SG'S PARTNERSHIP WITH ANDHRA PRADESH

Roundtable on Smart Cities in India

28 Sep 2017

Amaravati golden destination for investors, says Naidu

OUR BUREAU

Amaravati: Chief Minister N Chandrababu Naidu asked the officials of Capital Region Development Authority (CRDA) and Municipal Administration Minister P Narayana to attract investments by highlighting opportunities including abundant water resources and 21 days permission clearance policy.

The CRDA officials will take part in the Infrastructure Round Table meeting which is scheduled to be held in Singapore for three days from September 25.

Discussing with the CRDA officials ahead of their visit, the Chief Minister pointed out that the State had attracted 1.35 lakh investments at industrial summit which was held in Vizag.

In an informal talk with the officials over phone on Sunday, Chandrababu Naidu asked them to give a call to investors and industrialists to invest in Amaravati as it is a golden destination for global investors.

He assured them of best infrastructure and abundant power, water supply and reminded them that the permissions will be ac-

- **Points out that Centre gave Greenfield Smart City status to capital Amaravati**
- **All clearances will be given in 21 days under single window system**
- **Tells CRDA officials visiting Singapore for roundtable meet to showcase growth opportunities of Andhra Pradesh**
- **The CRDA team is led by Municipal Administration Minister P Narayana**

corded within 21 days through a single window system.

He suggested them to inform the international infrastructure companies that government of India gave Amaravati the first Greenfield smart city status and sanctioned Rs 500 crore through Ministry of Urban Development in a phased manner. More funding is all set to follow for the capital, he reiterated.

"I went to Mumbai and convinced Raheja management to invest in Hyderabad. They have agreed to provide a minimum of 100 jobs for each acre allotted to Raheja. In a much better situation, the people's capital Amaravati drew the attention of investors in Japan, Singapore and USA in a short span of time. The

motto of this tour should be to attract infrastructure developers as well as investors by showcasing growth opportunities in Amaravati. My plans about infrastructure development in Amaravati need to be blended with innovative capabilities of infrastructure players in the conference."

Principal Secretary Ajay Jain said, "The roundtable is considered as premium platform for discussion between government representatives, policy makers, investors and infrastructure companies about infrastructure projects in Asia. Our team will present investment opportunities and scope of infrastructure development in Andhra Pradesh, in particular Amaravati. The organisers of the round-table have set up a

separate session for the State and opportunities in Amaravati."

Besides, CRDA Commissioner Cherukuri Sridhar reminded of special cell that has been set up to clear investment proposals and give necessary clearances for investors. He assured that all the process will be transparent and swift action shall be taken to clear infrastructure and investment proposals due to the presence of technical and economy experts.

Commissioner further reminded the quick decision taken by CRDA to clear the proposal of Vellore Institute of Technology (VIT) in a record period of 24 hours.

He said that 1100 companies would attend the meeting in Singapore. Top companies would be invited to invest in projects in Amaravati, he added.

The team members including special commissioner of AP Capital Region Development Authority Rama Manohara Rao, Additional Commissioner S Shan Mohan and CEO of AP Economic Development Board Krishna Kishore are among those who left for Singapore.
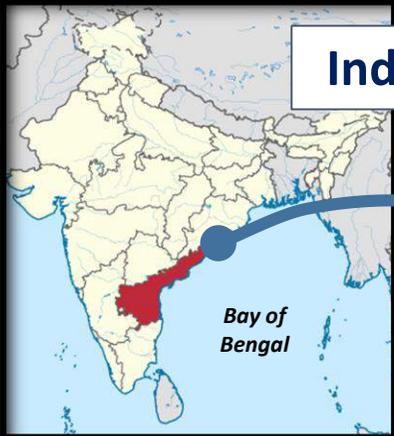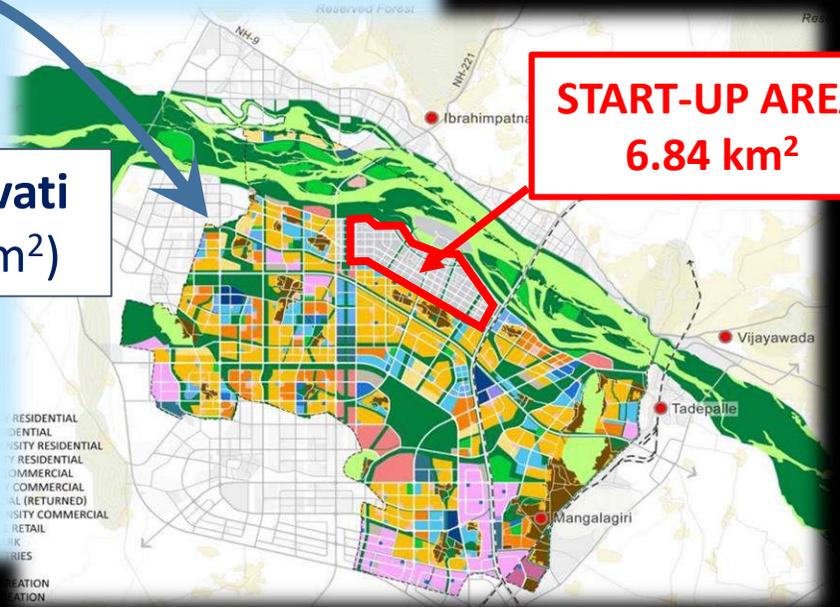
Eighth largest nation by size (2.97 million km²)

