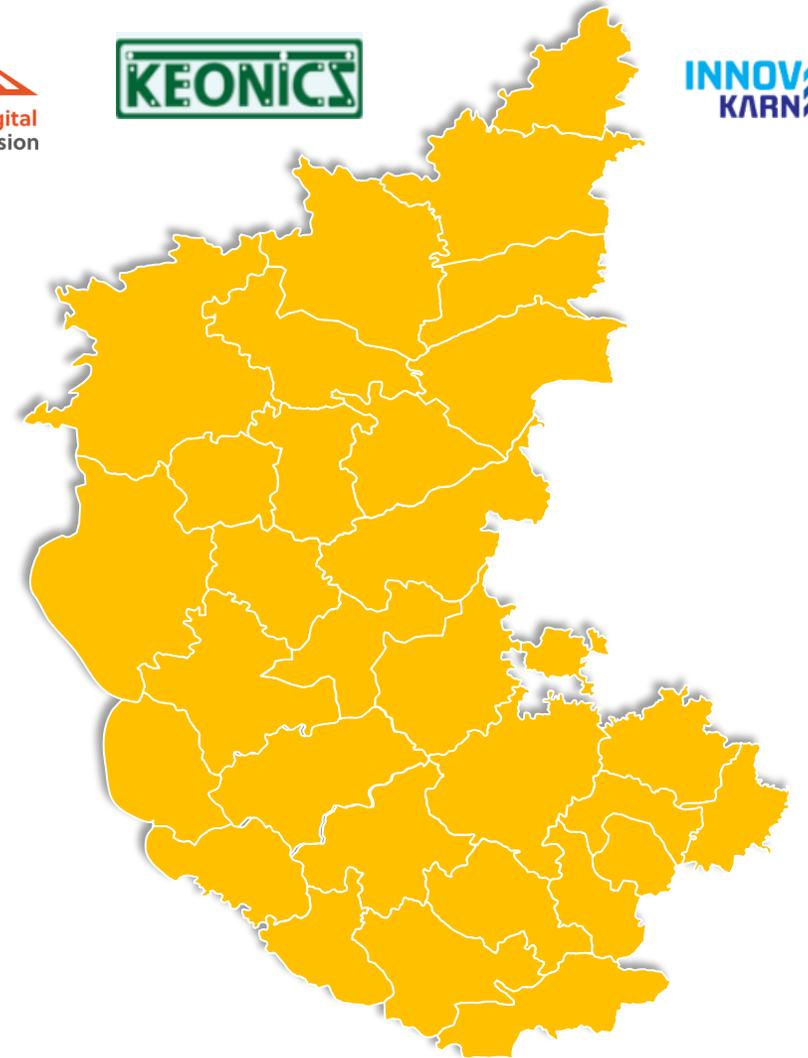


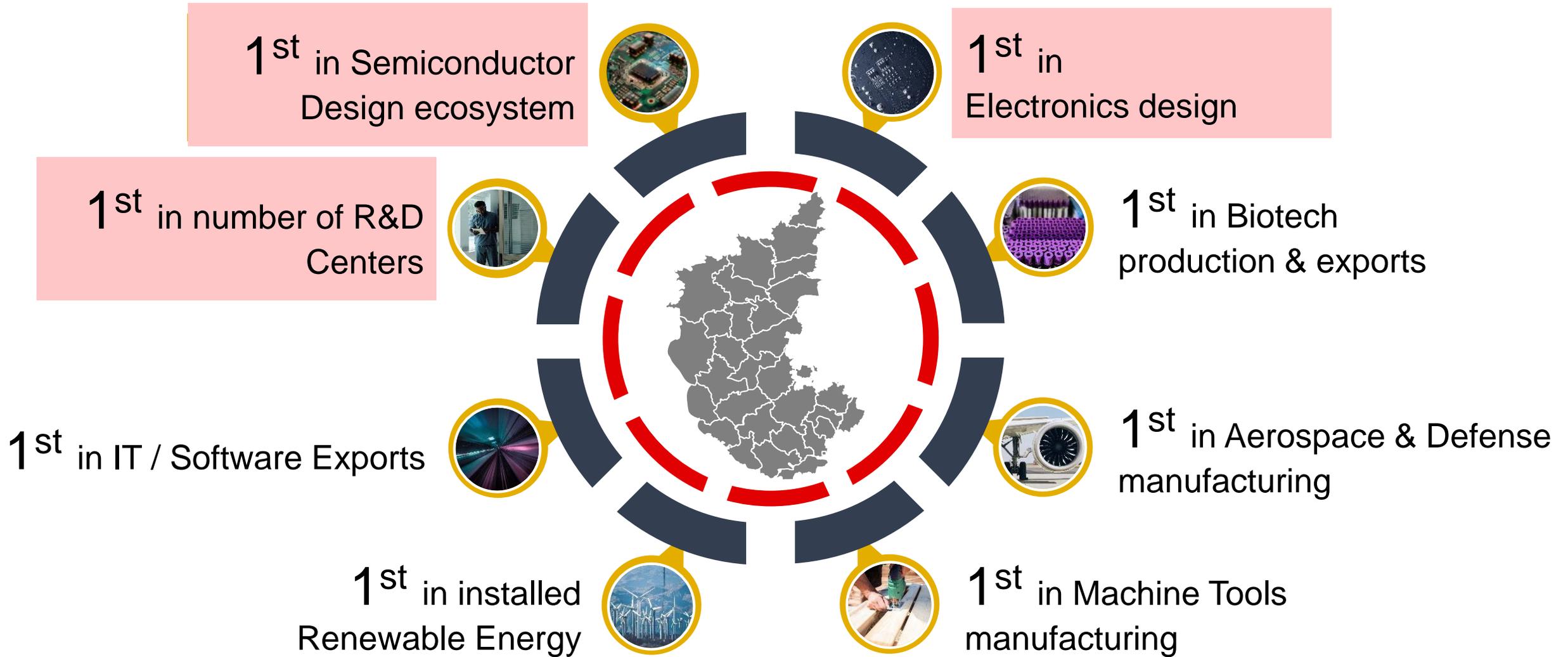
Advantage Karnataka

Department of Electronics, IT, Bt and S&T
Government of Karnataka



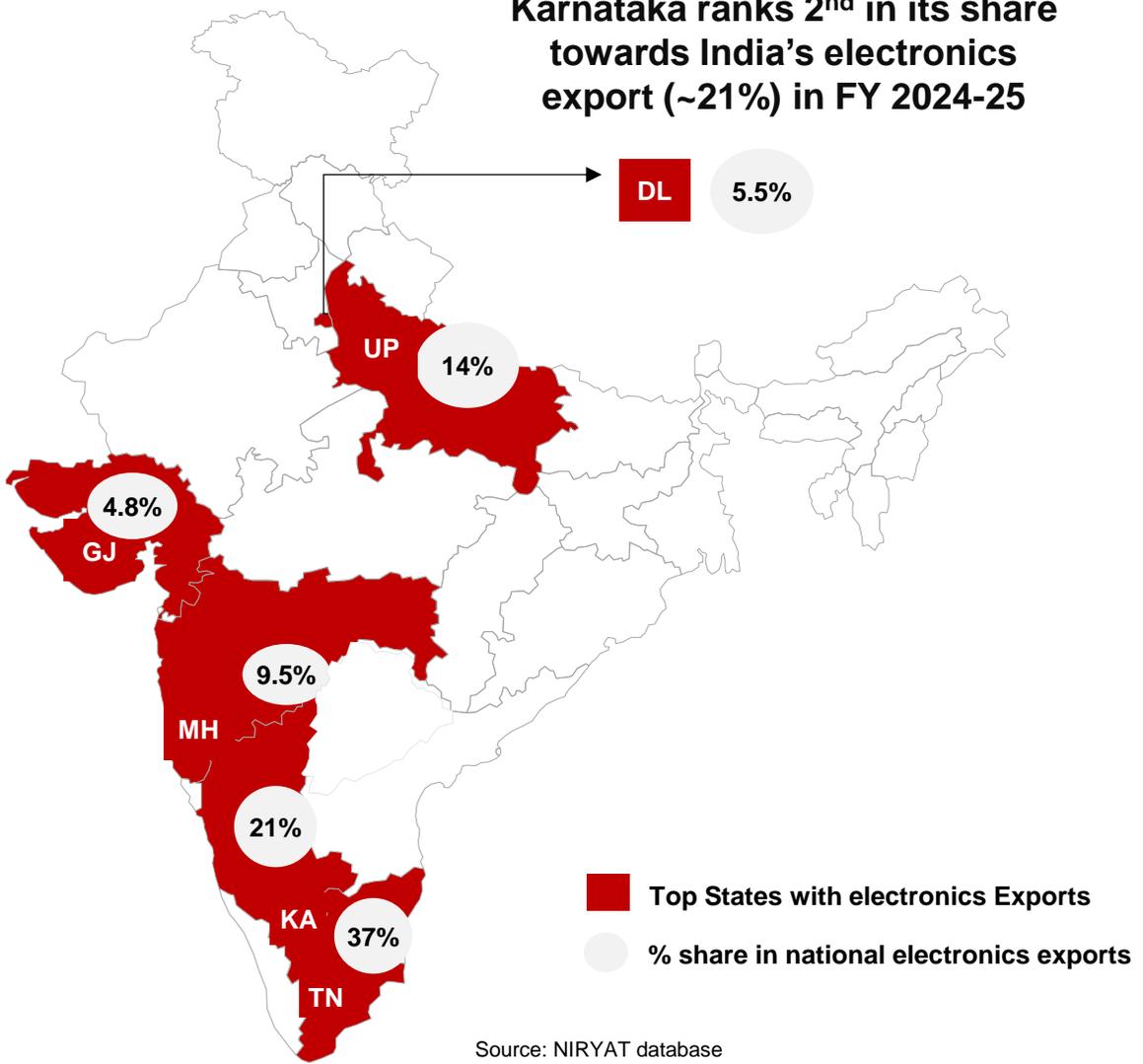
Leading the electronics and semiconductor ecosystem story

