

AMARAVATI DEEP DIVE WORKSHOP

14, 15 DECEMBER 2017

THE GATEWAY HOTEL, VIJAYAWADA

Liveability | Economic Powerhouse
Infrastructure | Governance



Amaravati Status Report

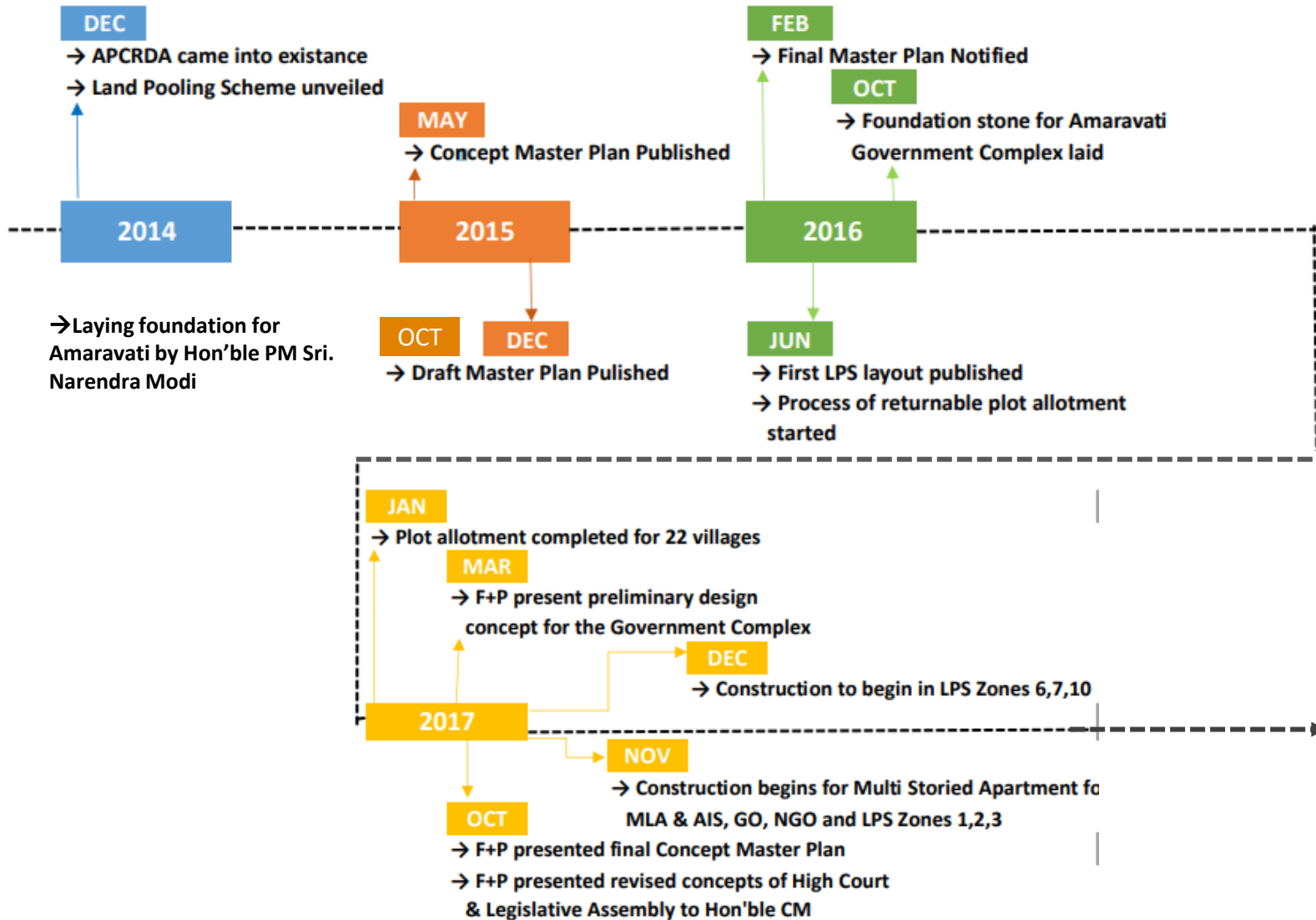
Sreedhar Cherukuri I.A.S., Commissioner , APCRDA



- **Journey this far**
- Innovative Partnership
- Planning and design
- Project status & financing
- Economic development status
- Way forward plan



Amaravati completed 1080 days of journey



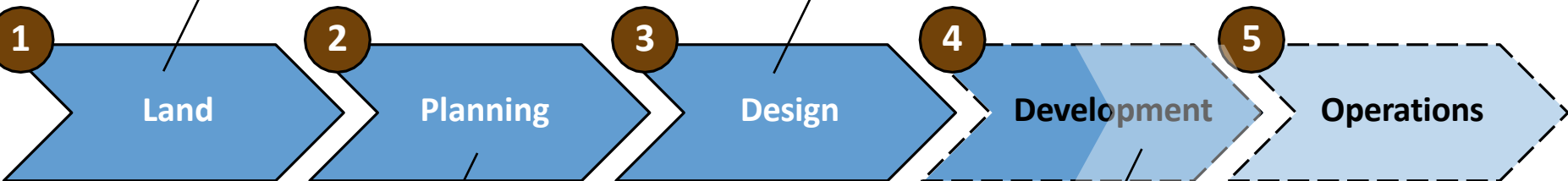


Substantial progress has been made during this period



- Land Pooling Scheme – **91% consented**; 84% entered agreements
- Land Acquisition under process – **to be completed by early 2018**

- **DPRs for Infrastructure** under preparation for all sectors
- **Master Plan for Govt. Complex** by Fosters+Partners
- **Blue infrastructure** designed by Blue consultant
- Green Consultant for **Greenery across the region**