Second largest nation by population (1.29 billion)

India

Eighth largest state by size (160,205 km²)

Tenth largest state by population (49,386,799)

Andhra Pradesh

Bay of Bengal

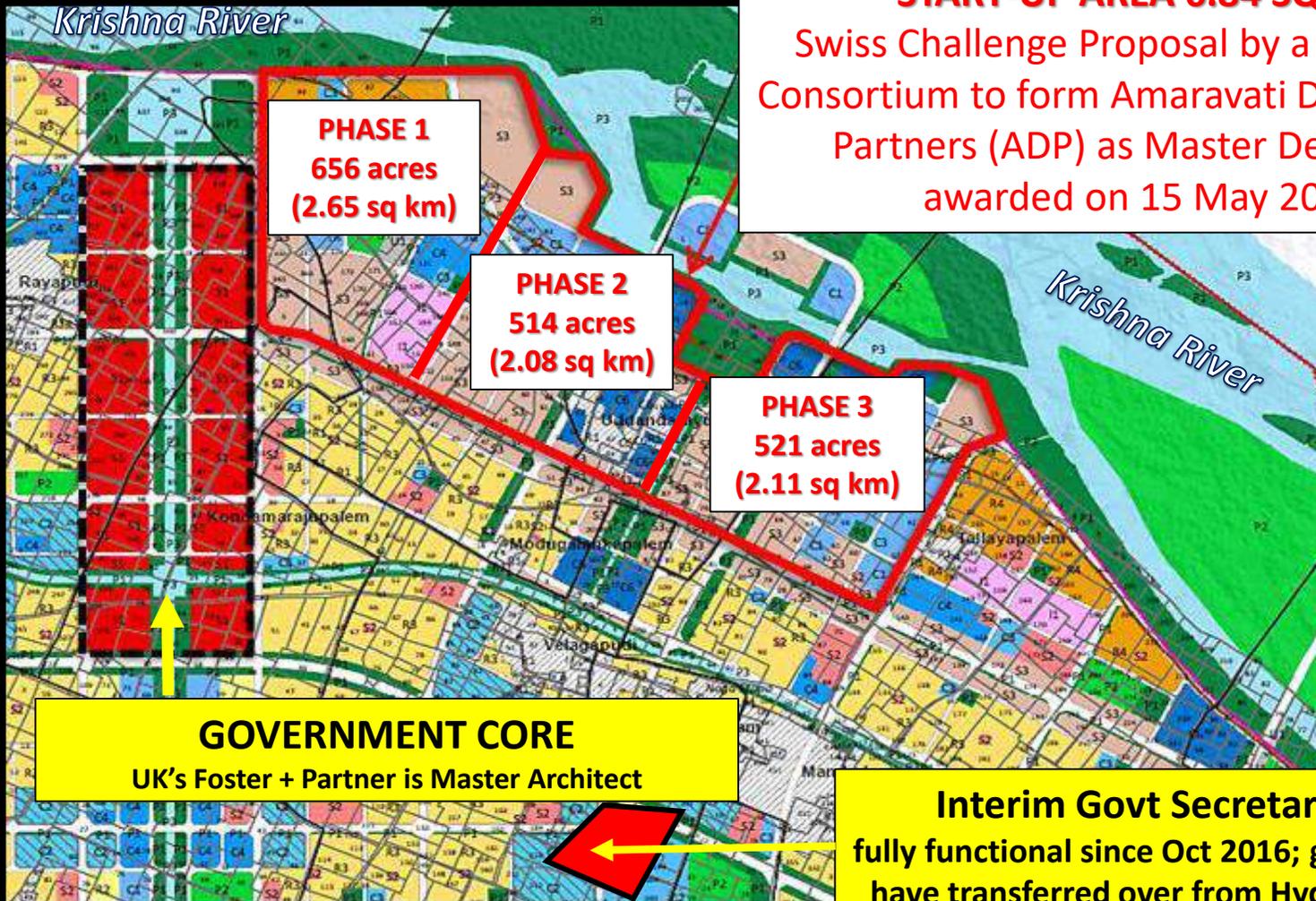Amaravati (217 km²)

START-UP AREA 6.84 km²

100 km

1 : 4 315 616

Bay of Bengal

Reserved Forest

Ibrahimpatna

Vijayawada

Tadepalle

Mangalagiri

RESIDENTIAL
DENTIAL
NSITY RESIDENTIAL
Y RESIDENTIAL
OMMERCIAL
COMMERCIAL
AL (RETURNED)
SITY COMMERCIAL
RETAIL
RK
RIES
REATION
EATION
TA