Karnataka's state GDP of ~367 USD Bn for FY 2025-26 takes pride in leading across sectors that are the backbone of nation building & developing self reliance



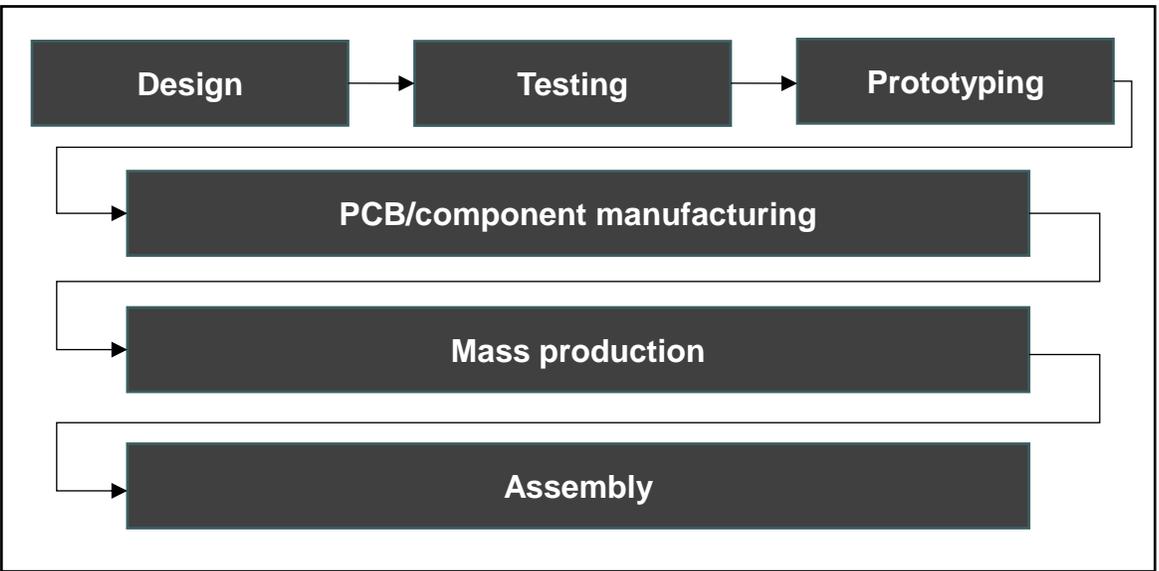
Karnataka traditionally being a pioneer in high tech, innovation and services is among the top 5 contributors to India's electronics exports

Karnataka ranks 2nd in its share towards India's electronics export (~21%) in FY 2024-25



Source: NIRYAT database

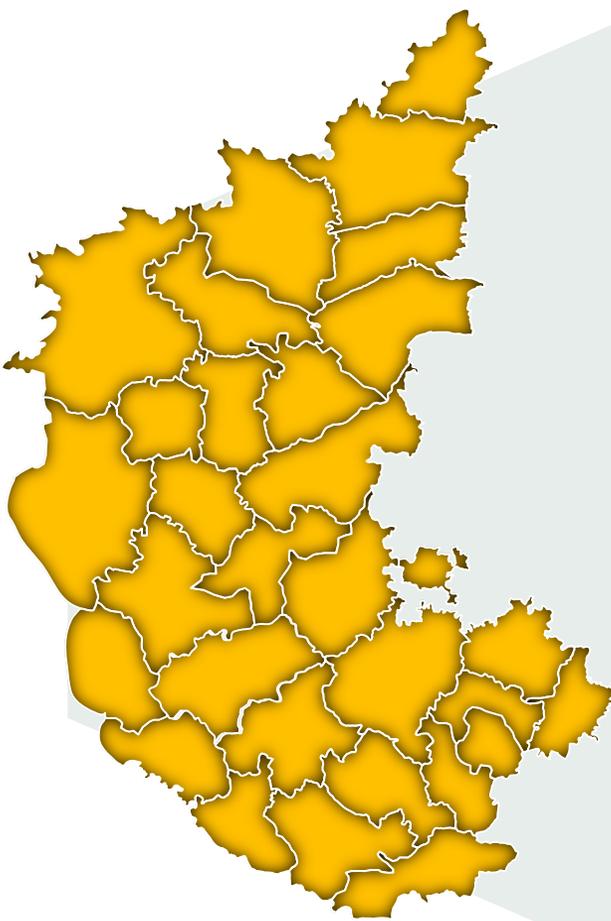
Karnataka's presence in electronics value chain



Karnataka's export partner – well established Global Relationships

United States of America	Germany
Netherlands	United Arab Emirates
United Kingdom	Czech Republic
Mexico	Italy
France	Saudi Arabia

Karnataka's ~21% share in national exports comes as a result of being home to various electronics and semiconductor value chain companies



<p>Medical Electronics</p> 	<p>Mobile Phone</p> 	<p>Automotive Electronics</p> 
<p>Industrial Electronics</p> 	<p>IT Hardware</p> 	<p>Strategic Electronics</p> 
<p>Semiconductor Design and R&D</p> 		<p>Gases and Chemicals</p> 

Karnataka aims to promote R&D, Innovation and manufacturing through a 3 -pronged approach targeted through Cash incentive, Land and Labor

Supporting anchor units and their entire value and supply chain



Cash incentive

Karnataka's policy ecosystem ~ supporting the State's growth in electronics manufacturing

- **Special Incentives Scheme for ESDM Sector 2020 - 2025** ~ fillip large investments in the ESDM sector
- KESDM Policy providing incentives to MSME and startups
- Karnataka **Space Technology Policy 2024-2029*** to establish the state as a global leader in Space Technology.
- **GCC Policy 2024-2029** to establish new GCCs and create a larger pool of jobs in the state.
- **Special packages for ultra-mega and super mega enterprises**, bringing in investments above INR 500 Cr.



Land

Clustered approach being undertaken

- **Mysuru** ~ PCB manufacturing cluster and Aerospace & Defense
- **Hubli Dharwad** ~ consumer electronics
- **Bengaluru** ~ mobile phone assembly and Electric Vehicle manufacturing cluster.
- EMCs - Kochanahalli Industrial Area in Mysuru District and Kotur – Belur Industrial Area in Dharwad District
- Karnataka has also announced a dedicated **PCB park** in the **Mysuru** region with a focus in **High Tech PCBs**.



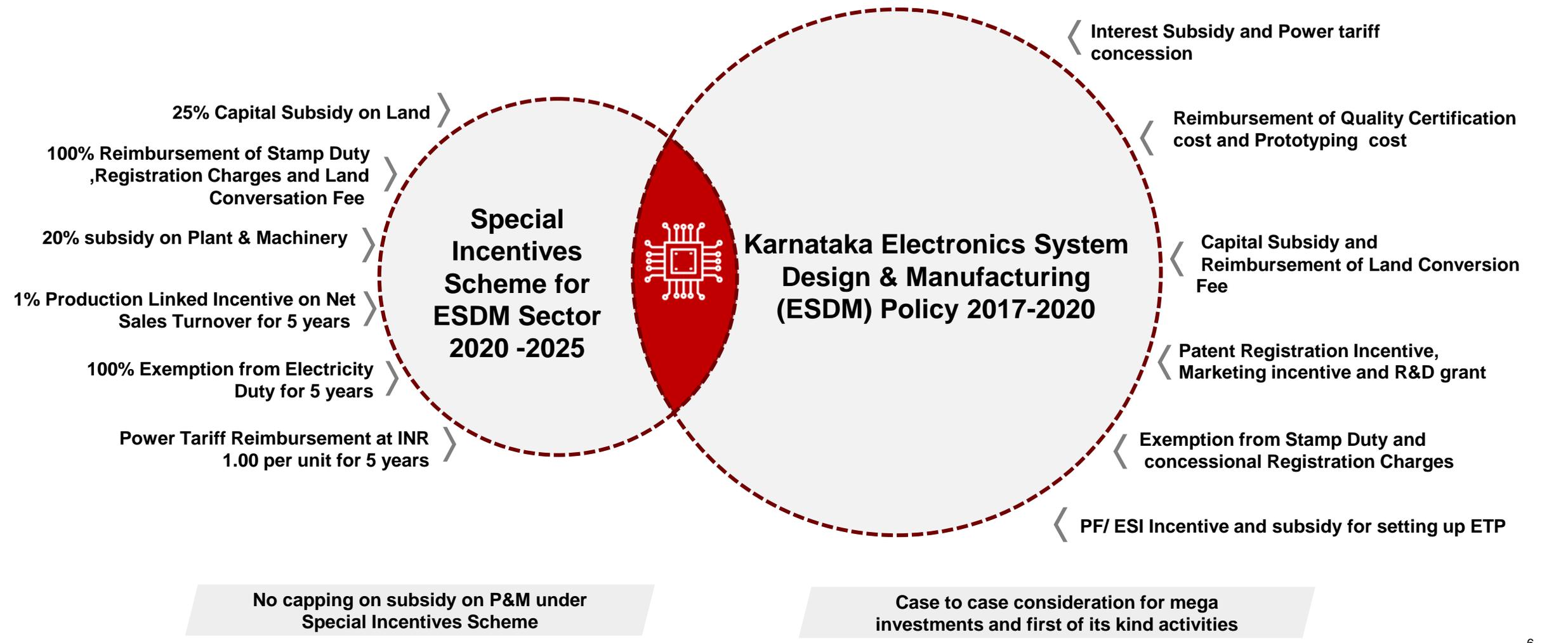
Labor

Karnataka's educational and vocational system is structured vertically:

- **4th largest skilled** workforce in India, with - **235 engineering colleges, 325 polytechnics, 1,777 Industrial Training Institutes (ITIs)**.
- **Nipuna Karnataka** program is state-wide initiative focused on enhancing the skills and employability of the state's workforce.
- ~ **30 Government Tool Room and Training Centers (GTTCs)**.
- Centers of Excellence have been set up in association with **IESA, Siemens, Dassault Systems, and PTC** in 15 GTTC Centers.

