

TOWN HALL CONFERENCE ROOM

Urban Planning S Dattatri

1500 – 1530 *Tea Break* LE MORGAN CAFÉ

1900 – 2100 Dinner at Visitors Centre Bus leaves MMC Parking at 1800



Auroville Green Practices Conference 2011 Regenerative Townships of Tomorrow

Name of Workshop: Urban Planning

Name of presenter: Bankim Kalra

Organization: IBI Group

City and country: Pondicherry/ Gurgaon/ India

Email id: bkalra@ibigroup.com



List of projects that the presenter has been involved with (as a professional or as a student)

Name of project: Regional Planning Framework for the Greater Puducherry Area, India

Name of project: Redevelopment Master Plans- various communities in the U.S.

Name of project: Urban Design Guidelines- various communities in Florida, U.S.

Name of project: Transit-Oriented Development Plans, U.S.

Name of Project: International Zone Master Plan, Auroville







Issue: Civic Responsibility and the concept of Participatory Planning- lack of a clear planning or urbanism process.

Brief description of issue: "People" ideally should be the centre of the planning process. But, some valid questions need to be answered- if people are the focus how do we as planners encourage "all" to adopt consciously lifestyle altering choices that will change the "business as usual" mode of functioning. **And** how do we define "people, "community", "constituents", especially in a complex socio-cultural environment like ours?

Critical issues

Issue: Ambiguous Role of Urban Design in Planning and Development

Brief description of issue: *Historically, urban design has been the key driving force behind city models of the past or the future. In the Indian context today, urban design is often an afterthought in public realm projects and the "spaces between the buildings" are completely missed.*



Solutions to Critical issues

Issue: Ambiguous Role of Urban Design in Planning and Development Solution to the issue/ Next Steps:

- Need more urban design (and planning) training courses in universities
- Draft and Incorporate contemporary design standards in all public development and infrastructure projects at various levels
- Coordinated Urban Design Process= Infrastructure+ Transportation+ Land Use + Built Form+ "People"
- Develop built form design guidelines in which the private sector is required to contribute to the improvement of the public realm at the local level

Issue: Lack of a clear planning or urbanism process in the Indian context Solution to the issue/ Next Steps:

- Initiate an far-reaching Communications Program for Citizen Education, Awareness and Empowerment in development- urban, rural, regional, city, neighborhood!!!
- Work with researchers, institutions, communities to develop a process that works for the Indian population and not adopted directly from the West (such as the new "buzz" word – "Charrettes" in some government projects).
- National level policies in all development projects that mandates citizen participation beyond mere tokenism

Thank you



Auroville Green Practices Conference 2011 Regenerative Townships

By Geetha Meenatshi Kanthasmy M.arch (Real Estate), IGBC AP Senior Architect, Studio Cria Chennai, India geethasam11@gmail.com

Urban Planning & Regeneration

Geetha Meenatshi Kanthasamy holds a Masters degree in Architecture specialized in Real estate development and a Bachelor of engineering (civil) from Anna University.

9 years of extensive experience in the construction related fields in planning, designing and coordinating various Civil and Interior projects for commercial buildings and residences as an independent consultant. Presently performing as a Senior Architect for Studio Cria.

Back ground and Experience

Worked on a Presentation on the concept of Better City, Better Life organized by UN-HABITAT and Madras University on the World Habitat day -2010 which won the first prize and was sent to 'The *World Expo' at Shanghai, China* sponsored by Marg group of companies.

Back ground and Experience

The urban challenges that are faced in converting an existing city to a sustainable and a regenerative city with parallel fast pace real estate additions happening widening the ecological footprint that we occupy in developing countries

A Critical Issue in development of regenerative cities

In the past decade, India has witnessed a remarkable growth in the real estate sector. Next to Agriculture the construction industry is one of the major contributor for our country's GDP.

