

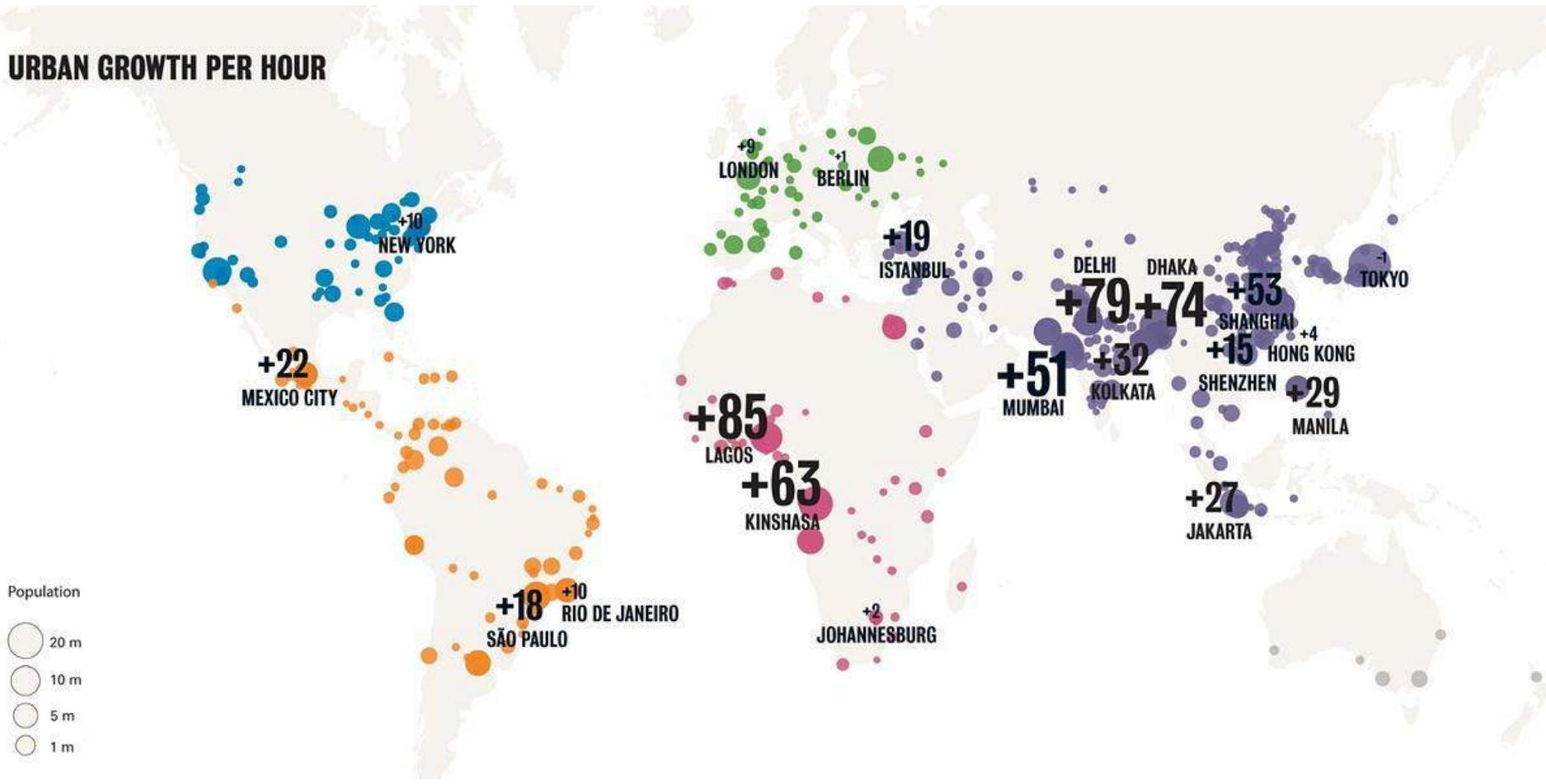
# **TRANSFORMATION OF URBAN PLANING CULTURE IN INDIA- THE PROMISE OF MOHUA SUBSCHEME ON LAP AND TPS**

**Dr. SASWAT BANDYOPADHYAY  
PROFESSOR**

**NOVEMBER 26, 2018**

The land cover of most Indian cities will at least double or triple over the next three to four decades

# URBAN GROWTH PER HOUR



Population

- 20 m
- 10 m
- 5 m
- 1 m

Source, LSE Cities, 2017

It is costly and difficult to upgrade haphazard sprawl that lacks a basic grid of streets





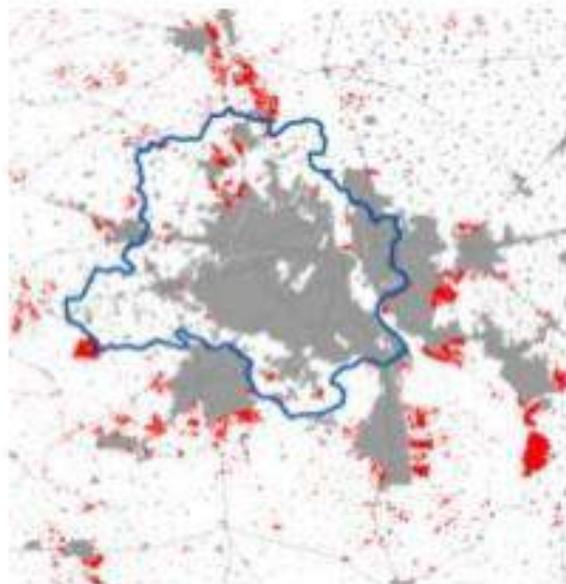
Unfortunately, Indian cities appear to be headed in the direction of many Latin American and African cities..

This is leading to:

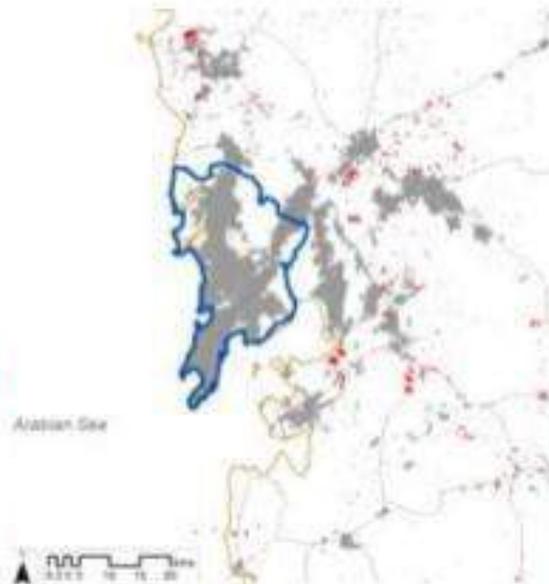
1. Expansion of cities in their peripheries
2. Redevelopment of already built-up areas in towns and cities

For Sustainable Urban Habitats in India -Both Peripheral expansion and in-city redevelopment both need to be well-managed

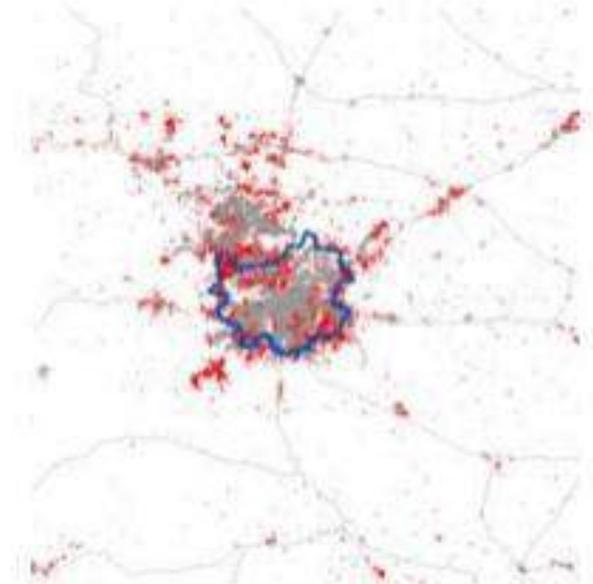
## Inevitable **Urban Expansion** in Indian Cities...



Delhi NCR  
54 sqkm/ year



Mumbai  
5 sqkm/ year



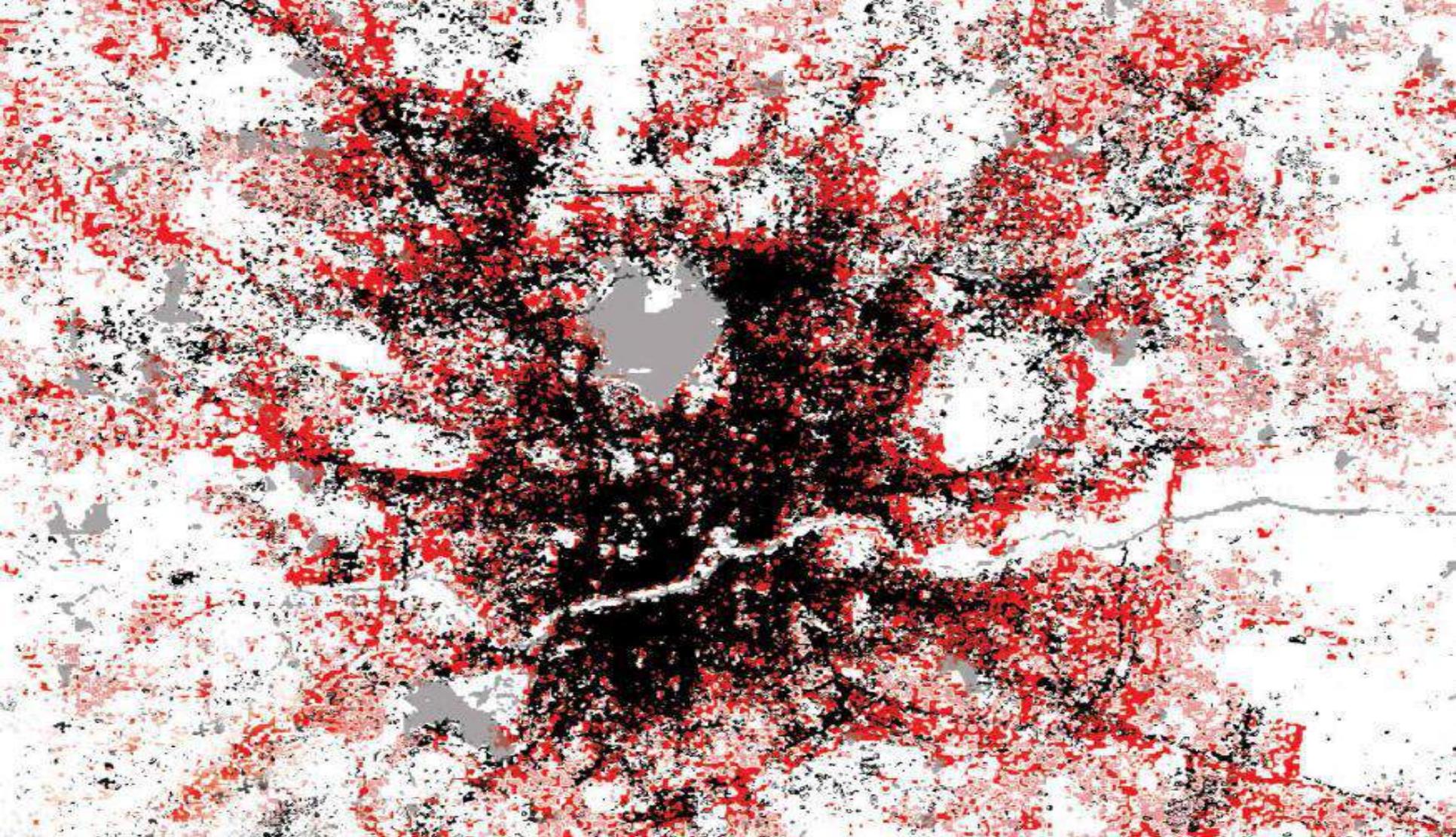
Pune  
42 sqkm/year

-  Municipal Boundary
-  Urban Area (2005-06)
-  Urban Area (2011-12)

 WRI INDIA

- Rapid growth in satellite towns of Delhi (Gurgaon, Noida, GRI Noida, Faridabad etc)
- Mumbai, little movement in peripheries, but witnessing inner city redevelopment
- Pune capitalising on Mumbai's slow down; attracting new economies like IT/ IITES.

Source: Generated by WRI India using data from Bhuvan/NRSC.



