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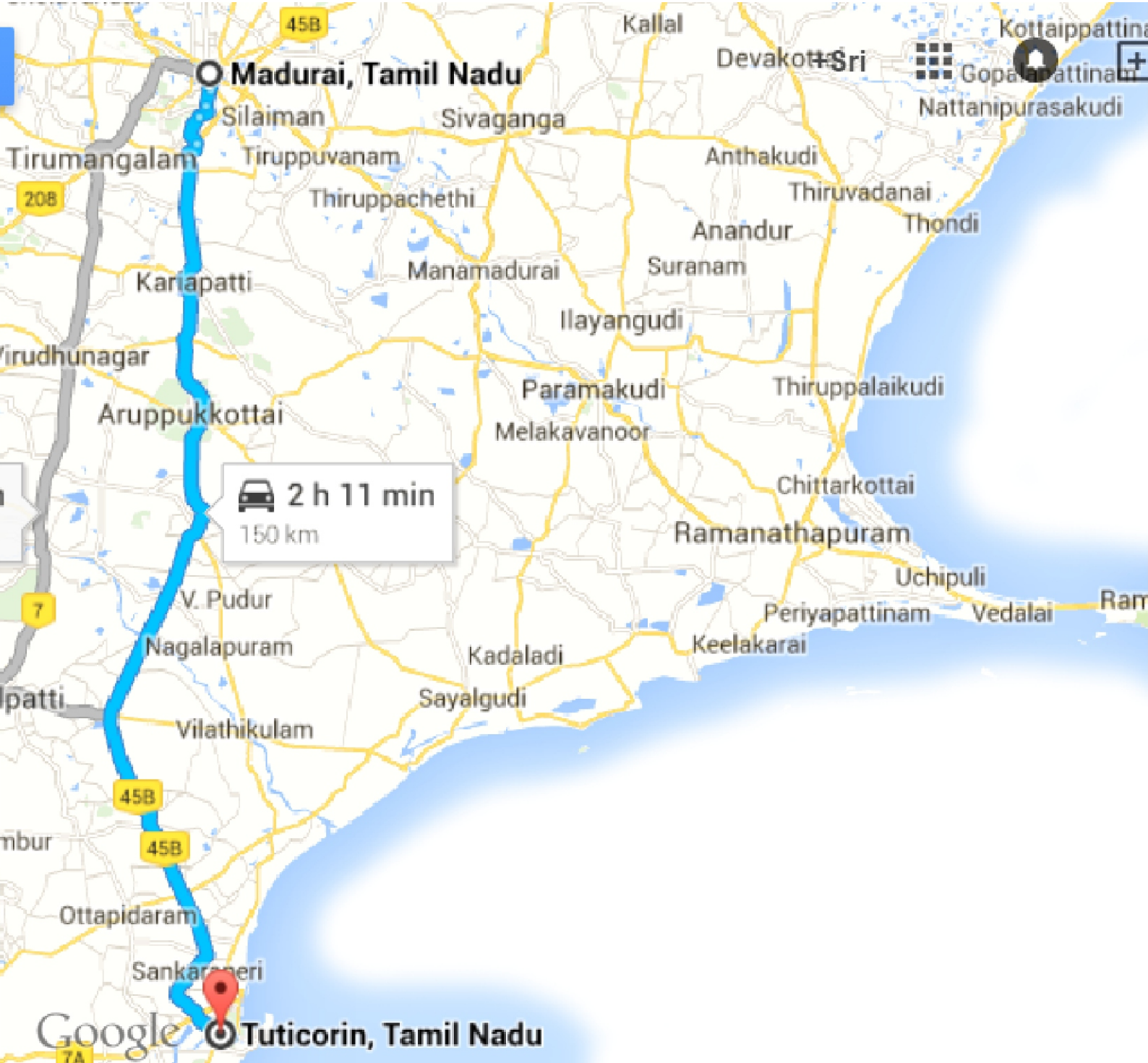
1000

