



## **Trivandrum – Digital Capital**

# **Proposal for Investments in IT Projects**

Trivandrum Development Front

# Agenda

- **Idea**
- **Why IT Corridor @ Trivandrum?**
- **Potential Projects**
  - **Short Term**
  - **Medium Term**
  - **Long Term**
- **Infrastructure to be provided on the IT Corridor**
- **IT Corridor Project Case Studies**
- **Expected Benefits**
- **Key Next Steps**

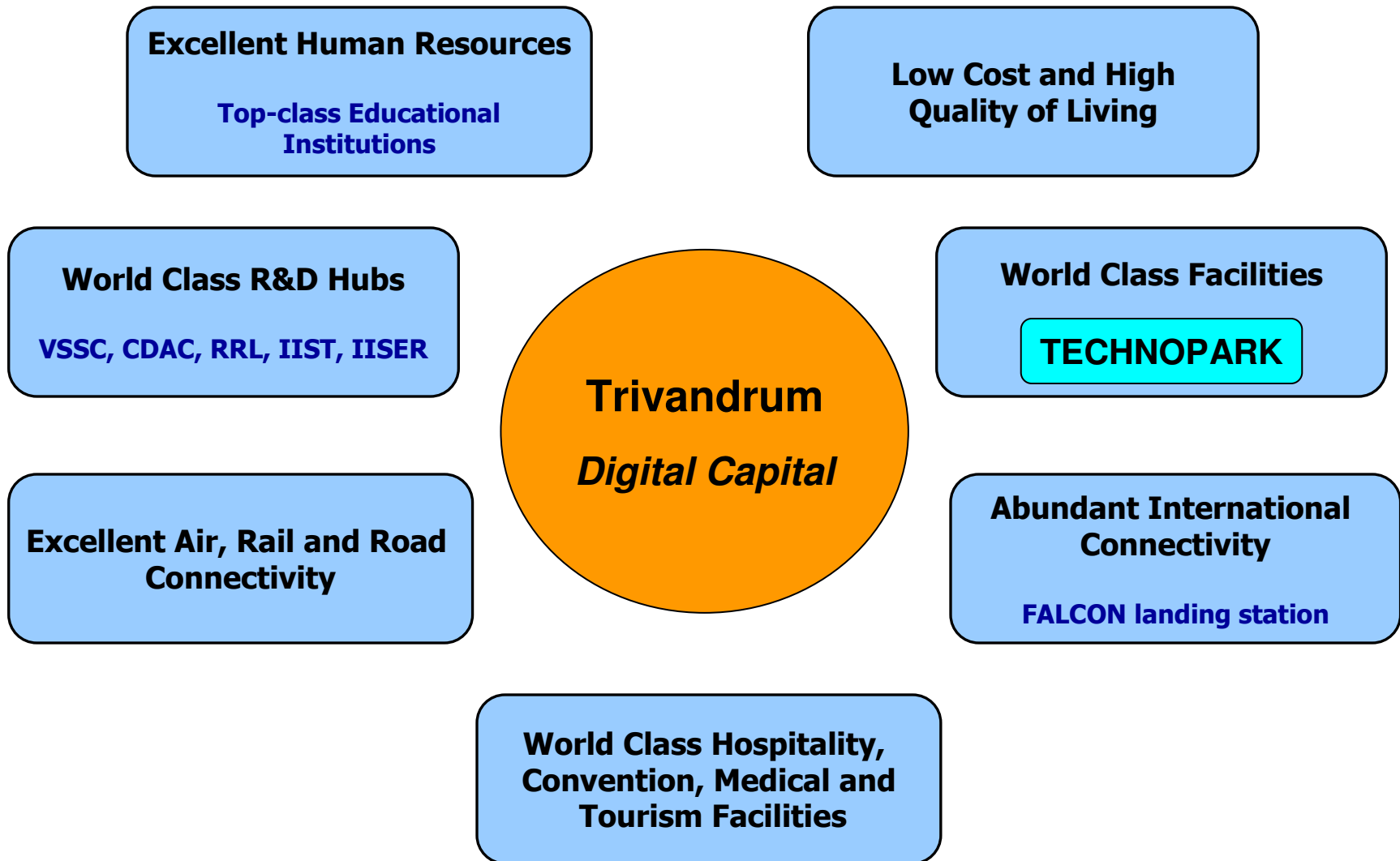
# Idea

An IT Corridor is a longitudinally aligned, planned collection of Information Technology businesses and supporting facilities which usually coincide with a major transportation axis.