Hyderabad Urban Complex. Source: LUPM, GIZ- India, 2018



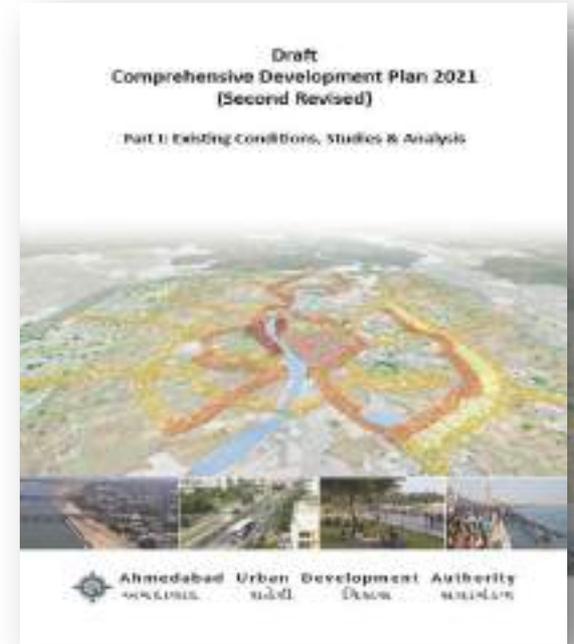
**Managing Peripheral Expansion  
The Promise of Gujarat TP Schemes**

# AUDA Revised Development Plan 2021

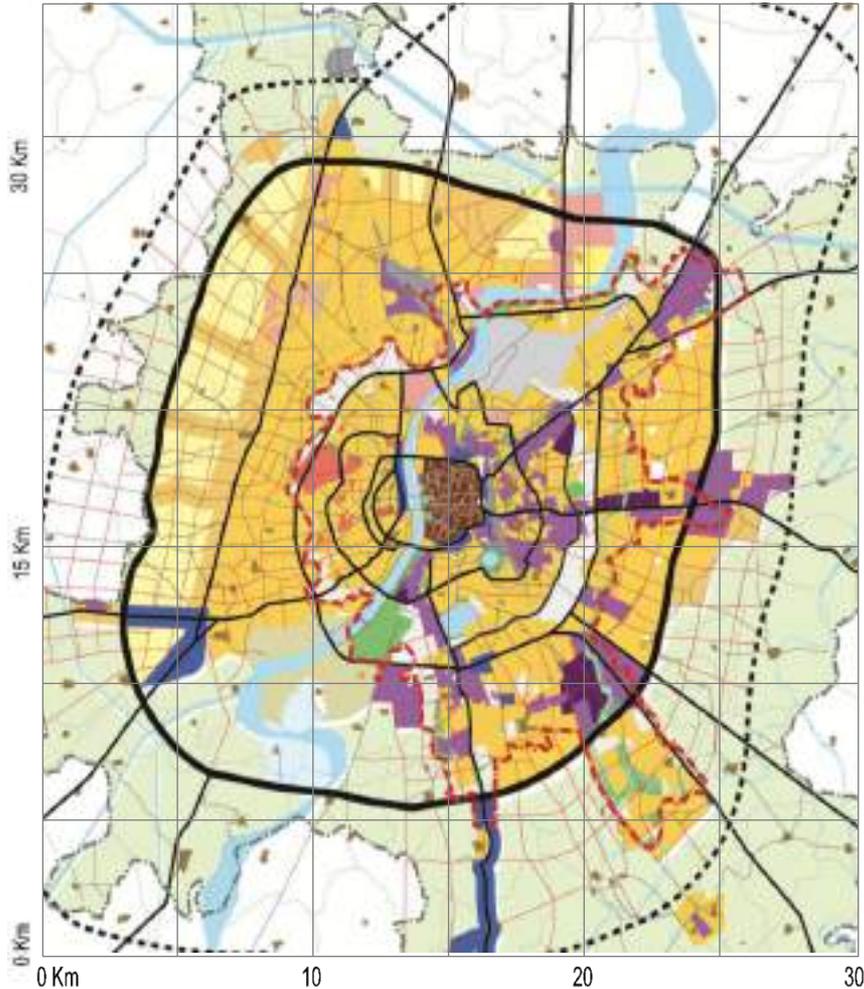
**Part I : Existing Conditions, Studies and Analysis**

**Part II : Planning Proposals and Recommendations**

**Part III: General Development Regulations**



## Step 1: Preparing a Development Plan

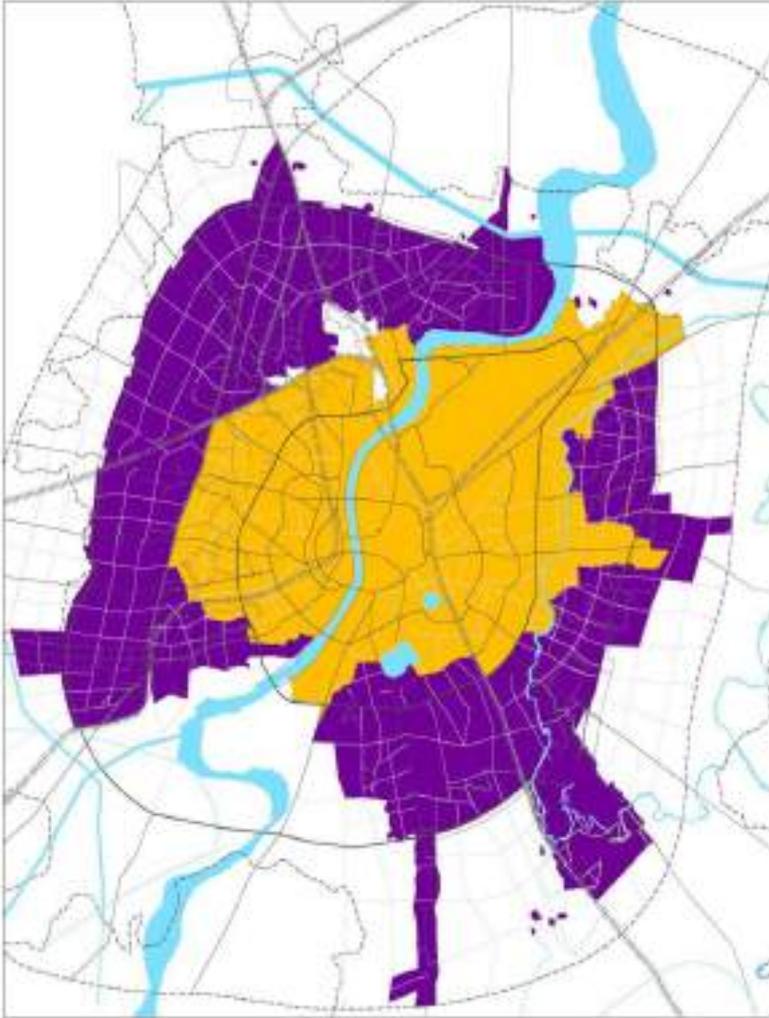


### Key features

- strategic city-wide plan
- delineation of new growth areas
- delineation of city level infrastructure
  - roads
  - water supply
  - drainage
  - ....
- development control regulations

Ahmedabad, 2002

## Step 1: Preparing a Development Plan

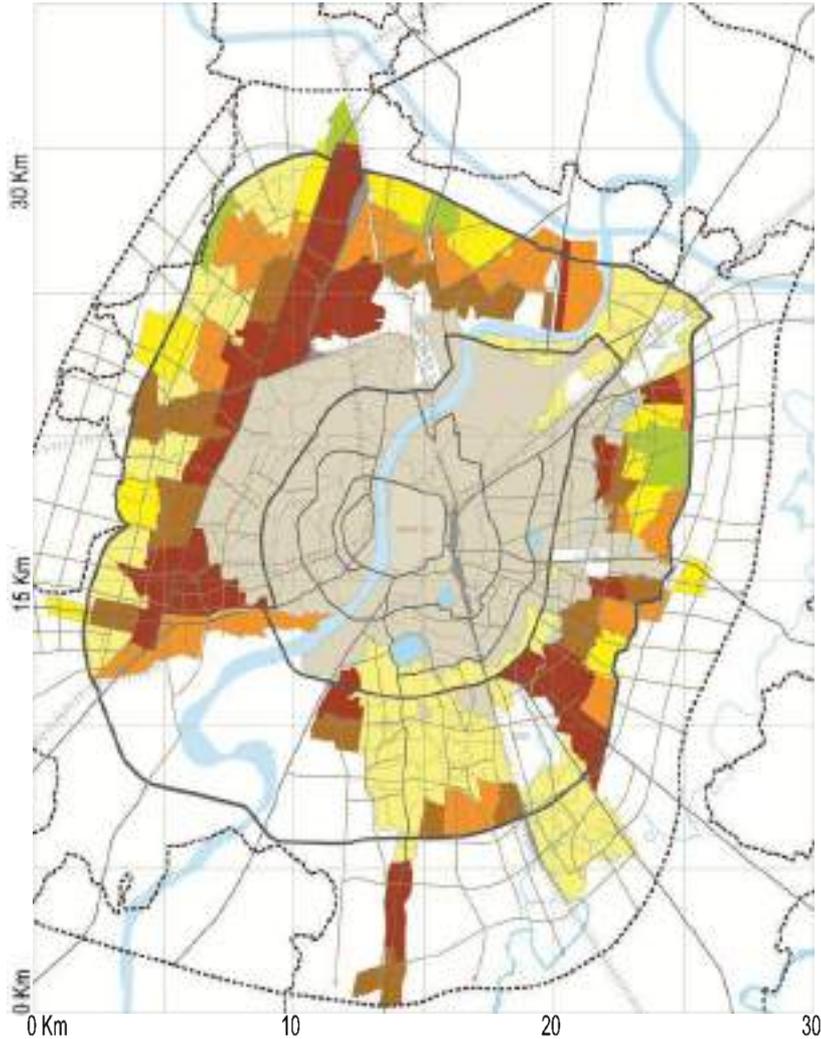


### Key features

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  - roads
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  - drainage
  - ....
- development control regulations

Ahmedabad, 2002

# Step 1: Preparing a Development Plan



## Key features

- strategic city-wide plan
- **delineation of new growth areas**  
(delineation and sequencing of T P Schemes)
- delineation of city level infrastructure
  - roads
  - water supply
  - drainage
  - ....
- development control regulations

