

PLANNING OF RAPID PUBLIC TRANSIT SYSTEM FOR ANDHRA PRADESH CAPITAL REGION

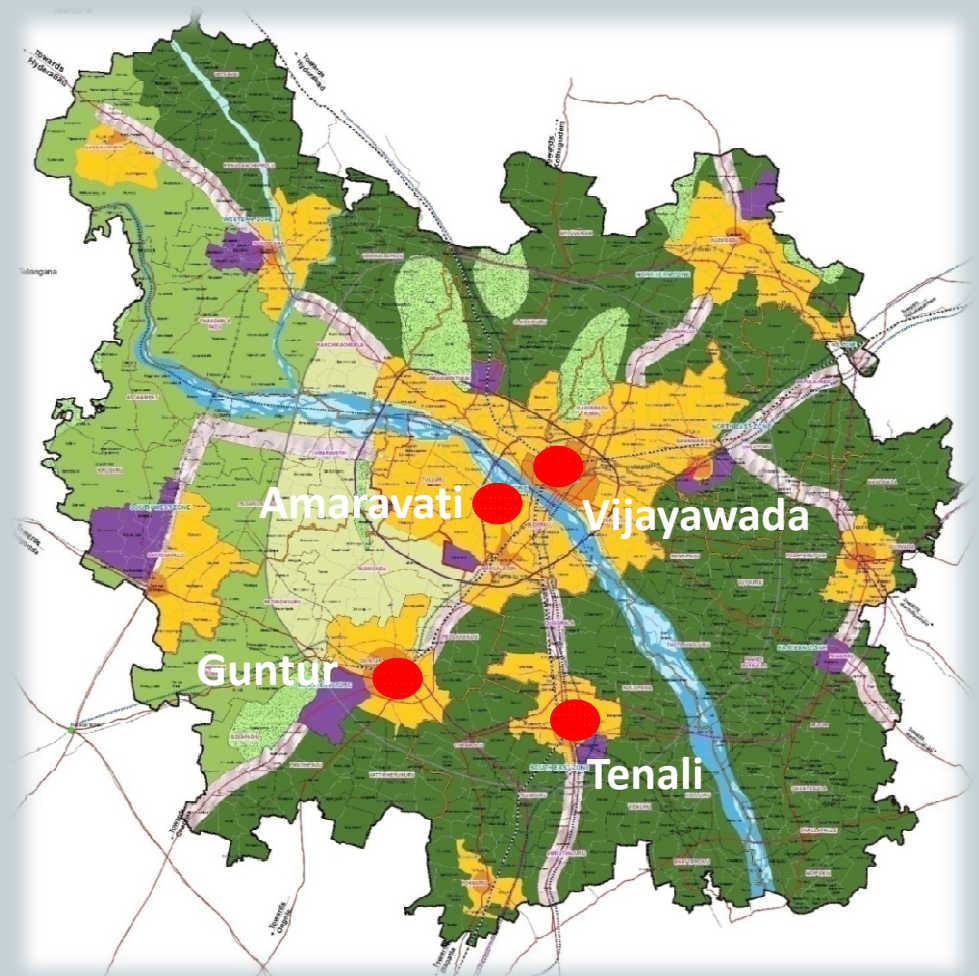
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Back Ground - APCR

- Andhra Pradesh Capital Region (APCR) comprises 951 villages, 12 towns with 5.8 MI population.
- GoAP envisaged development of world class people's Capital i.e., Amaravati (Area: 217 Sq.km) located between Vijayawada & Guntur.
- Jurisdiction: 8,603.32 Sq.km.
- Andhra Pradesh Capital Region Development Authority (APCRDA) was formed in 2014 for planning, execution, regulate the development within the region.



