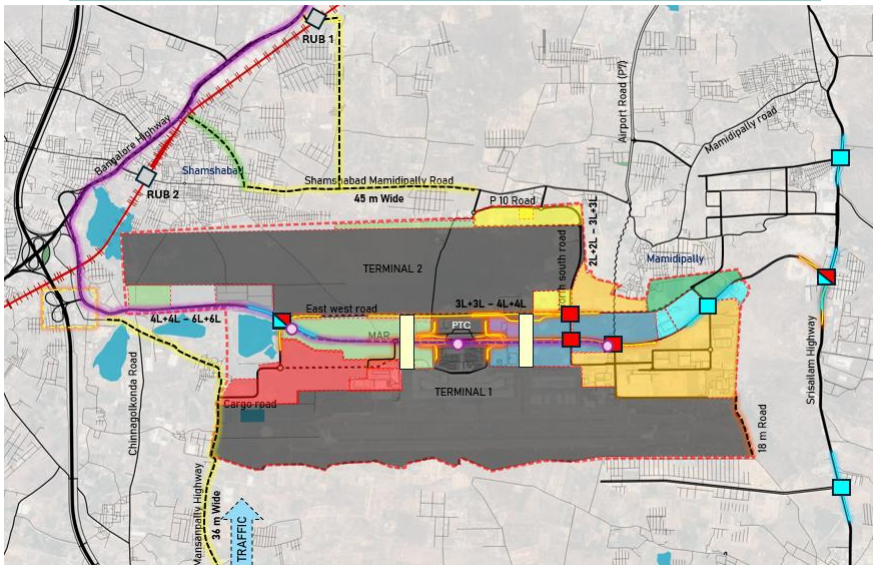
Project Description -

**T2
Operation
s in 2031**

With the envision of **Terminal 2 Construction and operations in Hyderabad Airport**, the project aims to prepare a comprehensive transport connectivity plan focusing on demand estimation, and simulation modelling for Road various development related proposal and phasing anticipated through 2047 Passenger handling.

KEY TASKS -

- Providing inputs to project architects, master planner on the integration of architectural elements and transport infrastructure.
- Demand Estimation for **Airport Passengers, Employees, Cargo and Land Development parcels** for different land uses including, offices, retail, mixed use, SEZ, Industrial, educational and health care facilities.
- Traffic management plan and simulation model - **Macro simulation modelling for phasing** and **Micro simulation modelling for geometric improvements**, traffic flow expected - Resultant Level of Service
- **Recommendations phasing of proposals** after considering demand estimation till 2047. Detailed drawings for proposed road connectivity proposals.



Transport Connectivity Master Plan - Hyderabad Airport

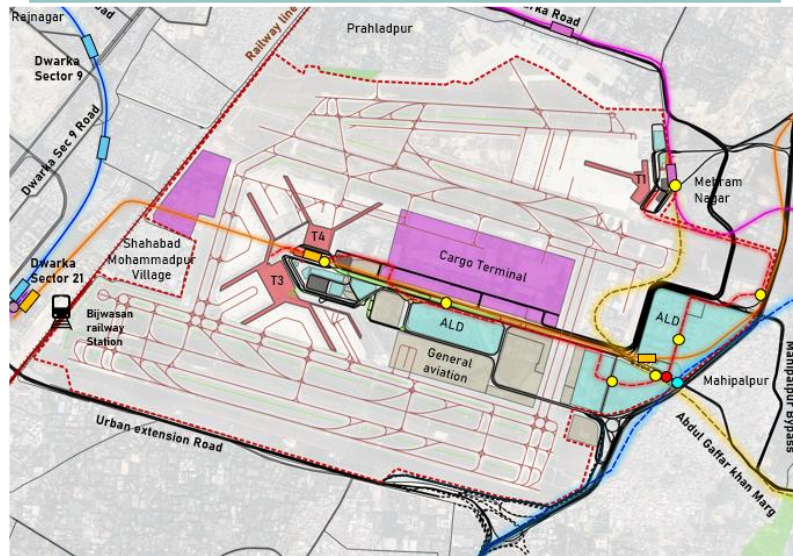
CLIENT -



PROJECT STATUS -

ONGOING





Transport Connectivity Master Plan - Delhi Airport, T1, T2 & T3

CLIENT -



PROJECT STATUS -

ONGOING

BROAD SCOPE OF THE PROJECT

Project Description -

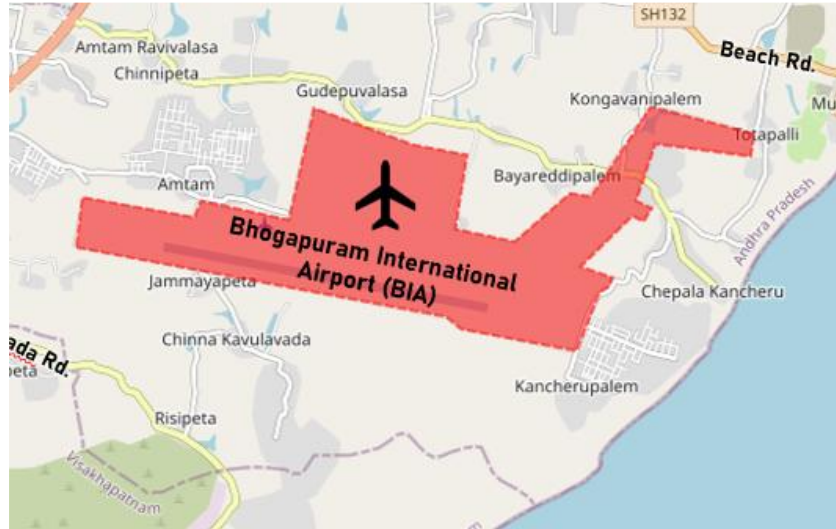
T4 New construction

Although the Saturation phase of Delhi Airport has been arriving yet, with the **demolition of Terminal 2 and new construction of terminal 4** along with ALD phasing, the project aims to prepare a comprehensive transport connectivity plan focusing on demand estimation, and simulation modelling for overall transport accessibility to Airport within Delhi and Gurugram's context.