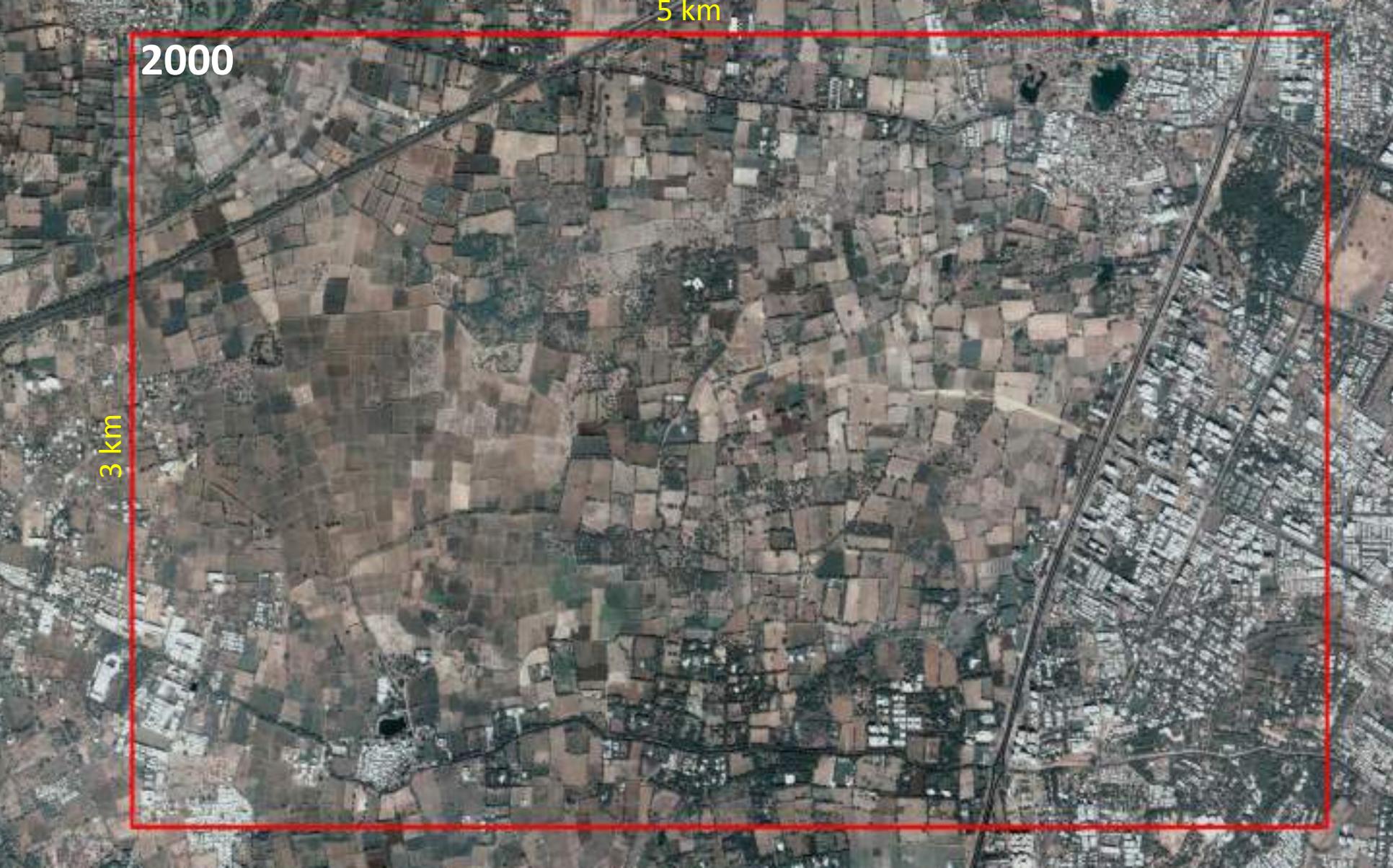
Ahmedabad, 2002



2000

5 km

3 km

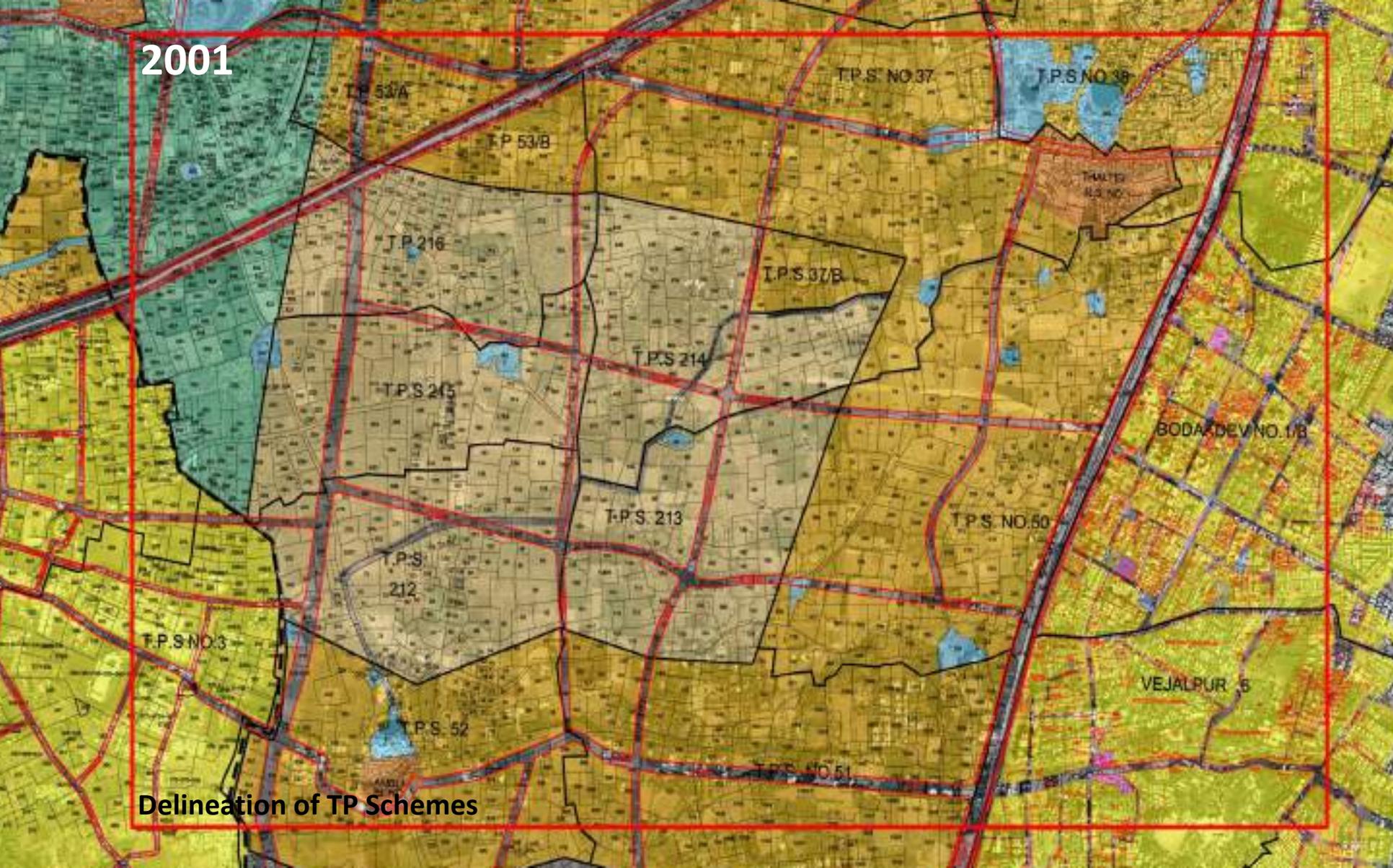


2001

Development Plan



2001



Delineation of TP Schemes

2000

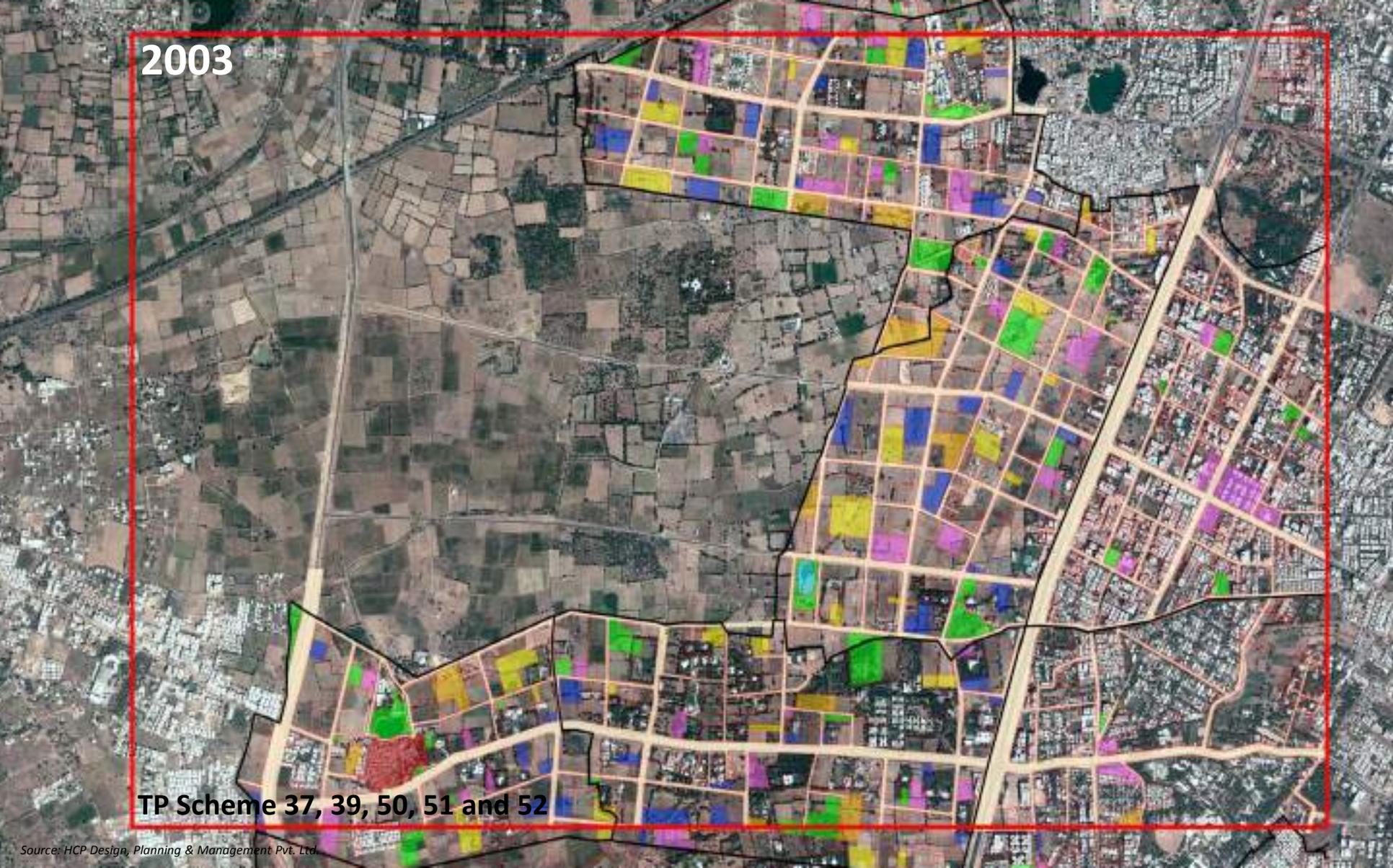


2001



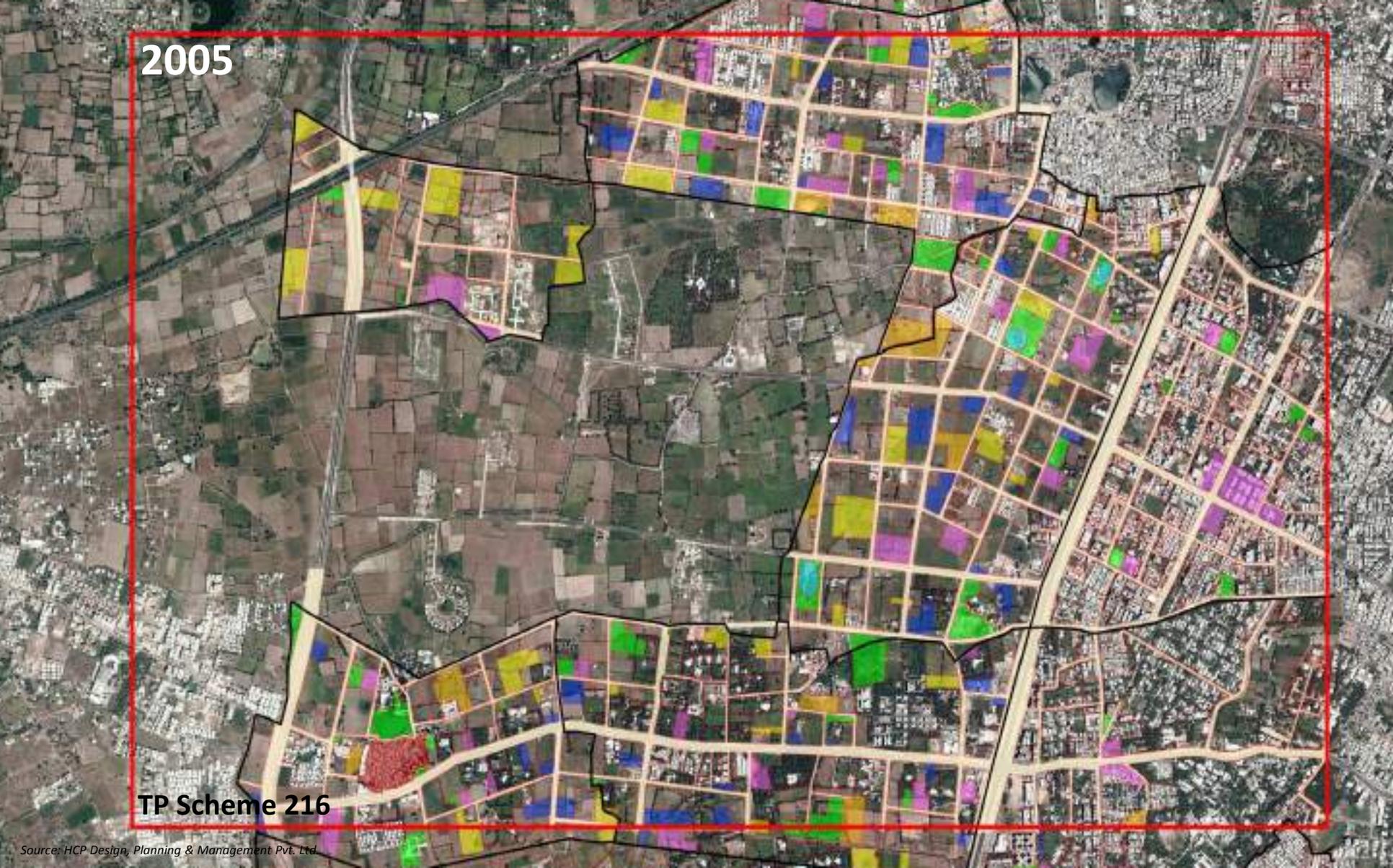
**2003**

**TP Scheme 37, 39, 50, 51 and 52**



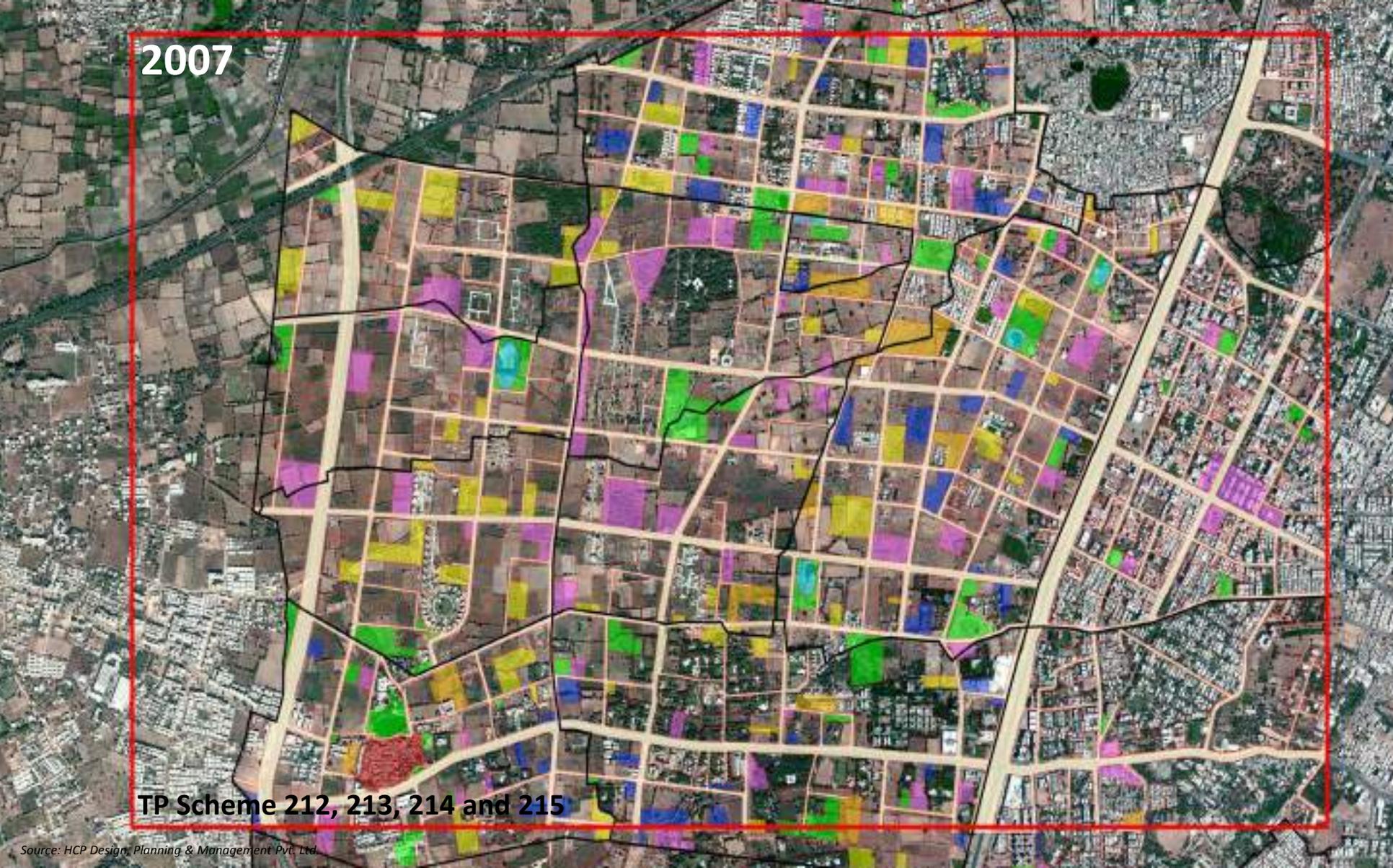
**2005**

**TP Scheme 216**



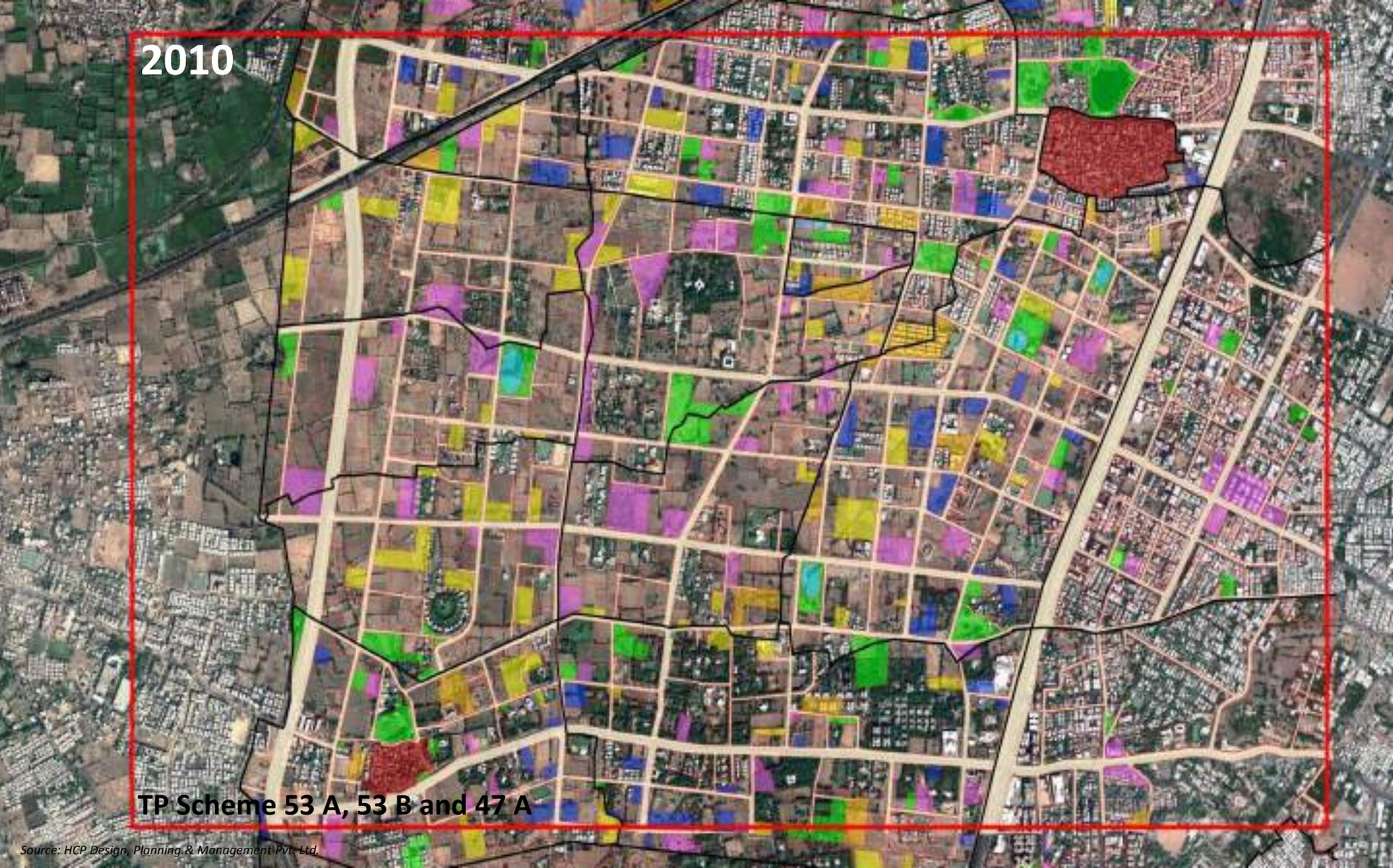
**2007**

**TP Scheme 212, 213, 214 and 215**



2010

TP Scheme 53 A, 53 B and 47 A



2011

Development continues.....



2013

Development continues.....



2014

Development continues.....



**2015**

**Development continues.....**



2016

Development continues.....



Using the DP-TP Mechanism, the Ahmedabad Development Authority was able to appropriate 22% of the land for public uses and 5% for financing infrastructure development

S. No.	Use		Area in Ha.	%	%
1	Public Use	Proposed Road	217	14.5	<b>22.4</b>
2		Garden / Open Space	47	3.1	
3		EWS Housing	19	1.3	
4		Amenities	52	3.5	
5	Saleable	Saleable Plots	71	4.7	<b>4.7</b>
6	Return to Owners	Gamtal	19	1.3	72.9
7		Private Final Plots	1075	71.6	
		<b>Total</b>	<b>1500</b>	<b>100.0</b>	<b>100.0</b>

Why does the DP-TP Mechanism work?

It works because it is perceived to be fair!