Krishna River

PHASE 1
656 acres
(2.65 sq km)

PHASE 2
514 acres
(2.08 sq km)

PHASE 3
521 acres
(2.11 sq km)

START-UP AREA 6.84 SQ KM
Swiss Challenge Proposal by a Singapore
Consortium to form Amaravati Development
Partners (ADP) as Master Developer
awarded on 15 May 2017

Krishna River

GOVERNMENT CORE
UK's Foster + Partner is Master Architect

Interim Govt Secretariat
fully functional since Oct 2016; govt staff
have transferred over from Hyderabad

Seed Access Road

To Start-Up Area

Former farmland

Photo: Min(I)

River Krishna

Photo: Min(I)

Former farmland

Existing farm roads (to be re-developed)

Interim Government Secretariat in Amaravati
Since Oct 2016, GoAP no longer administers AP from Hyderabad
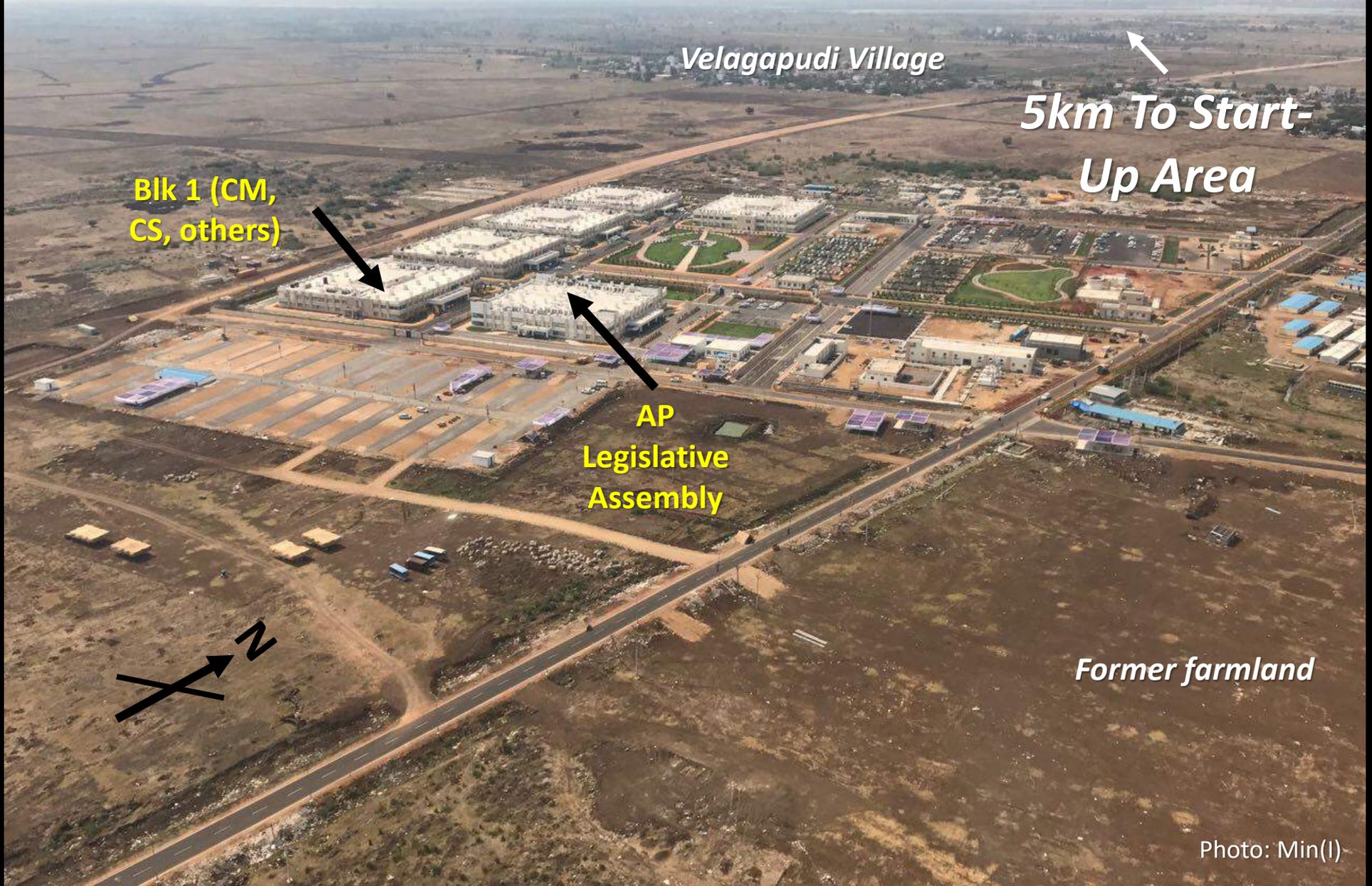
Velagapudi Village