KEY TASKS -

- Demand Estimation for **Airport Passengers, Employees, Cargo and Land Development parcels** for different land uses including, offices, retail, mixed use, educational and health care facilities.
- Traffic management plan and simulation model - **Macro simulation modelling for phasing** and **Micro simulation modelling for geometric improvements**, traffic flow expected - Resultant Level of Service
- **Recommendations phasing of proposals** after considering demand estimation till 2043. Detailed drawings for proposed road connectivity proposals.





Transport Connectivity Master Plan - Bhogapuram

CLIENT -



PROJECT STATUS -

ONGOING

BROAD SCOPE OF THE PROJECT

Project Description -

**New
construction**

With the upcoming development of Airport in Bhogapuram, Visakhapatnam along with aero city land development, the project aims to prepare a comprehensive transport connectivity plan focusing on demand estimation, and simulation modelling and road infrastructure recommendations along with phasing.

KEY TASKS -

- Demand Estimation for **Airport Passengers, Employees, Cargo and Land Development parcels** for different land uses including, residential, offices, retail, mixed use, industrial, educational and health care facilities.
- Traffic management plan and simulation model – **Macro simulation modelling for phasing** and **Micro simulation modelling for geometric improvements**, traffic flow expected – Resultant Level of Service
- **Recommendations phasing of proposals** after considering demand estimation till 2058. Detailed drawings for proposed road connectivity proposals.





BROAD SCOPE OF THE PROJECT

DESCRIPTION-

Passenger flow planning, passenger boarding/alighting planning, etc. to validate the station proposal using micro simulation and suggest suitable mitigation measures to improve the level of service for the passengers to project architects.

TASKS-

1. **Validation of Platform sizing**, Foot Over Bridge (FOBs), escalators, staircases, lifts during peak hour
2. Preparation of **dispersion plan** at platforms for faster evacuation of passengers
3. Optimization of **number of entry/exits** for ensuring smooth inflow/ outflow of passengers with effective access control
4. Evaluation of key performance indicators for the **level of service/occupancy** for various elements of the station



Total Local Train Stations - **17**



Micro-Simulation Study Mumbai Local Train Stations

CLIENT -



PROJECT STATUS -

COMPLETED





Redevelopment study of Anand Vihar and Sarai Kale khan ISBT, Delhi

CLIENT -



PROJECT STATUS -

ONGOING

BROAD SCOPE OF THE PROJECT

DESCRIPTION-

Anand Vihar and Sarai Kale khan ISBT are the two primary directional ISBT's of Delhi, Redevelopment project of these ISBT was designed to anticipate forecasted Traffic volume and pedestrians, followed by designing of no. of bays and other infrastructure requirement with overall transport connectivity.

TASKS-

1. Detailed **primary surveys and base year analysis**, Identification of issues and problems
2. **Demand Estimation for ISBT bays** for both interstate and intrastate buses, pick up drop off facilities
3. Requirement of **parking facilities** for the year 2033,2043 and 2053.
4. **Traffic management plan** and **Micro simulation modelling**, Resultant Level of Service,
5. Recommendations for improvement of transport infrastructure, Circulation plan for different modes of vehicles



Development Of Sardar Vallabhbhai Patel Sports Enclave Golympics - Ahmedabad



CLIENT -

BDP.

