



**to promote cycling in India**



**D V MANOHAR**

**Board Member, World Cycling Alliance  
Chairman, All India Cycling Federation**

**Chairman, Hyderabad Cycling Club**

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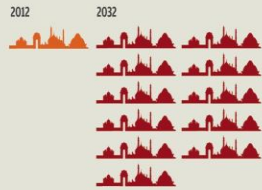
**Past Chairman, Confederation of Indian Industry**

# Urbanisation effects in India

## The Urban Effect

### Cities

In 20 years, India's cities will have to accommodate 250 million to 300 million more people than they do today. That's the equivalent of 11 New Delhis.



### Electricity

Of the 1.4 billion people of the world who have no access to electricity in the world, India accounts for over 300 million.

### Water

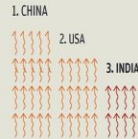
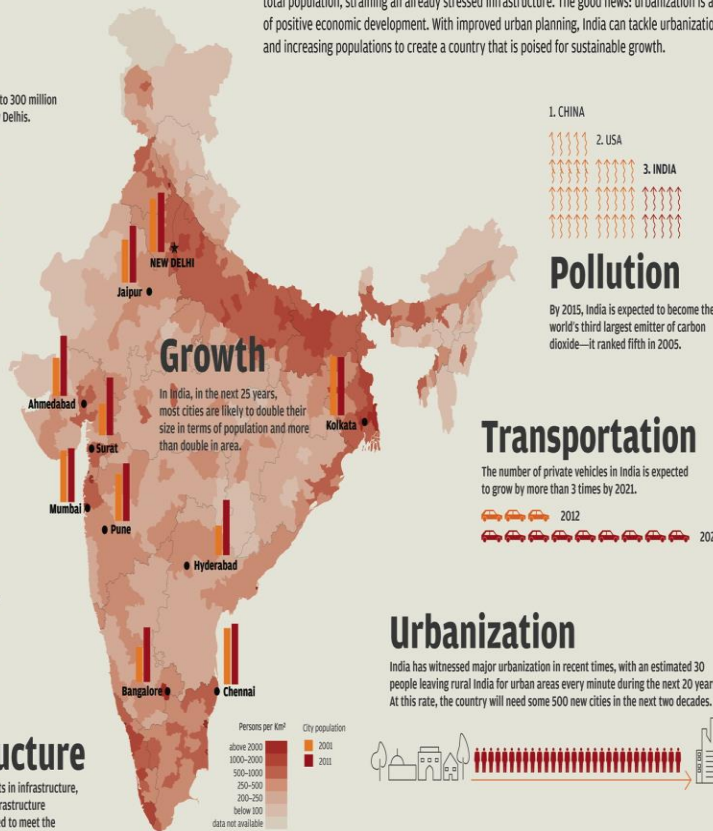
Only 74% of urban households in India are served by piped water supply. No Indian city has piped water 24 hours a day, seven days a week—4 to 5 hours of supply per day is the average.

### Infrastructure

Despite increased investments in infrastructure, an estimated \$1 trillion in infrastructure improvements will be required to meet the country's resource needs over the next 5 years.

### Sustaining Growth in India through Better Urban Planning

With a population of more than 1.2 billion, India is projected to be the world's most populous country by 2025. By 2050, it is estimated that India's urban population will constitute nearly half of the country's total population, straining an already stressed infrastructure. The good news: urbanization is an indicator of positive economic development. With improved urban planning, India can tackle urbanization challenges and increasing populations to create a country that is poised for sustainable growth.



### Pollution

By 2015, India is expected to become the world's third largest emitter of carbon dioxide—it ranked fifth in 2005.

### Transportation

The number of private vehicles in India is expected to grow by more than 3 times by 2021.



