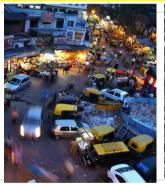


Relevance of NEXT CLASS Cities

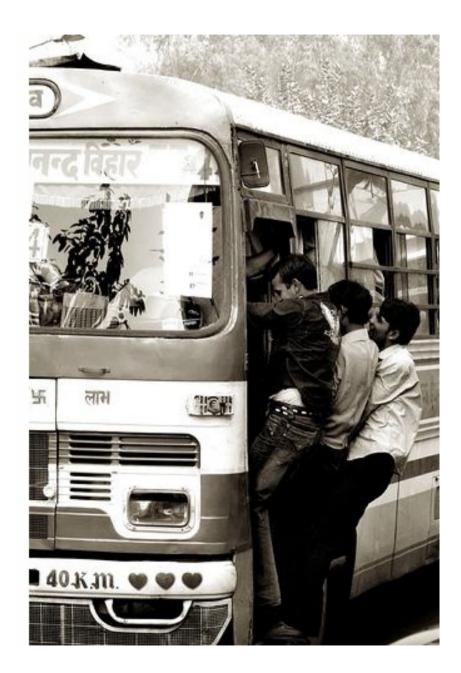
Sustainability & Affordability







R.S.Das
Fairwood Consultants



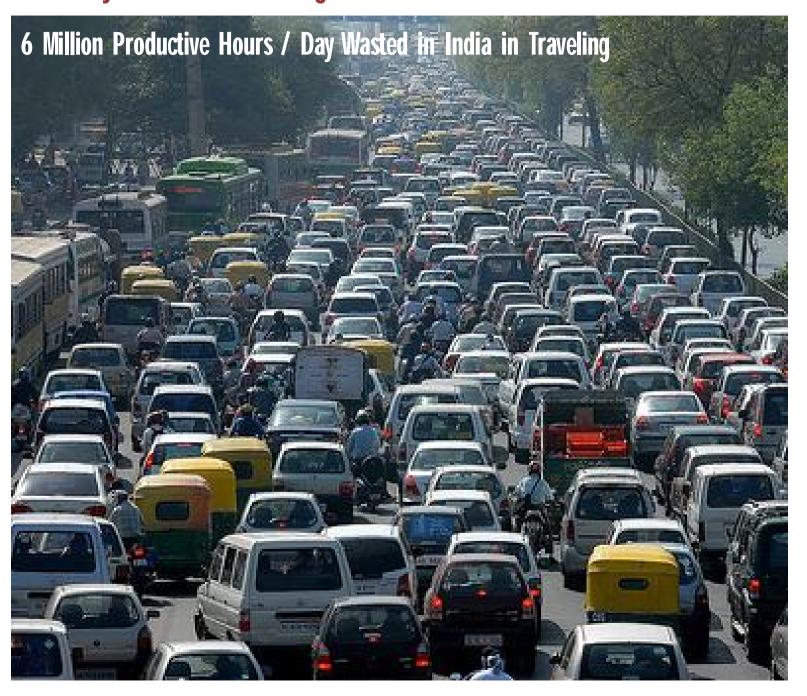
Today 1643 people will move to Delhi from their villages. . . .



More than ever before , Cities are home to Humanities great expectations....



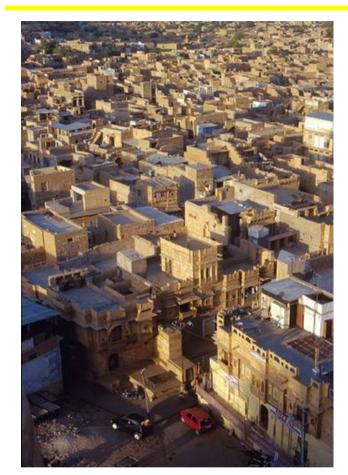
But they are also becoming the cause of A Crisis of Resources



Urbanisation is inevitable.

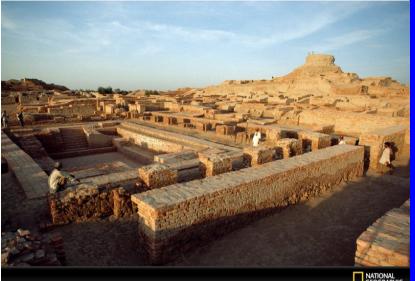
The potential benefits of urbanisation far outweigh the disadvantages. The challenge lies in exploiting the possibilities.