PROJECT STATUS -

ONGOING



BROAD SCOPE OF THE PROJECT

DESCRIPTION-

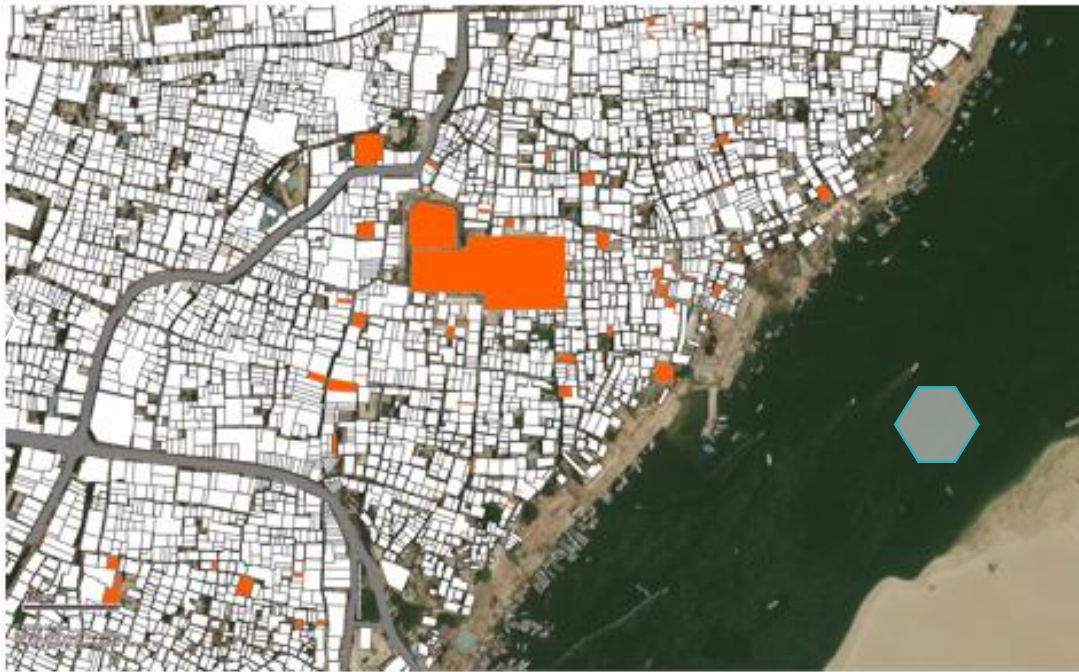
Development of Sardar Vallabhai Patel Sports Enclave for the upcoming Olympics event in 2036 located in Ahmedabad, provisioning of the Transportation management to meet on traffic assessment, Accessibility Analysis, parking strategy, for all stages on Tennis Stadium, Aquatics center, Basketball Arena, and the overall Master Plan.

TASKS-

1. Providing inputs to project architects, master planner on the integration of architectural elements and transport infrastructure.
2. Demand Estimation for **Pedestrian and vehicular screening areas** for different gates in Olympic area for different sessions of sport venues.
3. Traffic management plan and **simulation model Crowd modelling**, evaluating queuing patterns and designated queuing areas
4. Detailed **Parking Plan** and identification of areas for MLCP, surface parking, basement **parking Circulation and Bays estimation**



Pedestrian Crowd Modelling Varanasi Ghats



CLIENT -



WORLD
RESOURCES
INSTITUTE

PROJECT STATUS -

ONGOING



BROAD SCOPE OF THE PROJECT

DESCRIPTION-

A prominent attraction in Varanasi, faces significant traffic and road-related issues due to its popularity and historical significance includes Traffic Congestion, Limited ROW and narrow lanes and dense built fabric lead to frequent overcrowding bottlenecks. The Project aims to collaborate mitigation measures for overcrowding near Temple complex and ghats.

TASKS-

1. Detailed **primary surveys and base year analysis**, Identification of issues and problems within the site context and at city level
2. **Demand Estimation for Pedestrians** for both normal gathering and for Event specific gathering.
3. **Traffic management plan** and **Micro simulation modelling**, Assessment of Crowd Queuing behavior
4. Provision of **Mitigation measures** for Intense crowd gathering in the main Ghats and near temple complex.



Parking Management Plan IKEA STORES



Locations -

Navi Mumbai
Hyderabad
Bangalore

Noida
Gurugram



CLIENT -



PROJECT STATUS -

ONGOING

BROAD SCOPE OF THE PROJECT

TASKS-

1. Coordinating with project architects and master planners to ensure seamless integration of architectural design and **transport infrastructure**.
2. **Traffic management plan**, Traffic circulation within overall site and basements, **Parking guidance plan**, Parking plan. Detailed zoning as per users.
3. The study also included the **preparation of signage plan, GFC drawings** and preparation of block costing estimations.





Parking Management Plan IKEA STORES

Locations -

Navi Mumbai
Hyderabad
Bangalore

Noida
Gurugram



CLIENT -



PROJECT STATUS -

COMPLETED





Parking Management Plan
Parking guidance system
AMEX Campus, Gurugram

CLIENT -



PROJECT STATUS -

COMPLETED

BROAD SCOPE OF THE PROJECT

TASKS-

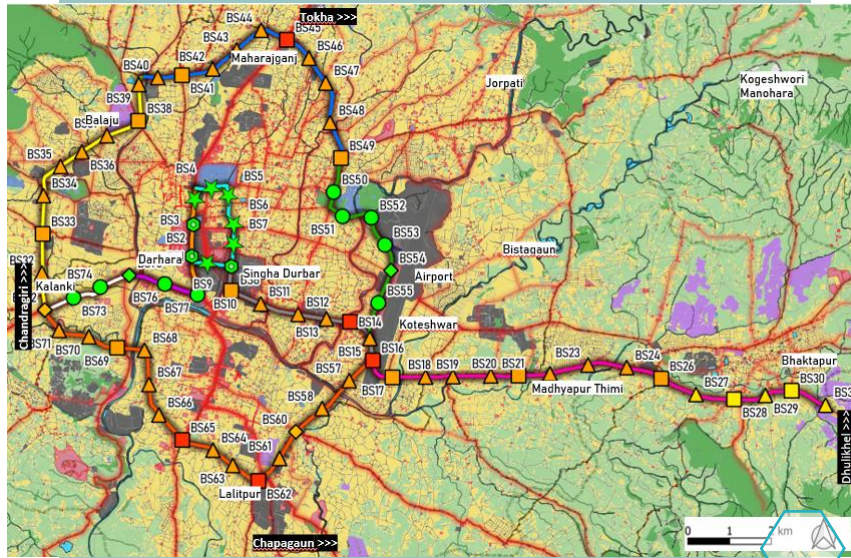
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2. **Traffic management plan**, Traffic circulation within overall site and basements, **Parking guidance plan**, Parking plan. Detailed zoning as per users.
3. The study also included the **preparation of signage plan, GFC drawings** and preparation of block costing estimations.