Acres

@

**Extension of the
MADURAI- THOOTHUKUDI
Industrial Corridor**

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1000 Acres

Ideal For Proposed



Industrial Plant



Residential Town ship



College and school



Power Plants



Hotels & Resorts



Software Companies

Demographics and Key Economic Indicators, 2003

The key statistics relating to these 7 districts are summarised below

| District | Population (Million) | % Urban Population | % Literacy | NDP Rs.Crore | Per capita NDP R.s | HDI |
|----------------|----------------------|--------------------|------------|--------------|--------------------|-------|
| Madurai | 2.6 | 56.0 | 77.8 | 5,560 | 21,271 | 0.661 |
| Tuticorin | 1.6 | 42.3 | 81.5 | 3,820 | 23,945 | 0.703 |
| Virudhunagar | 1.8 | 44.4 | 73.7 | 4,205 | 23,477 | 0.651 |
| Tirunelveli | 2.7 | 48.0 | 76.1 | 5,212 | 18,810 | 0.658 |
| Kanniyakumari | 1.7 | 65.3 | 87.6 | 2,760 | 16,340 | 0.711 |
| Sivagangai | 1.1 | 28.2 | 72.2 | 1,672 | 14,341 | 0.640 |
| Ramanathapuram | 1.2 | 25.5 | 73.0 | 2,190 | 18,249 | 0.629 |
| State | 62.4 | 44.0 | 73.5 | 137,681 | 21,738 | 0.657 |
| India | 1,027 | 27.8 | 65.4 | 2,014,450 | 18,912 | 0.571 |

It is seen that except for Tuticorin, Virudhunagar and Madurai falling close, other districts are well below the State average in per capita NDP. However, in respect of Human Development Index, the districts do not lag behind the State, with Tuticorin and Kanniyakumari being far ahead of the State as well as the national average. In literacy also these two districts are quite ahead.

Infrastructure

Roads and Railways

The districts are served by many important national highways, state highways and district roads. The important highways are Thiruvananthapuram - Kanniyakumari National highway (Nh47), Kanniyakumari - Madurai National Highway (NH7) that passes via Tirunelveli and Virudhunagar, Tuticorin - Tirunelveli National Highway (NH7A) that proceeds further to Kollam in Kerala, Ramanathapuram - Madurai National Highway (NH 49) that passes through Sivaganga district, Madurai - Kollam highway (208) that passes near Thenkasi and Senkottai in Tirunelveli district and the East Coast Road that connects Nagapattinam, Ramanathapuram, Tuticorin and Kanniyakumari (to be upgraded). These roads do provide a reasonably good network among the districts.

Madurai Thuthukudi Infrastructure

Railways

The districts are served by broad gauge as well as meter gauge railway. Most district headquarters are connected with Madurai by railway services and express trains run to Chennai on a daily basis. Madurai is especially well connected to most of the southern cities - Chennai, Trichirappalli, Coimbatore, Bangalore, Rameswaram, Quilon, Thiruvananthapuram, etc. – as well as to other major Indian cities such as Delhi, Mumbai and Kolkata. Over 35 express and other trains serve Madurai.

Ports

Tuticorin port is one of the 10 major ports in India. The port has an artificial deep-sea harbour with breakwaters of about 4 km long and about 1.3 km wide. The harbour basin area is about 400 hectares with approach channels of about 2.4 km length and 183 meters width. The traffic handled by the port in 2003-04 was 14.7 million tonnes (1,500 ships). It has great potential to become a major hub port, with the deepening of inner (increasing the draught from 10.7 to 12.8 metres) and outer harbors. In addition to Tuticorin port, there are several other minor ports and fishing harbors at Kolachel, Kanniyakumari, Rameswaram, etc. The Kolachel port also has potential to grow as it has a natural harbor.

Power

The TNEB grid serves the districts. Tuticorin has a TNEB thermal station generating 1,000 MW of power. There are gas based power plants in Ramanathapuram and windmills in Kanniyakumari that generate another 300 - 400 MW of power. Another major power project - i.e. a joint venture project between Neyveli Lignite Corporation and TNEB for 1,000 MW, is proposed in Tuticorin. In Tirunelveli district, at Kudankuam, the Nuclear Power Corporation of India is constructing a power plant that would generate 2,000 MW of power by 2008.