# Why IT @ Trivandrum?

- Trivandrum has been the **IT hub of Kerala** since 1995 when Technopark was set up
- Each state needs an anchor destination for attracting investment and to build its brand
  - **Karnataka** has **Bangalore**, **AP** has **Hyderabad** and **TN** has **Chennai**.
  - **Kerala** has **Trivandrum** – the *Digital Capital*
- Trivandrum accounts for **70% of the State's IT exports** and **70% of the IT workforce**
- Technopark is **India's largest IT park** with 3.2 million sft of IT space and over 15,000 IT professionals
- Leading IT players like **Infosys, TCS, US Technology, IBS, Tata Elxsi, Patni Computers**, and others have set up or are building their campuses in Technopark
- Trivandrum has the **best R&D institutional cluster** in Kerala and one of the best in India – spanning **high-technology manufacturing, software development and biotechnology**
- It has the greatest number of professional and non-professional educational institutions in and around it
- Trivandrum has the best urban, transportation and IT infrastructure in the State
- It represents the **Kerala Government's greatest success in IT** till date and needs to be developed further to benefit the people of Kerala

# Focus on IT - Strategic Advantages of Location



## Aim of Study

- This study will try to identify potential projects in the Trivandrum Capital Region (TCR) in which the State Government needs to invest:
  - These projects will have immediate and long term benefits to the economy and society of the State
  - They will also enable GoK to earn returns which can be plowed back in or used to fund other developmental activities
- Since GoK will have a near to long term view and an expanding investment capability, the study will look at projects across:
  - **Short Term:** 6 to 12 months
  - **Medium Term:** 1 to 3 years
  - **Long Term:** 3 to 5 years
- These projects will focus on developing actual IT infrastructure (space/connectivity) and supporting infrastructure to promote IT investment

## Short Term Projects

- **GoK** can immediately take up two projects in Trivandrum which feature prominently in the Government's agenda and are of great importance to positioning Kerala as an IT destination:
- **Technocity:** A self-contained IT-high technology based township being developed as Technopark Phase IV, along the NH-47 at Mangalapuram on 500 acres of land
  - Fund the initial land acquisition and infrastructure development costs. This is estimated to exceed **Rs 100 - 200 Crores** over the next **6-12 months**
  - This investment can be recovered when the land is transferred to a developer (s)
- **NH-47 Bypass Development:** involves the extensive development of the NH-47 Bypass from Kazhakkootam to Kovalam in view of current projects and future developments like the International Transshipment Terminal at Vizhinjam
  - GoK can fund the development of the road to 6-lane, creation of a **landbank** (by releasing land from TUDP), creating transportation facilities like a Bus Rapid Transit System and utilities like water, sewerage and power
  - The investment of ~ **Rs 100 Crores** can be recovered as an annuity from GoK or through tolls/leases.

