



# 5

## URBAN SUSTAINABILITY AND VISION FOR THE CAPITAL REGION

This chapter establishes Urban Sustainability Framework to address the pressing issues relating to environment, social and economic governance and ensure long-term sustainable development of the Capital Region and City.

The Vision is a collective outcome of various planning area studies, sustainability analysis and understanding of stakeholders aspirations for the enduring development of the Capital Region and City

The chapter covers the following topics:

1. Urban Sustainability Framework
2. Development Vision for Capital Region and City
3. Development Goals, Objectives & Strategies
4. Benchmarking & City Comparison

People from the Capital Region, looking forward to a great, liveable and an inclusive Capital City

## 5.1 URBAN SUSTAINABILITY FRAMEWORK

As part of the overall planning process, an Urban Sustainability Framework is established to provide guiding principles and overarching parameters for the subsequent planning processes that will ensure the long term sustainability of the Capital Region and City.

The most critical components in city development that may affect the long term sustainability of the city will be explained as to how they can be addressed consistently in all stages and all aspects of city planning.

In establishing the framework, a “Targeted Approach” is adopted with identification of 6 specific sustainability areas to be examined. This approach was developed based on the past planning experiences; it helps urban planners to identify the context specific issues of the city, following the broad guidance of the 6 areas of concerns as shown in the following diagram.

Though sustainability issues may differ from city to city or from region to region and are unique to a particular city or region based on its past experiences, it can be concluded that the main sustainability issues are generally revolving around these 6 key areas.

Besides identifying key sustainability issues, the framework will also set the sustainability targets and Key Performance Indicators (KPI's) for the city's long term development. The sustainability targets form the overarching parameters to be achieved through the implementation of the master plan in the next 20 and 40 years.



Fig.5.1 Urban Sustainability Framework

### 5.1.1 KEY SUSTAINABILITY ISSUES IN CAPITAL REGION

Several important issues have been identified that need to be addressed in terms of sustainability. The Planning team has prioritized the following 6 issues that will transform in to the Goals of the Master Plan.

1. Creating Jobs
2. Attracting investments
3. Provision of good quality housing
4. Nature and Environment
5. Flood Management
6. Heritage & Culture

### 5.1.2 SUSTAINABILITY FRAMEWORK

Key Issues	Existing Condition and Potential	Targets/KPI's
Creating Jobs	This issue is directly related to Economic Sustainability of the New Capital Region and City. In order to attract people to come to this New Capital City, they must be able to find employment. The existing potential of Agro-based industries needs to be capitalized upon for this purpose.	<ul style="list-style-type: none"> <li>• Generate jobs to sustain a population of 9-12 million people in the Capital Region</li> <li>• Generate knowledge based and high-tech jobs to sustain a population of about 2 million people within the Capital City</li> </ul>
Attracting Investments	The Capital City is to be developed on a greenfield site. Therefore, attracting investments to kick-start development and sustaining the same in the long run is a bigger challenge. The employment generators need to carefully proposed to balance the needs of the locals and also to attract global investors.	<ul style="list-style-type: none"> <li>• Identify key strategic projects that will form part of the initial phases of developments in order to attract investments both locally and globally.</li> </ul>
Housing	Housing provision has been a key concern throughout India for a long time. Most of the supply of housing is catered to the High Income Group, whereas most of the demand for housing is in the Low and Medium Income Group people. Government needs to devise strategies to develop affordable housing for the vast majority of people that are not being considered at the moment.	<ul style="list-style-type: none"> <li>• Target minimum 50% affordable housing to cater to Low and Medium Income group</li> <li>• Ensure strict planning and construction standards at par with global norms to ensure quality of housing</li> </ul>
Nature and Environment	The Capital Region is blessed with a rich array of natural and environmental features. These include the Krishna River, Kondapalli Reserved Forest, Mangalagiri Reserved Forest, Tadepalli Reserved Forest among others. In addition to this there are several canals and river tributaries that pass through the Capital City area and need to be carefully considered in the planning. A large portion of the land in the Capital Region is very rich in agriculture. This land should be strategically preserved for farming wherever plausible.	<ul style="list-style-type: none"> <li>• Preserve all natural features and enhance their characters</li> <li>• Plan strategically to cause minimum disturbance to high value agriculture land</li> </ul>
Floods	The Capital Region is also prone to floods. Management of the flood waters, especially within the Capital City will be one of the key considerations in the planning.	<ul style="list-style-type: none"> <li>• Design a sustainable flood management system</li> <li>• Utilize existing canals and water-bodies</li> </ul>
Heritage	Several heritage and cultural features fall within the Capital Region. A few of these include Amaravathi, Undavalli caves, Kondapalli Fort, etc. It becomes very critical to protect these features and also integrate them in the planning. A comprehensive strategy to develop a heritage tourism circuit needs to be considered both at Capital City and Capital Region levels.	<ul style="list-style-type: none"> <li>• Develop a heritage tourism circuit to connect all heritage sites</li> <li>• Allocate necessary facilities to compliment the tourism at these heritage sites</li> </ul>