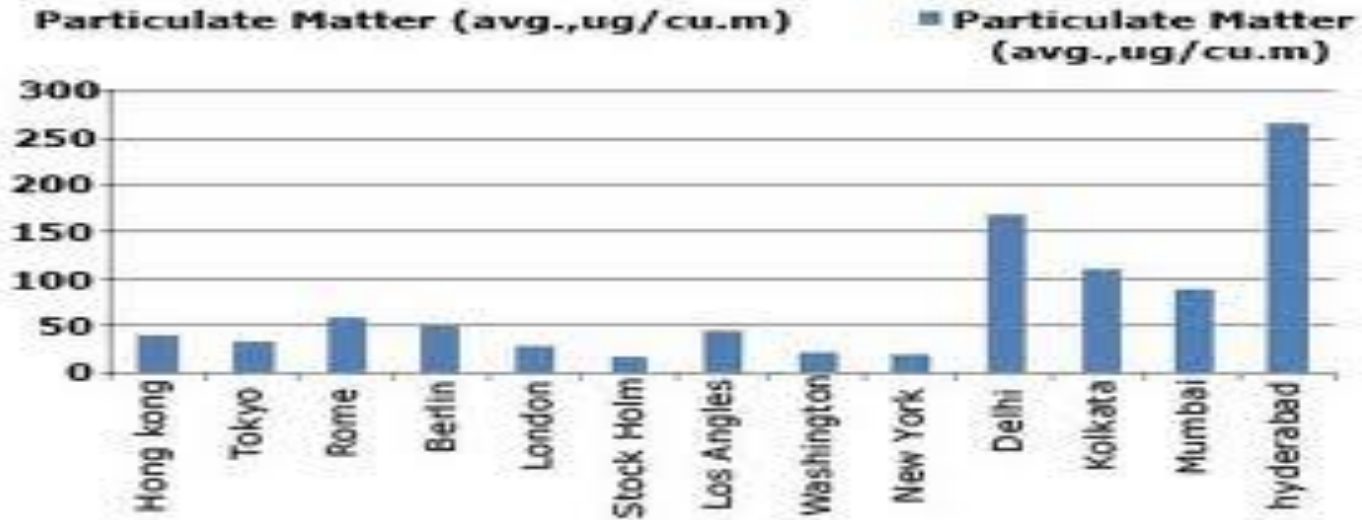
### Urbanization

India has witnessed major urbanization in recent times, with an estimated 30 people leaving rural India for urban areas every minute during the next 20 years. At this rate, the country will need some 500 new cities in the next two decades.



- ❖ India is experiencing unprecedented growth.
- ❖ In the next 20 years, 30 Indians will move every minute from rural India to the cities.
- ❖ To accommodate this massive urban migration, India will need about 500 new cities in the next 20 years.

# Vehicular Pollution menace in India



- Air quality in Cities is deteriorating.
- Imperative need to address same.





# Govt. of India promoting 100 Smart cities

- How to make them truly unique and appreciated?



# How do we make our cities cycle friendly?



Infrastructure is the key



General Perception that cycling is safe



Bike facilities



Serious advocacy & social acceptance



# Hyderabad Bicycling Club & All India Bicycling Federation

what  
are we *doing?*



Member:







Over 7500 members



Bike Stations at vantage points

Largest club online

Tie-ups with Government agencies for aggressively promoting cycling and creating cycling infrastructure.



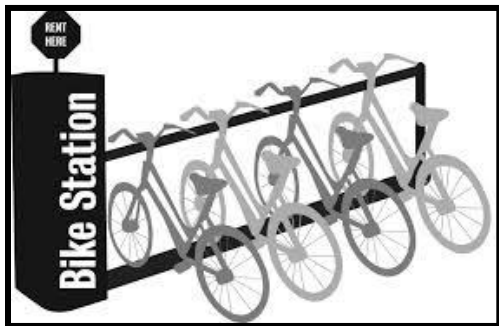
**Vision**

→ Making India →

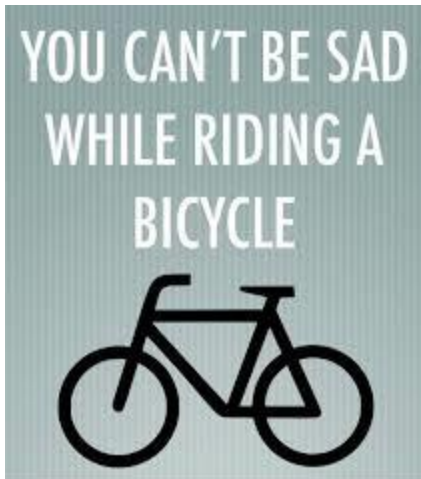


**Mission**

→ Changing Mindsets of people that cycle is not a poor man's vehicle →  
→ Creating infrastructure →



# Creating awareness





# All India Bicycling Federation

MOU with Andhra Pradesh Government to promote Cycling & Cycling Tourism.