5km To Start-Up Area

Blk 1 (CM, CS, others)

AP Legislative Assembly

N

Former farmland

Timeline

- 2014: BJP won national elections; PM Narendra Modi's "**100 Smart Cities**"

- 2014: **Bifurcation**

- **Master Plans** delivered (Mar to Jul 2015)
    - Capital Region, Capital City and Seed Development Area

- Vision of '**People's Capital**' co-created

- Swiss Challenge Proposal submitted by two SG companies in Oct 2015 for **Master Development** of 6.84 sq km Start-Up Area; Letter of Award on 15 May 2017

INCAP = Infrastructure Corporation of Andhra Pradesh
APLUGP = AP Leaders in Urban Governance Programme (1 week)

Involvement from Singapore

- *ESM Goh's visit (Sep 2014)*
- *Pre-Cab paper (19 Nov 2014)*
- *MOU (8 Dec 2014)*

MTI MINISTRY OF TRADE AND INDUSTRY SINGAPORE

MINISTRY OF FOREIGN AFFAIRS SINGAPORE

Government Ministries and Agencies

CENTRE for **LiveableCities**

International Enterprise Singapore

Building and Construction Authority

Master Planning

SJ SURBANA JURONG

Capital Region, Capital City & Seed Development Area Master Plans (handed over in July 2015)

Master Developer of Start-Up Area

ascendas SINGBRIDGE   sembcorp

A Singapore Consortium that was awarded on 15 May 2017 to be Master Developer of the 6.84 sq km Start-Up Area of Amaravati

Present Situation – Amaravati

- GoAP largely successful with Land Pooling Scheme launched in early 2015; few remaining areas (3 to 4%) being obtained by Land Acquisition

- Under construction

  - 2 Universities

  - 7 arterial roads

  - Seed Access Road

  - Flood Prevention works

- Design being finalised – Government Core

- Tendering

  - Hotels

  - MICE Hub

- Others

Phase 1
internal roads
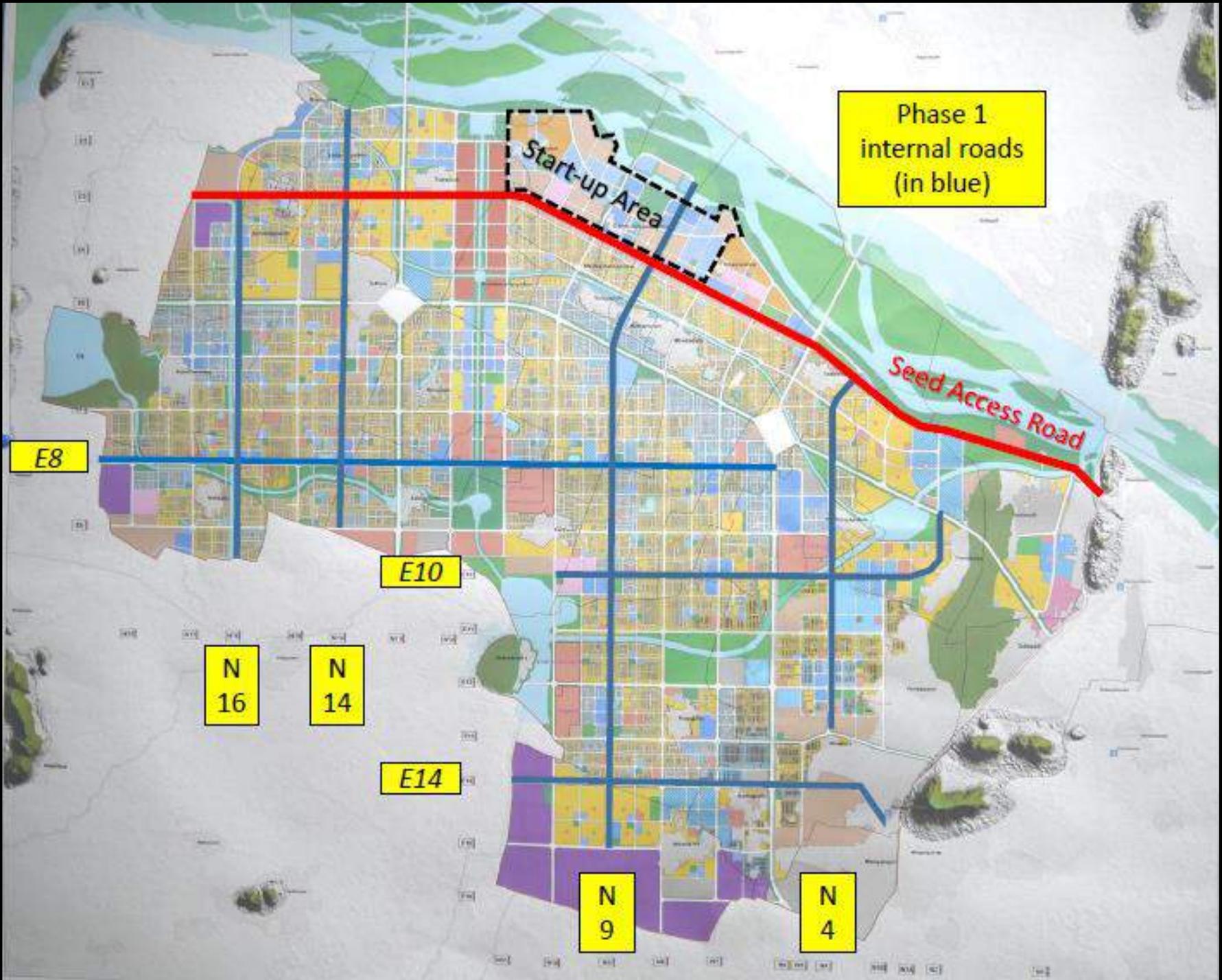(in blue)