BROAD SCOPE OF THE PROJECT

TASKS-

1. Data analysis and **primary survey of public transport** of Kathmandu Valley. Bus reforms and Mass transit solution.
2. **Travel demand modelling**, Selection of **High demand Corridors**, PHPDT Evaluation.
3. **Route rationalization**, Fleet management, depot and infrastructure planning Public outreach plan
4. **Financial and Business Model** for different contractual agreements of different bus contracting models.
5. **Pre-feasibility Conceptual design plan for BRT corridor**, alignment plans of detailed drawings on BRT Infrastructure Development for various hierarchical road network



Public Transport Reforms & Mass Transit Corridor Kathmandu, Nepal

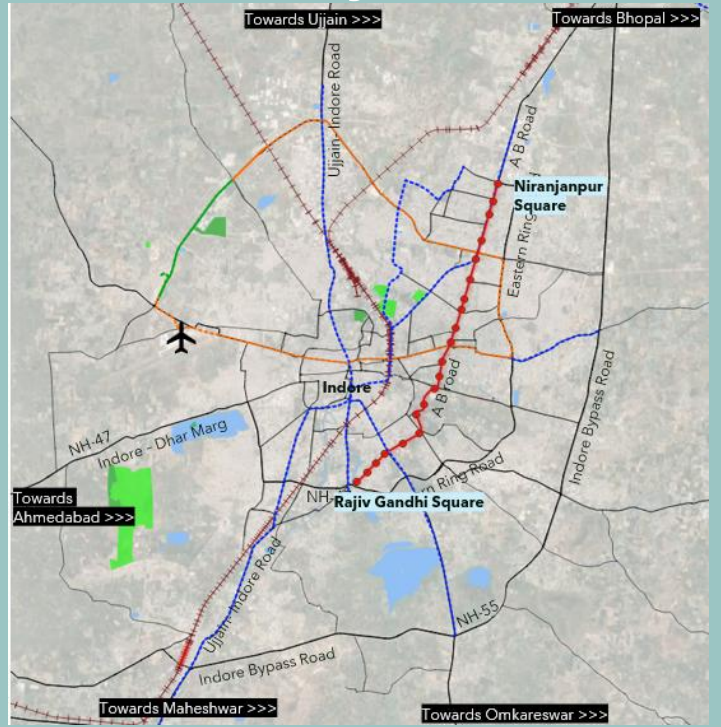
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PROJECT STATUS -

ONGOING

Critical Evaluation Indore BRT System



CLIENT -



PROJECT STATUS -

ONGOING



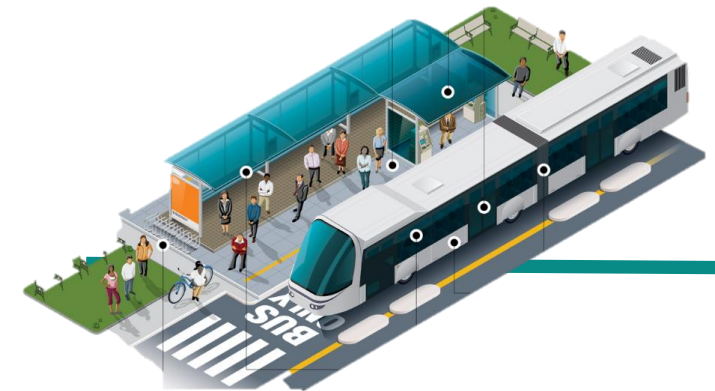
BROAD SCOPE OF THE PROJECT

DESCRIPTION-

Critical evaluation of BRT system to access the existing issues and bottlenecks and evaluating different scenarios including enhancement of BRT system and removal of BRT corridor and its impact on the traffic along the corridor.

TASKS-

1. **Primary surveys** (Traffic surveys, Speed and delay, Passenger opinion survey) and analysis to identify the existing issues.
2. **Modal shift assessment** through SP and **user perception** for BRT and non-BRT users.
3. Scenarios development and evaluations to suggest most suitable recommendations.
4. Detailed **microsimulation modelling** for all Scenarios.