# Campaigning for Smart City: To start with Hyderabad



Christchurch, NZ rebuilt to be the greenest & smartest city



Active Mobility



# Hyderabad, India



Population 10 million



IT Hub



City of Pearls



Tourism





# Tripartite MOU



## MEMORANDUM OF UNDERSTANDING

**BETWEEN**

**THE HYDERABAD BYCYCLING CLUB**

**THE HYDERABAD METRO RAIL LIMITED**

**AND**

**THE UNITED NATIONS HUMAN SETTLEMENTS PROGRAMME**

**TO**

**SETUP SOLAR CHARGED BIKE STATIONS TO PROVIDE LAST MILE CONNECTIVITY TO  
HYDERABAD METRO RAIL PROJECT**

# Last Mile Connectivity to Hyderabad Metro through bicycles

Unique initiative of HBC



**HYDERABAD METRO RAIL LIMITED**  
(A Government of Telangana Enterprise)





# What makes HMR unique? Project Insights...



- ❖ World's largest Metro Rail project under PPP.
- ❖ 72 km long with 63 Metro Stations.





# What makes HMR unique? Project Insights...

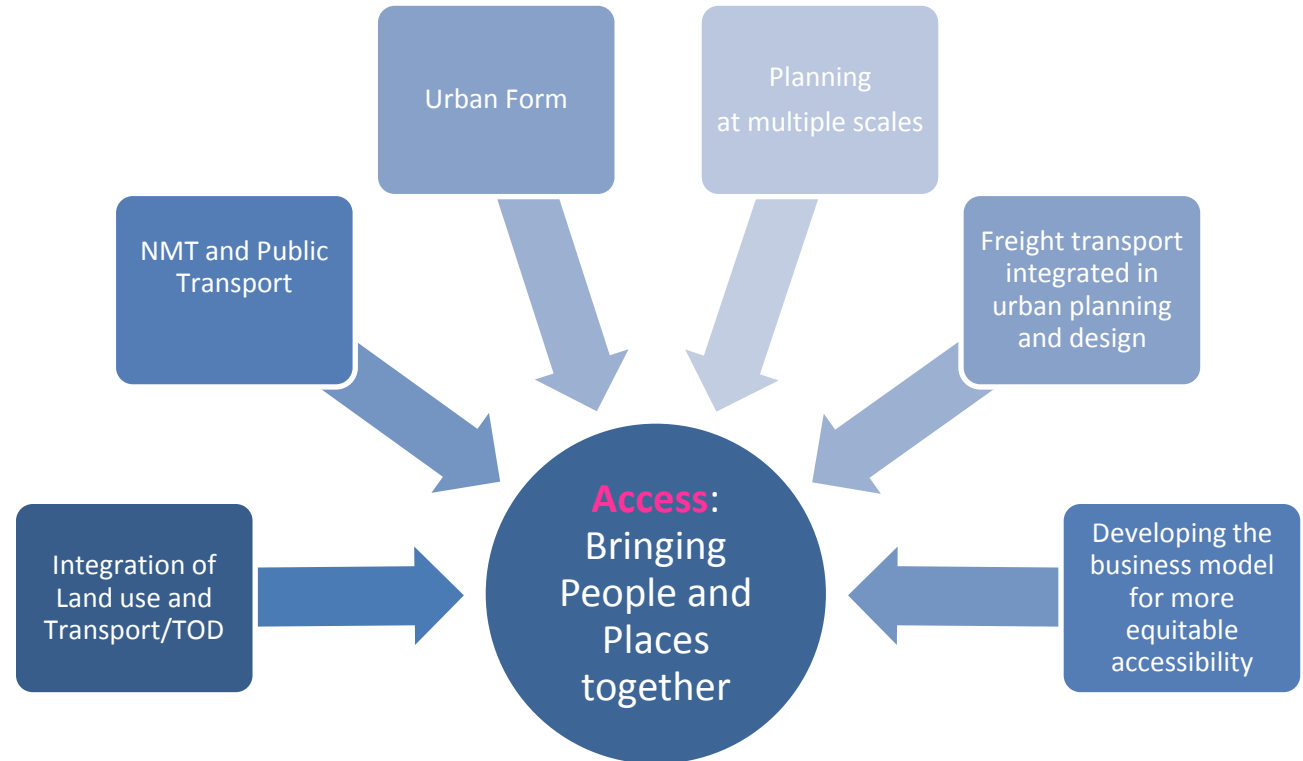
- ❖ To handle 1.8 million passengers per day by 2018 & 2.2 million per day by 2024.
- ❖ To be partly commissioned by 2016.
- ❖ Total cost of US \$2.25 billion.
- ❖ Not a simple Metro, but an urban redesign & rejuvenation effort to transform Hyderabad into a people friendly green city.