To enable the ecosystem, the state has ensured policy support for not only electronics sector but also to its allied sectors by providing fiscal incentives

Comprehensive policies covering the entire value chain for electronics and semiconductor manufacturing



Karnataka also extends supports electronics allied sectors through marquee policy ecosystem

Talent

- **Skilling Incentives** for students and education institutions
- **Internship stipend** reimbursement
- **50%** Research Assistance up to INR 75 Lakhs
- **Recruitment Assistance** (as per slabs)

Local Ecosystem

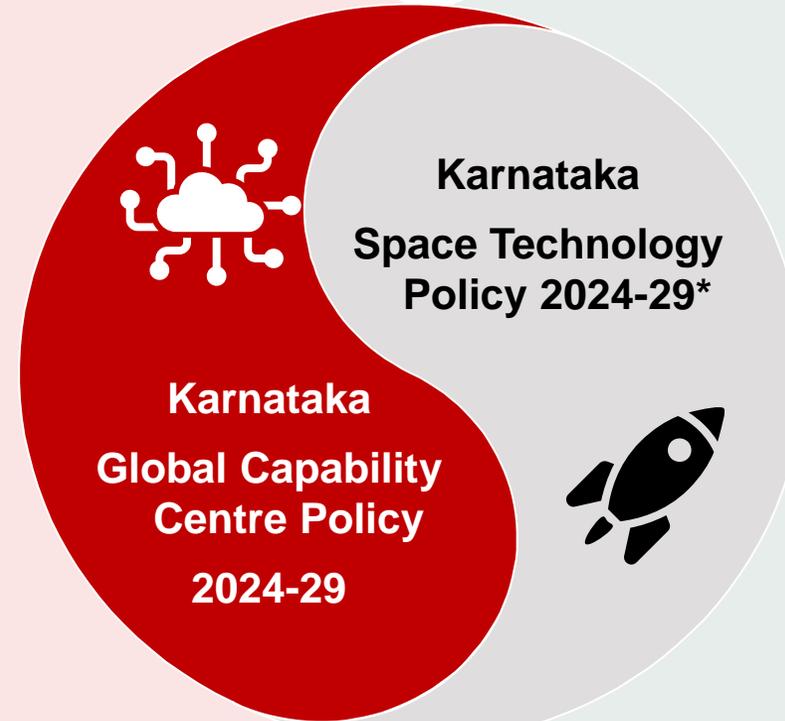
- **40% Capital support** to setting up a COE
- **100%** reimbursement of costs for using GCC labs
- Funding - **5 innovation challenges** per year
- **33% of the cost up to 25 Lakhs** for hosting events (2 per year)

Infrastructure

- Reimbursement of **Rental Expenditure**
- Reimbursement of **EPF Contribution**
- Grants up to **40%** for **R&D and Infrastructure development**
- **Telecom development and Power Concession**

Regulatory

- **GCC Incentive Clinic**
- **50%** Quality Certification expenditure
- **50%** on Intellectual Property expenditure
- Regulatory approval for connectivity



Talent & Skilling

- **Training Incentives**
- **Funding** through **NIPUNA** Karnataka

Investment and Infrastructure

- **25% Land Subsidy** along with 100% Stamp Duty Exemption
- Concessional Registration Charges
- **20% subsidy on P&M**
- **1% Production Linked Incentives**
- **50% Capex subsidy** on STP
- **100% Exemption from Electricity Duty**
- Special Package for Investments > INR 100 Cr
- Space Park – Plug and Play facility
- Capital Investment subsidy for Park developer

Innovation and Facilitation

- **Technology Acquisition / Transfer** from recognized Research Lab
- **IP registration** – INR 5 Lakhs for domestic, INR 10 Lakhs for International
- **Standards and Quality** Certifications
- **Research and Development/Prototyping**
- **Registration Fees & Exhibition stall rentals**
- **Travel Expenses** reimbursement & **Accommodation** expenses.

* Karnataka Space Technology Policy 2024-29 is in draft stage

Karnataka's strategy for developing segregated clusters for electronics manufacturing

Hubli Dharwad – Consumer Electronics Cluster



Mysuru - Electronic Component & Aerospace Cluster

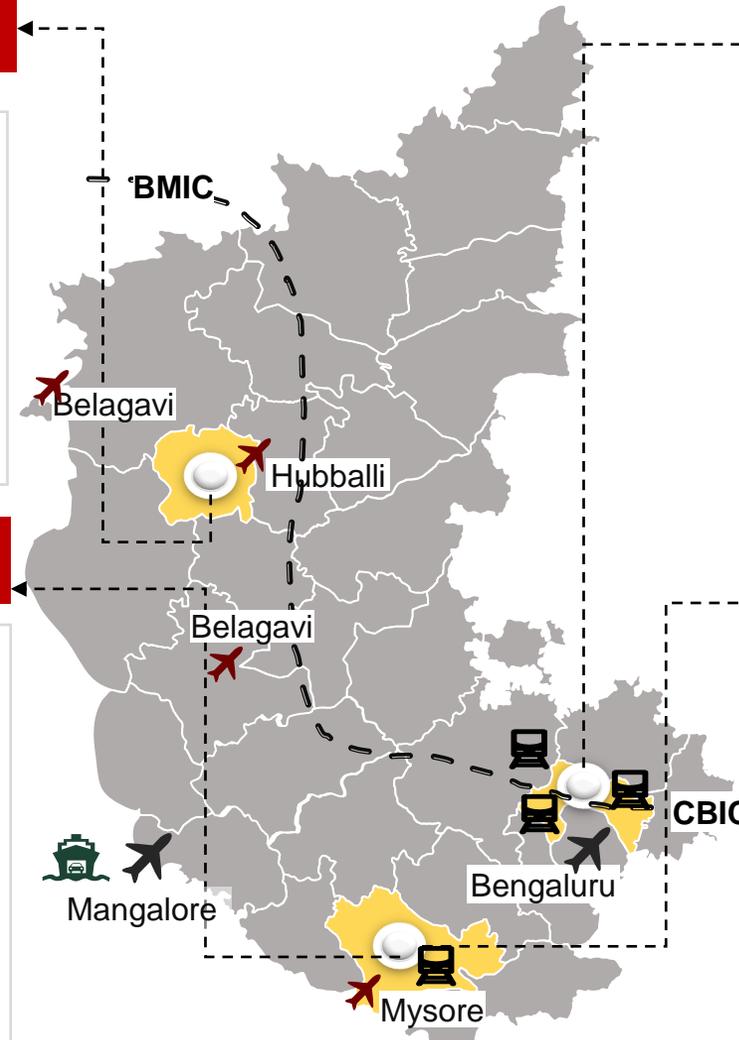


Bengaluru Rural – Mobile Phone Assembly & Aerospace & Defense



Upcoming PCB Park ~ Mysuru*

- The Park will be housed in ~ 200-250 acres of Land
- Karnataka is exploring the **PPP model** for developing the **PCB Park** to expedite the project
- Benefits to companies establishing units :
 - **Special Package of Incentives** to be offered to companies
 - Common Infrastructures such as **ETP,STP,ZLD, Bonded Warehouse**
 - Ample amount of **Water and Power** as per PCB cluster requirement shall be facilitated



International Airport



Major Port



Domestic Airport



Logistics Park

* Karnataka PCB park is at Ideation stage

To further enable the ecosystem, the state has ensured policy support by providing not only fiscal incentives but also upgraded infrastructure support

Hubli Dharwad EMC *

- Located at ~160 Kms from Goa Intl Airport ,~168 Kms from Goa Port , ~ 148 Km from Goa ICD
- Power - 110/33/11 KV substation & water from Mahaprabha river of 12 MLD
- Institutes ~ IIT & IIIT, KLE University, TATA Hitachi JIM
- **Deshpande Foundation** – Skilling, Startups, MELDP