3.36 MI Jobs

11.25 MI Pop

5.65 MI Jobs

13.8 MI Pop

2035 2050

Methodology

- **STAGE – 1:**
 - Collection of data through various sources.
 - Review of existing infrastructure, plans through secondary surveys.
- **STAGE – 2:**
 - Assessing the Level of Services of the available infrastructures
 - Finding out the issues, problems
 - Assessing the future needs and development potentials
- **STAGE – 3:**
 - Concept Plan for developing public transport systems

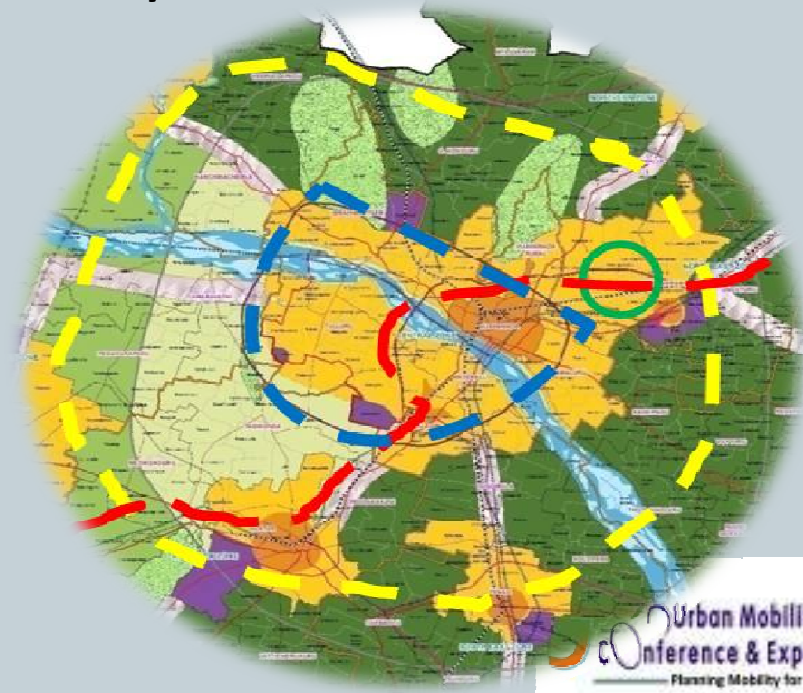
Transport Infrastructure

EXISTING:

- Well connected to surrounding economic hubs.
- Three (3) NH, Ten (10) SH, other major roads.
- Existing Gannavaram Airport is getting upgrading to International Airport .
- Daily more than 250 express and 150 freight trains pass through Vijayawada railway Jn.

PROPOSED:

- Vijayawada NH By-Pass
- Inner Ring Road, Outer Ring Road
- National Water Way - 4
- 2 Dedicated Freight Corridors
- High Speed Rail corridor
- Logistic parks
- East-Coast economic corridor
- New Airport is proposed at Mangalgi.



Study Area Profile

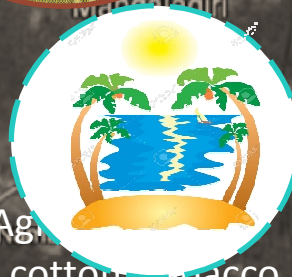


AMARAVATI

- Population : 3.5M
- Area: 217 Sq.km
- Capital city of AP

VIJAYAWADA

- Population : 1.1M
- Area: 110.44 Sq.km
- 3rd most densely populated built-up areas of world
- AP's Business Capital



- Population : 0.9M
- Area: 168.41 Sq.km
- Education, Business, Agriculture
- Exports chilli, pepper, cotton, tobacco
- Country's largest producer of chilies

GUNTUR

- Population : 0.2M
- Area: 16.63 Sq.km
- Andhra Paris for being centre of art, drama & culture