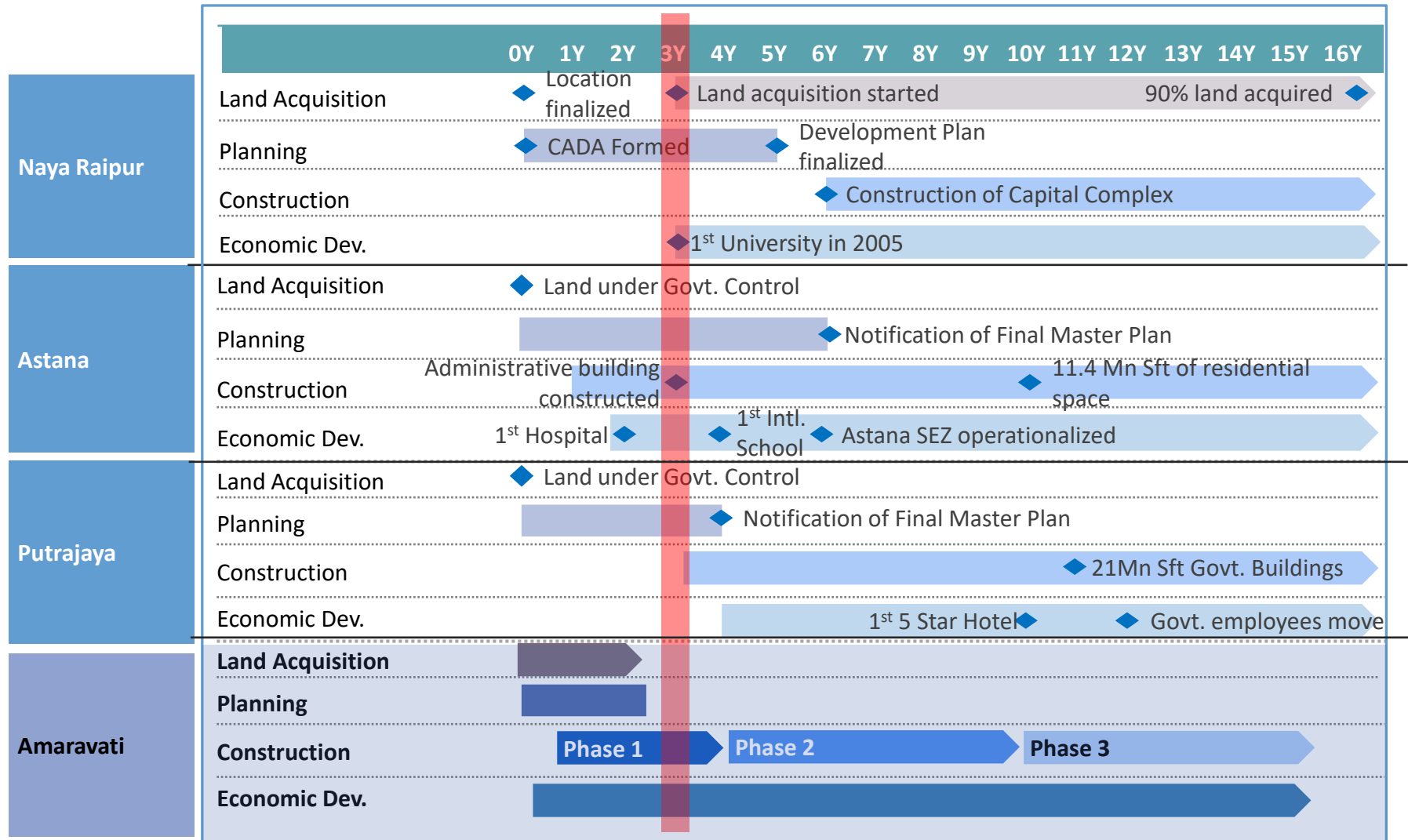


- **LPS Layout Plans drafted** and notified for 22/24 villages
- **Infrastructure Masterplan** finalised
- **Socio-economic Masterplan** prepared, under finalization
- Urban design guidelines prepared for LPS layouts
- **Financing plan for Capital city finalized**

- **Interim Secretariat complex** completed
- Employee **housing under construction**
- Construction of **Trunk & LPS infra in progress**
- Hotels, Schools & MICE under finalization
- Universities – VIT, Amrita, SRM, CITD, NID, AIIMS, IUIH
- **Start-up area activity initiated**



Progress of Amaravati has been rapid when compared to similar developments elsewhere in the world





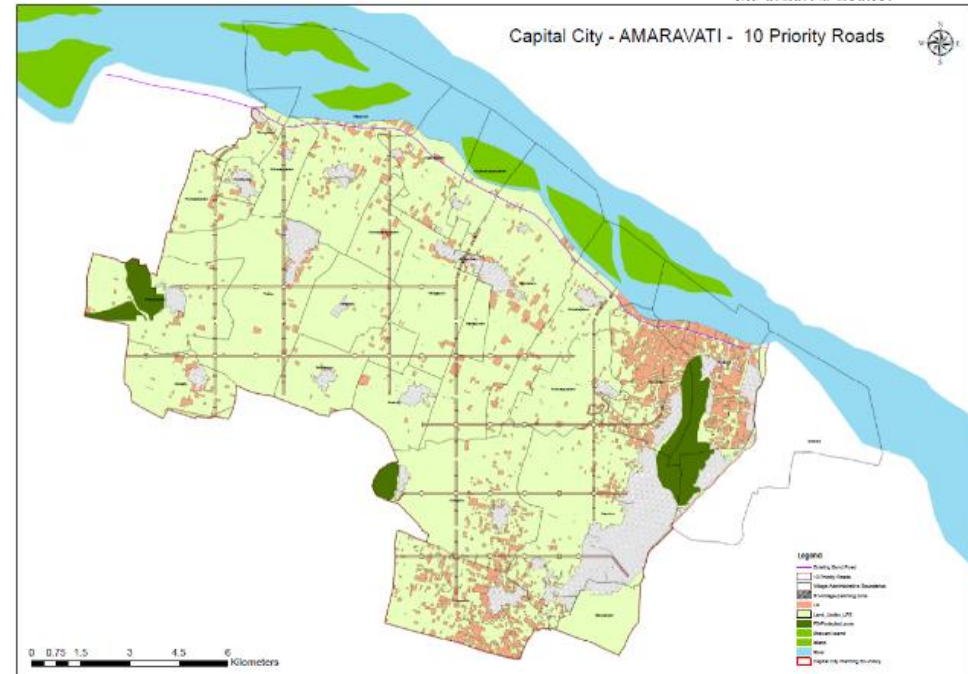
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The first step towards development of Amaravati was procuring land through partnership.



- An Innovative Partnership was undertaken, largest of its kind in the world
- Farmers voluntarily pool their land to the Government, in return for a Residential and commercial plots in a developed layout in addition to monetary and social benefits



Social Safety Net to farmers

Free Education

Jobs

NTR Canteens

Free Healthcare

Support to old

Pensions

Skill Development

Housing

Alternative livelihood

Social benefits

Economic benefits

Returnable plots

Annuity

Crop compensation

Loan waiver



Under this innovative land pooling the Govt. partnered with 26,839 farmers to develop Amaravati.