Vasantanarsapura EMC

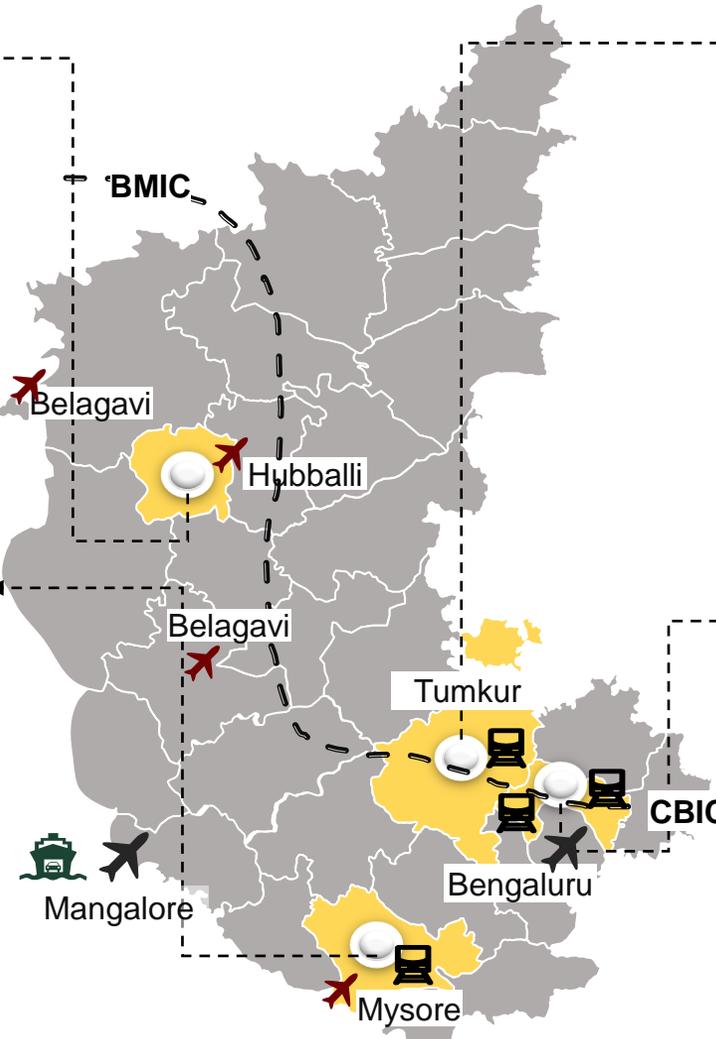
- Located ~120 Kms from Bengaluru International Airport, ~310 Kms from Mangalore sea Port , ~ 110 Km from Bengaluru ICD, ~50 Kms from MMLP (upcoming)
- Power - 220/66/11 KV substation and water - Hemavati river via TTP of 30 MLD
- Educational Institutes - **Government Tool Room and Training Centre** and **Infosys** foundation

Kochanahalli EMC*

- Located at ~6 Kms from Mysuru Airport, ~275 Kms from Mangalore sea Port, ~ 8 Km from Kadakola ICD (upcoming),
- Power - 220/66/11 KV substation water from Kabini river of 2.5 MLD
- Karnataka German Technology Training Institutes (upcoming)
- **Lahari** Advanced Testing Facility for Electronics testing

Adinarayanahosahalli EMC

- Located at ~25 Kms from Bengaluru International Airport, ~360 Kms from Mangalore sea Port , ~ 50 Km from Bengaluru ICD and ~35 Kms from MMLP (upcoming)
- Power - 440/220 KV substation and water via TTP of 10 MLD
- Educational Institutes - **Amity, Geetam and Chanakya** Institutions.
- Electronics Test and Development Centre (**ETDC**), MeiT



* EMC is approved by MeitY, Govt of India



International Airport



Major Port

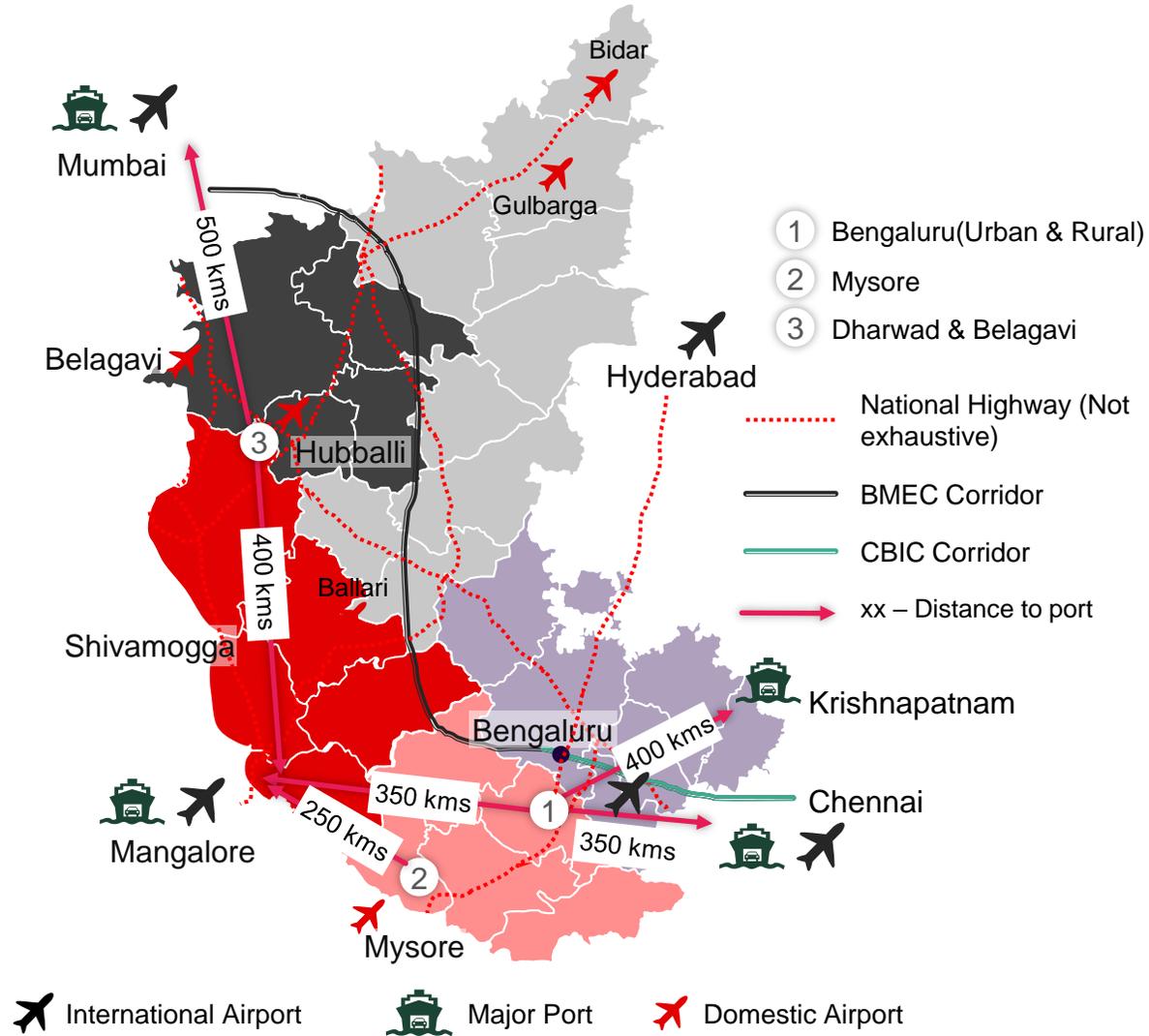


Domestic Airport



Logistics Park

To enable the ecosystem, the state also is upgrading its infrastructure network with ports, road connectivity, air connectivity & logistics



1. In terms of value of trade handled



Served by **14 major National Highways**; **2nd highest road density** among major states in India



Major port at Mangalore + 9 minor ports; 300 - 400 km access to Chennai and Krishnapatnam ports



2 International airports and 6 Domestic airports
Bengaluru Airport – **3rd Largest** in India



6 ICDs (Inland Container Depots) & 5 CFSs (Container Freight Station) incl. **2nd largest ICD¹** in India



Only State in India to have 2 industrial corridors - CBIC (Chennai - Bengaluru) & BMIC (Bengaluru - Mumbai).



Home to South **India's largest MMLP** (upcoming) and Kadakola MMLP (commissioned)



Highest in Renewable Energy Capacity ~ 15.9 GW contributing to ~ **50%** of total power requirements of state

Being the talent hub of India, the State has a dedicated focus on bearing the torch for preparing India's talent for the 'semiconductor revolution'

USPs of Karnataka's skilling ecosystem



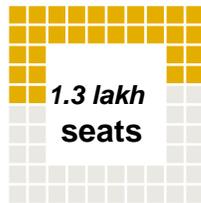
Engineering
Colleges



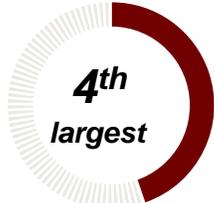
Polytechnics



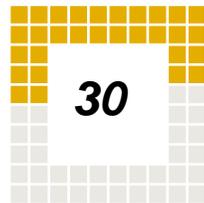
Industrial Training
Institutes (ITIs)



Engineering
College seats
for 2024-25



Skilled
Workforce



Government Tool
Room and Training
Centers (GTTCs)



- Indian Institute of Management (IIM)
- Indian Institute of Science (IISc)
- Indian Institute of Information Technology (IIIT)
- Indian Institute of Technology Dharwad (IIT), among others

New Initiatives undertaken by Government of Karnataka

1. Karnataka's Nipuna Scheme

A transformative state-wide initiative focused on **enhancing the skills and employability of the state's workforce**

2. Design Skill Program

GoK in collaboration with KDEM, IIIT B, IESA and SFAL have launched the **K-VLSI Design Skill Program**.