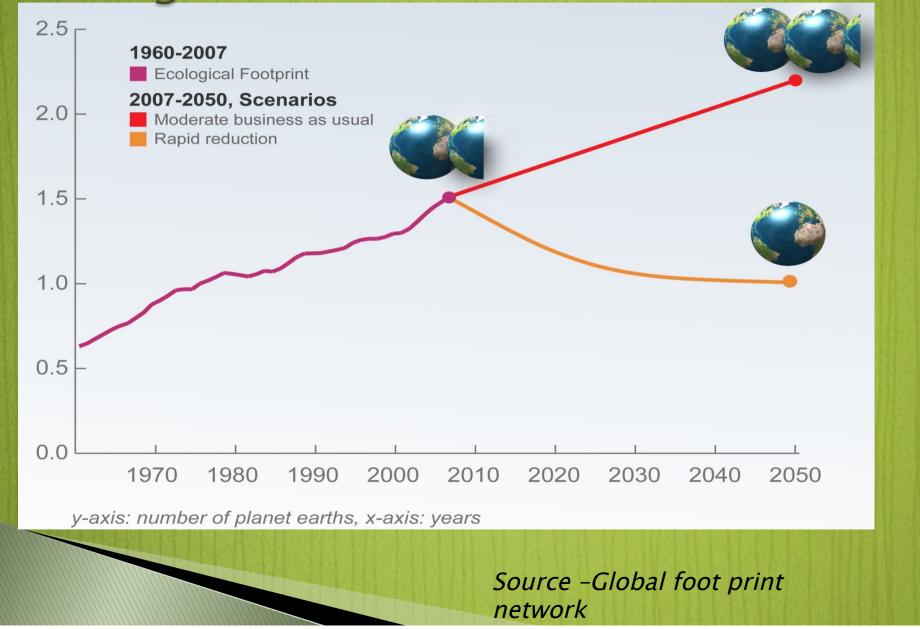
Not only the metro cities like Delhi, Mumbai, Pune, Bangalore, and Chennai are seeing this development but also small regional towns of India are affected by this Indian real estate boom Due to relaxation of laws with FDI

The fast pace Real estate devel

As a result the effect of Urbanization felt in all the elements of our nature
Air and Soil Pollution - Land
Depletion of Water - Water
Depletion of fuel , energy deficit - Fire
Climatic Change - wind
Environmental degradation - Space

FIVE ELEMeNTS OF NATURE

Ecological Foot Print



Ecological foot print

Today humanity uses the equivalent of 1.5 planets to provide the resources we use and absorb our waste. This means it now takes the Earth one year and six months to regenerate what we use in a year.

UN scenarios suggest that if current population and consumption trends continue, by the 2030s, we will need the equivalent of two Earths to support us.