Redevelopment Plan for New Delhi Railway Station

CLIENT -

TRACTEBEL
ENGIE

PROJECT STATUS -

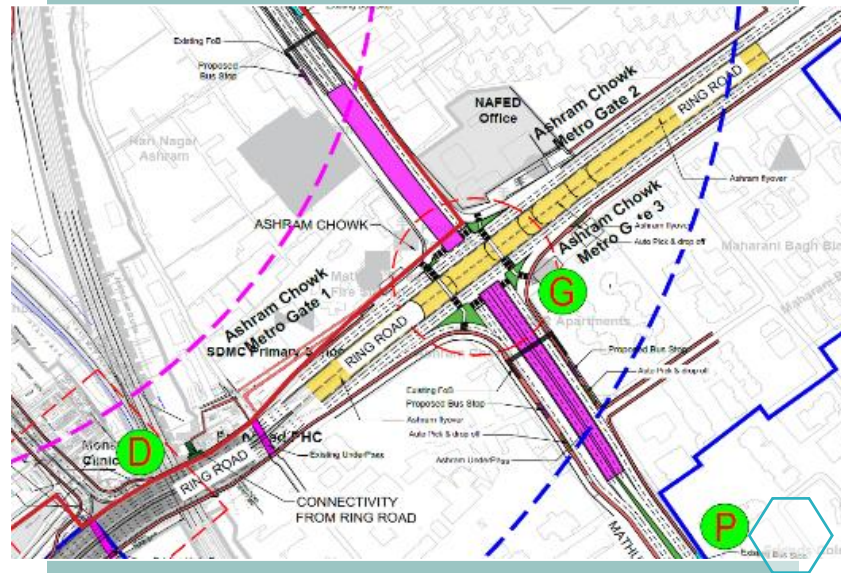
COMPLETED

BROAD SCOPE OF THE PROJECT

TASKS-

1. **Traffic management plan** and **simulation model** - Motorized and Non-Motorized Traffic Circulation Plan
2. Impact of **redevelopment / TOD development** and traffic flow expected - Resultant Level of Service
3. **Parking Plan and identification of areas for MLCP, surface parking, basement parking**
4. Recommendations for improvement of transport infrastructure
5. Final IZP report including approval from a **High-Powered Committee** identified as per TOD regulations.





COMPLETED

BROAD SCOPE OF THE PROJECT

DESCRIPTION-

Charter One, a US based education management organization, is designing a premium K-12 IB residential school campus in the Institutional Sector 22E along the Yamuna Expressway in Noida. The project involves developing a sustainable traffic management plan that ensures smooth and safe vehicular, pedestrian, and cyclist movement on the campus while minimizing congestion and safety hazards.

TASKS-

1. Detailed **Reconnaissance survey** , Identification of major network, existing road connectivity within the site context and at city level, existing infrastructure assessment.
2. **Demand Estimation for School considering Daily scenario and event day scenario** for students, staff , visitors and teachers.
3. **Traffic management plan** and **Micro simulation modelling**, Assessment of Vehicular Circulation, Bottlenecks and expected speeds near School entrance.
4. Provision of **Mitigation measures** for event days scenario in the immediate access road considering safety measures for achieving optimum efficiency.



Traffic Design Consultancy Charter One School, Greater Noida

CLIENT -

MOSER ASSOCIATES

PROJECT STATUS -

ONGOING

Hospital Projects

1. MAX Shalimar Bagh Delhi
2. MAX Saket Delhi
3. AIIMS Delhi
4. Fortis Shalimar Bagh Delhi
5. Fortis Gurgaon
6. MAX Gurgaon
7. BLK Karol Bagh Delhi
8. Holy Family Delhi
9. AIG Hospital, Aerocity Delhi

BROAD SCOPE OF THE PROJECTS

DESCRIPTION-

Hospital project includes traffic circulation (classified), parking management, parking zoning, decongestion plan, MOEF Traffic reports, pedestrian movement, Valet Operations.

TASKS-

1. Detailed **Reconnaissance survey** , Identification of major network, existing road connectivity within the site context and at city level, existing infrastructure assessment.
2. **Demand Estimation** of classified vehicle movement
3. **Traffic management plan** and **Micro simulation modelling**, Assessment of Vehicular Circulation, Bottlenecks including the integration of external internal traffic movement.
4. Traffic movement for the critical **OPD operation and IPD** operational scenarios.
5. Parking **zoning plan** for Valet, doctors, staff and patients
6. **Access gate** configurations, geometrics, **Parking management** plan including check points, pay points, and **traffic accessories plan** (traffic calming, road marking etc).

CLIENT -





Hotel Projects

1. Chalet Hotel, Aerocity Delhi
2. Apollo Hotel, Aerocity Delhi
3. Qutab Hotel Expansion, Delhi
4. Novotel, Central Delhi
5. Gulshan 129, Noida
6. Taj Hotel, Gurgaon

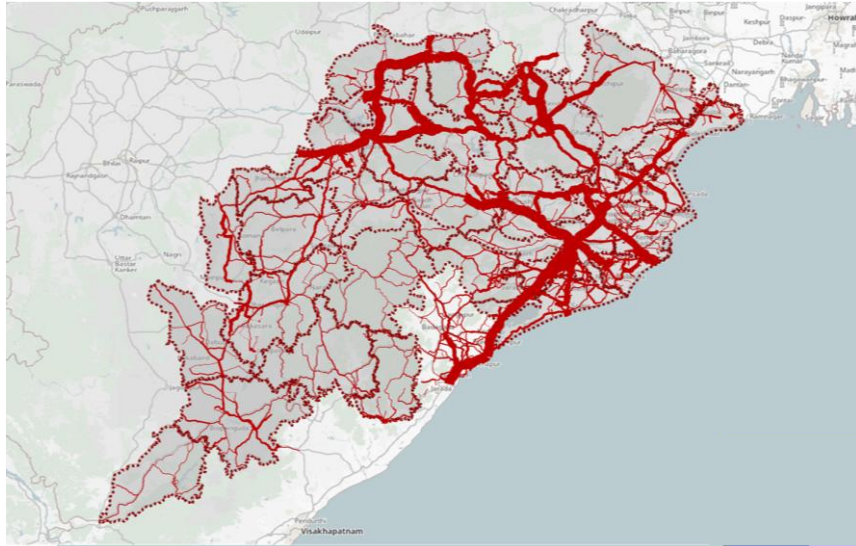
BROAD SCOPE OF THE PROJECTS

DESCRIPTION-

Hotel project includes Environment Clearance report, demand estimations (Legacy and event mode), Valet operations, service vehicle movement, parking optimization, parking zoning etc.