Start-up Area

Seed Access Road

E8

E10

N
16

N
14

E14

N
9

N
4

G-to-G MOU signed on 15 May 2017

Three areas:

- **Institutional building**, especially in urban governance (strengthen frameworks and processes, enact relevant legislation, and establish effective institutions),

- **Economic development** opportunities

- **Support Master Development** of Start-Up Area

Two tier engagement structure:

- **Joint Implementation Steering Committee** (**JISC**) co chaired by CM AP and Min(I); to meet once in 6 mths

- **Joint Implementation Working Committee** (**JIWC**) co chaired by Principal Secy CRDA and Snr Dir EMD & APO; to meet once in 2 mths

Amaravati Partnership Office (**APO**) to be formed by each Government

FORGING TIES

Chief Minister N. Chandrababu Naidu felicitates Singapore minister for trade and industry S. Iswaran in Vijayawada on Monday. — DECCAN CHRONICLE

Schedule of Master-developer

2017

- Set up Master Developer – ADP & MC (Management Company)

- Plan for Phase 1 Infrastructure (Master planning, Design and Tender)

- Conduct Feasibility Studies – Soil Investigation / Topographical Survey

2018 / 2019

- Prioritize earthworks and infra development supporting Phase 1

- Phase 1 – Infrastructure Construction: Drainage, Roads, Water, Fire Hydrant Network, Sewerage, Telecom Conduits etc.

- Investment attraction by ADP

Beyond 2019 – complete Phase 1 and continue with 2 and 3

Opportunities for SG businesses

Secure early wins for smaller SG companies to partner SC

- **Roundtable for SC to link up with Singapore sub-contractors and material providers**
- **Consultations to understand challenges for Singapore companies to compete with local firms**

Facilitate opportunities for SG companies across the State of AP

- **Broad based seminar to reach out to Singapore companies**
- **Business Mission to AP coinciding with LOA and MOU signing (in partnership with CII)**

Priorities

Immediate:

- Bring "Singapore standards" and supply chain into the AP start-up area

- Bring Singapore investments (second tier developers or operators) into the start-up area.

Longer-Term:

- Scope specific projects: Tourism development clusters, ICT portals, small-scale grids and water treatment plants for companies in AP

SECTORS

- **Infrastructure Development & Construction**
- **Transport and Logistics**
- **ICT**
- **Tourism and hospitality**
- **Manufacturing**
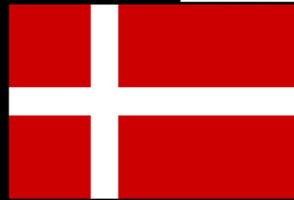- **Power Generation**

IES' outreach to SG businesses

- **Introduced SG Consortium (SC) and AP project – June**
  - For Singapore companies that are ready for immediate participation in AP to be introduced to SC and Master-developer project
  - Singapore Consortium was present and networked
- **Business mission to AP – Aug**
  - IES led a SG Biz Mission to AP
  - Coincided with the 2nd JIWC meeting
- **Promoted AP at Asia Singapore Infrastructure Roundtable (ASIR) event – 26 Sep 2017**
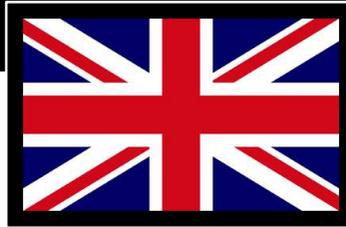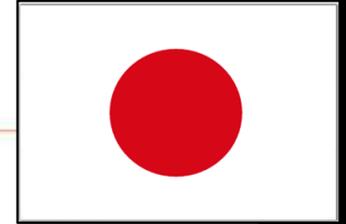 - Presentations by GoAP senior delegation

- **Smart City Development**
- **Health Care**
- **Knowledge Transfer**

- **Industrial Park Development**
- **Infrastructure Development**
- **Power Transmission and Distribution**
- **Building Materials and Manufacturing Park**
- **Knowledge Transfer**

- **Transportation Infrastructure**
- **Government Complex System**
- **Flood management System**
- **Industries**

- **Clean Tech**
- **Solid Waster Management**
- **Smart City Governance**
- **Knowledge Transfer**