Eco foot print deficit of countries

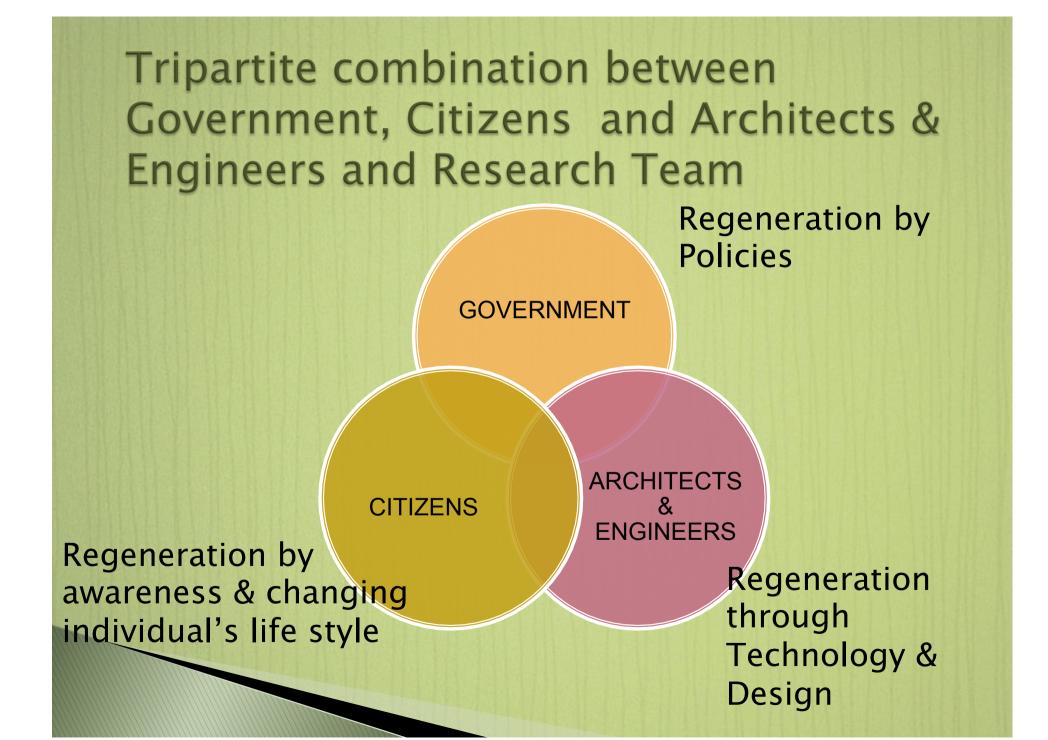
Country	Population	Ecological Foot	Bio capacity	Deficit /
		print/person		reminder
	In millions	In gha/pers	In gha/pers	In gha/pers
UAE	6.25	10.68	0.85	-9.83
USA	308.67	8	3.87	-4.13
Canada	32.95	7	14.92	7.91
Australia	20.85	6.84	14.7	7.87
United Kingdom	61.13	4.89	1.34	-3.55
Japan	127.4	4.73	0.6	-4.13
Indonesia	224.67	1.21	1.35	0.14
India	1164.7	0.91	0.51	-0.40
China	1336.5	2.21	0.98	-1.23

Source – Ecological Foot Print Atlas 2010 – Global foot print network

Sustainable Urban regenerative measures developed through Tripartite combination -

 The Government – Through Policy,
 Citizens – through Awareness
 Architects, Engineers and Research Team – Through developing design and Technology

Solution to the Critical Issues



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- Bogota, Columbia was transformed to a pedestrian friendly city, revitalizing the bus transportation system, augmenting the side walks and creating 180 miles of bike paths
- San Francisco, California one of the first cities to ban non recyclable plastics and a leader in Green buildings
- Copenhagen, Denmark the cyclist dream city is known for its long term environmental policies and strategies
- Vancouver, canada with over 90 % of the city through renewable energy
- Malmo, Sweden green urban development
- Portland , Oregon Green belt around the urban areas
 - Reykjavik, Iceland Rapid transit transit, renewable energy ... aiming to be fossil free by 2050

Green Cities through Policy



Did you know?...

Rushing the toilet accounts for 30% of household water usage. By placing a brick in the toilet cistern we could save 10 million litres of water a day.













- Maximize use of recyclable, natural and local materials
 - Incorporating regenerative measures as part of design and Aesthetics
 - Consider the impact of buildings and developments in global environment while designing
 - Conserving and reusing water through better technology
 - Optimize energy performance and climatic conditions through orientation and design Reduce, Reuse and Recycle.....

Technology

Technology

Building-integrated photovoltaics (BIPV) are photovoltaic materials that are used to replace conventional building materials in parts of the building envelope such as the roof, skylights, or facades





PV façade at railroad station Lehrter Berlin

CIS Tower in Manchester, England was clad in PV panels at a cost of £5.5 million. It started feeding electricity to the National Grid in November 2005 Plastic bags banned at Alagarkoil, Madurai "This is the first among the tourist spots in the district where plastic carry bags and other items like plastic tumblers are banned," District Collector, C. Kamaraj, said after flagging off an awareness rally on ill-effects of plastics.