Cities - Evolution



Jaisalmer

They were definitely more Energy Efficient than our present Modern Cities





Old Delhi

OLD CITIES

CLIMATE FRIENDLY

WALKABLE

LIVEABLE

SECURE

COMMUNITY LIFE

Industrial Revolution Defined a New City

Technology and Transportation both have played a significant role in shaping the cities



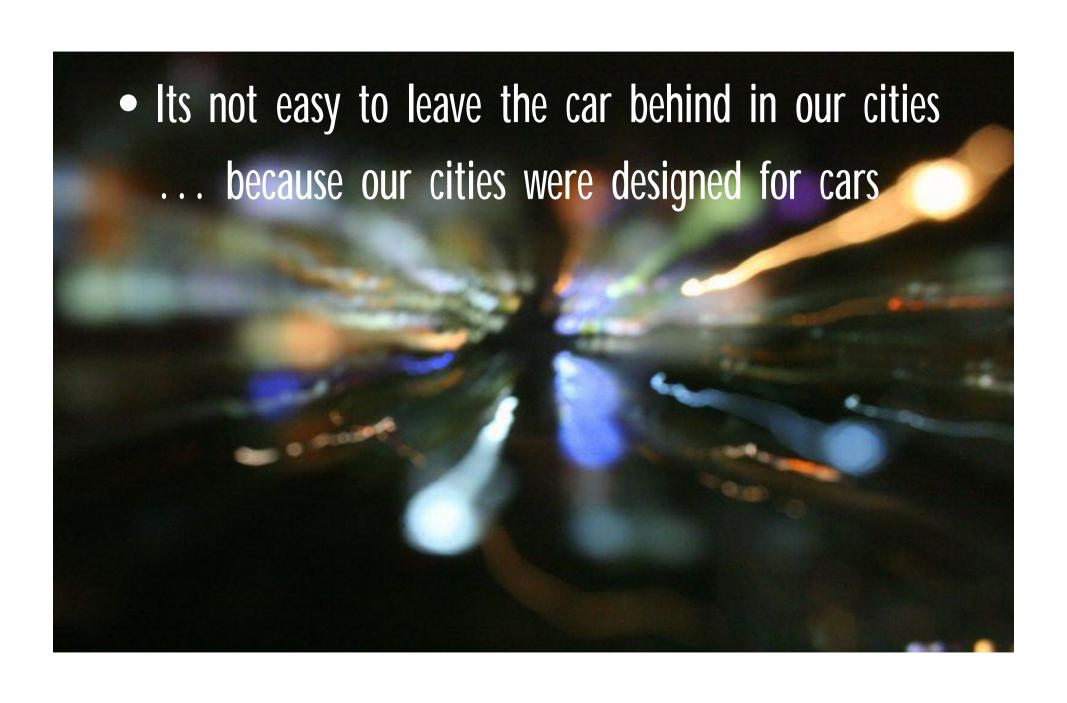


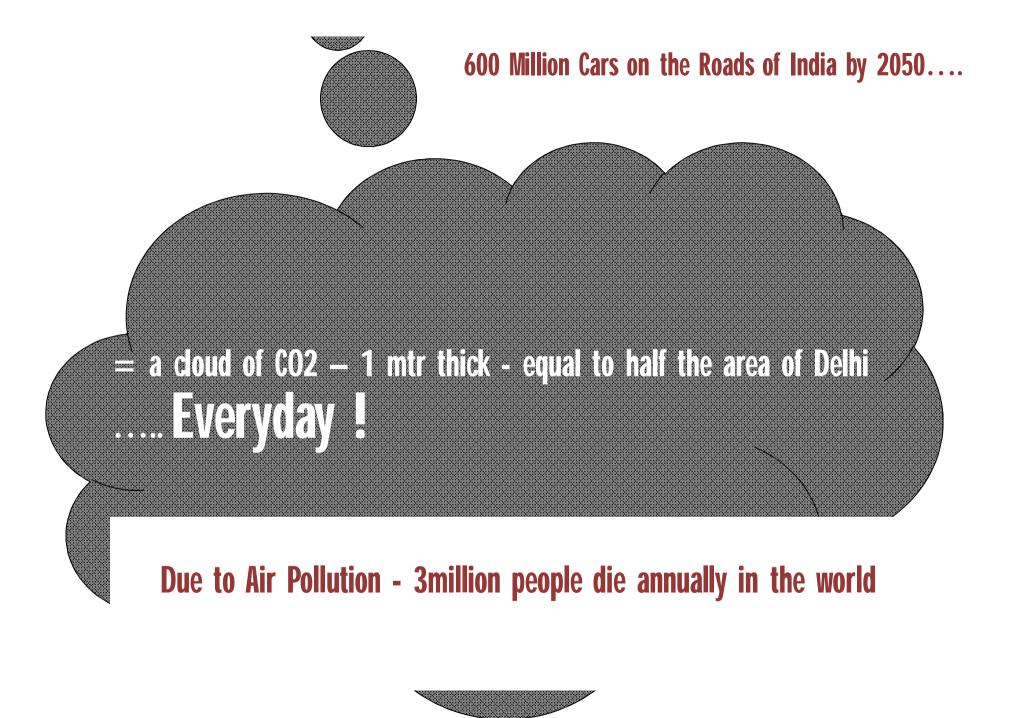
Post 1945

CARS.....CONSTRUCTION OF FREEWAYS....LOANS
FOR SUBURBS

The low dense suburbs....essentialising the ownership of cars







Not Even 1 % of solid waste in our country is processesed