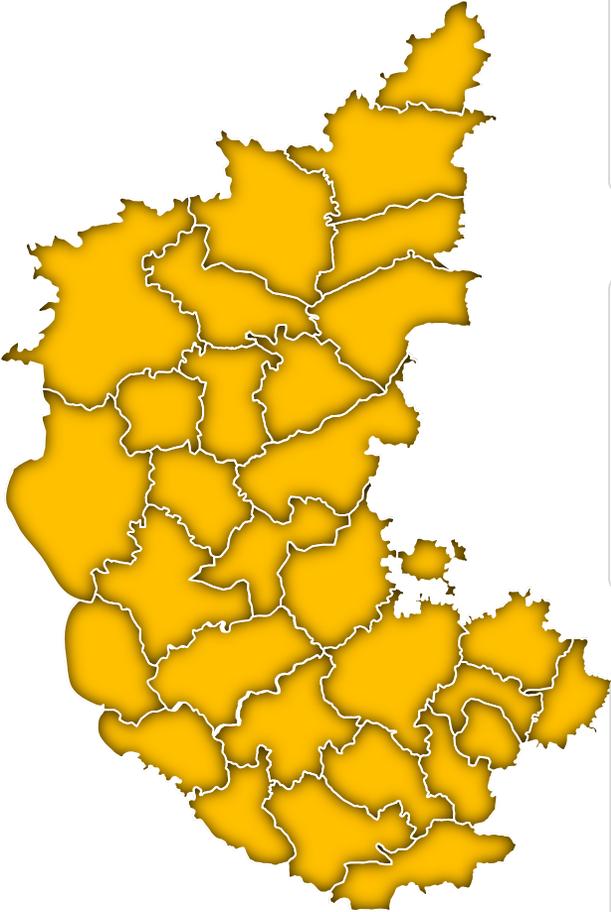
3. Memorandum of Understanding

MoUs with Industry leaders : **Microsoft, Hitachi, Web Werks, Sony, HP, Volvo, ASDC, DIYGuru** etc.

4. Skill Committee

A skill committee, set up to understand the skill gap in the ESDM sector to train talent on industry standard skills.

Karnataka has come up with “Nipuna Karnataka” Scheme to boost up the skilling ecosystem and increase the employability



Goals and Objective

- **Develop a skilled workforce** to accelerate Karnataka's economic growth
- Offer training in **IT, Biotechnology, and emerging technologies** to meet industry demands.
- Ensure **equitable access to training and employment** opportunities for all youth in Karnataka.
- **Collaborate with industry leaders and academic institutions** to enhance training quality.

Funding Models

- **40% Government + 40% by the partner + 20% by the beneficiary**
- **40% through CSR + 40% by the government + 20% by the partner**
- **40% by the partner + 40% by the government + 20% through CSR**
- **40 % Government + 60 % partner**
- **40 % Government + 60 % through CSR**
- Similar partnership model with Government participation **not exceeding 40%**.

Eligibility

Companies

**Academic
Institutions**

**Skill
Aggregators**

Partnership Models

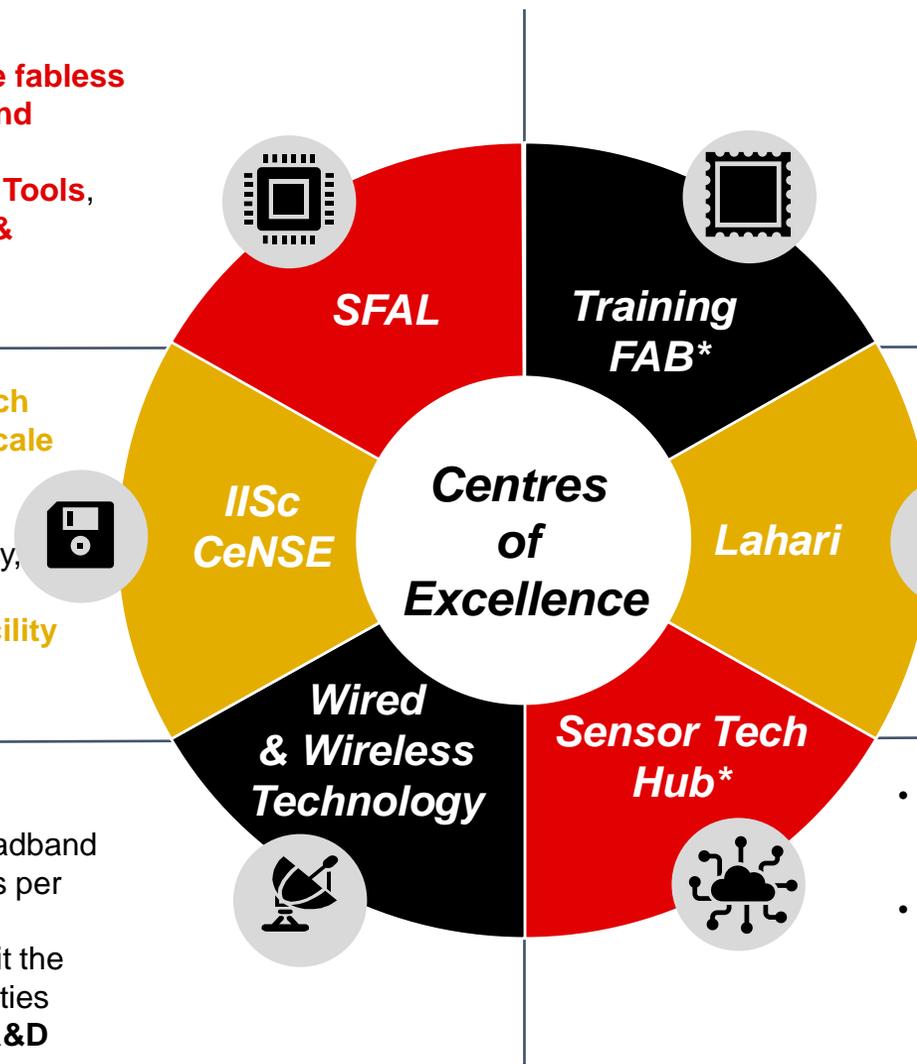
- **Internship Opportunities** for students
- Collaboration to improve **infrastructure** for training and education.
- **Joint efforts between academia and industry** for enhanced learning.
- Experienced professionals guide students through **mentorship initiatives**.
- **Joint research and development** efforts benefit innovation in training.

The State has also set up various Centers of Excellences and first of its kind initiatives to propel the Electronics Landscape

- Semiconductor Fabless Accelerator Lab to **enable fabless startups**, across India and encourage **creation and development of Products/IPs** from India
- Features / Benefits - **Mentorship**, access to **EDA Tools**, **Incubation & Co-Working facilities**, **Connects & Funding** etc.

- IISc's CeNSE **pursues interdisciplinary research** across several disciplines with a focus on **nanoscale systems**.
- The facility features -
 - **National Nanofabrication** for Photolithography, **Micro and Nano Characterization Facility** (MNCF) for nanofabrication, **IC Packaging facility**
 - **50+** Instruments, **80+** patents, **600+** publications, **18+** faculties, **50+** Workshops

- CoE to address the following:
 - **Research in 5G technologies** and wired broadband industries and **encourage standardization** as per global practices,
 - **Build simulators and test beds** which benefit the industry in its R&D and capacity building activities
 - **Build a dynamic wireless and broadband R&D ecosystem in the State of Karnataka.**



- **Skill Training in Semiconductor Design & manufacturing Fabrication, ATMP, Sustainable Practices**, among others.
- **Skill Assessment and Recognition** leading to Certification and Recognition from a recognized body
- **Enhancement of employability** leading to increased employment opportunities

- Objective of Lahari is to grow and enable the Indian electronic industry to compete globally and be **certified for safe, sustainable and quality products**.
- Features / Benefits – **ISO 17025 accredited** includes **Mechanical, Environmental, Safety, EMI, EMC testing, Debug Engineering**