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Social Infrastructure

The social infrastructure, especially educational infrastructure, in these districts is significant. The details are given below:

| District | Schools & Colleges | Professional Institutions | Vocational & Research | Total |
|-----------|--------------------|---------------------------|-----------------------|-------|
| Madurai | 1,483 | 6 | 7 | 1,496 |
| Tuticorin | 1,543 | 6 | 5 | 1,554 |

Existing Resources, Industries & Clusters

| District | Key Resources | Existing major industries | Clusters / Cottage / SSIs |
|-----------|--|---|--|
| Madurai | Limestone, Graphite, paddy, Cereals and pulses | Rubber, Automotive & Textile industries | Hosiery, milling & readymade garments, Food processing (mango) & medicinal herbs |
| Tuticorin | Salt, Garnet and Ilmenite | Port and related service industries | Dry flower, edible oil, textile, readymade, Match and printing |

The Approach for the Industrial Development of the Corridor

The study has clearly established Madurai as a key hub for manufacturing in the Northern zone of the districts of interest and Tuticorin emerges as a key export cum services hub in the southern zone of the corridor, with these two being linked by the national highways (distance 135 km).

- Manufacturing (textiles, auto, rubber), and employment generating sectors like food processing (agro and marine),
- Services (IT and knowledge based ITeS / BPO, port based services like Bulk storage in Tuticorin etc),
- New export markets (e.g. scaling up printing base in Virudhunagar to tap global markets, engineering design, mechatronics and biotechnology,), and
- Tourism - internationally oriented Cultural & Heritage and Eco Tourism

The Four-gearred SPEED strategy

- Manufacturing Hub (Madurai) & Satellites (located in various centres in Virudhunagar, Ramanathapuram & Tirunelveli etc)
- Export cum Service Hub (Tuticorin)
- Knowledge Corridor (Madurai, Virudhunagar, Tirunelveli)
- Tourism Corridor (Madurai, Kanniyakumari & Ramanathapuram)

The hub would be the primary focus for development in the first phase, especially in infrastructure development, and the hub in turn will drive the development of satellite centres

HUBS

Madurai – Auto / Textiles / Agri-food-biotech /
Rubber / Ites-bpo
Tuticorin - Port Based Export Cum Services Hub

SATELLITES

Sivagangai - Heritage Tourism / Mud Based
Industries / Graphite (40 Km From Madurai)

Virudhunagar - Oil Extraction, Printing,
Matches, Spinning/ginning (18 Km From Madurai)

R'puram - Fishing & Marine,
Textiles (79 Km From Madurai)

Tirunelveli – Food Processing, Packaged
Water, Fibre-coir Based (52 Km From Tuticorin)

Kanya Kumari - Rubber, Herbal
& Coir (110 Km From Tuticorin)

Corridors

Tourism Corridor – Madurai,
K'kumari, Ramanadhapuram

Knowledge Corridor (madurai,
Virudhunagar, Tirunelveli)



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Investment for Industrialization

The key infra structural priorities for the proposed SPEED approach would be enabling international air connectivity (Madurai) and re-activating Tuticorin airport. There is an urgent need to develop the Tuticorin port (e.g. deepening of outer harbor, bulk storages etc) if one were to promote Tuticorin as an export & services hub.