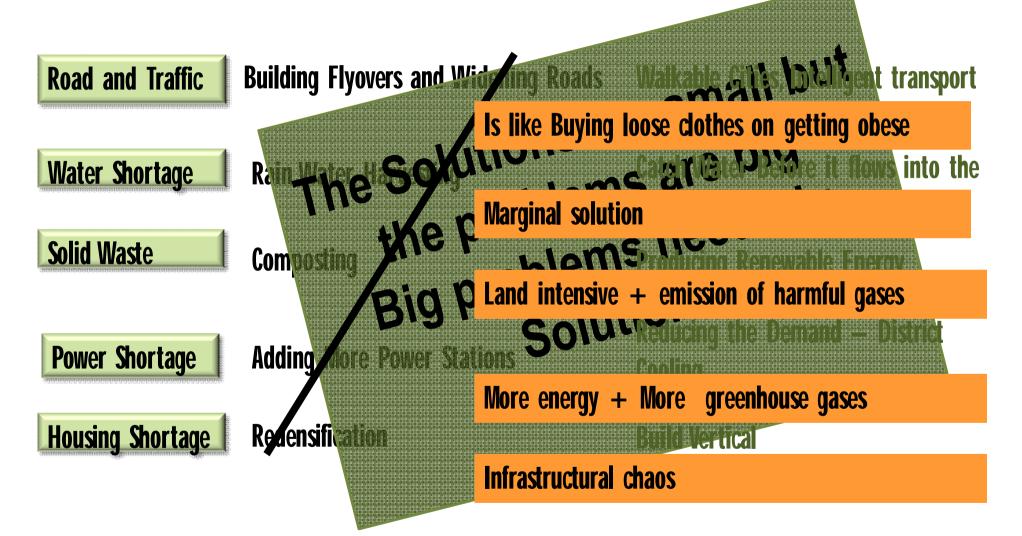
Have we reached the next Tipping Point?

Cities are not only about City Scapes or even just about homes.....

They are equally about Transport, Power, Water, Waste, Communication, Supply Chains, Economic drivers and most importantly, about LAND

Present Solutions to the City Problems

NEXT CLASS City Solutions



Developed Cities which are already constructed might not have the incentives to carry out these solutions **But**



India has a golden opportunity to Leap Frog all the stages of Non Sustainable Development

NEXT CLASS CITY

NEXT CLASS CITIES

'Building Vertical'