TASKS-

1. Detailed **Reconnaissance survey** , Identification of major network, existing road connectivity within the site context, existing infrastructure assessment.
2. **Demand Estimation** of classified vehicle movement
3. **Traffic management plan** and **Micro simulation modelling**, Assessment of Vehicular Circulation, Bottlenecks including the integration of external internal traffic movement.
4. Traffic movement for the critical **event day**.
5. Parking **zoning plan** for Valet, service vehicles.
1. **Access gate** configurations, geometrics, **Parking management** plan including check points, **ramp locations**, and **traffic accessories plan**.



Transport Connectivity Master Plan - Odisha

CLIENT -

KEARNEY

PROJECT STATUS -

COMPLETED

BROAD SCOPE OF THE PROJECT

Project Description -

Formulation of **Vision 2036** for **Highway's Network** in the State of Odisha

KEY TASKS -

- As-is assessment and Baselineing of National Highway, State Highway, MDR and ODR Network in Odisha.
- Assessment of **Demand - Supply Gap** in Highway and Roads transportation.
- Preparation of the **strategic demand model** for base year and horizon year for the state of Odisha.
- Identification and **prioritization of highway network** for development in line with Vision for Highways in Odisha.



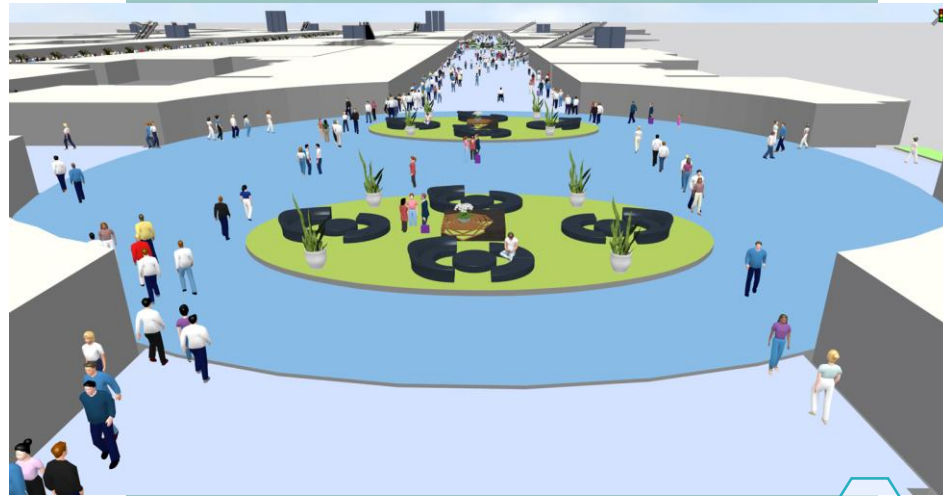
BROAD SCOPE OF THE PROJECT

DESCRIPTION-

Validation of the design through detailed analysis of footfall patterns, congestion levels, and level of service across key areas. The study includes the assessment of queue formations at elevators, entry and exit points, and other critical locations, followed by the recommendation of appropriate mitigation measures to enhance overall service levels and provide actionable inputs to the architectural team.

TASKS-

1. **Validation of Corridor sizing**, escalators, staircases, lifts during peak hour.
2. Simulation of **Evacuation Scenario** for testing the emergency exits and staircases in case of an incident.
3. Evaluation of key performance indicators for the **level of service/occupancy** for various elements of the station.
4. Suggesting suitable pedestrian management measures for smooth pedestrian flow inside the mall.



Micro-Simulation Study Crowd Modelling of Dubai Square Mall

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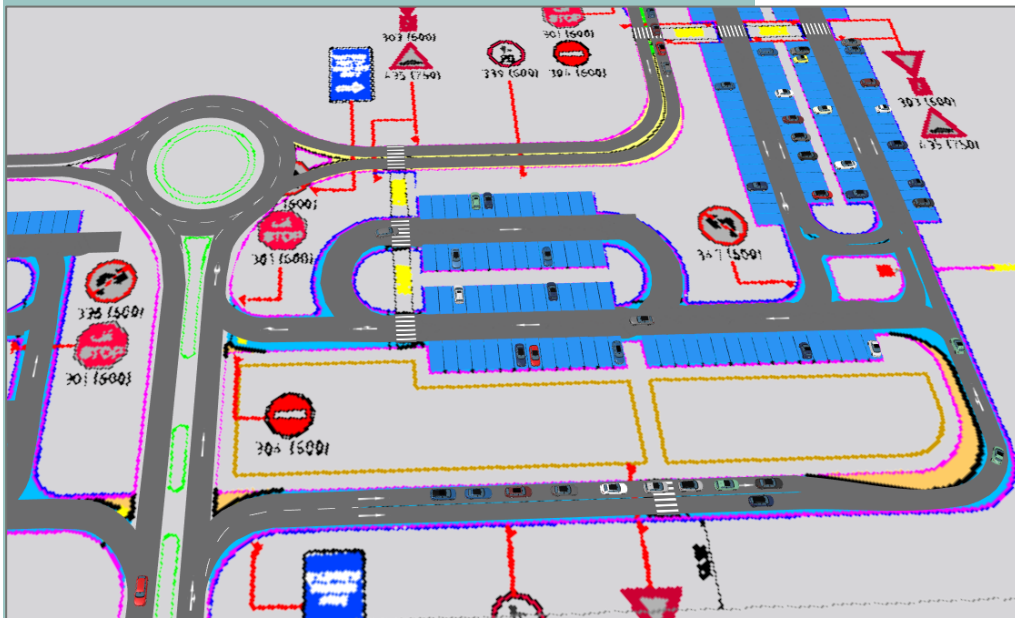