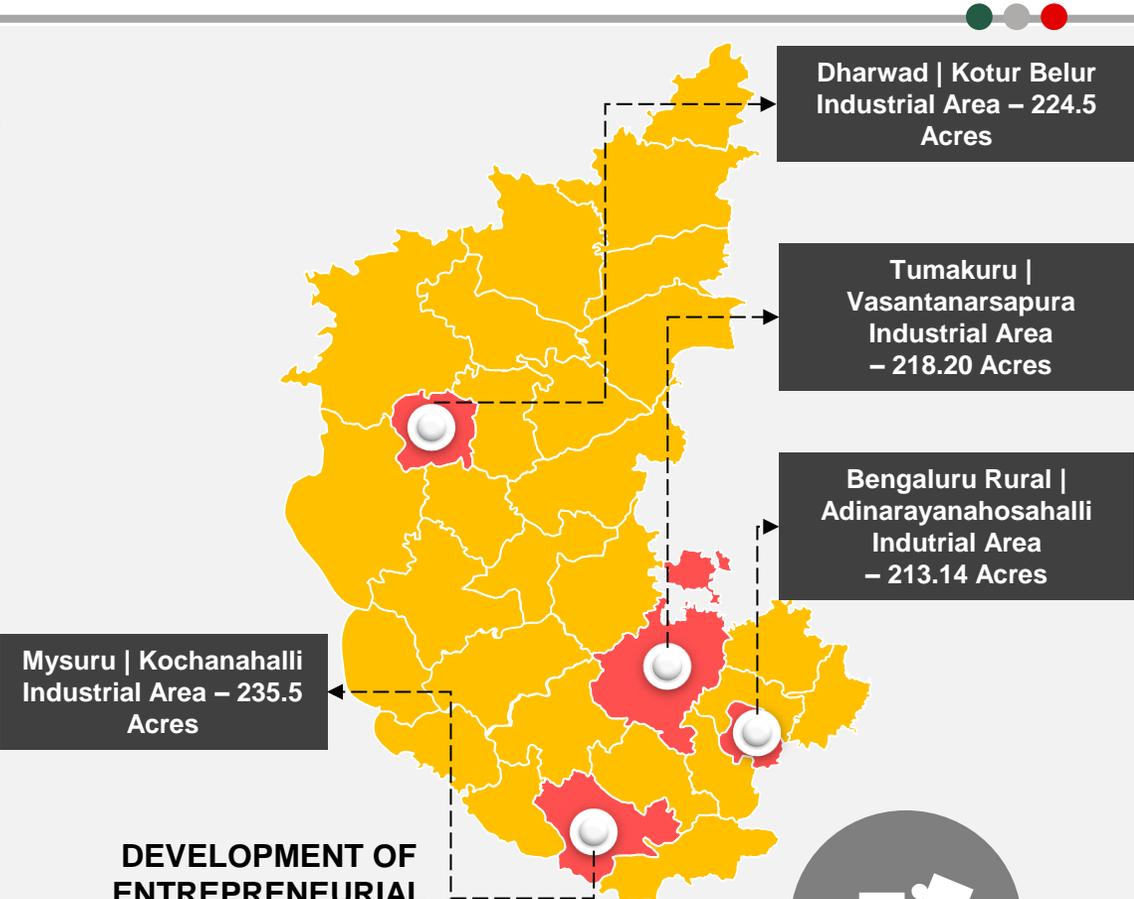
- Hub's objective for **sensor productization**, with a specific focus on **AI-powered acceleration of sensor development** and local manufacturing.
- **Features and Benefits** -
 - **Creating skilled manpower** and employment opportunities
 - **Building an ecosystem** for sensor-focused start-ups
 - **Addressing strategic needs** in critical sectors
 - **Promoting R&D and IP creation**

* Training FAB and CoE in Sensor are at a ideation stage

Karnataka is home to 4 major clusters to promote collocated electronics ecosystem

Electronics Manufacturing Cluster (EMC 2.0) Karnataka

- MeiT Y under Gol introduced (EMC 2.0) Scheme to compliment the efforts to make India an Electronics Manufacturing Hub
- Government of Karnataka has selected 4 land parcels under MeiT Y's EMC 2.0 in the districts of Mysuru, Dharwad, Tumkur and Bengaluru Rural



GROWTH OF ELECTRONICS SYSTEM DESIGN & MANUFACTURING (ESDM) SECTOR

DEVELOPMENT OF ENTREPRENEURIAL ECOSYSTEM



KEY OBJECTIVES



INCREASE EMPLOYMENT

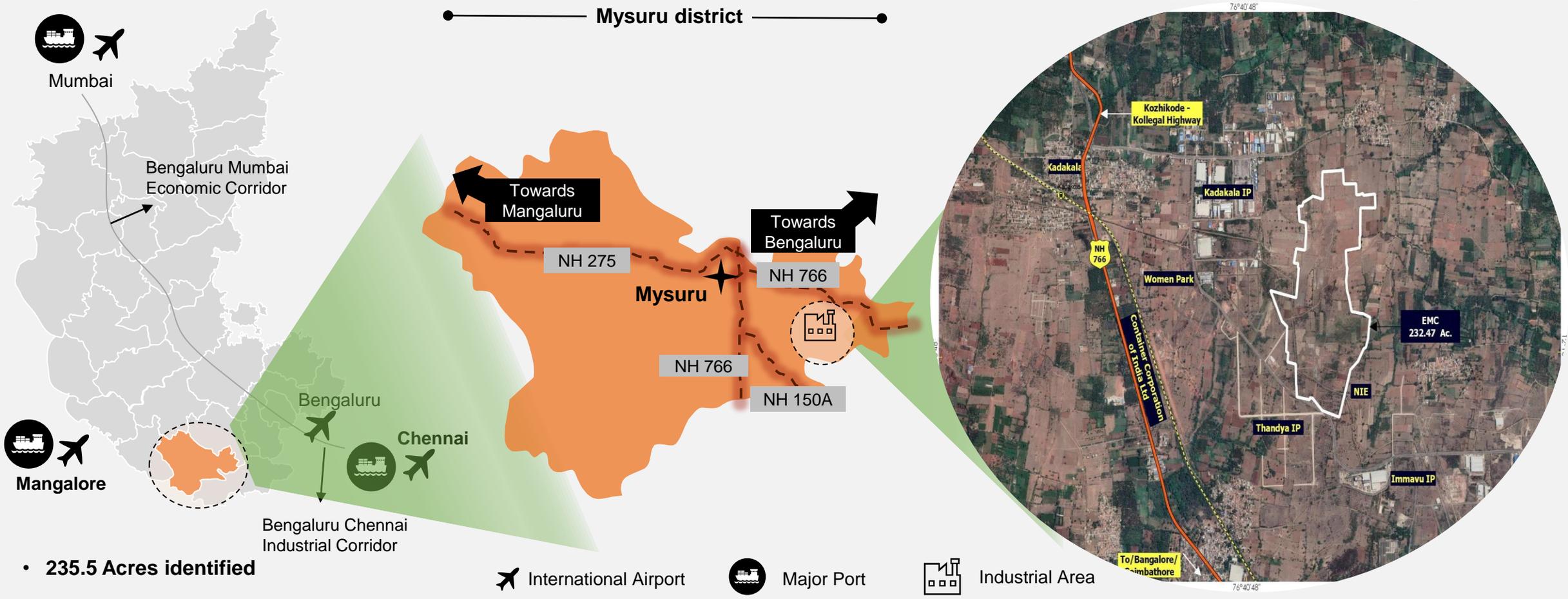


DRIVE INNOVATION

Kochanahalli Industrial Area, Mysuru | Location Details

Total project cost is INR 245.67 Cr

Central Financial Assistance INR 122.83 Cr



- 235.5 Acres identified
- 188.6 Acres of land allotted as the processing area
- 47 Acres is the non – processing area

Kochanahalli Industrial Area, Mysuru



Connectivity

1 Gateways



- ~6 km from Mysuru airport



- ~227 km from Bengaluru Airport



- ~275 km from Mangalore sea port



2 Urban centers

- 162 km from Bengaluru City
- 18 kms from Mysuru



3 Logistics centers

- ~8 km from Kadakola ICD (under development)
- ~143 km from Bengaluru ICD



Industrial Infrastructure



Located 3km from NH-766 (Kozhikode-Kollegal) through 45m wide road developed by KIADB



Two 66/11kV and one 220/66/11 kV having spare capacity for EMC



4 GL Storage Reservoirs of 2.5 MLD and 1 OHT of 0.5 MLD providing 24x7 water to industrial cluster



Skill Centres



- 41 Skill Development Centers around Immavu
- Karnataka German Technology Training Institutes (upcoming)



- Lahari Common Facility Centre, established under the EMC scheme of Government of India, provides high quality testing and certifying facilities.



Existing business eco-system



1 Relevant companies



PEPSCOL



TYCOON



KAYNES



AT&S

Eligibility Criteria under the Special Incentives Scheme for ESDM Sector 2020 -2025

Objective : Promote ESDM sector manufacturing in the state by attracting anchor and complimentary Industries

Minimum Investment Size

Minimum Investment on Eligible Capital Expenditure on Plant & Machinery

- ❑ New Unit- **INR 15 Crores**
- ❑ Existing Unit (Expansion) - **INR 50 Crores**

Employment Generation

For an investment for Eligible Capital Expenditure on Plant & Machinery. categorization on **commitment for employment generation** has been laid out in the Operating Guidelines of the Scheme

Target Segments for Incentives Under Special Incentives Scheme 2020-25

Manufacturing and / or design of electronics products (covered under Karnataka ESDM Policy 2017-22)

- Telecom Systems / Mobiles / IT Systems and Hardware / Consumer Electronics / Medical Electronics / Avionics / Industrial Electronics / Defence & Strategic Electronics / Automotive Electronics / Information & Broadcasting Equipment etc.

- **Semiconductor manufacturing & design** including manufacturing of Semiconductors, ICs, PCBs, bare boards, chip components, chemicals for board manufacture, covered by Karnataka ESDM Policy 2017-22.