Not for Monuments But for Habitats



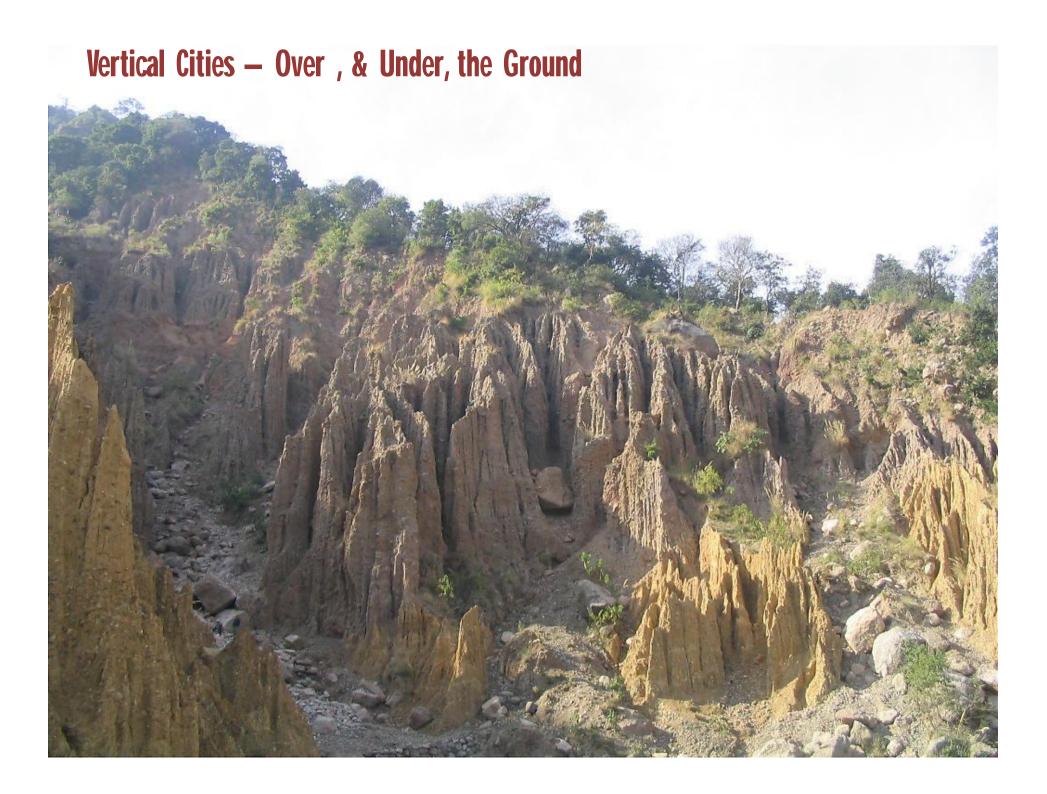
Which is more Sustainable?



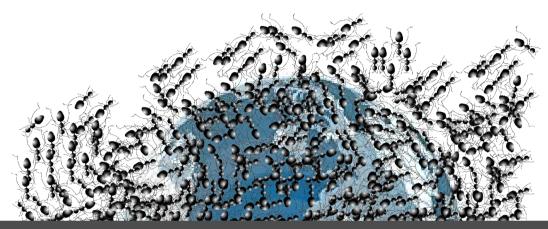
8090 sq.m. of land per capita Lutyens Delhi

40 sq.m of land per capita

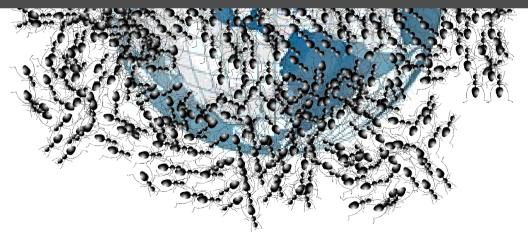




IF ANTS WERE TO MAKE HORIZONTAL HABITATS ON EARTH



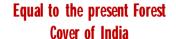
ANTS - AN ULTIMATE APPRECIATORS OF LAND AS A RESOURCE

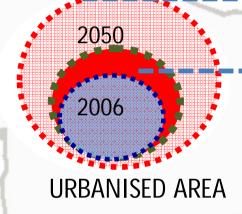


THEY WOULD REQUIRE 20 TIMES THE LAND AREA OF EARTH

900 Million People Being Added To Urban India By 2050







WITH CONVENTIONAL PLANNING

ADDITIONAL 185,000 SQ.KM.