The Metropolitan Transport Corporation (MTC) seems to have taken a determined step forward to convert all its diesel-operated buses into compressed natural gas (CNG)-run vehicles to reduce their emission-levels and operational cost.

Small steps towards Regenerative city

Small steps towards Regenerative city

India's first green housing project facilitated with building-integrated solar power has been developed in a new district of Kolkata.





Regenerative Townships of Tomorrow Auroville 8-10 September 2011

Harold Bekker

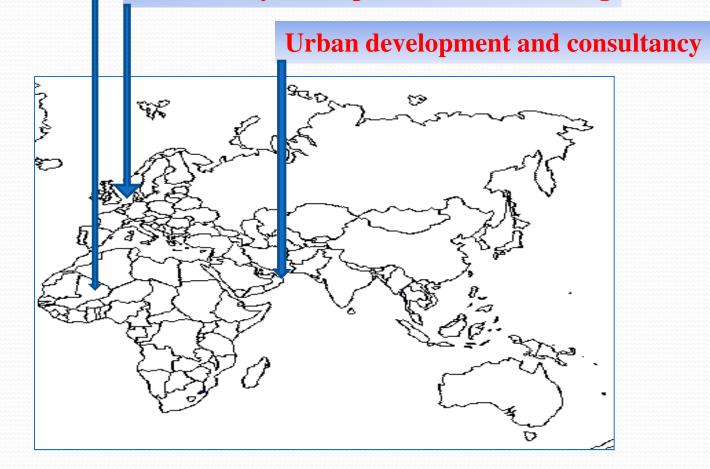
Advisor sustainable community development BSc Land- and Water management

Dubai (UAE)

E-mail: <u>harold.bekker@gmail.com</u>

Rural development and research

Community development and contracting



• Sustainable development

Community participation

Environmental awareness





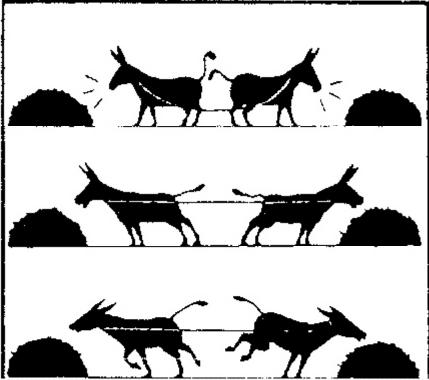




The design process is done on a fragmented and independed basis.

•No interaction

- Miscommunication
- •Competition

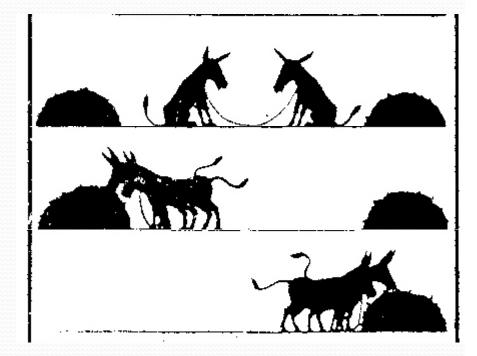


LACK OF COMMUNICATION CAUSES CONFLICT !



Communication

- •Engagement
- Interaction
- Collaboration



COOPERATION IS THE KEY!!