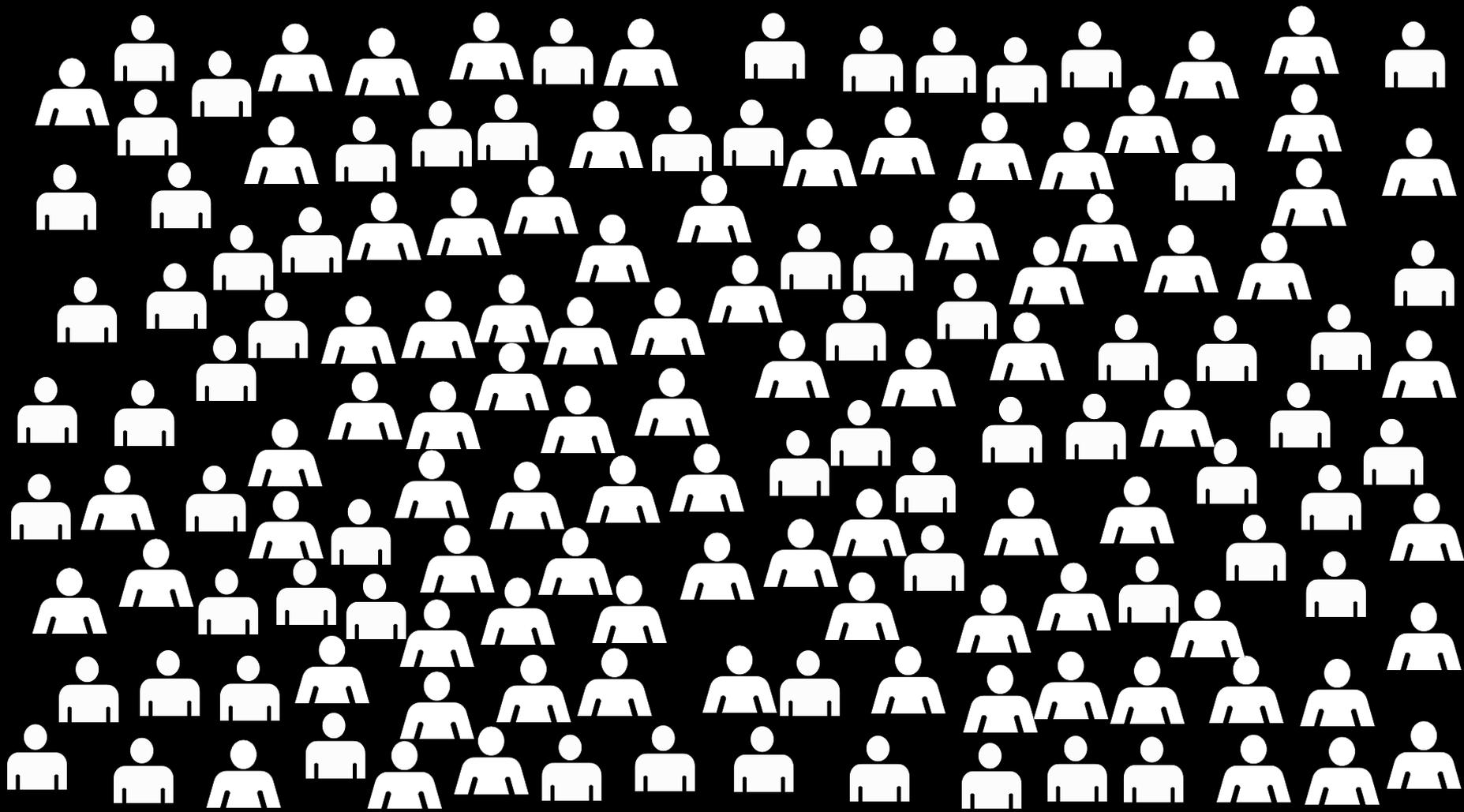


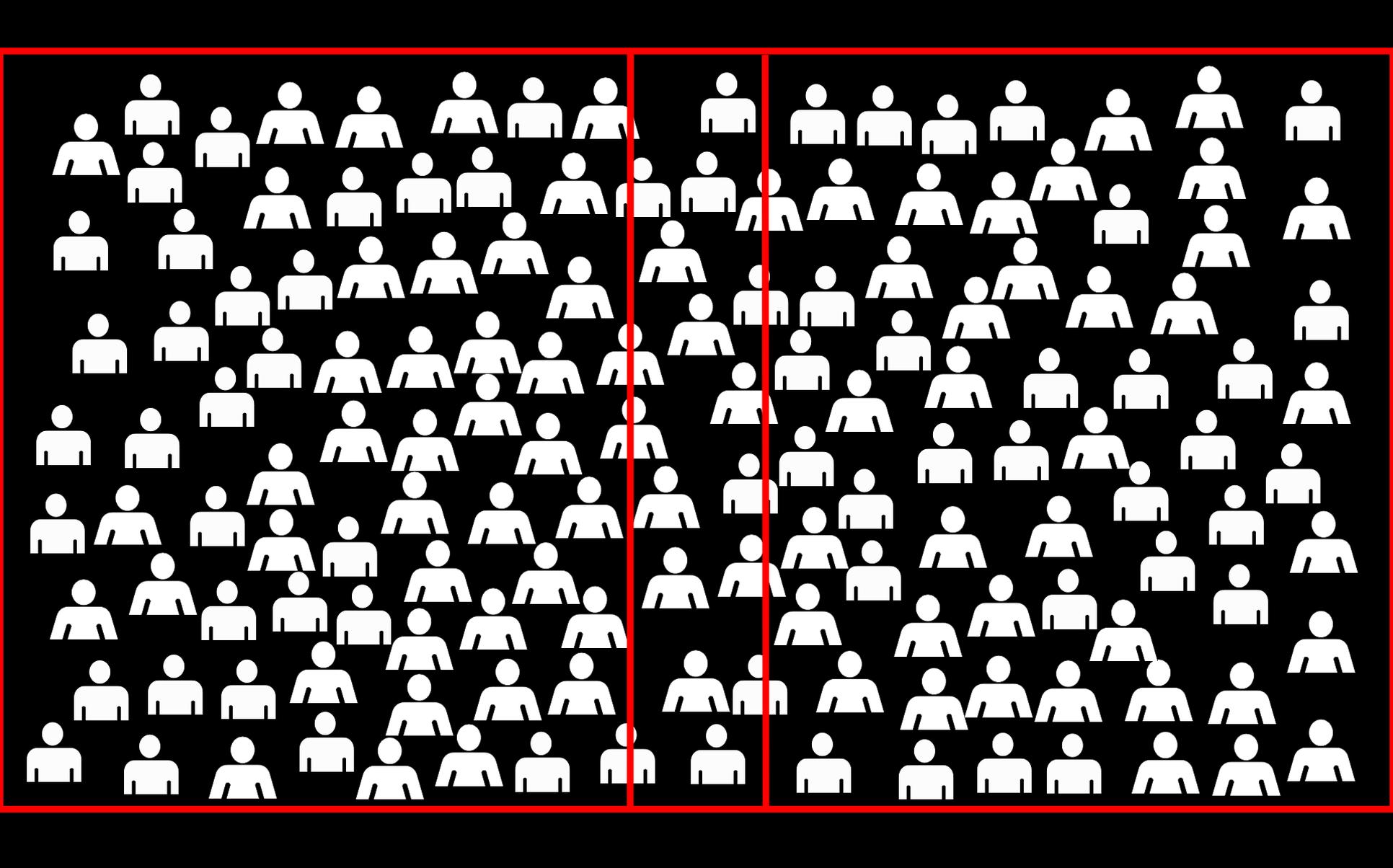
**LAW OF  
LAND  
ACQUISITION  
AND  
COMPENSATION**

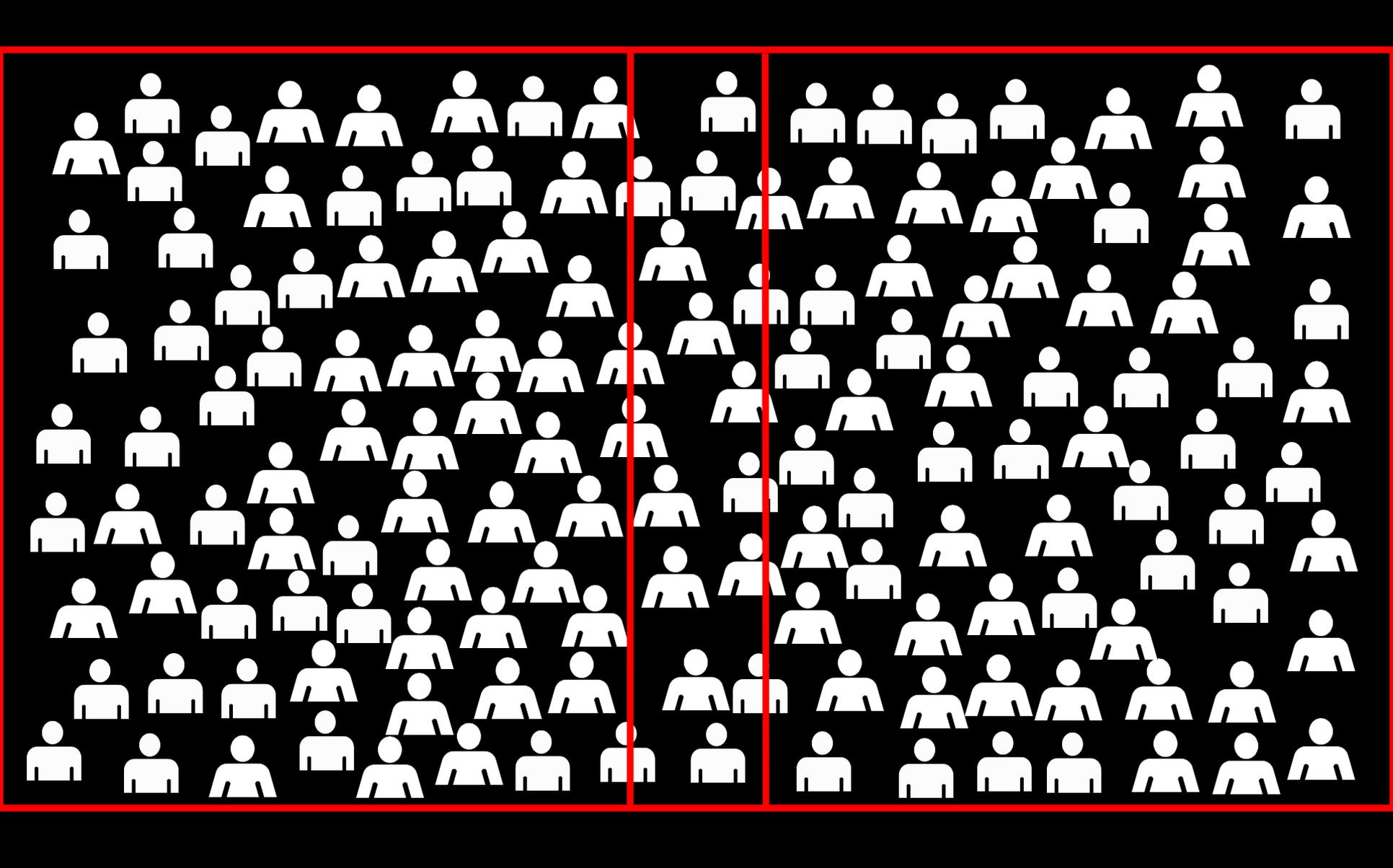
~~LAW OF  
LAND  
ACQUISITION  
AND  
COMPENSATION~~







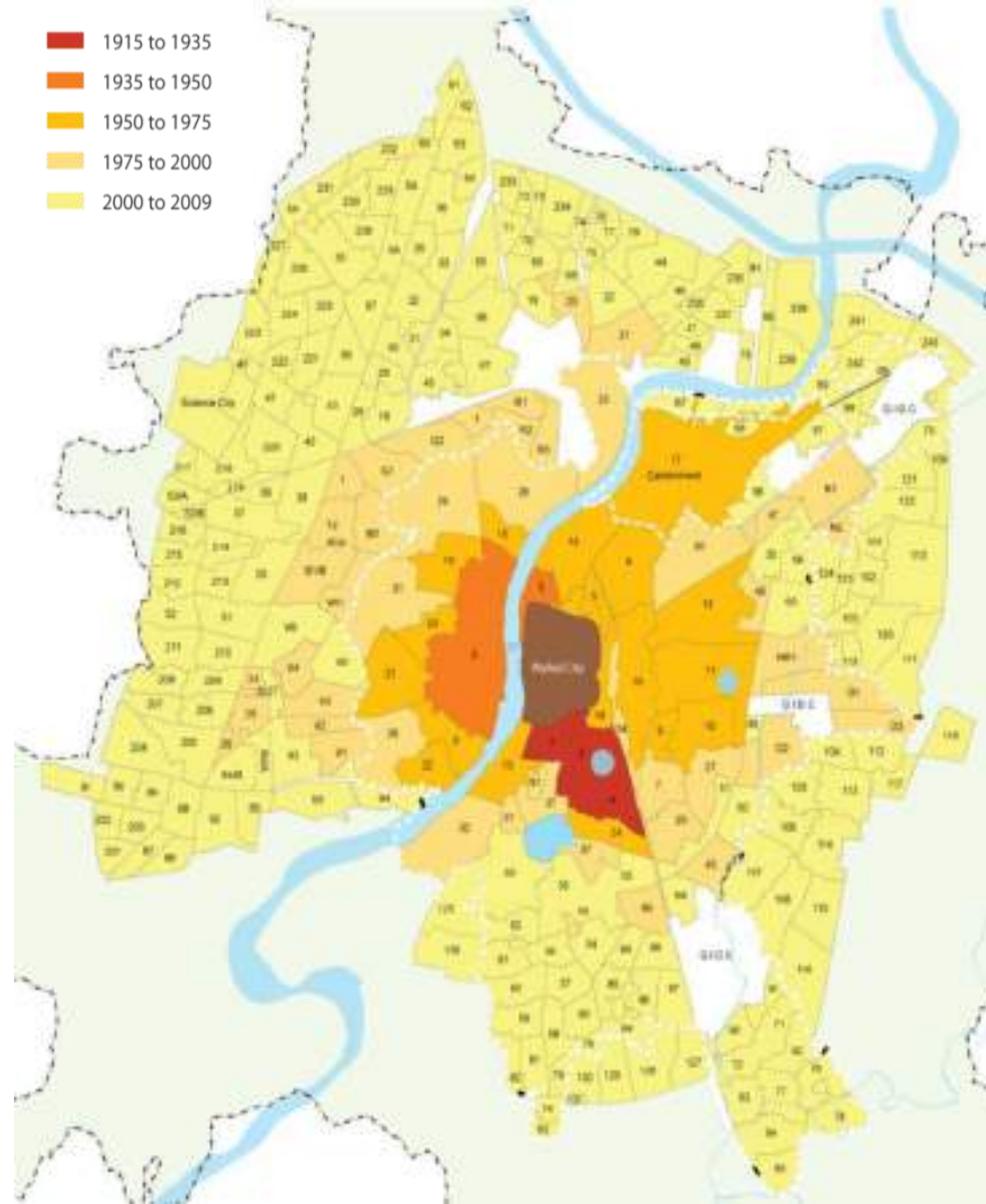




## Why does the Land Pooling and Land Reconstitution (T P Scheme) Mechanism Work?

1. The mechanism is specified in a **single robust enabling legislation**
2. It is simultaneously a **technical and legal mechanism**
3. The mechanism provides **a well defined structure that nonetheless has ample space** for the exercise of professional judgment
4. It is a mechanism that interweaves **planning, plan financing and plan implementation**
5. It addresses details and allows **micro level planning**
6. It provides **considerable flexibility** – costs and benefits can be valued and allocated in the form of land, location, or money
7. It focuses on an area and takes a **comprehensive approach** – roads, infrastructure, buildings etc. are dealt with together
8. The mechanism is based on a **profoundly pragmatic approach**
  - **Property rights are respected**
  - **Costs are distributed** - all owners loose same amount in the form of land or money
  - **Benefits are shared** – all owners keep substantial portion of developed land and increment in land value
  - Here **urban planning uses the land market** not against it
  - Public inputs are sought; **grievances are redressed**
09. The mechanism is **perceived to be fair and equitable**

- 1915 to 1935
- 1935 to 1950
- 1950 to 1975
- 1975 to 2000
- 2000 to 2009



The DP-TP mechanism has been used since decades to manage Ahmedabad's growth

**New Urban Mission is spearheading :**

- 1. GIS Based Urban Planning in AMRUT Cities**
- 2. Area Based Development (ABD) in Smart Cities**
- 3. Affordable Housing**
- 4. Land Value Capturing in Infrastructure development**