Electronic Manufacturing Services including design / IP / software services for electronics products, covered by Karnataka ESDM Policy 2017-22

The products / activities covered by **National Policy of Electronics 2019** of Government of India and Schemes of Government of India such as **Scheme for Promotion of Manufacturing of Electronic Components and Semiconductors (SPECs)** and **Production Linked Incentive Scheme (PLI)**

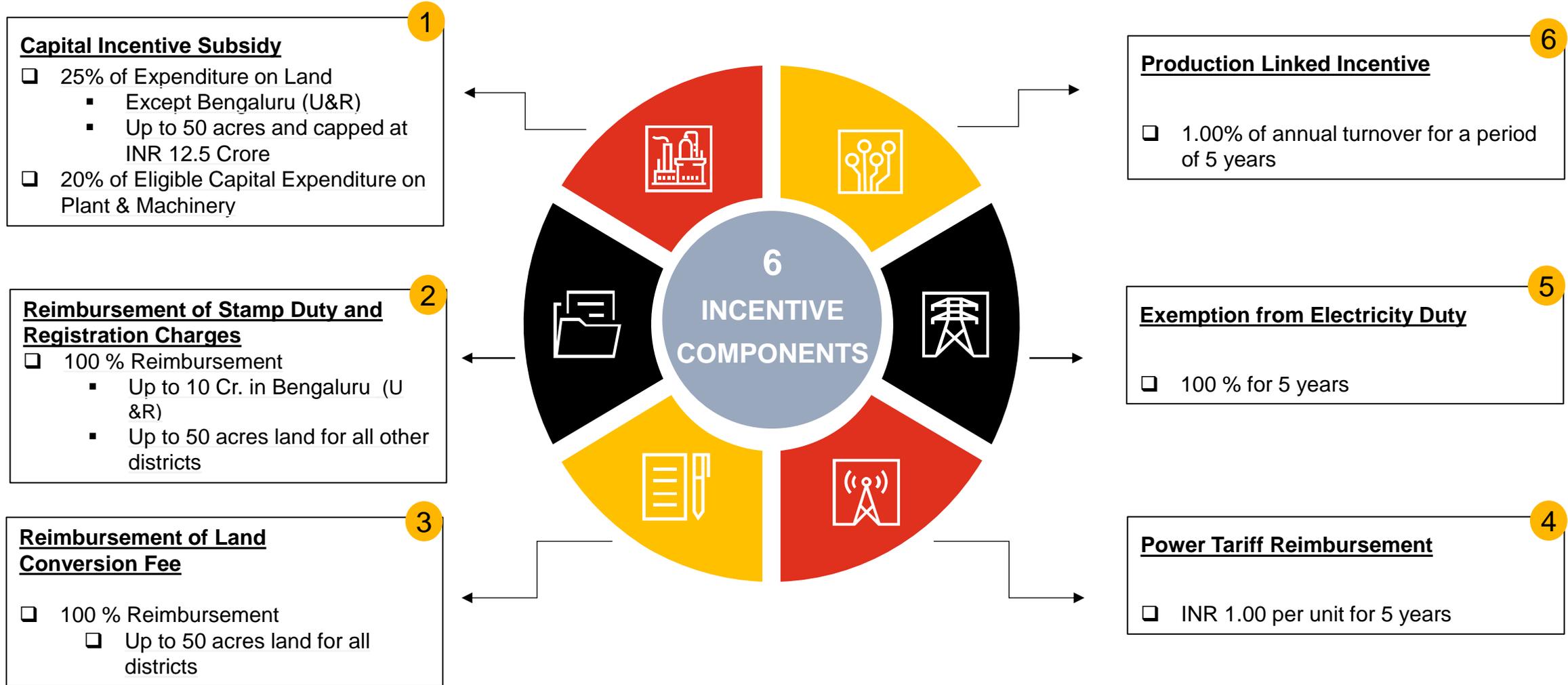
Solar Cells Manufacturing & LED

- Solar Cells Manufacturing - Standalone and with Modules
- LED - Fab, Intermediaries and manufacturing & assembly of LED products.

Other ESDM and its related Target Segments

- That may get approved on case-to-case basis (apart from the other categories)

List of Incentives offered under the Special Incentives Scheme for ESDM Sector 2020 -2025





BENGALURU **2025** TECH SUMMIT

Bangalore International Exhibition Centre

November 19-21, 2025



Event Statistics from 2024



60+
Nations



36
States & UTs of India



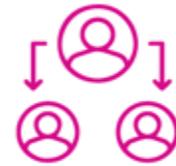
1200+
Exhibitors



100+
Sessions



600+
Speakers



15000+
Delegates



1000+
Investors



5000+
Meetings



20000+
Startup Founders



100000+
Attendees

EVENT partnership for Taiwan

- ❑ Multi-Track Conference
- ❑ Mega Exhibition
- ❑ Future Markers Conclave
- ❑ India - Taiwan Tech Conclave
- ❑ Global Innovation Alliance meet
- ❑ One on one meetings
- ❑ Company visits
- ❑ Global Leaders Conclave
- ❑ Startup Pitching
- ❑ Startup Mentoring
- ❑ R&D - Lab to Market
- ❑ B2B Meeting & Networking
- ❑ Electronics manufacturing cluster tours

**Join us for Bengaluru Tech Summit 2025!
November 19-21, 2025**



Scan to download Karnataka
policies & guidelines



Follow us on
LinkedIn



Scan to download India's electronics
components manufacturing scheme



Join our industry
WhatsApp community

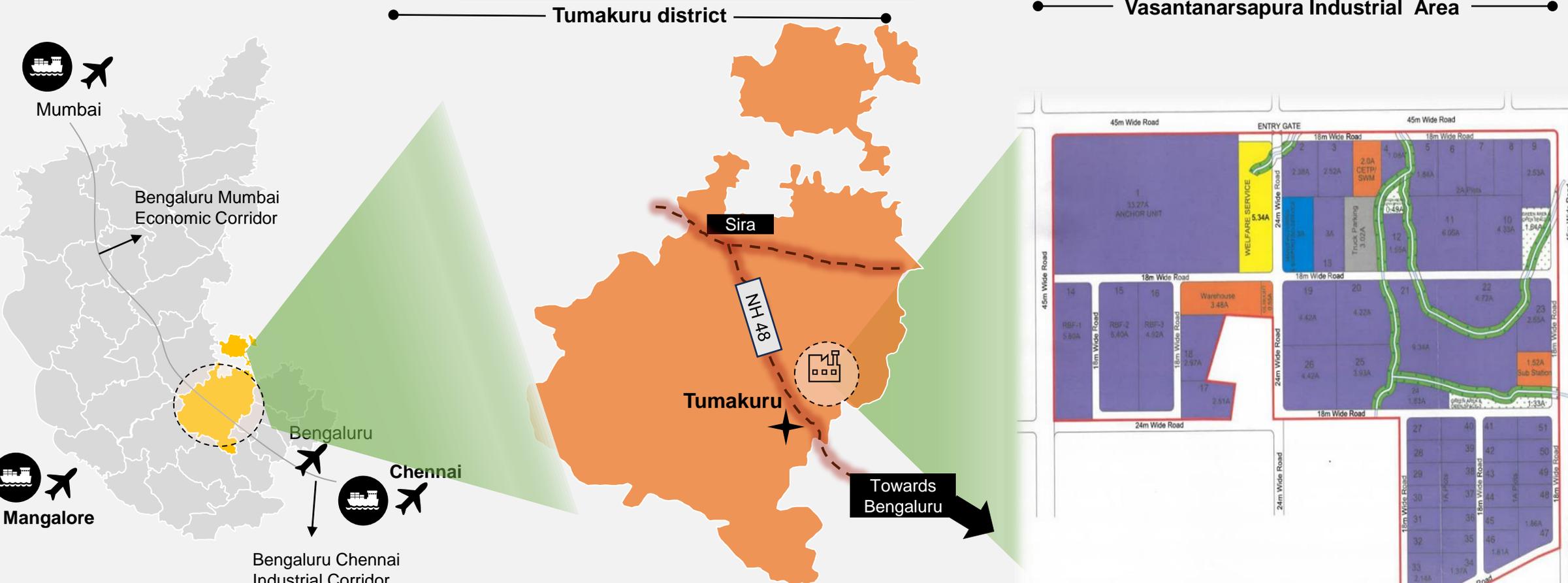


Thank You

Vasantanarsapura Industrial Area, Tumakuru | Location Details

Total project cost is INR 189.35 Cr

Central Financial Assistance INR 94.68 Cr



- **218.20 Acres identified**
- **160.45 Acres of land allotted as the processing area**
- **57.75 Acres is the non – processing area**

International Airport
 Major Port
 Industrial Area

Vasantanarsapura Industrial Area, Tumakuru



Connectivity

1 Gateways



- ~120 km from Bengaluru airport
- ~310 km from Mangalore sea port

2 Urban centers



- 79 km from Bengaluru City
- 173 kms from Mysuru City

3 Logistics centers



- ~110 km from Bengaluru ICD
- ~ 40 Km from VRL Logistics Centre
- ~50 Km from MMLP Dobbaspeta (upcoming)



Industrial Infrastructure



- Located adjacent to NH-4 and AH - 47 (Chennai – Bengaluru Industrial Corridor)



- Facilitated with sanctioned **220 KV** substation at Vasantanarsapura Phase 3



- **5 MLD** facility from Hemavati is available
- **Tertiary Treatment Plant of 30 MLD** at Vasanarsapura Phase 1 (upcoming)