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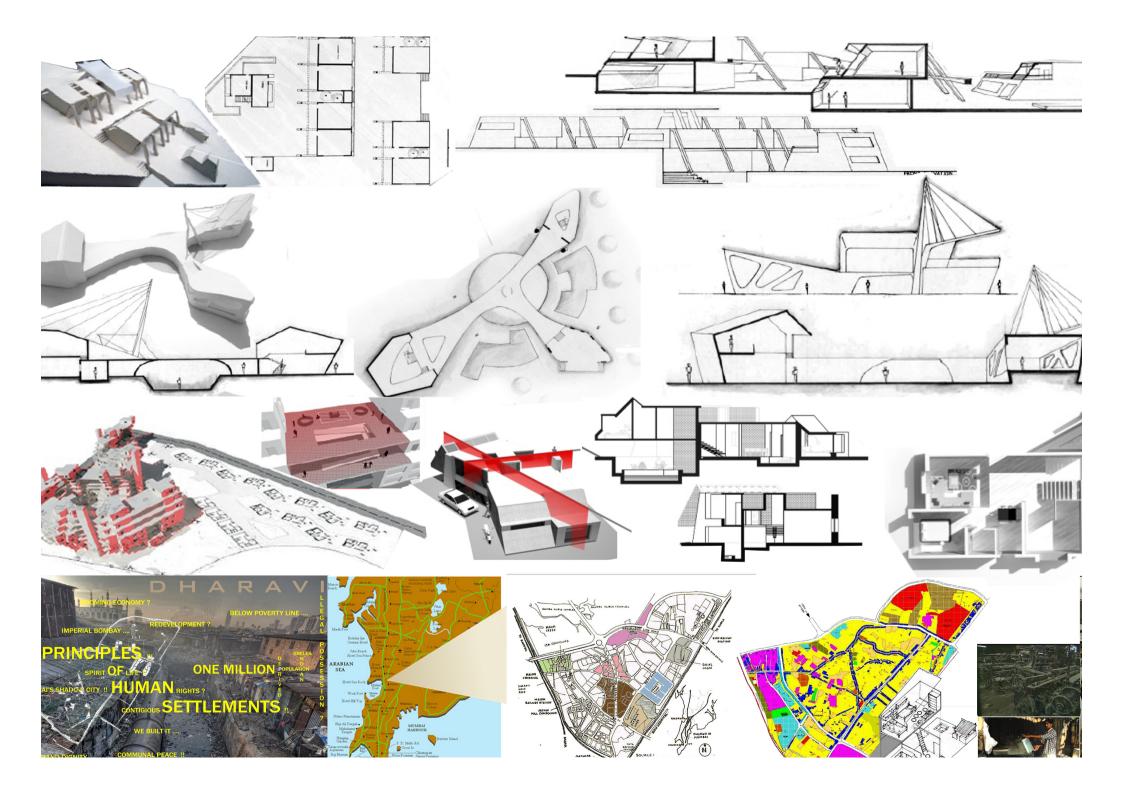
Name of Workshop: URBAN PLANNING

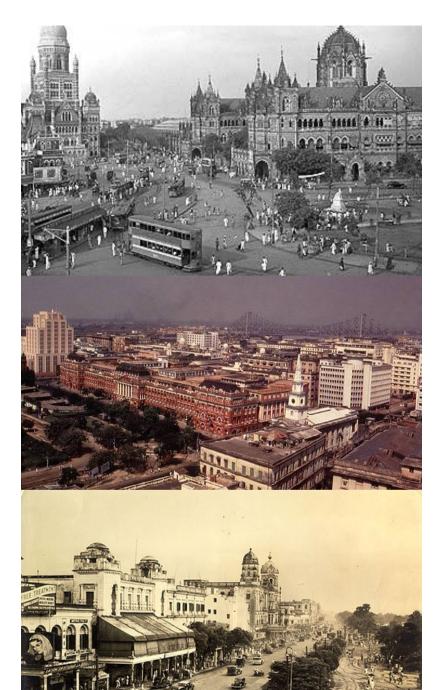
Name of presenter: Husain Vaghjipurwala

Organization: The Maharaja Sayajirao University of Baroda

City and country: Vadodara, India.

Email id: husainvj@yahoo.com

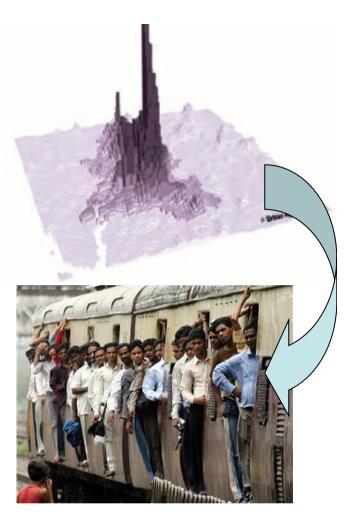




Our major cities, even today, are dependent on the Colonial city nucleus for major economic turnover and important government offices.