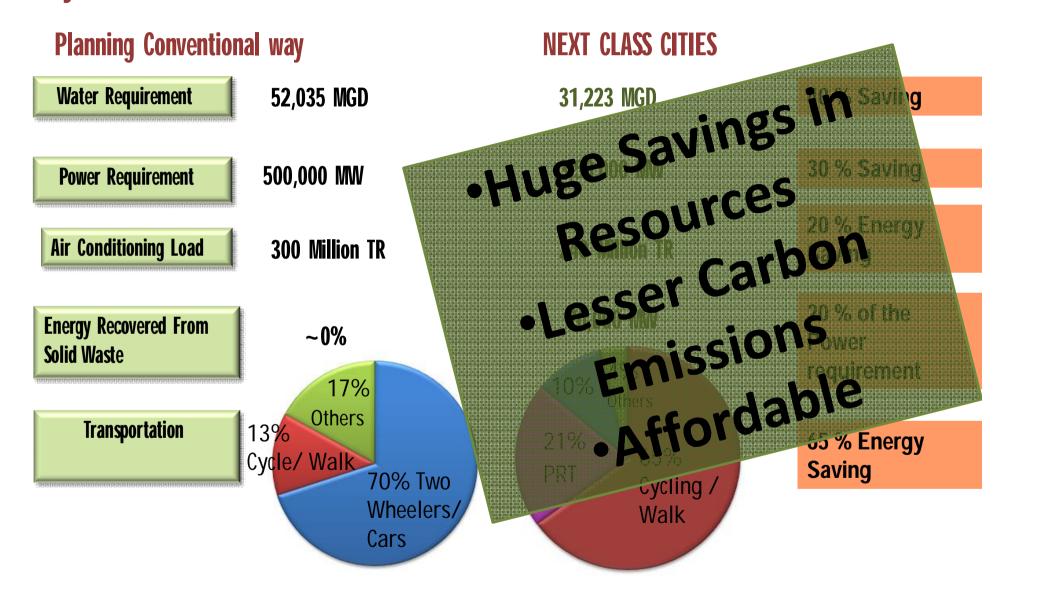
Density of 5,000/sq.km

BUILDING TALL
ADDITIONAL 23,000 SQ.KM

Density of
40,000/sq.km

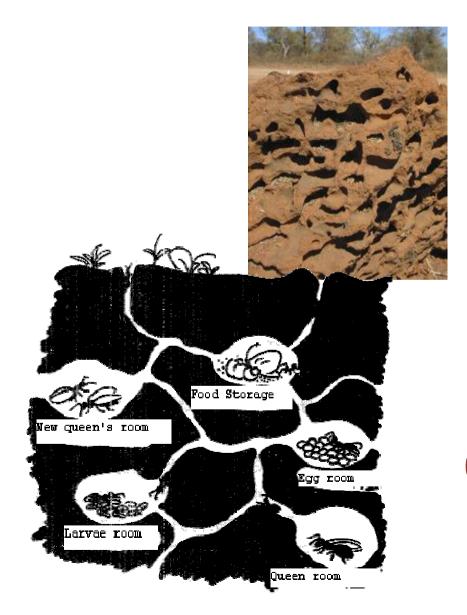
85% SAVING IN LAND

City Infrastructure needed in India — 2050



SMALL Solutions <u>are</u> Beautifulbut BIG Solutions are Imperative