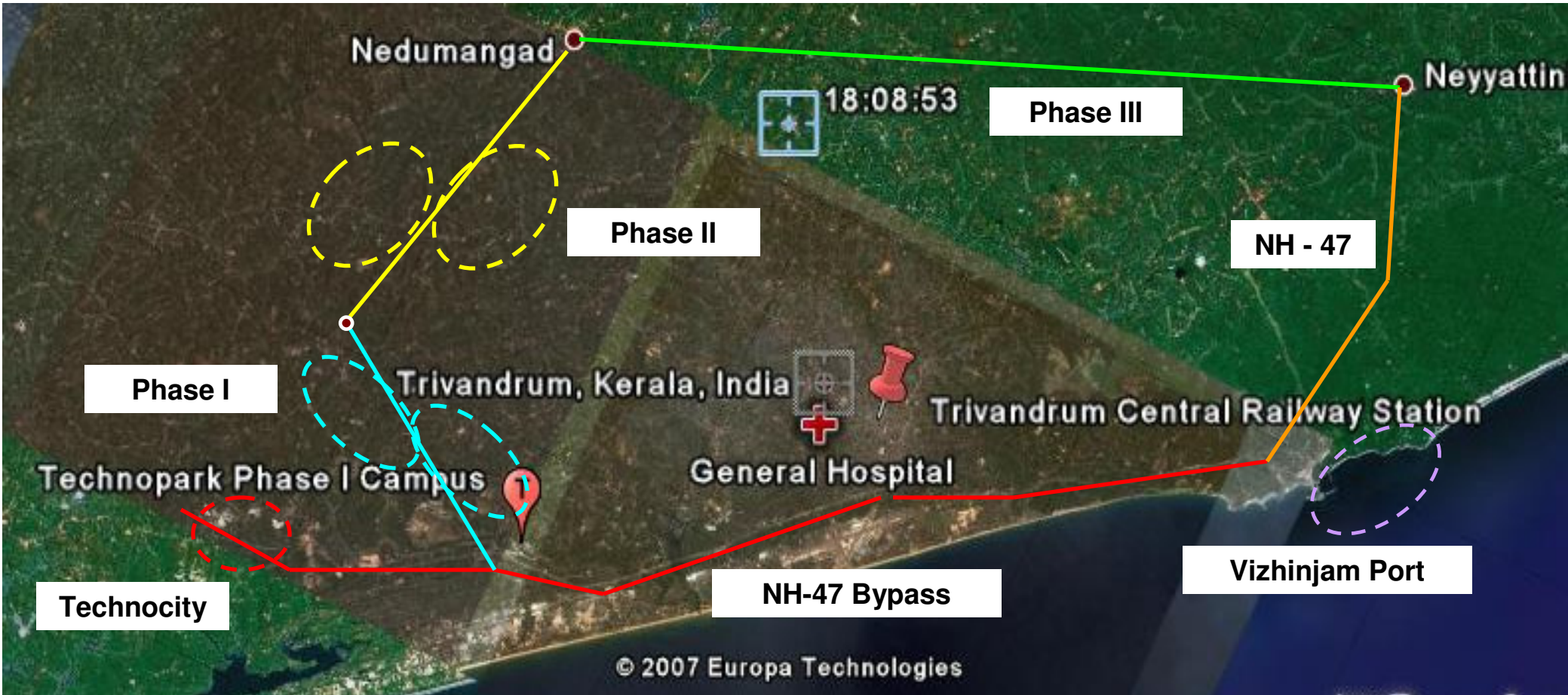
## Medium Term Projects

- **IT Corridor (Phase I):** will extend from **Kazhakkootam** to **Venjaramoodu**
  - **6 lane road** of international standards from Kazhakkootam to Venjaramoodu
  - Provision of all utilities along the IT Corridor
  - Acquisition and preliminary development of **1200-1500 acres** of land to create a land bank for IT/ITES, biotechnology, nanotechnology and electronics manufacturing companies as well as for residential and commercial development
- This corridor will also form the **Outer Ring Road (ORR)** for the Trivandrum Metropolitan Area
- Total expected expenditure is about **Rs 500 Crores**

# Long Term Projects

- **IT Corridor (Phase II):** will extend from **Venjaramoodu** to **Nedumangad**
  - **6 lane road** of international standards from **Venjaramoodu** to **Nedumangad**
  - Provision of all utilities along the IT Corridor
  - Acquisition and preliminary development of **1500-2000 acres** of land to create a land bank for IT/ITES, biotechnology, nanotechnology and electronics manufacturing companies as well as for residential and commercial development
  - Total expected expenditure is atleast **Rs 500 - 1000 Crores**
- **IT Corridor (Phase III):** will extend from Nedumangad to **Kattakada** or **Neyyatinkara**
  - Total expected expenditure is atleast **Rs 500 - 1000 Crores**
  - This corridor will complete the **Outer Ring Road (ORR)** for the Trivandrum Metropolitan Area

# Project Outline Map



*Outlines of potential areas of development and alignments of roads are representative only*