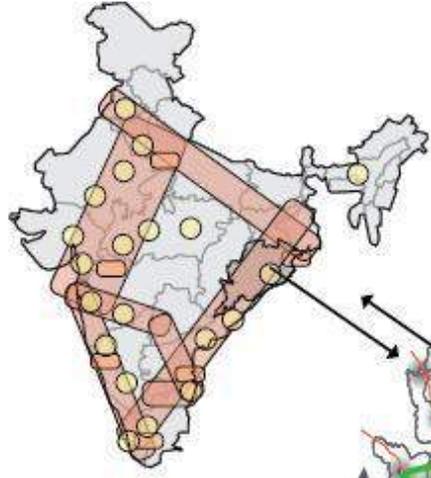
**MOHUA Sub-Scheme on LAP and TPS will be core for all the above missions  
And Initiatives**

**MOHUA SUB SCHEME :**

**OPPORTUNITY TO TRANSFORM  
THE CULTURE OF URBAN PLANNING IN INDIA**

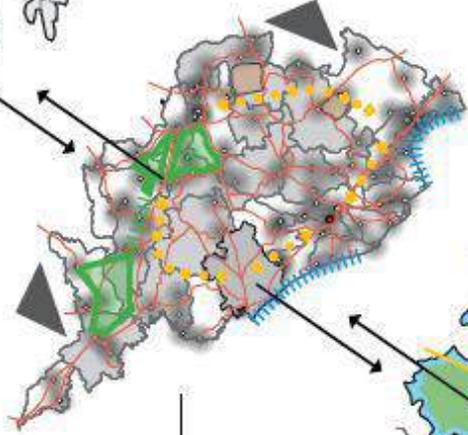
# INDIA

National Territorial Planning



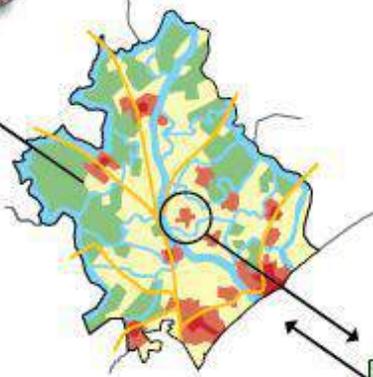
# STATE

State Land Use Strategy



# DISTRICT

Overall Land Use Plan



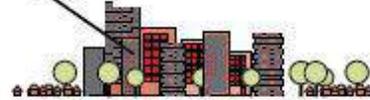
(URBAN) MASTERPLAN

Detailed Land Use Plan

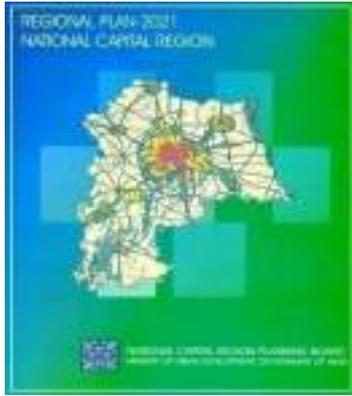


CONSTRUCTION PLAN

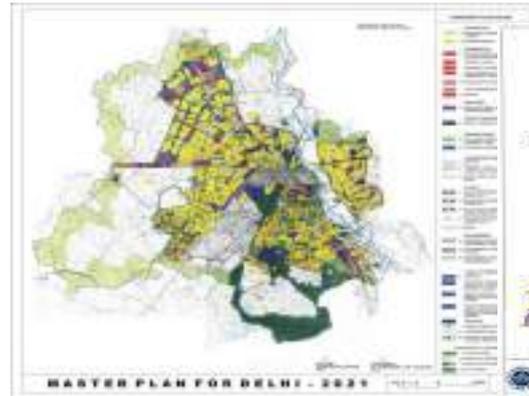
concrete project approval



# CULTURE OF SPATIAL PLANNING IN INDIA



**REGIONAL PLAN**



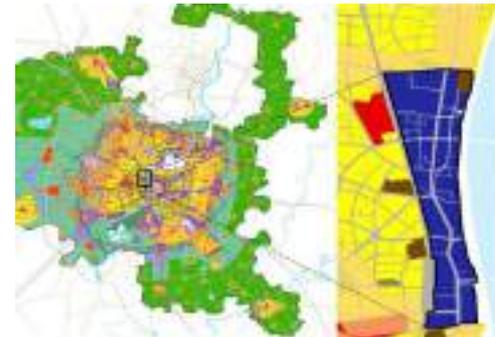
**MASTER PLANS**



**ZONAL PLANS**



**TOWN PLANNING SCHEME PLANS**

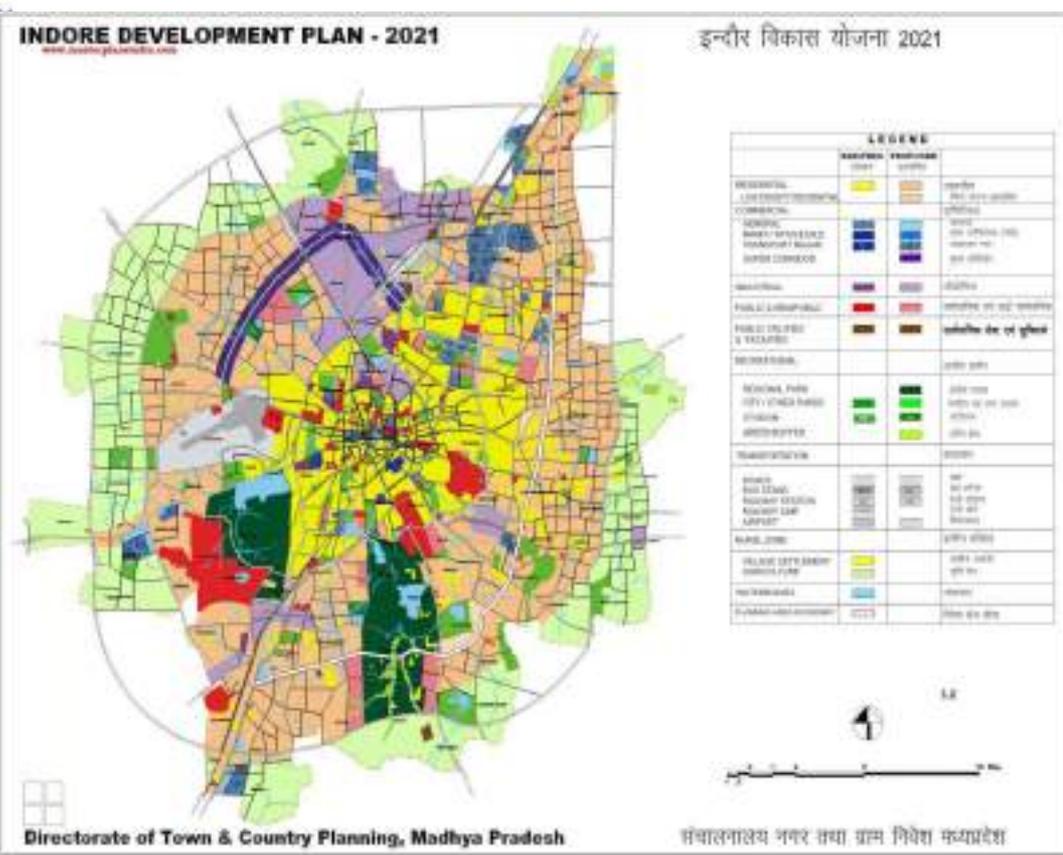


**LOCAL AREA PLAN**

# CURRENT PLANNING PRACTICE: MASTER PLAN/CDP



लखनऊ सम्भागीय नियोजन खंड नगर एवं ग्राम नियोजन विभाग उत्तर-प्रदेश

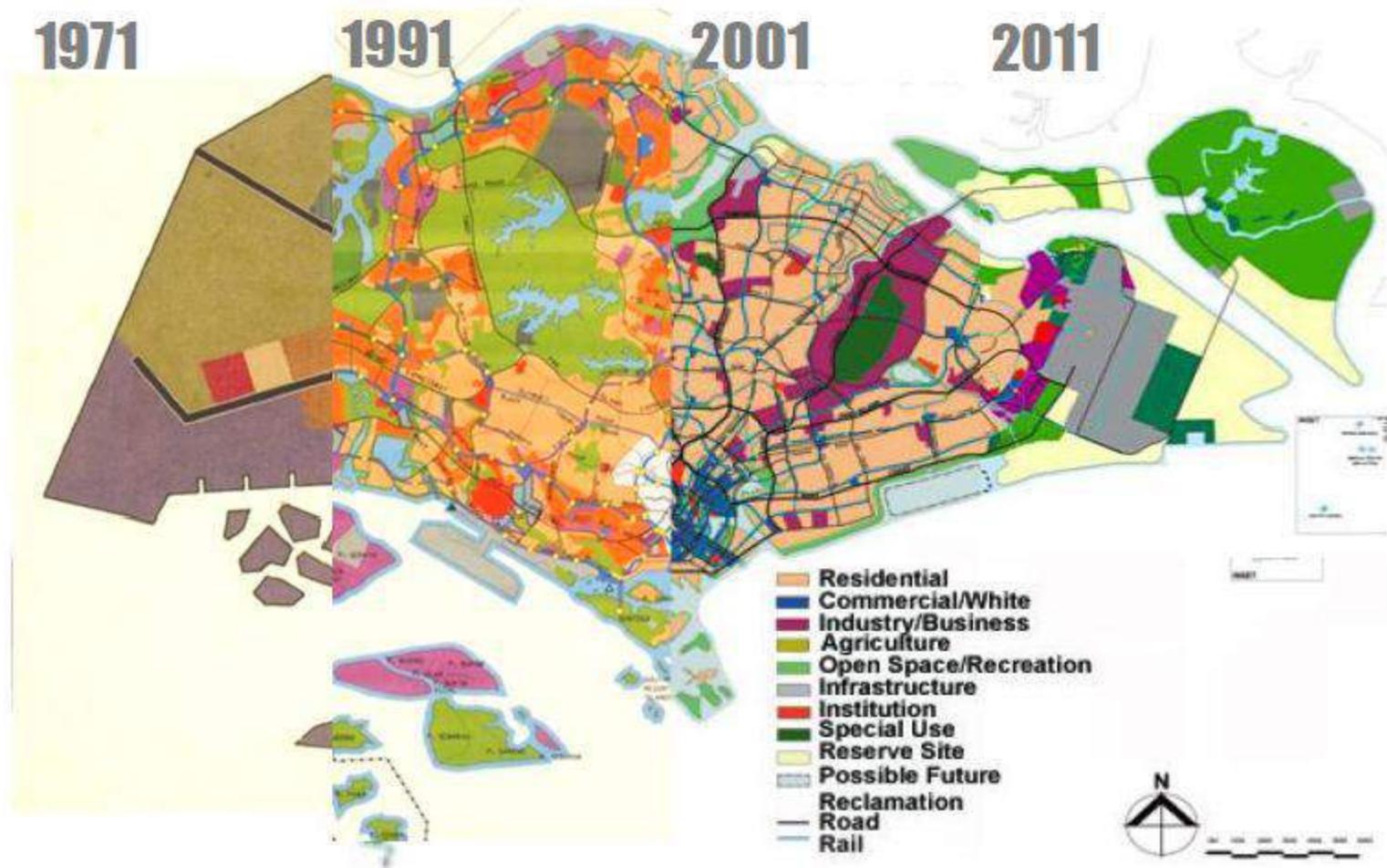


# Summary of Issues

- 1. Urban Planning Hierarchy and Scope of Plans**
- 2. Evidence based planning approaches – Absence of data on Urban Economy, jobs, consumption of built space and many others**
- 3. Planning Standards, Protocols and Code of Practices- Whats Beyond URDPFI?**
- 4. Linkages between Plan, Projects and Finance**
- 5. Existing Capacity for Plan preparation**

**CULTURE OF URBAN PLANNING IN ASIA-**  
**Cases of Singapore and Seoul**

# Concept Plan



# Planning and Development Framework

## CONCEPT PLAN

Maps out vision for Singapore in the next 40-50 years



## MASTER PLAN

Guides development over the next 10-15 years



LAND SALES &  
DEVELOPMENT COORDINATION



DEVELOPMENT  
CONTROL



# Master Plan - 6 Key Focuses

## Housing

Good living environments with a variety of housing options



## Economy

Vibrant economy with good jobs and multiple growth opportunities



## Community

Building shared spaces and communities



## Recreation

Wide variety of recreational options



## Transport

Greater mobility with enhanced transport connectivity



## Identity

An Endearing Home



# Seoul Master Plan and Downtown Development Plan



30 2020 Seoul Master Plan  
41 Downtown Development Plan

## 2020 Seoul Master Plan

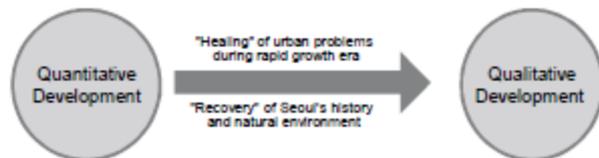
According to the construction of a new administrative city in Chungcheong province, relocating many central government functions from Seoul, the 2020 Seoul Master Plan was established to reflect the changes in spatial structure in the Seoul metropolitan region and to suggest a development direction. It also includes the shift in urban management policies for the appeasement of Development Restriction Areas.