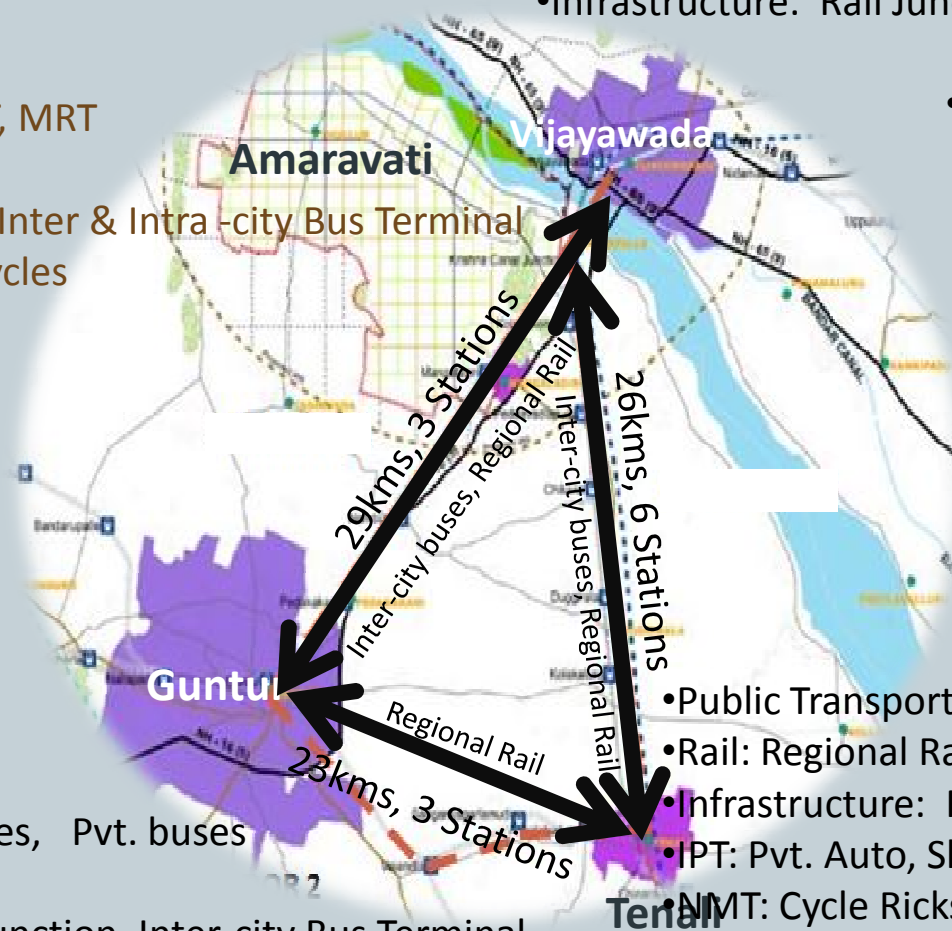
TENALI



Existing Infrastructure within Study Area

- Public Transport: BRT, MRT
- Rail: Regional Rail
- Infrastructure: Rail , Inter & Intra -city Bus Terminal
- NMT: e-Rickshaw , Cycles

- Public Transport: Buses, Metro (proposed)
- Rail: Regional Rail
- Infrastructure: Rail Junction, Inter-city Bus Terminal
- IPT: Pvt. Auto, Share Auto
- NMT: Cycle Rickshaw, Cycles



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Study Need

- **3 independent urban nodes**
- **Planned Green field Capital City**
- **Rapid Urbanization**
- **Higher Growth rate of Vehicle Population**
- **Lack of Inter City Connectivity**
- **Lack of physical infrastructure**

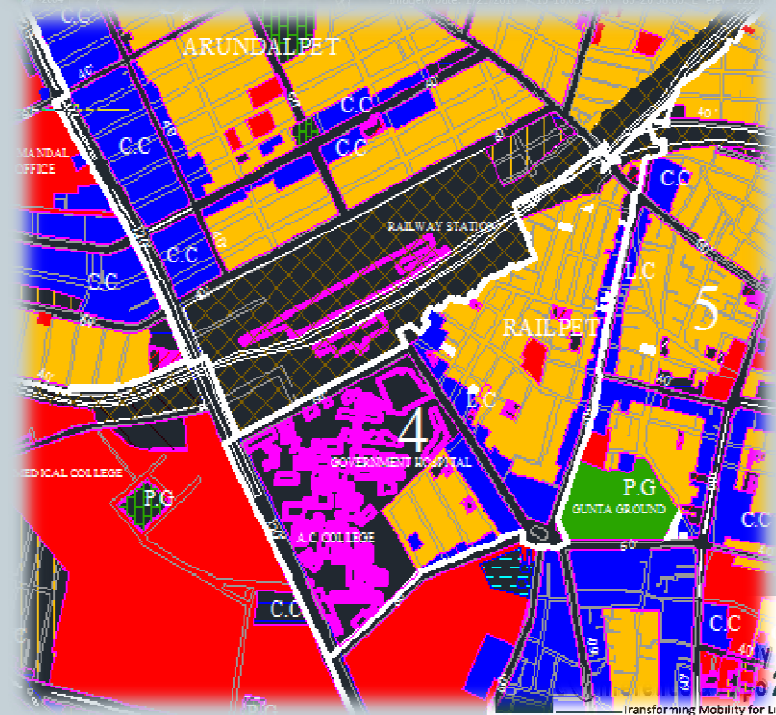
Vijayawada

- **Population** : 1034358
- **Municipal Corporation**
- 2nd largest city in the state of AP after Visakhapatnam
- One of the important commercial and transport centers of the state
- 2nd busiest railway junction of Indian Railways, next to Mumbai Central
- 400 trains of freight and serving about 1.40 lakh passengers everyday
- Major commercial hub for products like automobile spare parts, textiles and furniture.
- Gandhi hill on west as a physical barrier for any development further.