**UN HABITAT**  
FOR A BETTER URBAN FUTURE

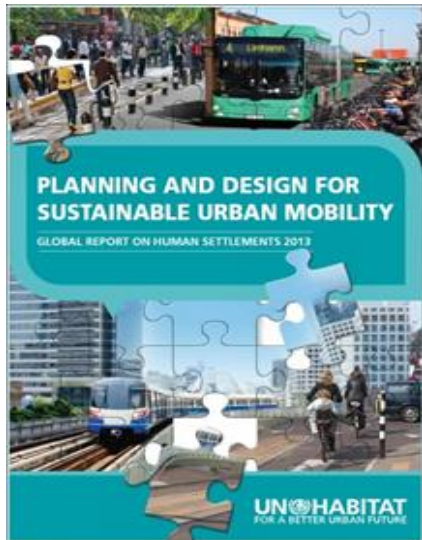


**UN HABITAT is the United Nations program working towards a better urban future**

# Global Framework by UN-Habitat



UN-Habitat's Global Report on Human Settlements (2013)



**Access** – *The ultimate objective of all transportation – to goods, services, people and amenities*



# Focus of the Tripartite MOU



Improve  
Accessibility



Save time



Use solar to reduce  
carbon intensity

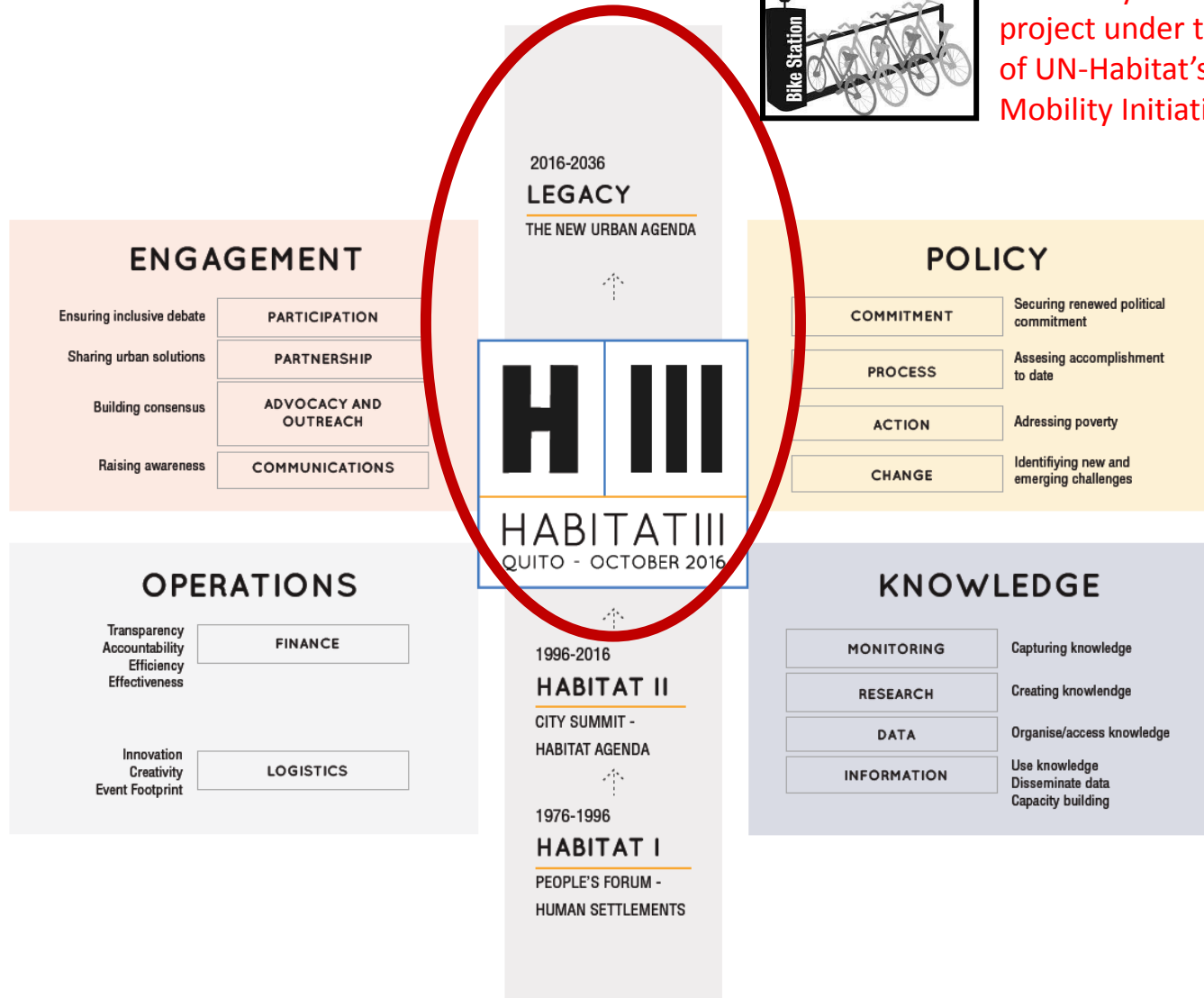


Zero Emission





Possibility of showcasing the project under the framework of UN-Habitat's Urban Electric Mobility Initiative (UEMI)