# Infrastructure to be provided on the IT Corridor

- **6-lane road connectivity** with international standard design
  - Provision to go to 8-lanes, with width to cater to a future MRTS system
  - State-of-the-art road lighting, high-intensity mast lights at junctions and automatic, synchronised signalling systems
  - **Grade separators** (flyovers/underpasses) at all busy intersections
- **Land banks** to be built up on either side of the Corridor and relevant zoning laws to be enacted to provide land for IT/ITES, Commercial and Residential development
- All utilities – electricity, water supply, sewerage, optical fiber connectivity – to be provided through underground ducts
  - Dedicated power sub-stations as well as water and sewage treatment plants may need to be set-up to support a potential population of upto **1 million by 2015-2020**
- Additional facilities like police/fire stations need to be setup
- **High-volume, high-efficiency transportation systems** like Bus Rapid Transit Systems, rail-based systems etc need to be deployed
  - In the interim, dedicated bus services with a dedicated bus terminal need to be immediately set up

# IT Corridor Project Case Studies

## Project I – IT Expressway, Chennai

- **Agency:** Tamil Nadu Road Development Corporation
- **Length:** Total 45 Kms; Phase I – 21 Kms
- **Facilities:** International standard 6-lane road, ducted utilities; elevated rail MRTS
- **Cost:** Approx Rs 250 Crores for road alone
- **Timeline:** Phase I almost complete; Phase II by 2009.
  - **Other developments:**
    - IT parks by Govt. agencies like SIPCOT and ELCOT
    - IT parks by Private developers
    - Campus by IT/ITES firms like **Infosys, TCS, CTS, Wipro, Accenture, EDS, HCL** etc
    - Residential/Commercial developments by leading developers
- **Impact:** This area accounts for the bulk of Tamil Nadu's IT exports of **Rs 20,000 Crores**. With a CAGR of above 40%, the IT Corridor could be grossing over **Rs 40,000 Crores by 2010**.

# IT Corridor Project Case Studies

## Project II – Outer Ring Road, Hyderabad

- **Agency:** Hyderabad Urban Development Authority
- **Length:** Total 162 Kms including connectivity to new International airport
- **Facilities:** International standard 8+2 lane road, ducted utilities; MRTS
- **Cost:** Approx Rs 5500 Crores
- **Timeline:** Connectivity to airport by Dec 2007; Overall by 2009
- **Other developments:**
  - IT parks by Govt. agencies and Private developers worth over Rs 20,000 Crores
  - Campus by IT/ITES firms like **Infosys, TCS, CTS, Wipro, Accenture, Oracle, IBM, Satyam, Genpact, Microsoft etc**
  - Residential/Commercial developments by leading national/global developers
  - **FAB City** coming up which could turn into India's semiconductor hub
- **Impact:** This area accounts for the bulk of Andhra Pradesh's IT exports of **Rs 18,000 Crore**. With a CAGR of above 40%, the IT Corridor could be grossing over **Rs 30,000 Crores by 2010**



Perspective of IT Corridor, Chennai



Perspective of Outer Ring Road, Hyderabad

Trivandrum Development Front

Map of Outer Ring Road, Hyderabad



Courtesy: HUDA, TNRDC websites

# Key Benefits

Phase Name	<u>Phase I</u>	<u>Phase II</u>	<u>Phase III</u>	<u>Phase IV</u>
Timeline	2007-2010	2009-2014	2011-2016	2013-2018
Investment (Rs. Crores)	200-300	500-1000	500-1000	500-1000
Project Area (Acres)	500 (Overall 800+)	1200-1500	1200-1500	1200-1500
Eventual Direct Employment	80 - 100,000	150,000	150,000	150,000
Potential Annual Revenue Generated (Rs. Crores)*	10,000	15,000	15,000	15,000

**Trivandrum could potentially be the engine of Kerala's Economy by 2015!!**

# Action Plan

- Discuss the idea with key stakeholders
- Conduct preliminary project studies
  - Prioritise projects
- Agree project plans and complete all approvals
- Prepare Detailed Project Reports and funding plans
  - Based on its existing expertise, Technopark can be nominated as the lead agency for the entire project



# Thank You