Innovative Partnership model:

- Conventionally, cities across globe have been developed by single entities (Govt. of private)
- However, under LPS scheme, **26,839 farmers came forward as partners** contributing their land
- Under this massive partnership, not just Govt. but 26,839 families **would work jointly towards the successful development and operations of the city**
- The Government has **made the people a partner in the development**, rather than follow the often coercive land acquisition



Key Highlights:

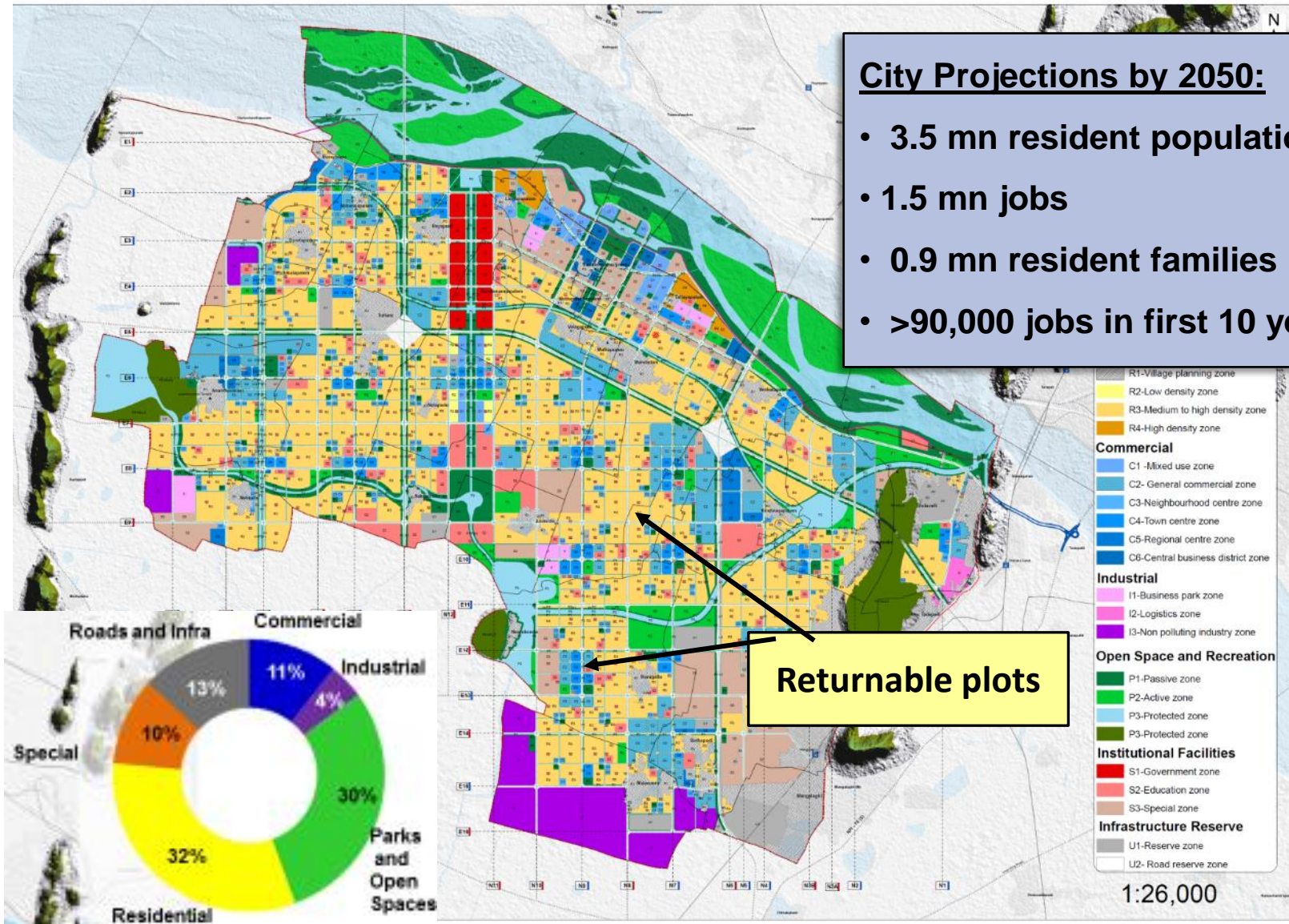
- Land target sought – **38,581 Ac.**
- Consent for LPS – **34,690 Ac.**
- Partnering rate – **90%+**
- Fastest land procurement in history - **over 33,008 acres from 26,512 famers within 6 months**
- Over **59,000 plots** have been handed back to the farmers currently



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Subsequently a Masterplan was prepared and notified, with substantial blue-green elements (~30%).





The City Masterplan has been prepared with sustainable 'Blue- Green' elements



City Masterplan by Surbana Jurong

- City designed with the objective of being **the “Happiest city” in the world**, hosting over 3.5m population by 2050
- Masterplan prepared with over 30% blue-green spaces
- **Existing villages kept intact**, incorporated into plans
- High emphasis on **sustainability and inclusive urban planning**
- Public transportation and non-motorized vehicles key to everyday life in Amaravati



Population
3.5 million by
2050
(1.5m jobs)



1600km+ of
cycle tracks
across the city



\$35bn GDP
by 2050



The neighbourhoods are planned with urban design that supports walking, cycling and public transport.



- **Inclusive community design principles** followed for design of the neighbourhoods; **5-10-15 principle**: 5 minutes to emergency facilities; 10 minutes to open spaces; 15 minutes to work
- **Over 1600+ kms of cycle and walk ways** across the city designed
- **Seamless integration with existing villages** and habitations
- **Innovative and best in class Infrastructure designs adopted**