The 2020 Seoul Master Plan is a long-term plan to present the vision and spatial structure of Seoul and the divisional development directions for the next 20 years.

It is a comprehensive plan containing not only physical aspects but also socio-economic aspects based on citizens' participation. The Seoul Master Plan is required to be revised every five years to reflect the physical and social changes, and is a statutory plan to suggest the basic direction of urban planning.

### Vision and Goals

- Seoul, a world city in harmony with nature, human being, history and technology



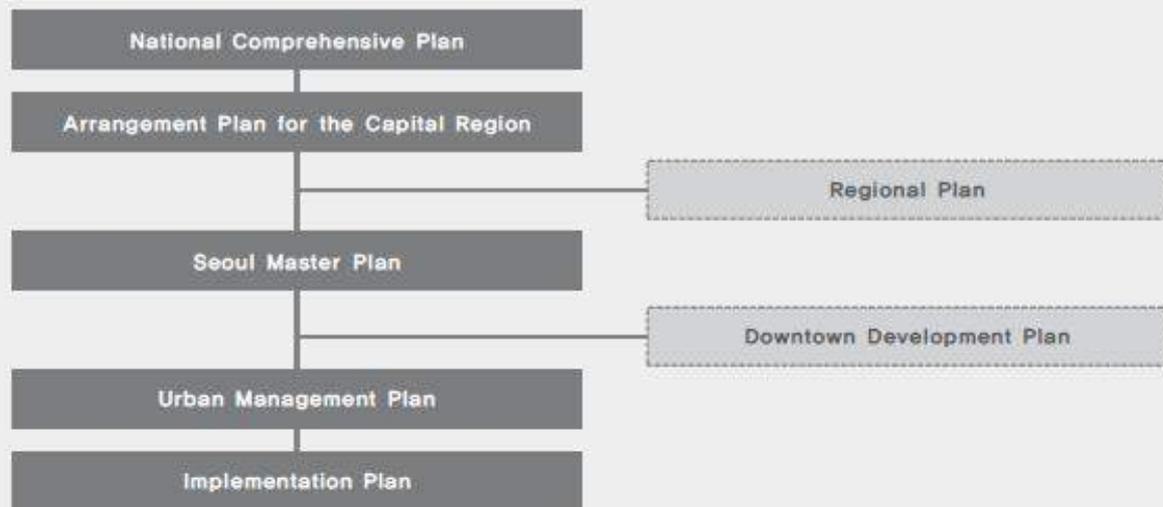
- "World City" leading the Northeast Asian Economy
- "Culture City" presenting a unique character
- "Eco City" reviving nature
- "Welfare City" enriching everyday life

- World City
  - Business-friendly environment : enhance Seoul's image and attract global companies
  - Convenience of mobility : improve mass transportation system and service quality; maintain concurrency with land use plan
  - Beautiful urban scenery : maintain attractive urban scenery and residential environment; protect natural environment
  - Advanced information : create information city and e-governance; expand IT service infrastructure
  - Foreigner-friendly environment : create a positive social ambience for overseas visitors; enhance support and service system
  - Administrative transparency : realize advanced administration and vitalize active citizens' participation
- Culture City
  - Vivid history and tradition : conserve and restore historical and cultural assets; strengthen management of cultural treasures
  - Unique culture : promote local culture; develop local cultural festivals with citizens participation
  - Environment for cultural life : improve accessibility to cultural experiences
- Eco City
  - Clean air : reduce air pollutants and improve air quality
  - Clean water : improve sewage treatment and river management; secure water resources
  - City with nature : preserve the ecosystem
  - Environment management : reduce energy consumption; construct comprehensive environment management system
- Welfare City
  - Care for those in need : guarantee basic livelihood, health and welfare service and basic residential rights; subsidize low-income group
  - Citizens' welfare : create life-long education society; provide abundant opportunities to

## City Planning Systems

### 01 City Planning System

### 02 Tree-Tier System of City Planning



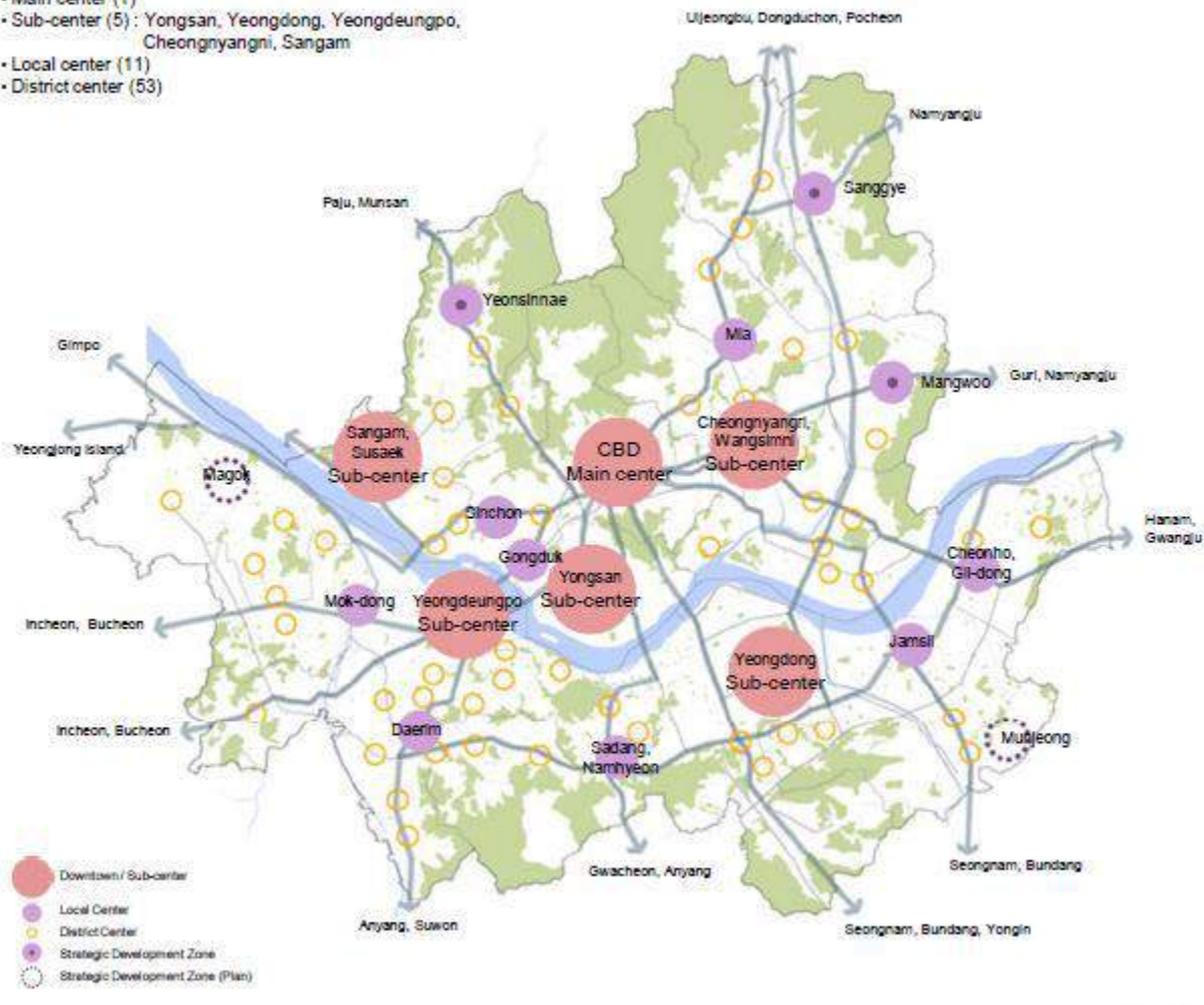
01

	Seoul Master Plan	Urban Management Plan	Implementation Plan
Goal	Basic Spatial Plan and Long-term Development Direction	Concrete Development Procedure and Restrictions	Execution of Project
Feature	Physical and Social-economic Plan	Physical Plan	Specific Project-based Plan
Legal Ground	Land Planning and Utilization Act	Land Planning and Utilization Act and Relevant Regulations	Land Planning and Utilization Act and Relevant Regulations
Legal Obligation	Mayor, County Governor	Individual Citizen	Individual Citizen
Plan Period	20 year (Review every 5 year)	10 year (Readjustment every 5 year)	

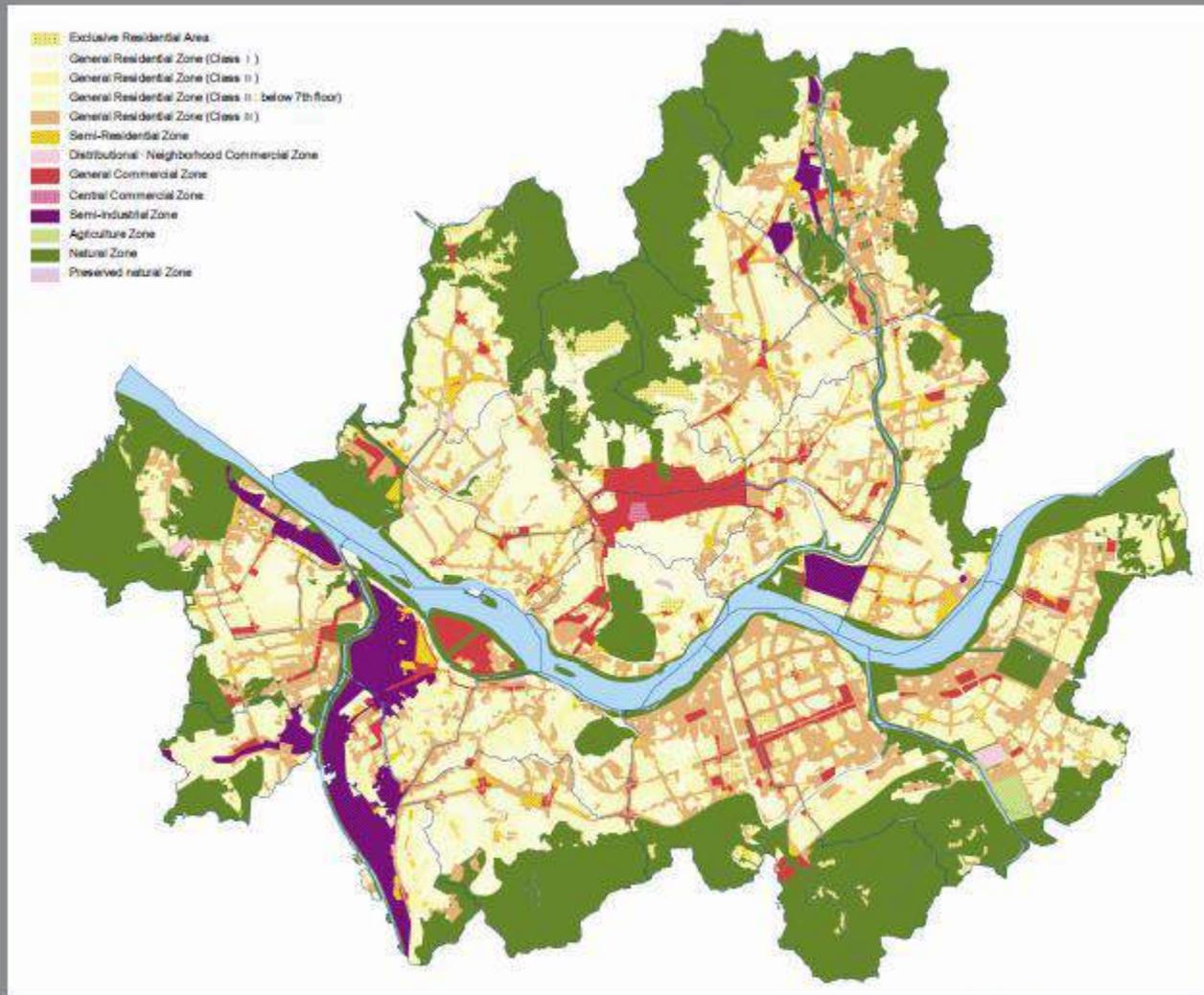
02

## Spatial Restructuring Plan

- Main center (1)
- Sub-center (5): Yongsan, Yeongdong, Yeongdeungpo, Cheongnyangni, Sangam
- Local center (11)
- District center (53)