## 5.2 VISION

### People's Capital of Andhra Pradesh

The New Capital of Andhra Pradesh is envisioned to be the pioneer Smart City of India. It aims to be World Class and at par with the standards set forth by countries such as Singapore. The new capital will be an economic powerhouse that will create a range of jobs for existing resident villagers by upgrading their skills, as well as high-tech and knowledge based industry jobs to be globally competitive. Housing will be at the core of its planning and will aim to provide affordable and quality homes to all its residents. It will demonstrate

global quality of life standards to offer high levels of convenience to people of all ages. The proposal will capitalize on the rich heritage possessed by the region and utilize it to create a unique identity for the new capital. Sustainability and efficient management of resources will form another important pillar of this new capital. It will be supported by maintaining the clean and green character that the site currently demonstrates by mimicking these ideas in to the new capital master plan.

## 5.3 GOALS

1

*Jobs & Homes  
for all*



[www.thesingaporepromise.sg](http://www.thesingaporepromise.sg)

2

*World Class  
Infrastructure*



[www.taxisingapore.com](http://www.taxisingapore.com)

3

*Quality Living*



[pixshark.com](http://pixshark.com)

4

*Identity &  
Heritage*



[en.wikipedia.org](http://en.wikipedia.org)

5

*Efficient  
Resource  
Management*



[www.smtwastebrokers.com.au](http://www.smtwastebrokers.com.au)

6

*Clean & Green*



[www.panoramio.com](http://www.panoramio.com)

# Quality of Life Essentials

The Capital City aims to provide all the Life essentials listed below.

<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Definitions</p>	<p>Safety</p>  <p>Sense of physical and emotional security for individual as well as the family.</p>	<p>Health</p>  <p>Physical and mental wellbeing of the residents and visitors.</p>	<p>Education</p>  <p>A chance to receive high quality education for all incomes, abilities and ages.</p>	<p>Prosperity</p>  <p>An opportunity to develop a fulfilling career that allows growth, self-sufficiency and wealth generation.</p>	<p>Community</p>  <p>Natural sense of belonging to the community, sharing common interests and working collectively to achieve universal objectives.</p>	<p>Physical Condition</p>  <p>The condition of the built and the natural environment.</p>	
	<p>Housing</p>  <p>Options of quality residences that will provide shelter and safety to the residents.</p>	<p>Public Services</p>  <p>Services provided by the government and their allies such as utilities, sanitation, infrastructure and its maintenance.</p>	<p>Mobility</p>  <p>Providing convenient options to access employment, housing and amenities through public and private transport.</p>	<p>Environment</p>  <p>The factors that affect the state of the surroundings in which people, animals or plants live.</p>	<p>Recreation</p>  <p>Places that give an opportunity to refresh the strength and spirits of people and encourage social interaction.</p>	<p>Culture</p>  <p>Activities and events that showcase the cultural composition of the place.</p>	<p>Amenities</p>  <p>Facilities that are within easy reach and provide for services, materials, entertainment and other daily necessities.</p>

## 5.4 STRATEGIES

1

### *Jobs & Homes for all*

Strategies:

- Promote high-value added agriculture and agro-based industries
- Create opportunities for existing dwellers to upgrade skills
- Introduce a mix of knowledge based high-tech industries to attract investments
- Encourage home ownership to create a sense of identity for citizens
- Provide sufficient affordable housing to cater to the needful
- Strategize a slum free city through careful planning
- Phase out industries strategically for long term sustained growth
- Create a favourable policy framework to implement and support the Capital City development