Vibrant and inclusive communities



Walk to work, within 15 minutes using public transport



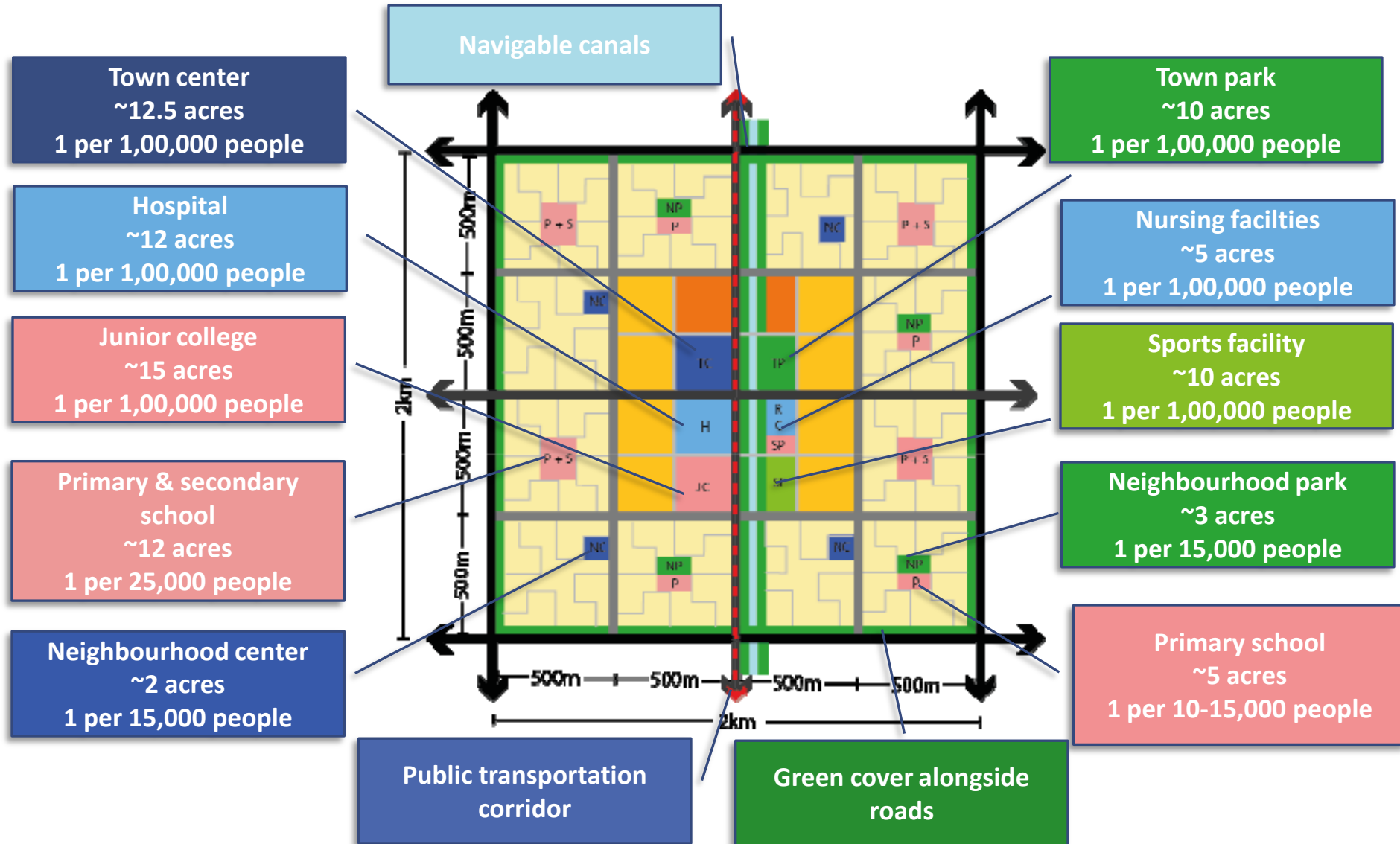
All required social infrastructure within 10 minutes walk



India's first cycle-friendly city



Amaravati designed as the most livable and sustainable urban space





World class Smart and Sustainable Infrastructure have been planned.



- **Sustainable and best-in-class Infrastructure** being planned across all sectors, by GIIC, China & Aarvee Associates
- **Smart Infrastructure** planned for centralized and proactive Infrastructure maintenance and management
- Total Infrastructure to be developed in **next 3-5 years over Rs. 20,000Cr**
- **Construction commenced**



**Integrated
Command/
Control
centre**



**Adaptive
Traffic Control**



**Security /
CCTV**



**City-Wide
WiFi Access**



**Electric Cars
and buses
charging
points**



**Distributed
solar
generation**



**Smart grid
and
distribution**



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Government Moved to Amaravati – in 22 months of journey



- Government of Andhra Pradesh shifted from Hyderabad to Amaravati, to the **Interim Govt. Complex** in Velagapudi, Amaravati.
- 6 blocks - **6,00,000 sq. ft.** - operationalized in record period of **192 days**
- About **6000 employees** started functioning from October 2016







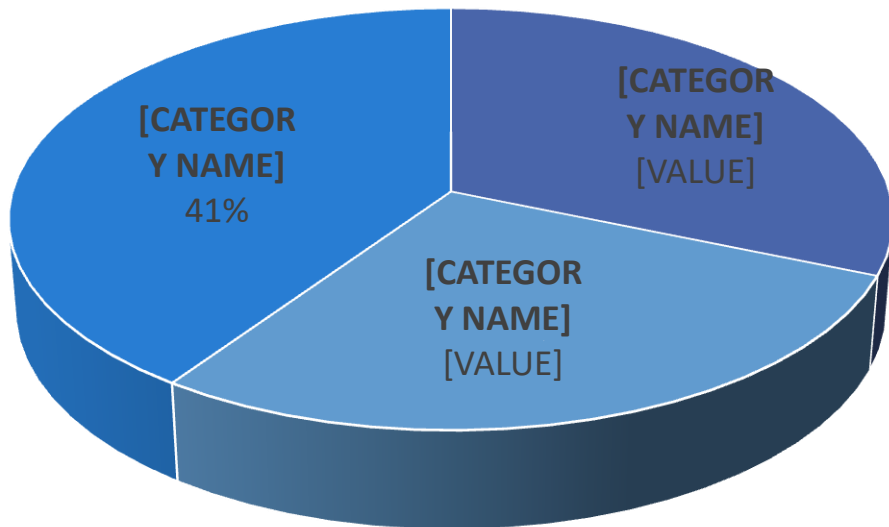
TRANSIT GOVT. COMPLEX BUILDINGS







These projects are currently in different stages with substantial portion under post tender phase...