- **Cycling tracks**
- **River Front Development**

- **Knowledge Sharing**
- **Joint Working Group**
- **Sister City Partnership with Astana**

- **Master Planning**
- **Knowledge Transfer**

- **Performance Management**
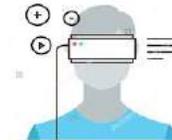- **Integrated Retail**
- **Housing Projects**

ITHASTANA

SLIDES FROM GOAP DELEGATION

Asia Singapore Infrastructure Roundtable

26 September 2017

Marina Bay Sands Convention Centre, Singapore

Future Technologies

| Hybrid Cloud	Cyber Security	Fin Tech	Augmented Reality – Virtual Reality	Block Chain
• 1st state to implement hybrid state data center • To propel the state to the next level of e-governance maturity	• Create 20,000 strong cadre of Cyber Security professionals • CoE for Cyber Security	• World class **center of innovation collaborating** between start-ups, financial institutions	• **IIDT, Tirupati** is planning to offer in next gen technologies including in AR-VR.	• **1st in Asia** to use block chain technology **to fight cyber crime.** • **Blockchain Institute** planned

Real Time Governance – Internet of Things

Internet of Things
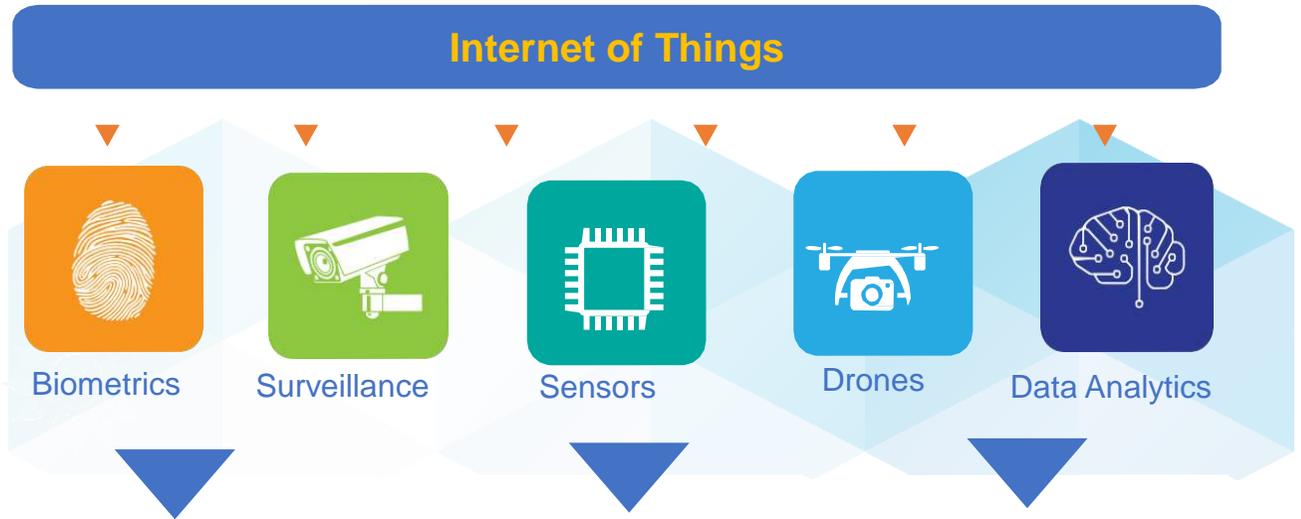
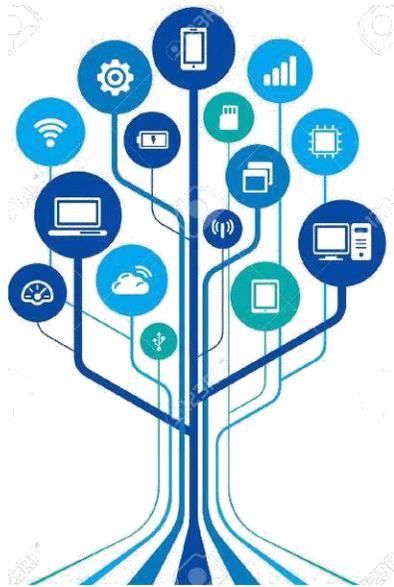| Biometrics	Surveillance	Sensors	Drones	Data Analytics
• Civil Supplies • Pension • Attendance	• Crowd management • Security	• Water levels • Weather • Street Lights • 108 Ambulance services	• Surveillance • Crowd management	• Health • Education • Agriculture

FIBER GRID – Bridging the Digital Divide

Phase 1 – Aerial Fiber Grid

Creating an aerial fiber network by leveraging assets of electricity companies

Phase 2 – Underground Fiber Grid

Creating an underground fiber network covering **12,918 gram panchayats** in State

Coverage

- **15 Mbps connections** will be made available to **1.3 crore households** at ₹149 per month by The Andhra Pradesh FiberNet.
- On-demand availability of **100 Mbps – 1 Gbps connections** for business enterprises.