PROJECT STATUS -

COMPLETED



Parking Assessment Study HCT Sharjah Campuses



CLIENT -



PROJECT STATUS -

ONGOING



BROAD SCOPE OF THE PROJECT

DESCRIPTION-

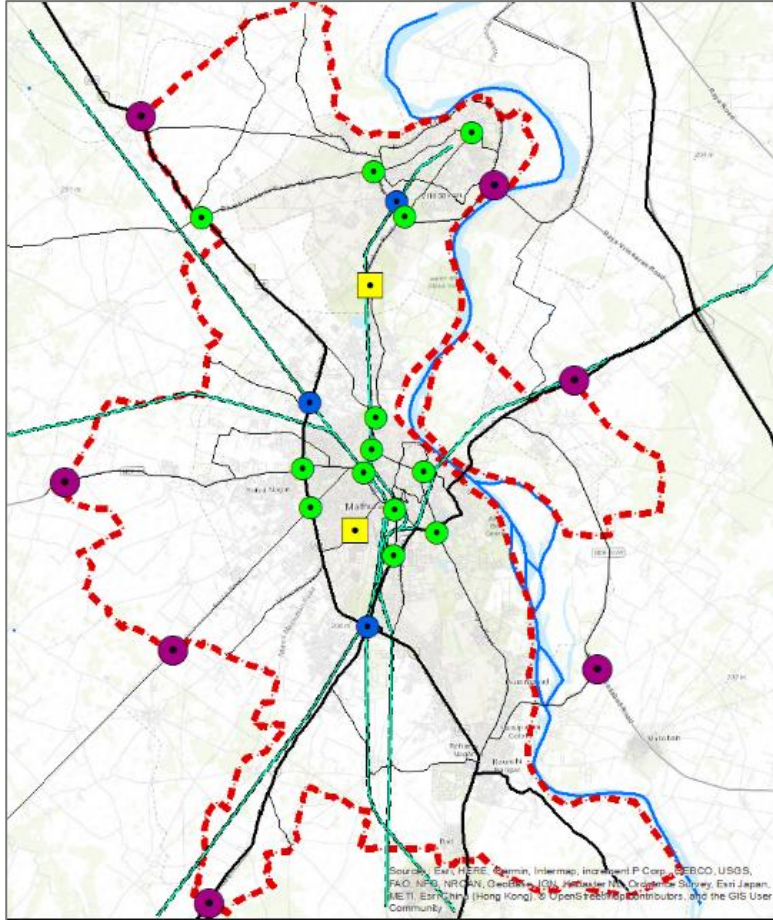
The study involves the micro simulation modelling of proposed parking at HCT Sharjah Campuses, which are SJA and SJB to access the impact of the proposed parking and further key interventions.

TASKS-

1. Validation of **the proposed parking spaces** in the campuses.
2. Vehicular **circulation assessment** and identification of key issues.
3. **Queuing assessment** at entry gate of each parking zone.
4. **Microsimulation modelling** to validate the road network circulation and parking spaces..