Status	Project Cost (Rs. Cr)	Percentage of Overall
Under Execution	13,500	31%
Under Procurement	11,895	28%
Pre Tender*	17,579	41%
Grand Total	42,974	100%

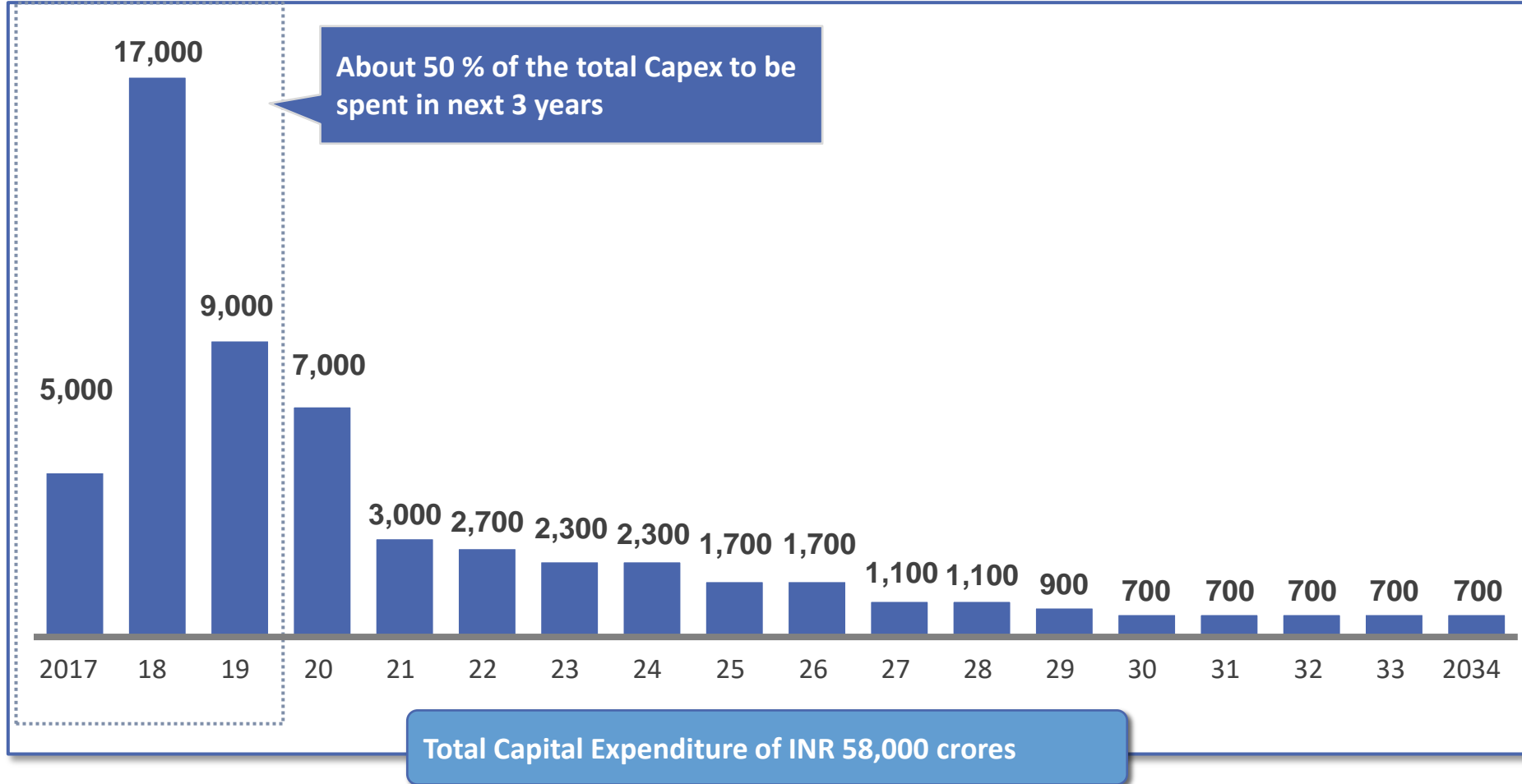


An estimated capex of US\$9 Bn to be spent for developing Amaravati's infrastructure in the next 20 years...



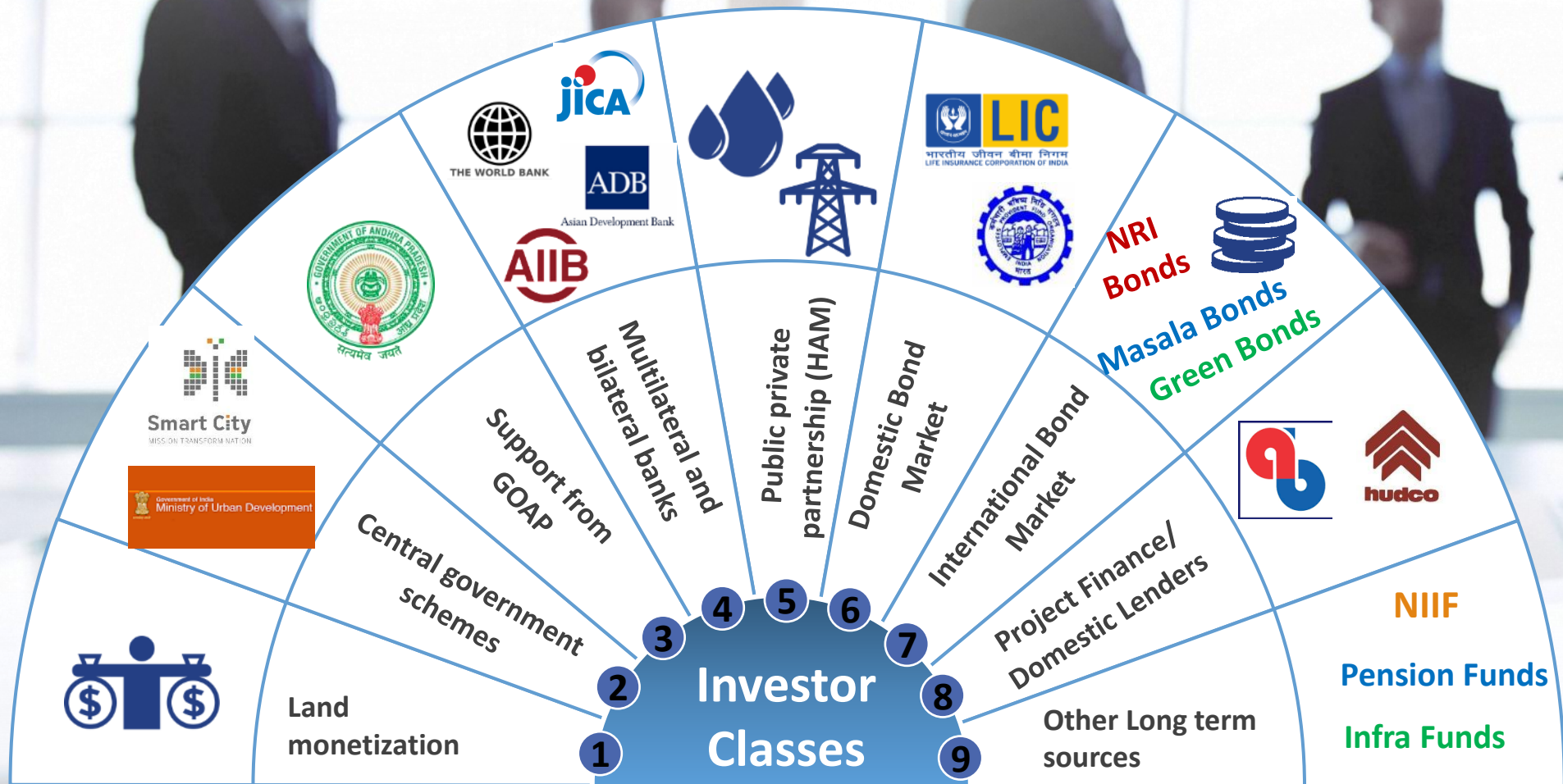
Annual Infrastructure Capital Expenditure