Benefits

- Access to information at fingertip for citizens
- Effective and faster implementation of various mission mode e-governance projects
- Delivery of range of electronic services in rural areas
- High speed internet connectivity (10-15 Mbps) to all households

Electronics and IT - Clusters

Visakhapatnam

Amaravati

Kakinada

Amaravati: Electronics Park envisaged

Visakhapatnam:
Signature Towers (1 million sq. ft.)
Millennium Towers (300,00 sq. ft.)
400 acres of land identified for IT park Layout

100 acre EMC identified in **Kakinada**

IT HUBS

ELECTRONIC MANUFACTURING CLUSTERS

Anantapur

Anantapur as an Electronics manufacturing and IT Hub: Close to 1000 acres identified

ITIR @ **Tirupati** in Phase I: 150 acres

450 acres identified for EMCs in **Chittoor**

Sricity

EDB
ANDHRA PRADESH
ECONOMIC
DEVELOPMENT
BOARD

Electronics and IT - Clientele

Foxconn in Sri City

BRANDS MANUFACTURED

mi GiONEE
ONEPLUS ASUS
InFocus Microsoft

USD 16 million

2,000 Workforce

Foxconn Plant
(SriCity)

Shri Venkateswara in Tirupati

BRANDS MANUFACTURED

Karbonn Mobiles cromax nothing like anything
CELKON Mobiles LAVA

USD 30 million

1,200 Workforce

Tirupati

ANDHRA PRADESH SMART CITIES

4 Smart Cities (listed by GoI): **Vizag, Kakinada, Tirupati + Amaravati**

6 Smart Cities (identified by GoAP): *Srikakulam, Eluru, Ongole, Nellore, Kurnool & Anantapur*

5 Smart Cities (identified by AP in end Mary 2017): *Kadapa, Chittoor, Machilipatnam, Rajahmundry, Vizianagaram*

As at May 2017

Srikakulam

6 Airports:
- Vizag (**Proposed** – Bhogapuram airport)
- Rajahmundry (Mahdurapudi airport)
- Vijayawada (Gannavaram airport)
- Kaddapa
- Puttaparthi (Sri Satya Sai airport)
- Tirupati (Renigunta airport)

Vizag

Kakinada

Kurnool

Eluru

Ongole

Anantapur

Nellore

Tirupati

Sri City
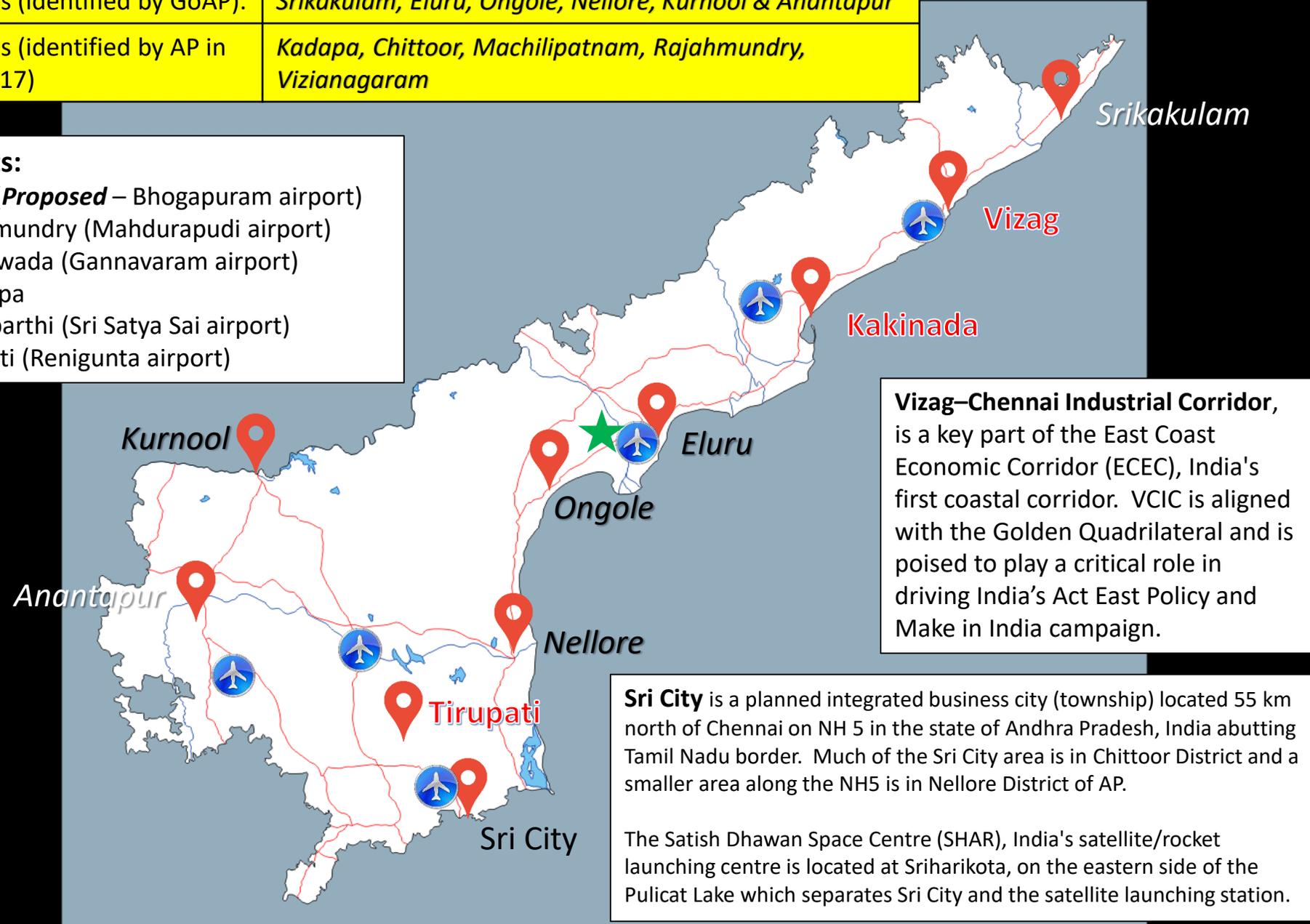
Vizag–Chennai Industrial Corridor, is a key part of the East Coast Economic Corridor (ECEC), India's first coastal corridor. VCIC is aligned with the Golden Quadrilateral and is poised to play a critical role in driving India's Act East Policy and Make in India campaign.