Ants live in Colonies / Cities





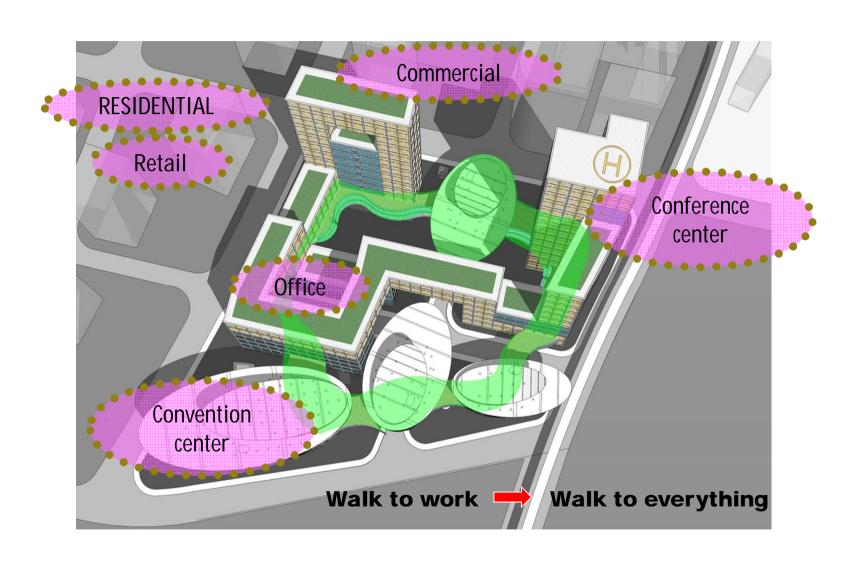
ONE SINGLE ORGANISM WITH MULTISYSTEMS

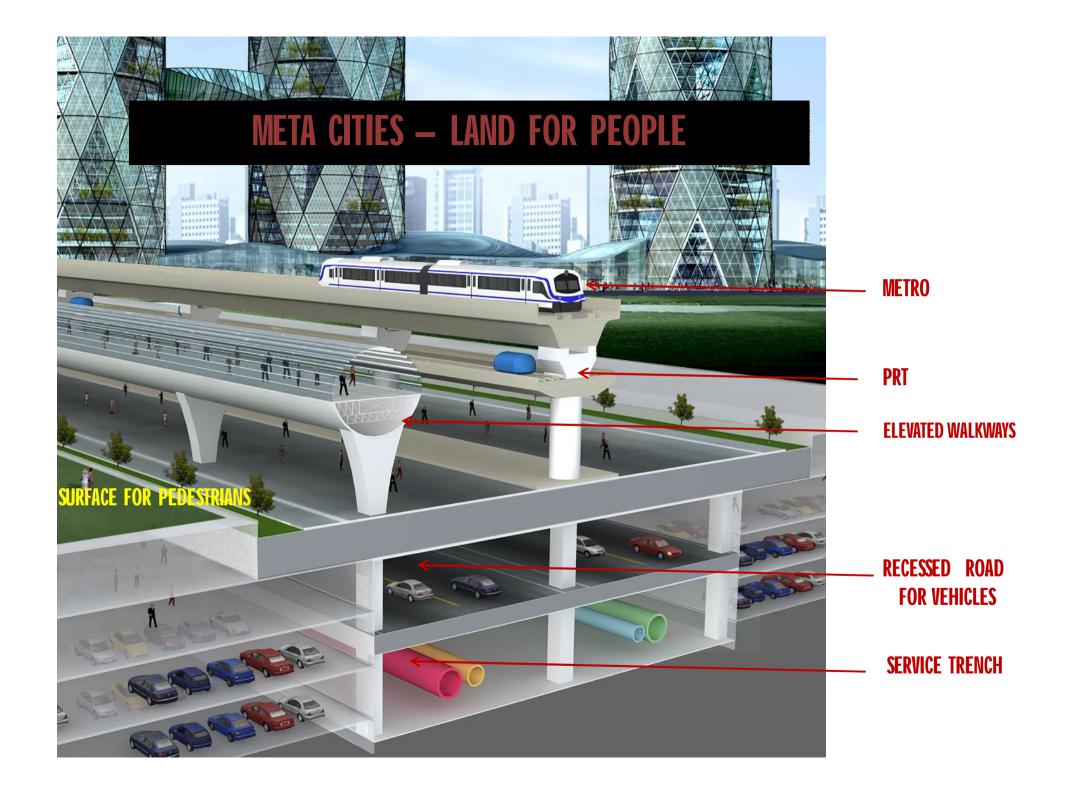
"A META SYSTEM"

A City needs to be like an organism where all the functions are well coordinated - META CITIES