INR Crore





.... and various funding sources have been tied up for these projects.

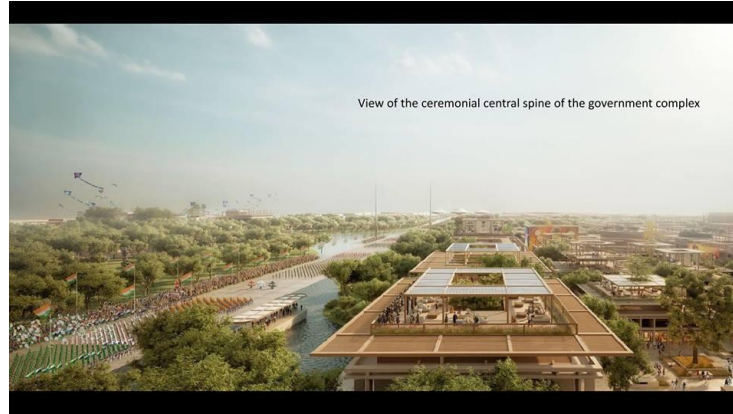




Amaravati Government Complex planned as a sustainable precinct is spread over ~1,350 acres



- Master Plan being designed by world-renowned architects **Foster + Partners**
- **Sustainable buildings with vibrant public spaces**
- Emphasis on micro-climate management, sustainable mobility and pedestrian-friendly streets
- **Navigable and recreational canals** of over 15km planned through the precinct
- Riverfront area to be developed as **mixed-use area for Commercial and recreational use**, for the people of Amaravati





AGC includes iconic buildings of Assembly, High Court, Secretariat along with other offices and housing



Amaravati Government Complex has the following key components:

Category	Projects	Total Cost (Rs. Cr.)	Current Status	
			Under Execution	Pre Tender
Iconic Buildings	<u>Assembly & High Court</u> Legislative Assembly - 1.1 mn sq. ft.* High Court – 2.5 mn sq. ft.**	2,229	-	2,229
	Secretariat & HoD Buildings- 3.8 mn sq. ft.	2,728	-	2728
Housing	<u>Apartments</u> For AIS officers, MLAs, GOs & NGOs; 3,840 units ~8.46 mn sq. ft.	2123	2123	-
	<u>Bungalows</u> For Ministers, Judges & Sr. AIS; 194 units over 0.96 mn sq. ft.	760	-	760
Infrastructure	<u>Total Length – 147 km</u> Tier 2 infra over 1,360 Acres, Blue-Green & District cooling	1,773	-	1,773
Total		9,613	2123	7490

*Includes parking area of 3 lakh sq. ft.

**Includes parking area of 10 lakh sq. ft.



Legislative Assembly latest concept design options

Screen Façade Option:





Legislative Assembly latest concept design options

Screen Façade Option:





Legislative Assembly latest concept design options



Spike Option:





Legislative Assembly latest concept design options



Spike Option:





High Court finalized concept design.





Secretariat & HoD Complex latest concept design

Finalised Concepts





Multi-storied Housing for Government staff elevations.



Non Gazetted officers Elevation



AIS apartment Elevation



Gazetted officers type I Apartments Elevation



MLA/MLC Apartment Elevation



On-ground rapid progress of Multi-storied housing construction.