## Zoning District (2008)

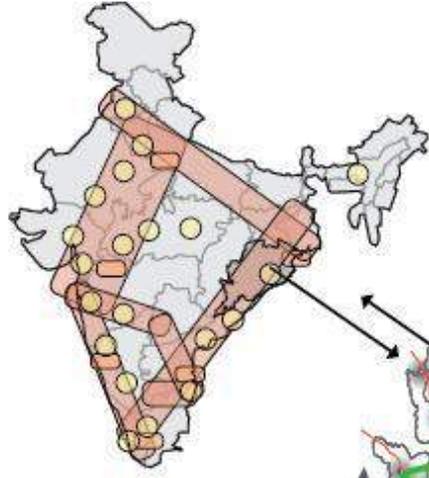


Source : Internal Data of Seoul Metropolitan Government

# **TRANSFORMING THE CULTURE OF URBAN PLANNING IN INDIA**

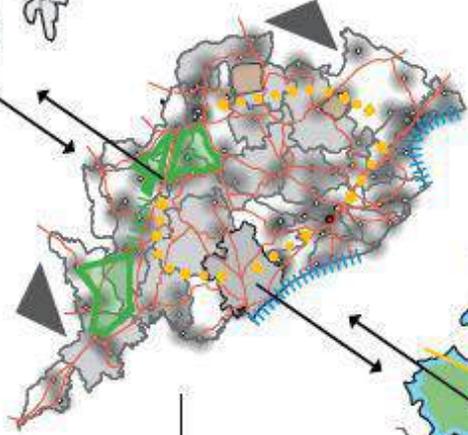
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National Territorial Planning



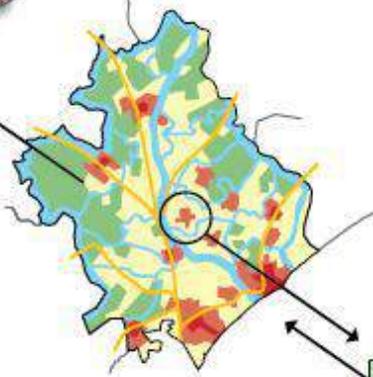
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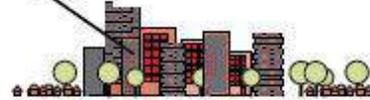
(URBAN) MASTERPLAN

Detailed Land Use Plan



CONSTRUCTION PLAN

concrete project approval



# Plans at different scales

Regional Plan

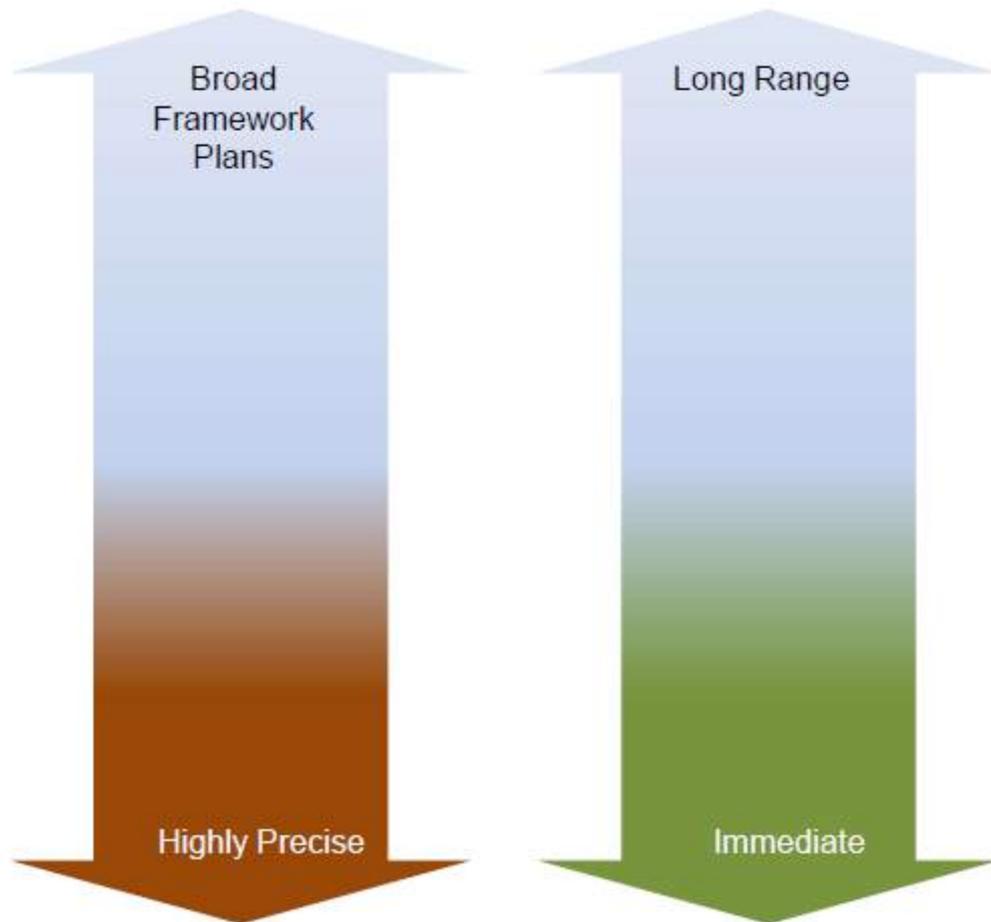
Urban Area Plan

Zonal Plan / Ward Plan

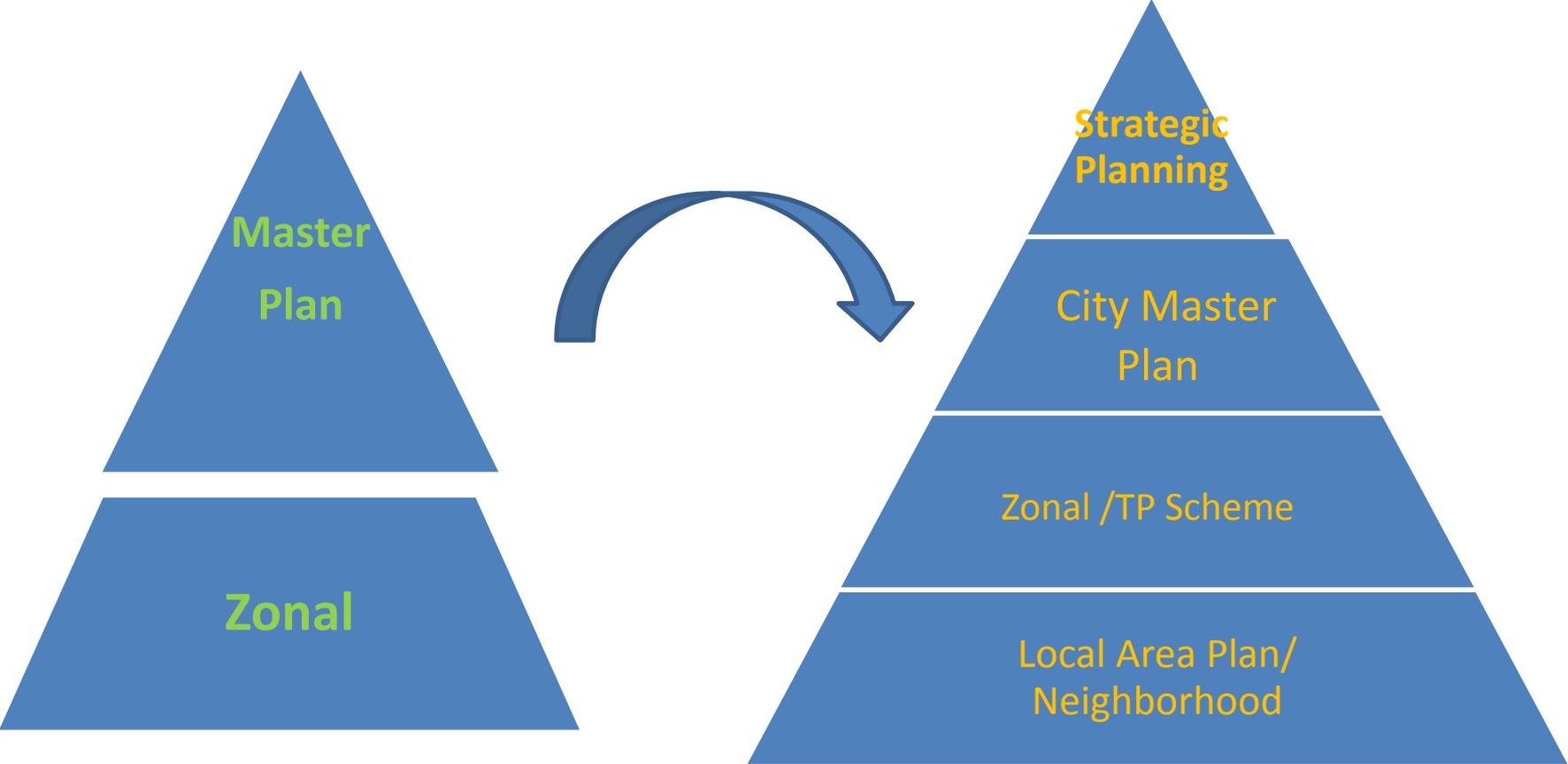
Local Area Plan / TP Scheme  
/ Neighborhood Plan

Layout Plans

Projects



# Establishment of Clear Urban Spatial Planning Hierarchy

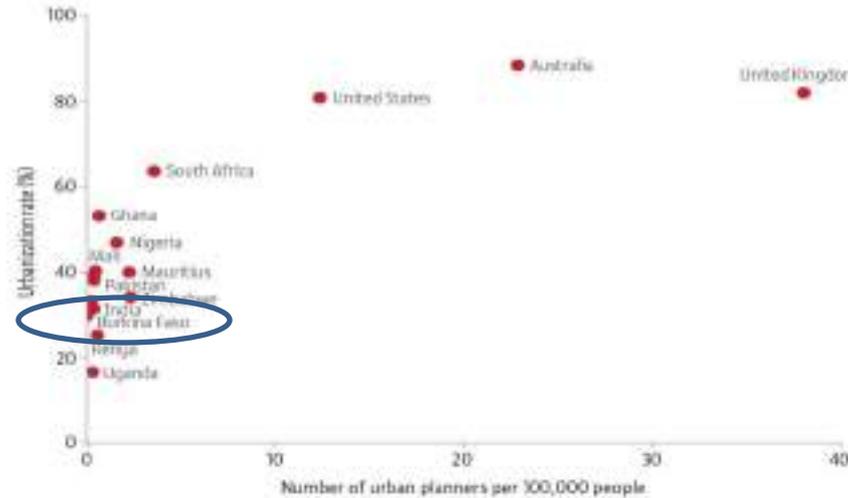


# **Transforming Urban Planning in India – Key Action Areas**

- 1. Establish National Framework for Urban Planning in India - Key Principles, Scope and a Clear Spatial planning Hierarchy**
- 2. Standard TORs, Hand book and Codes of Practices for City Leaders, Officials and Practitioners**
- 3. Good Urban Planning Practices Data Book- Gujarat, Goa, Odhisa....**
- 4. Short Term Training and Certification courses on Urban Planning and Sub themes/ Modules for City Leaders and In-service professionals**
- 5. National Registry and Platform for Urban Planning Professionals in India**

## There are too few urban planners in Africa and Asia

Number of urban planners per 100,000 people and urbanization rates, selected countries, 2011



Qualified Urban Planners per 100000 Population

India Ranks amongst the lower bottom countries

GEM StatLink: [http://bit.ly/fig18\\_2](http://bit.ly/fig18_2)

Note: Data are from 2011 for number of planners and 2014 for urbanization rate.

Sources: UNDESA (2014); UN Habitat (2016b).

This graphic was designed for the 2019 *Global Education Monitoring Report: Migration, displacement and education – Building bridges, not walls*.

[unesco.org/gemreport](http://unesco.org/gemreport)



United Nations  
Educational, Scientific and  
Cultural Organization



Global  
Education  
Monitoring  
Report

## **Acknowledgement :**

**Dr. Bimal Patel, Mr. Gerog Hansen, Mr. Jignesh Mehta, Members and Expert Groups of National Steering Committee, Habitat Sector, 2017-2018, Urban Redevelopment Authority (URA), Singapore, TCPO, New Delhi, United Cities and Local Governments (UCLG) and Seoul Metropolitan Government**

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**Mobile : 8128291880**

**CEPT University**