The following investment, to the tune of Rs.33735, is already in the pipeline, if one were to consider the various public and private sector projects that are planned, proposed or are under implementation (as given below). However, the state and central governments need to speed up these ongoing projects so that the vision of SPEED is realized at the earliest.

| Project Area | Investment Amount (Rs. Crores)* |
|-------------------|---------------------------------|
| Airways-ports | 4990 |
| Mother Industries | 6200 |
| Parks & SEZs | 4385 |
| AEZs | 170 |
| Power | 16405 |
| Railways | 265 |
| Roadways | 1320 |
| Total | 33735 |

| | The Hubs, Satellites & Corridors of the SPEED Strategy | | | |
|-------------------------|---|---|--|--|
| | Manufacturing Hub | Export & Services Hub | Tourism Corridor | Knowledge Corridor |
| Central Government | Highways, Port development and SEZ development | Enhance Highways /Airports Port & SEZ Reduce port charges (wharfage) | Enhance air/road connectivity to state capital (Chennai) & major destinations like Madurai | Enhance data links |
| State Government | Support infrastructure Invite mother industries | District roads/ State highways Modification / Re-orientation of existing schemes | Boost investment flow in developing regional tourist centres | Set up a TIDEL replica in Madurai Development & marketing of TIER II destinations |
| CII/ Other Associations | Conduct seminars & conferences to highlight advantages in relocating to southern districts Transform the existing strong spirit of local entrepreneurship in trading, to look at manufacturing and other opportunities | Identify new avenues of growth (e.g. bio-diesel) Actively involve itself with the governmental efforts to transform the Tuticorin port | Bring about attitudinal / mindset change to improve patronage of regional tourist centres (e.g. 'Madurai Mystique') Focus on International Tourism – through leveraging the region's Cultural and Ethnic Heritage | Same as Mfg Hub Enhance industry-institute collaboration |
| Industries | Scaling up existing industries & promoting Mother industries | Scaling up, Promoting local sourcing from regional supplier clusters (e.g.auto) thus helping them hook up to global value chains | Existing players / stakeholders to work towards a global orientation to promote regional tourism | Explore new growth avenues [e.g TVS - engineering design services & MKU – Biotechnology / Biology, knowledge based ITeS]] |
| NGOs | Set up SHGs to promote cottage industries Safeguard local industries' interest | Identify, promote & train for businesses that utilize local domain knowledge & have export market | Advocate sustainable usage of local resources and preserve regional ecosystem | Kindle the spirit of entrepreneurship in local youth through identification of opportunities and mechanisms for implementation |

Thoothukudi Vision 2025



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Thoothukudi Vision 2025

By 2025 thoothukudi would become:

A sustainable industrial and commercial city that drives the economic advancement of the hinterland and play a significant role in the economic well being of Tamil Nadu and India

A city that provides the right environment and infrastructure for industrial investment, and vast employment opportunities, all in a sustainable manner without damaging the environment

A lively livable city that provides its inhabitants quality and affordable housing, access to adequate power and water supply, good city infrastructure, entertainment, green spaces, and in general, a great ambience

A healthcare conscious learning city that provides its inhabitants affordable high quality health care services, educational institutions par excellence and a place to nurture and grow talent

A well managed city with the involvement of all stake

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Economic Vision 2025

By 2025 v, the net domestic product of the city is forecast to reach Rs. 13,890 crores and the per capital income of the city will have tripled growing at a CAGR of 6% per annum.

NDP Rs. 13,890 Crores Per Capital Income: Rs. 113,000 Per Annum

10,00 acres of exclusive industrial area establishment of industries such as chemical, minerals, fertilizers, copper, shipbuilding, auto components, engineering ancillary units and an automobile major; a food processing SEZ

The port will handle about 130-150 million tonnes, including 5 million twenty foot equivalent units (TEUs) containers.

7,00 MW of power generating capacity natural gas supply for industries and households.

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Thoothukodi Summary of Investments

| | 2008-2015 | 2016-2025 | Total |
|------------------------------|-----------|-----------|--------|
| Infrastructure | 21,126 | 21,131 | 42,257 |
| Civil (Urban) Infrastructure | 2,540 | 2,705 | 5,245 |
| Social Infrastructure | 1,700 | 1,940 | 3,640 |
| Total | 25,366 | 25,776 | 51,142 |