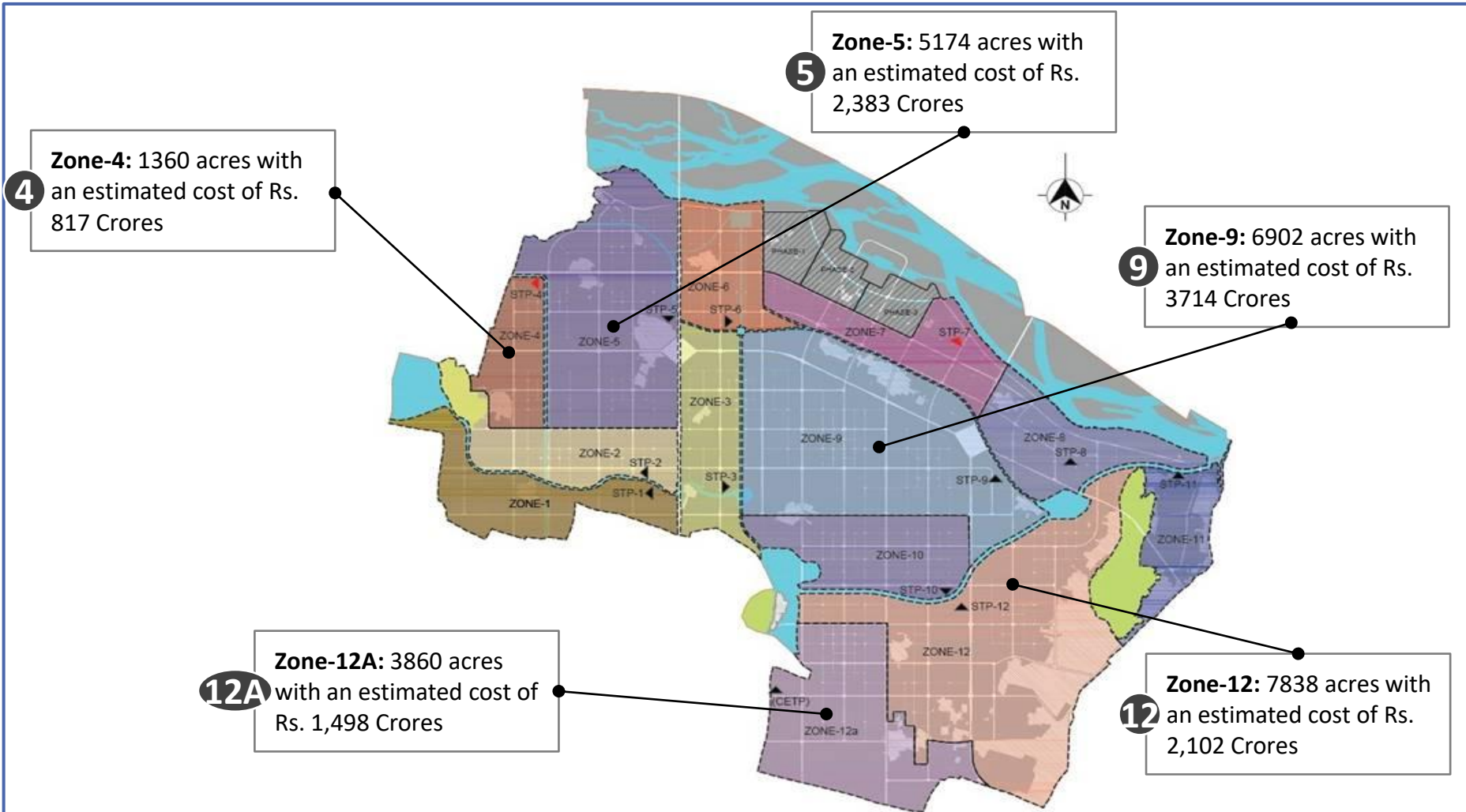




Infrastructure Works...



5 of 13 LPS Zones (~Rs. 10,000 Crores) are being developed under the innovative Hybrid Annuity Model (HAM).



Each zone to cover asset classes across roads, bridges, water, sewerage, power & ICT



Last mile infrastructure (LPS)– 67% of the construction works started.



Category	Projects	Total Cost (Rs. Cr.)	Current Status	
			Under Execution	Pre Tender
LPS Zones under EPC	<u>Total Area – 7,158 Acres</u> Integrated Infra for Zone- 1,2,3,6,7 & 10 Covering 25 villages partly	5,076	5,076 (100%)	-
LPS Zones under HAM	<u>Total Area – 13,401 Acres</u> Integrated Infra for Zone- 4,5,9,12 & 12A Covering 4 villages fully & 2 villages partly	9,896	6,914	2,982
Other LPS Zones	<u>Total Area – 3,439 Acres</u> Integrated Infra for Zone-8 & 11 Covering 2 villages fully & 2 villages partly	1,100	-	1,100
Other Tier-2	Start-up Area, Industrial Park & Village Infra	1,673	-	1,673
Total		17,745	11,990	5,755



World class and sustainable and smart infrastructure.

COLLECTOR - 25METER

- Over 277km
 - Connects the township and its streets
 - Only connected to sub-arterial roads
- Cross-section



LOCAL - 17M, 15.6M OR 12M

- Over 1100kms
 - Urban streets promoting safe pedestrian and NMT movement
 - Promotes active and vibrant public realm
- Cross-section





Planned to become the India's 1st dug free city





Trunk infrastructure (at city level)– 70% of the construction works started.



Category	Projects	Total Cost (Rs. Cr.)	Current Status	
			Under Execution	Pre Tender
Key Roads	<u>Total length – 115 km</u> Seed Access Road, 7 Priority Roads, 3 additional Priority Roads & Iconic bridge	3,547	2,046 (57%)	1,500 (43%)
Key Road's Utilities Infra	<u>Total Length – 92 km</u> Utilities along Key Roads covering water supply, storm, Power & ICT ducts	2,094	2,094	-
Remaining Roads & Utilities	<u>Total Length – 147 km</u> Remaining Roads + Utilities (water supply, WTP (190 MLD), storm water, power & ICT)	7,142	7,142	-
Flood Management	Vagu development & reservoir	1,322	-	1,322
Others	EHV Re-routing	1,096	-	1,096
	Solid Waste & Green Works	416	-	416
TOTAL		15,617	11,282	4,334