Skill Centres



- ~**30 Kms** from Government Tool Room and Training Centre at Hirehalli Industrial Area
- Infosys foundation Skill Development Center
- Siddaganga Group of Institutions with in **20 Kms of the IA**



- ~ **50 Kms** from Bengaluru International Exhibition Centre



Existing business eco-system



1 Relevant companies



Kirloskar Electric



HMT Watch



WIPRO

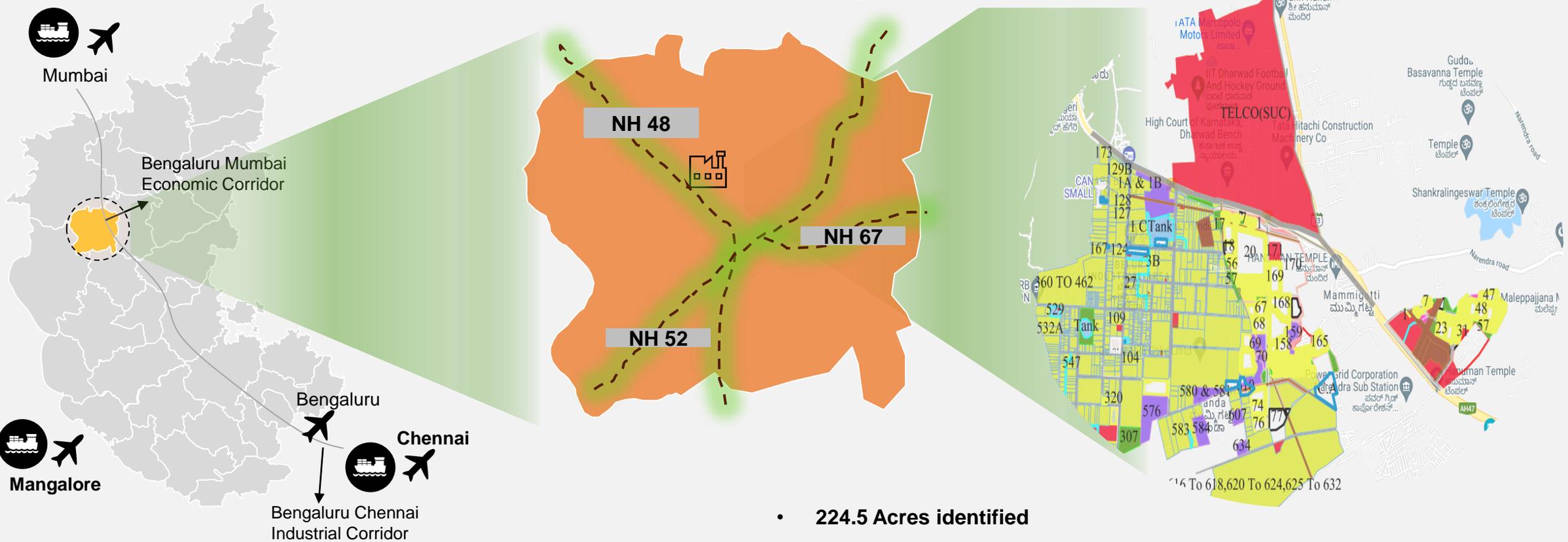


TTP Technologies

Kotur – Belur Industrial Area, Dharwad | Location Details

Total project cost is INR 179.14 Cr

Central Financial Assistance INR 89.97 Cr



International Airport
 Major Port
 Industrial Area

- 224.5 Acres identified
- 193.6 Acres of land allotted as the processing area (86.23%)
- 30.90 Acres is the non – processing area (13.77%)

Kotur – Belur Industrial Area | Well connected location with existing ESDM eco-system offering momentum to new investments

Connectivity

1 Gateways

- ~160 km from Goa int airport
- ~ 168 kms from Goa sea port
- ~ 70 km from Belagavi airport

2 Urban centres

- ~33 km from Hubli
- ~ 16 kms from Dharwad

3 Logistics centres

- ~148 kms from Goa ICD at Verna

Industrial Infrastructure



- **Located adjacent to NH-48** (Bangalore-Pune Highway)



- **110/33/11kv Substation** is sanctioned and work to be commenced



- **Water Source-** Malaprabha River, **12 MLD** allocation available
- Service Reservoir of **12 MLD** is located East and **2 MLD GLSR** - under construction

Skill Centres



- **Presence of Indian Institute of Information Technology, Dharwad**



- **Deshpande Foundation Skill Development Centre**
- **TATA Hitachi JIM** in Dharwad



- **Hubli ESDM Exchange (HEX)** to support start-ups in ESDM areas.

Existing business eco-system



1 ESDM companies

ESDM Companies in vicinity



2 Other companies

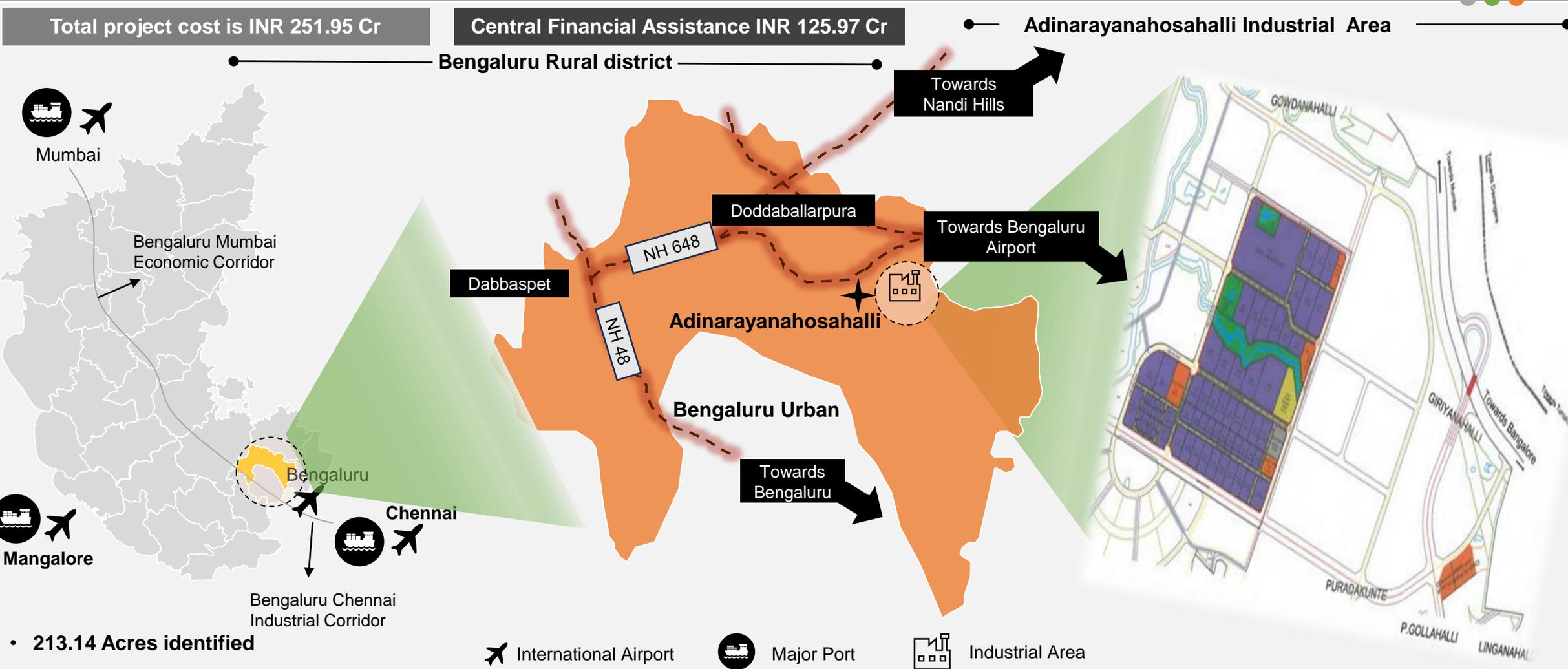


TATA Motors



Tata Hitachi Construction Machinery Co. Ltd

Adinarayanahosahalli Industrial Area, Bengaluru Rural | Location Details



- **213.14 Acres identified**
- **152.47 Acres of land allotted as the processing area**
- **60.67 Acres is the non – processing area**

Adinarayanahosahalli Industrial Area, Bengaluru Rural



Connectivity

1 Gateways



- ~ 25 km from Bengaluru airport
- ~360 km from Mangalore sea port



2 Urban centers



- 60 km from Bengaluru City
- 64 kms from Tumakuru

3 Logistics centers



- ~59 km from Bengaluru ICD
- ~35 Kms from MMLP Dobbaspet
- ~25 Kms from Air Cargo Complex - BIAL



Industrial Infrastructure



- **Adjacent to NH – 648** (Satellite Town Ring Road)
- **10 Kms from SH9 and ~ 15 Kms from SH 74**



- Facilitated with **220 Kv** substation
- **400 Kv** Sub-station in 25 Acres of land (upcoming)



- **Tertiary Treatment Plant of 10 MLD** capacity



Skill Centres



- Amity, Geetham, Chanakya Universities with in ~ 20 Kms of the IA
- ~25 Kms from Skill Centre at Hitech Defense & Aerospace Park,



- ~40 Kms from Electronics Test and Development Centre (ETDC) MeITY , Bengaluru



Existing business eco-system



1 Relevant companies



Foxconn



Volvo



Tata Electronics (Wistron)