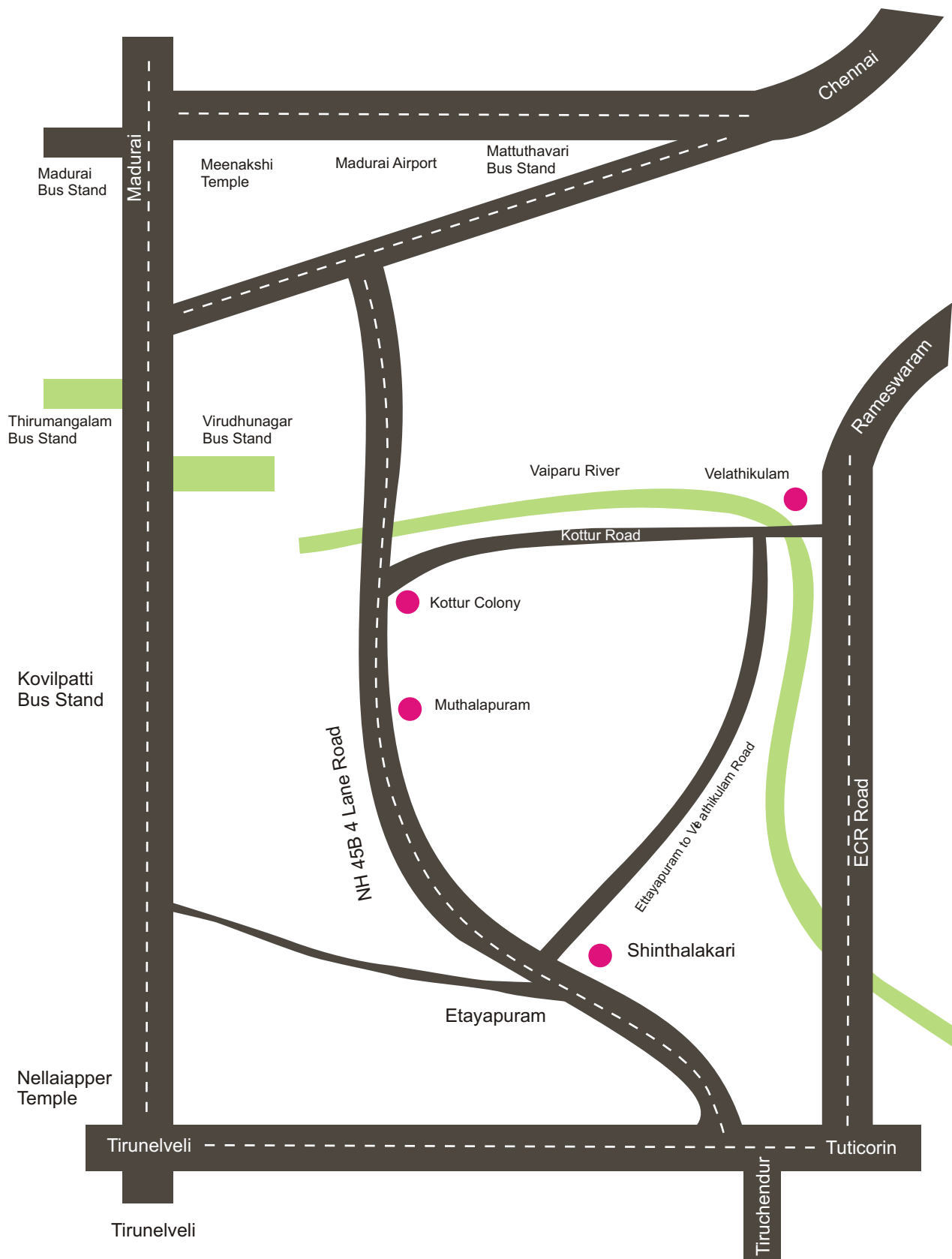
Connectivity Vision 2025

- high speed double-line rail link to Chennai, Coimbatore, Bangalore and Madurai
- 8 lane highway to Madurai; connect to NH4; east coast link to Chennai
- Backbone high speed Dedicated Freight Corridor to Nagpur



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INDUSTRIALIZATION OF THE
MADURAI to TUTICORIN CORRIDOR
 THE UNEXPLORED OPPORTUNITY



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