Snapshots of Roads and pumping station works

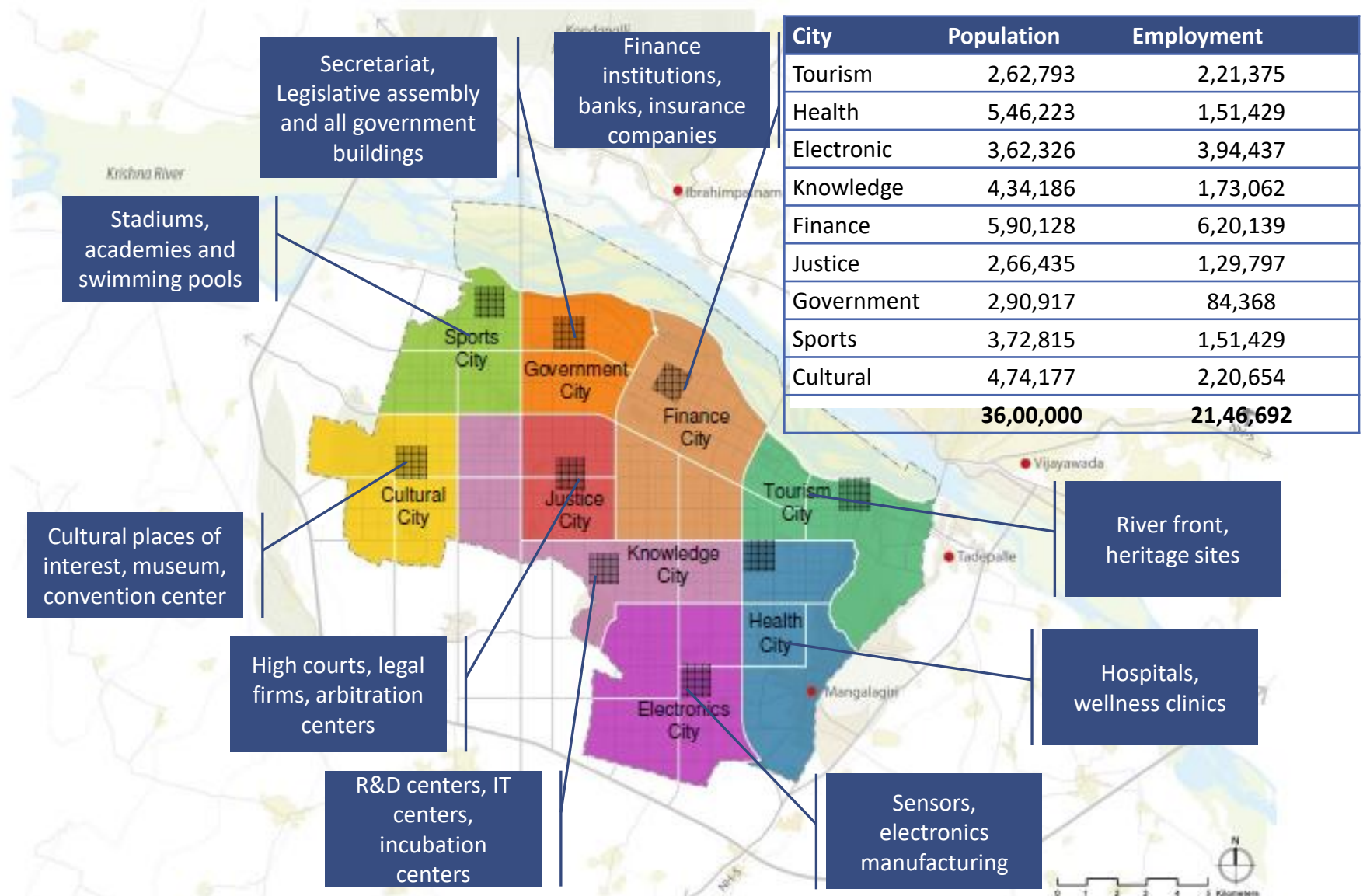




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There are 9 thematic cities that have been identified in Amaravati

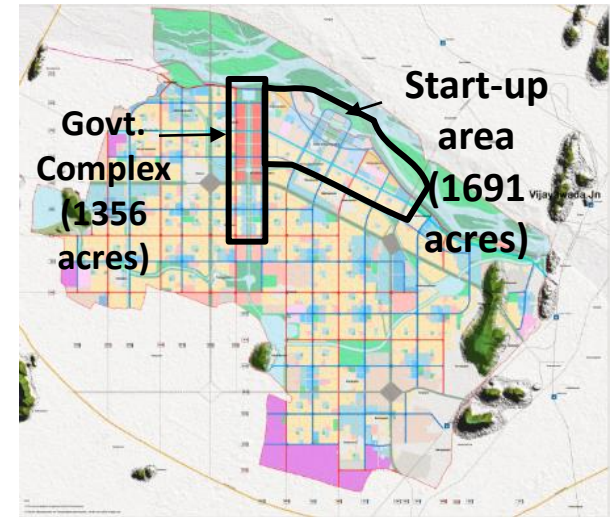




The Start-up area within the Finance city promises to provide the city with a strong economy.

Start-up area

- Swiss Challenge
- Amaravati Development Partner (ADP), a Joint Venture between the Singapore Consortium consisting of **Ascendas- Singbridge and Sembcorp**, and Amaravati Development Corporation is developing the Central Business District of Amaravati.
- ADP will develop
 - At least 8 lakh sq.ft. of commercial space
 - Development of **656 acres in Phase I**, 514 acres in Ph-II and 684 acres in Ph-III
 - Infrastructure for overall area
- This is estimated to have the below impact:
 - Growth in resident population: **1,25,000 families**
 - **Jobs expected to be created: 2,50,000**
 - Cumulative Contribution to the GSDP: ₹ 1,15,000 Cr





Snapshot of the key projects grounded in Amaravati (1/2).

Inauguration of SRM University



Inauguration of VIT University



Foundation Stone of INDO-UK Institute of Health



Foundation Stone of BRS Medicity





In addition many other Central Govt. projects Snapshot of the Project Status



Projects at various stages of progress



राष्ट्रीय डिज़ाइन संस्थान
NATIONAL INSTITUTE OF DESIGN



Central Institute of
Tool Design



शरीरमाद्यं खलु धर्मसाधनम्



BIS



AMRITA
VISHWA VIDYAPEETHAM
DEEMED TO BE UNIVERSITY



INDIAN NAVY



State Bank of India



Relationships beyond banking.



NABARD



भारतीय जीवन बीमा निगम
LIFE INSURANCE CORPORATION OF INDIA



LV Prasad Eye Institute



Comptroller and Auditor
General of India



For the greater good



Multiple schools have been invited to set-up schools in Amaravati; 8 reputed schools have been issued LoA

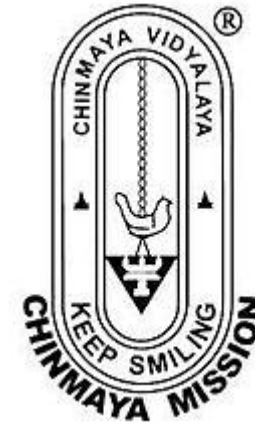


Global Indian
International
School

RYAN



EXCELLENCE IN EDUCATION
&
ALL ROUND DEVELOPMENT



SCOTTISH HIGHTM
INTERNATIONAL SCHOOL
GURGAON



The Heritage School

Schooling for Tomorrow, Schooling from Tradition
An ISO 9001:2008 & ISO 22000 : 2005 Certified Institution



On similar lines, hotels are also in the process of being allocated and MICE is being developed.

Hotels



- MICE Hub - Convention centre

- 45 acre river-front property to be developed with a 5,000 pax convention centre
- 5-star hotel also included in the development area
- Approx. project cost – 1000Cr.
- 4 bidders have come forward under RFQ process





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The Journey has started crossed the critical milestones..

Thank You.





Subsequent to IGC, following Infrastructure & buildings were identified for Phase-I development.

Village Infrastructure	Tier-2 Infrastructure - By APCRDA
LPS Infrastructure*	
<i>Power</i>	
<i>Water</i>	
Startup Area - Tier-2 Infra	Buildings - By APCRDA
Industrial Area Tier-2 Infra	
Government Complex	Trunk Infrastructure - By ADC
Social Infrastructure	
Roads Infrastructure	
Water & Sewerage	
EHV line rerouting	
Power Infrastructure	
Telecom	
Solid Waste Management	
Gas	
Utility Duct	
Green Works	
Flood Management	