Sri City is a planned integrated business city (township) located 55 km north of Chennai on NH 5 in the state of Andhra Pradesh, India abutting Tamil Nadu border. Much of the Sri City area is in Chittoor District and a smaller area along the NH5 is in Nellore District of AP.

The Satish Dhawan Space Centre (SHAR), India's satellite/rocket launching centre is located at Sriharikota, on the eastern side of the Pulicat Lake which separates Sri City and the satellite launching station.

AP to develop 14 Smart Cities across state

DC CORRESPONDENT
VISAKHAPATNAM, MAY 29

In an effort to decentralise development, the TD government has decided to upgrade 14 cities into Smart Cities. While Visakhapatnam, Tirupati and Kakinada are part of the Centre's Smart Cities Mission, the state will focus on Kurnool, Kadapa, Anantapur, Chittoor, Nellore, Ongole, Machilipatnam, Eluru, Rajahmundry, Vizianagaram and Srikakulam.

Recently, the state government launched special purpose vehicles for implementing its mission in Anantapur, Eluru, Kurnool, Ongole and Srikakulam.

Speaking at the Mahanadu here on Monday, Chief Minister N. Chandrababu Naidu said development should not be confined to the capital Amaravati or major cities such as Visakhapatnam or Tirupati.

"These 14 smart cities will get dedicated indus-

■ **THE STATE** will focus on Kurnool, Kadapa, Anantapur, Chittoor, Nellore, Ongole, Machilipatnam, Eluru, Rajahmundry, Vizianagaram and Srikakulam

■ **VIZAG,** Tirupati and Kakinada will each get ₹500 crore for the next five years

trial park as well as infrastructure. The rate of urbanisation in Andhra Pradesh stands at 29 per cent. Urbanisation accelerates the development of a state and creates more wealth, which has happened in the case of Chennai, Bengaluru, Hyderabad, etc." said Mr Naidu.

Vizag, Tirupati and Kakinada will each get ₹500 crore for the next five years from the Centre, and the state government give an equal matching grant. These cities will go for PPP mode for some projects, while the government will undertake some projects.

For the state-sponsored Smart Cities, funds for the development of these cities will be solely spent by the state government.

Government whip Kuna Ravi Kumar explained that the Smart City proposals in Vizag with an estimated cost of about ₹1,584 crore and in Tirupati at an estimated cost of ₹1,610 crore primarily focussed on the IT component, e-governance and physical and social infrastructure.

"Vizag will get smart schools, 24x7 water supply, public bike sharing, e-rickshaws, efficient urban mobility, disaster management, etc. The area surrounding the airport in Tirupati is being developed into an IT hub and the city will have a waste-to-energy plant. Orvakal in Kurnool district will get an industrial hub in more than 10,000 acres. Piped gas network, science centre, solar rooftops, e-schools are part of the smart city proposals in Kakinada," said Mr Ravi Kumar.

While Visakhapatnam, Tirupati and Kakinada are part of the Centre's Smart Cities Mission, the state will focus on Kurnool, Kadapa, Anatapur, Chitoor, Nellore, Ongole, Machilipatnam, Eluru, Rajahmundry, Vizianagaram and Srikakulam.

Vizag, Tirupati and Kakinada will each get Rs 500 crore (approx. SGD 100 million) over the next five years from the Centre, and the state government will give a matching grant.

SEE YOU IN ANDHRA PRADESH!

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