[sairam-jobopportunitiesinthemarket.blogspot.com](http://sairam-jobopportunitiesinthemarket.blogspot.com)



[www.trekearth.com](http://www.trekearth.com)



[www.getnews.co.za](http://www.getnews.co.za)

2

### *World Class Infrastructure*

Strategies:

- Build state of art public transport both for Capital Region and Capital City
- Encourage high percentage of modal share using public transport
- Develop a world class International Airport to serve the Capital Region
- Plan for a long term 2050 horizon and reserve transit corridors where necessary
- Develop a highly efficient road network at par with international standards
- Capitalize on the opportunity to use National Waterway for trade
- High Speed Railway to have a station in the Capital City
- Plan strategically to allow easy transfer between different modes of transport



[www.volunteerindia.com](http://www.volunteerindia.com)



[www.aurecongroup.com](http://www.aurecongroup.com)



[infra3-httpwww.zunewallpaper.com](http://infra3-httpwww.zunewallpaper.com)

3

## Efficient Resource Management

Strategies:

- Adopt efficient flood control techniques and protect most waterways in the city
- Promote “Reduce, Recycle and Reuse”
- Establish state of art waste management and disposal systems across the city
- Develop a smart grid in the city for efficient management of power and energy
- Encourage use of renewable energy to maximum extent possible
- Integrate the storm water drainage system with the existing canal and village tank network and utilize for flood management and recreation
- Encourage certification of projects using global standards such as IGBC and LEED
- Create awareness among the residents on the importance and role of citizens in efficient resource management



www.wm.com



intercongreen.com



thearrangedscientist.com

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## Clean & Green

Strategies:

- Create a network of parks and greens by integrating the village ponds
- Ensure access to park for every citizen within easy walking distance
- Make productive use of natural features on the site without damaging them
- Reserve most of the waterfront along Krishna river for public use
- Mandate retaining the green network reserved in the Capital City Plan
- Reserve high value agriculture land as no development zone wherever possible
- Utilize the natural features such as forest and hills to create a regional green network.
- Create an image of city sitting within the water and greens



www.getintravel.com



www.opengreenmap.org



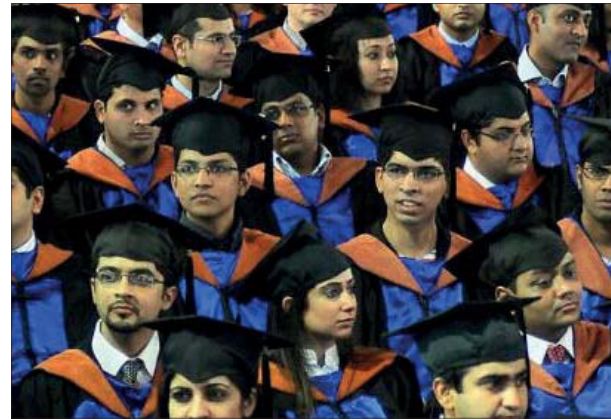
keepitrealtors.blogspot.com

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## Quality Living

Strategies:

- Ensure public transit is within easy walking distance for all
- Convenience of neighbourhood center amenities within walking distance
- Safe environment with universal access for all ages
- Provide opportunities for learning and enhancing careers within the Capital City and Region
- Provide excellent health care facilities at affordable costs within easy reach
- Ensure ample opportunities to live, work, learn and play
- Ensure ease of commute within 30 minutes from origin to destination with Capital City



knowledgeempowered.com



www.bauersit.com



imgarcade.com

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## Identity & Heritage

Strategies:

- Preserve all historic and culturally important sites
- Promote culture and heritage for locals and tourism
- Compliment adjacent cities, at the same time establish a unique identity
- Integrate the existing villages as a vital component of city development
- Development nodes within the city that reflect the culture of the State and region.
- Dedicate strategic locations that will allow people to come together and organize cultural activities
- Create a tourism circuit that links all the existing heritage features and new nodes created in the city



www.indiantravels.com



www.deccanchronicle.com



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