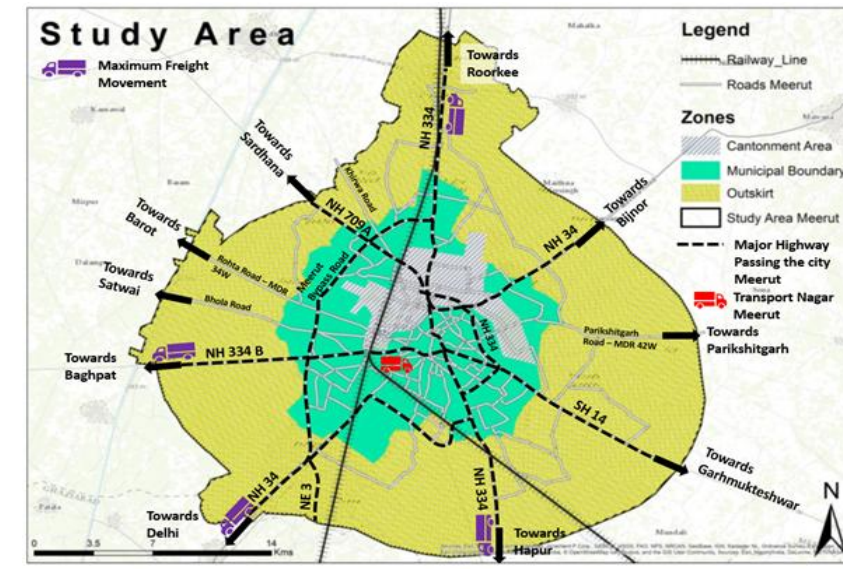
Project Showcasing



**Comprehensive Mobility Plan
Mathura Vrindavan**



**Comprehensive Mobility Plan
Indore**

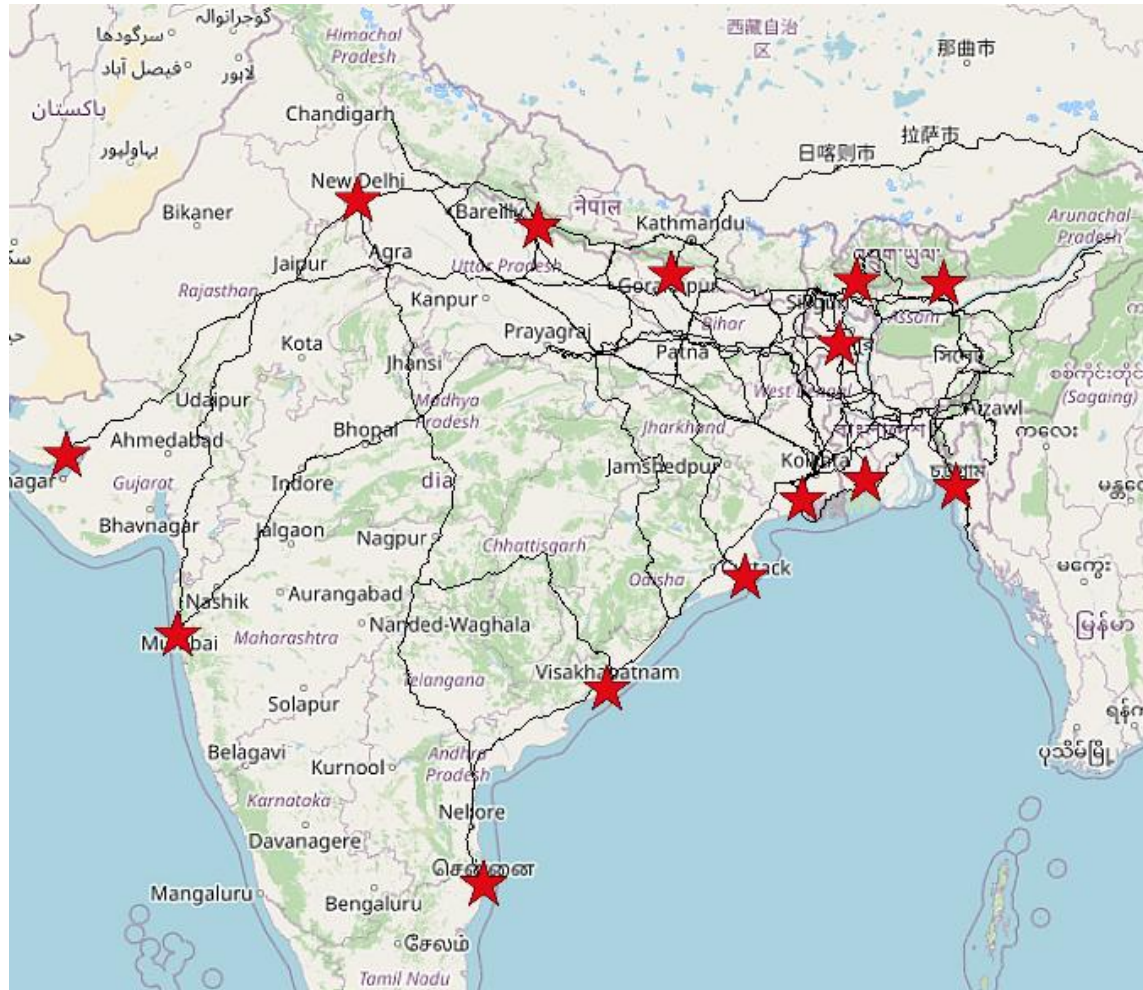


City Logistics Plan for Meerut

Regional Trade facilitation and transport sector review for the BBIN Countries (Bangladesh, Bhutan, India and Nepal)

Client: Ecorys, World Bank

Status : Completed



Main Features:

- The main objective of the assignment is to (i) prepare a detailed assessment of **multi-modal transport infrastructure**, trade-supporting infrastructure, and the policy, institutional, and regulatory environment in the four **BBIN-countries**, and (ii) identify and prioritize hard (physical) and soft (institutional) interventions to facilitate the implementation of an efficient and effective **multi-modal transport system** along priority **regional transport corridors**

PROJECTS



Traffic Study TARC ORANGE
Near IGIA, Delhi



Traffic Study Elevate homes
GT Karnal road, Delhi



Traffic Study Elevate edition
Gurugram

HOUSING

PROJECTS



Traffic Study

Max estate, 361 Gurugram
Max estate, 360 Gurugram
Max One, Delhi
Max estate, 105 Noida
Max estate, 128 Noida
Max estate, 129 Noida



Traffic Study

Various Commercial and Retail Sites
Aerocity, Delhi



Traffic Study

EMAAR, Mumbai Hills

HOUSING PROJECTS



Traffic Study Max Estates
Sector 65 Gurugram



Traffic Study Wilton MIU
Ludhiana



Traffic Study Pioneer Residences
Sector 62 Gurugram

Arise, Awake and Stop not until the goal is reached.
Swami Vivekanand

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