# Location of the bike station at each metro station



Right next to the escalator



# Task, Status & Target

Task	Status	Target
100 Bike Stations with a total inventory of 10000 bikes in 63 Metro Stations and 37 residential & commercial clusters.	Feasibility study and DPR in progress.  Model/Demo Bike Station to be commissioned by June, 2016.	To complete the project fully by 2019.

# Yet another PPP Initiative



**HBC tied up with Telangana Govt.  
to promote 20 km long x 7.5 m  
wide exclusive cycling track**



# Key Features



Dedicated cycling tracks for competitive events



Bike station adjoining the track



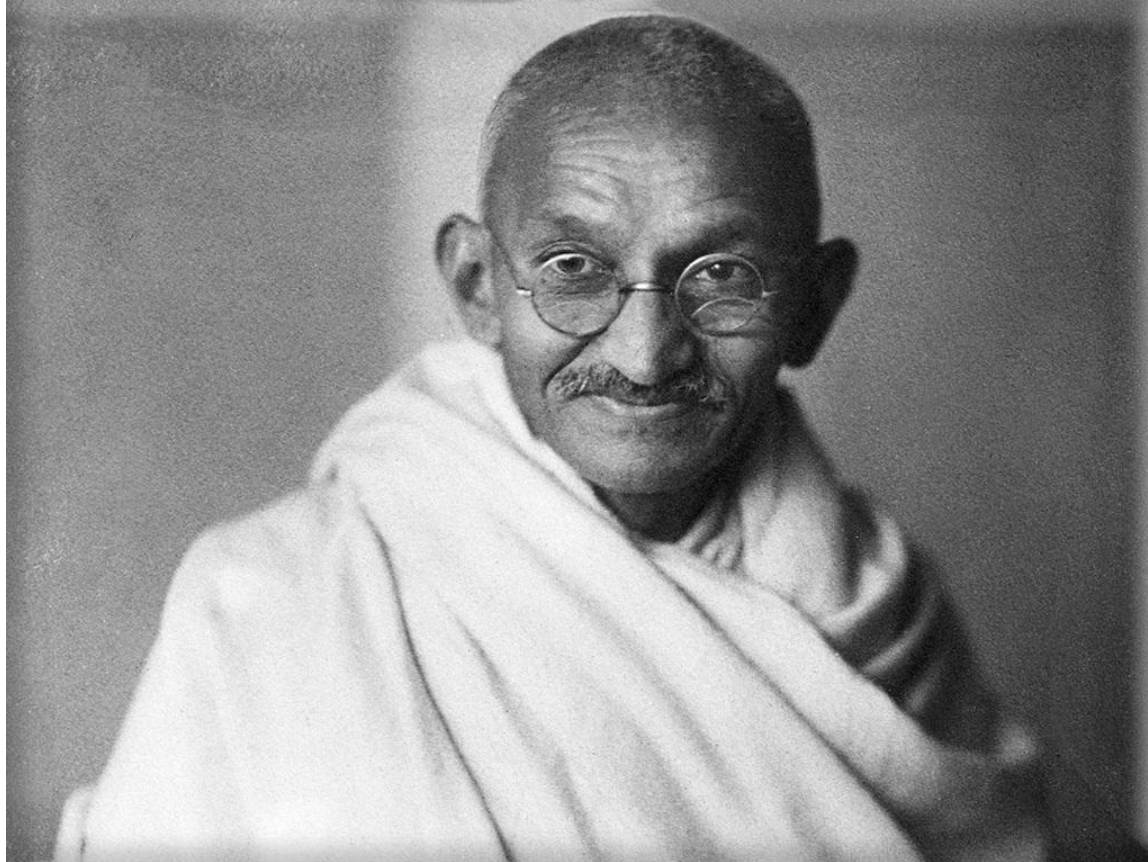
June, 2016

on both ends of above track



# Future Plans





**Be the **Change****  
**that you want to see in the **World****

*Thank You!*