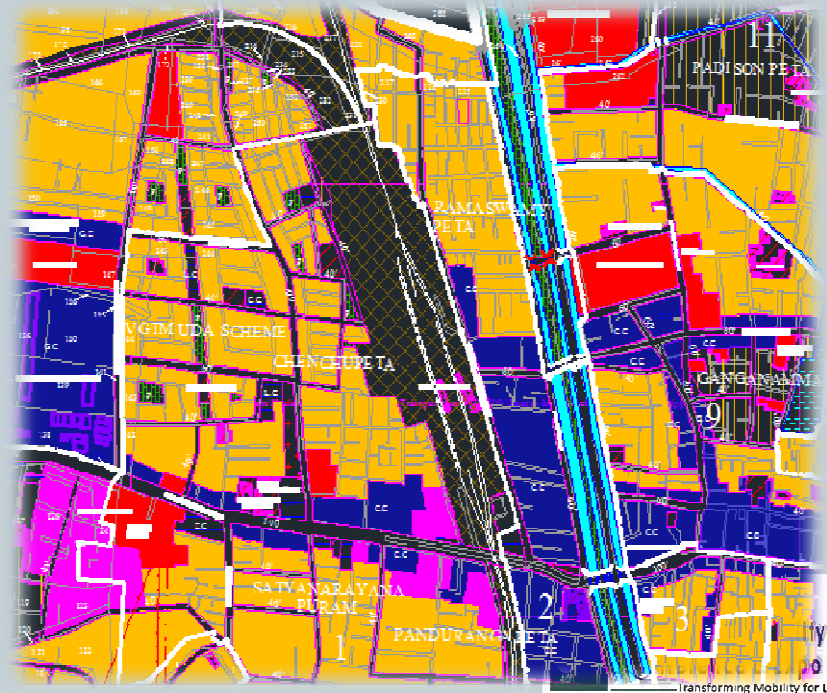
Guntur

- **Population:** 769954
- **Municipal Corporation**
- Located in a dry plateau fed by network of important roads
- Connected by both the broad gauge and meter gauge railways.
- Reputed to be a renowned education center.
- Headquarters for the All India Tobacco Board and Cotton Board
- **Industrial Estates /Industrial Development areas:**
- 1 Industrial Estate, 3 Autonagar



Tenali

- **Population** : 164937
- **Special Grade Municipality**
- Lies on the Howrah-Chennai main line
- Flourishing town of great historic importance
- Krishna main canal (Nizampatnam canal) along with two parallel irrigation canals passes through this town
- Existing agro-based industries (rice mills, flour mills, oil mills, saw mills, printing presses) and other service industries
- Rice mills are concentrated on either side of railway station, and on Guntur-Tenali road.
- Coffee, Turmeric Exports



Existing Rail Network

Corridor	Stations	Type of Stations
Vijayawada (Major Junction) – Tenali (Major Junction)	Krishna Canal (Tadepalli)	Rail Junction
	Kolanukonda	Minor Station
	Pedavadlapudi	Minor Station
	Chiluvuru	Minor Station
	Duggirala	Major Station
	Kolakaluru	Minor Station
Tenali (Major Junction) – Guntur (Major Junction)	Angalakuduru	Minor Station
	Sangam Jagarlamudi	Minor Station
	Vejandla	Minor Station
Guntur (Major Junction) – Vijayawada (Major Junction)	Pedakakani	Minor Station
	Numbur	Major Station
	Mangalagiri	Major Station

WAY FORWARD

- Assessment of existing Rail Connectivity in the Region
- Exploring the potentials of using the existing infrastructure for facilitating inter-city Commuter movements.
 - Rail Network, Infrastructure, Operations, Demand , etc.,
 - Developing a broad concept plan for the study corridors.

THANK YOU