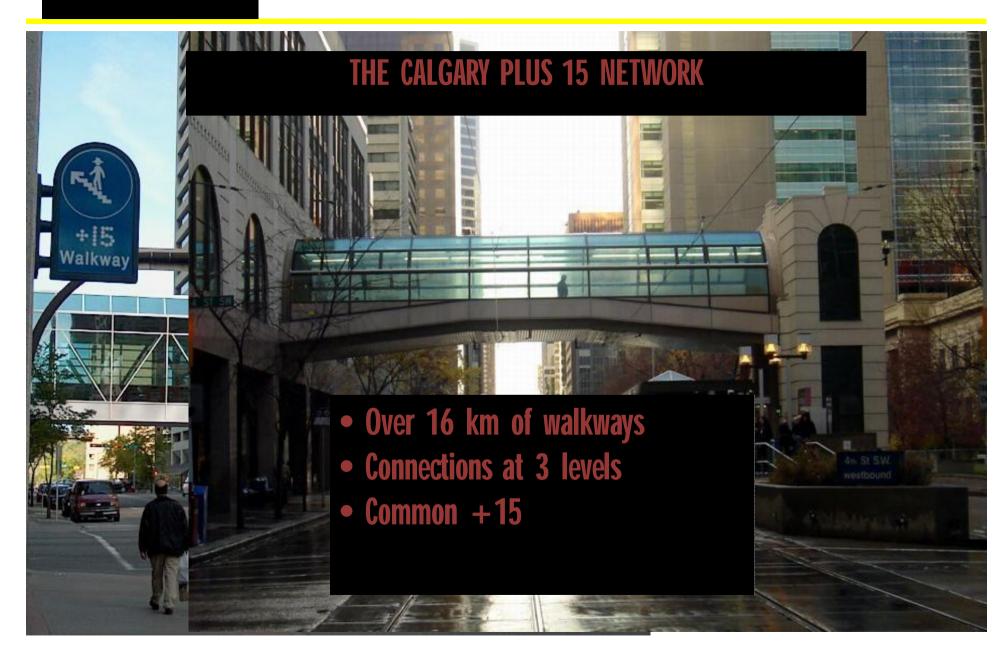


META CITIES - Self Sustainable Units / Mixed Use Communities with well knit functions

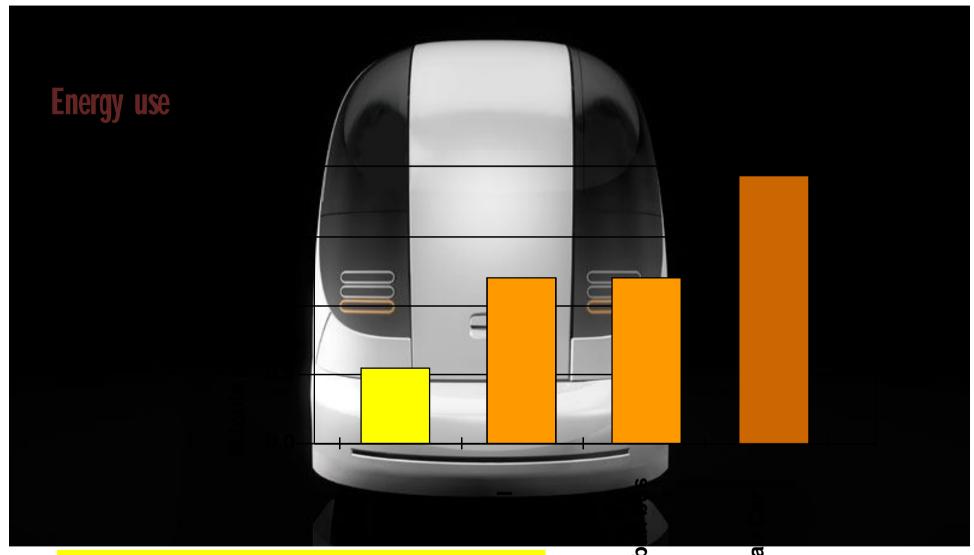




Connected ..



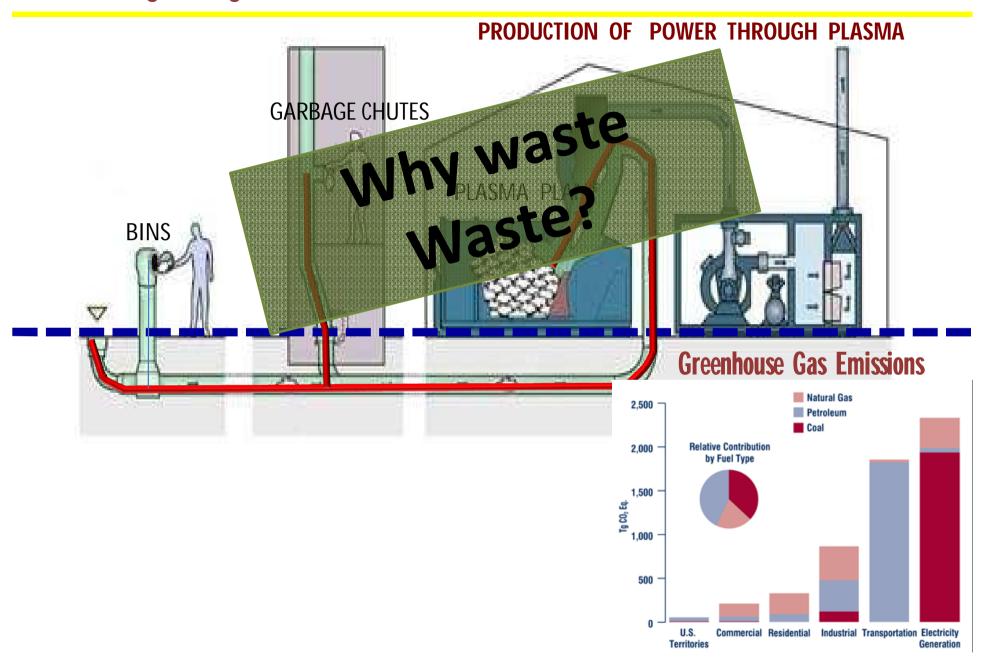
Eco Friendly Technologies on City Scale



PRT reduces carbon emissions by:

- 70% compared with cars
- 50% compared with train/bus

Producing Energies



Using Wasted Materials



One Bryant Park, America

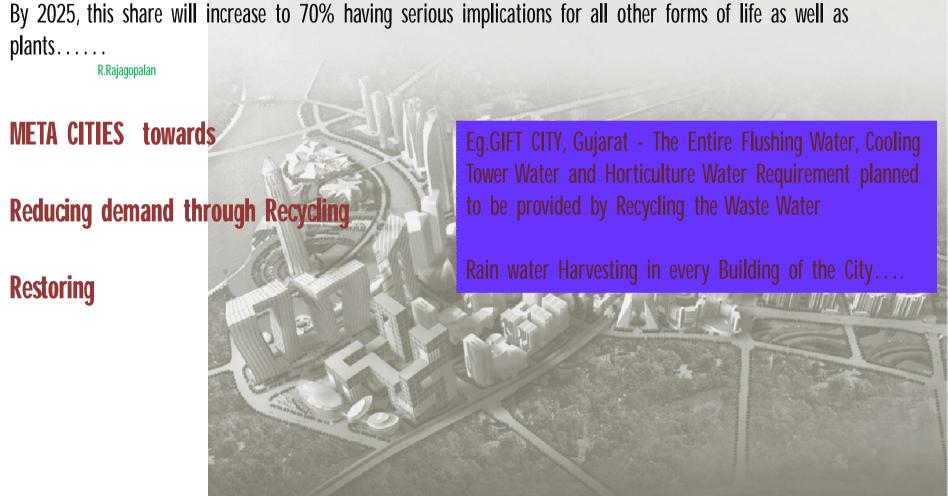


56,250 tons of CO₂

Saved from entering the atmosphere by adding 45% blast furnace slag to the cement used at One Bryant park

META CITIES — WATER NEUTRAL AND ZERO DISCHARGE CITIES

Human Beings use upto 54 % (including irrigation) of all accessible freshwater supplies in the world. By 2025, this share will increase to 70% having serious implications for all other forms of life as well as



META City – A Community

Indian cities are exclusionary — fail to create Public spaces. Cut, divide, wall up, segregate. Planning norms are designed for exclusion.



Building Dense and Vertical to create well knit and coherent communities



Beyond Glass and Concrete....



META CITIES — More Productive....

COMPACT DEVELOPMENT

KNOWLEDGE SPILLOVERS

The increased Commercial

Density afforded by tall cities has key Economic impacts

COMPETITION

SPECIALISATION

EFFICIENCY

What India Needs to do.....

A National Discourse on City Planning

City Planning needs a **Paradigm Shift**

Government Incentives for Building green and Optimisation of Resources

Strict

Review the Planning Norms

Based on Quantified Environmental Costs and Benefits of the project e.g. BCA Singapore yardsticks Revie ane FSI's

Integrated Design Rather than Zoning -Large Stake of Private Sector and Citizen's Characterization be Self Sustainable Units

Inclusive Cities – Informal sector

Above All — A Futuristic Approach for Cities







Reducing the ecological footprint of our cities

Making our cities for people

Mega Solutions & Mindset change