This has led to a volatile increase in population density of these cities and an unfavorable decrease in the ecological foot print.

The new 'Planned' extensions to the existing city provides poor economic and business development opportunities, but of





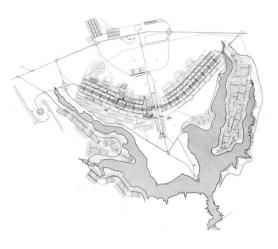


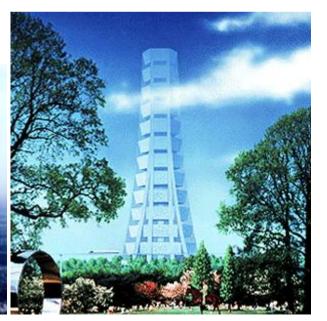


Could the development of a new city right from scratch, like Lavassa or Brasilia, be a solution or will its condition be the same as the earlier Extensions. What can be done so that business and economy flourish in such a new born city or extensions ?

Instead of a uni-centred working nucleus, would a plan with polycentres for all economic actvities of a city be helpful ?

A step ahead, can we see a future indian city in the form of a few structures which provide housing and ensures income of its residents.





THANK YOU

Urban planning – integration of conflicting interests

Auroville seminar 8 – 10 Sept 2011 Workshop URBAN PLANNING 8 Sept PM

Kaarin Taipale, PhD (Urban Studies)

Freelance urban researcher, sustainability advocate and columnist, also involved in local politics Helsinki, Finland – kaarintaipale(at)gmail.com; kaarin.taipale(at)aalto.fi

40 km

Personal background & publications

CV IN SHORT

- 2011 Freelance writer and lecturer; Founder, DOCHAKUKA For a more decent world
- 2006 10 Coordinator and Chair, Marrakech Task Force on Sustainable Buildings and Construction; UN-led initiative of the Ministry of the Environment of Finland
- 2009 Ph.D. (Urban Studies), Helsinki University of Technology (now Aalto University)
- 2005 06 Guest professor (Sustainable Urbanism) at Chalmers UT, Gothenburg
- 2004 External expert, Holcim Foundation, Zurich holcimfoundation.org
- 2004 Immediate Past Chair and Senior Advisor, ICLEI World Secretariat, Toronto
- 2000 03 Chair of ICLEI Local Governments for Sustainability
- 1993 03 Executive Director, Building Control Department, City of Helsinki
- 1992 93 Deputy City Architect, Department of Public Works, City of Helsinki
- 1988 91 Editor-in-Chief, ARKKITEHTI, the Finnish Architectural Review
- 1985 88 Own practice as an architect in Helsinki
- 1973 84 Design architect in architecture offices in Zurich, Helsinki and New York
- 1982 M.Sc. (Historic Preservation), Columbia University, NY
- 1973 M.Sc. (Architecture), ETH-Zurich

SELECTED MOST RECENT PUBLICATIONS

- 2010 *Sustainable Buildings and Construction in Africa.* (co-editor) Federal Ministry for the Environment, Nature Conservation and Nuclear Safety, Germany, (<u>www.ymparisto.fi/download.asp?contentid=122031&lan=en</u>)
- 2010 Financing as risk management in a sustainable building process. Chapter in *Sustainable Building Process*, VTT research project
- 2010 Finland took buildings and construction to the Marrakech Process. *POINTS,* Newsletter of the Env. Ministry of Finland, Points on the Marrakech Task Force on Sustainable Buildings and Construction with Finland as lead country 2006-2010
- 2010 Buildings and construction as tools for promoting more sustainable patterns of consumption and production. Sustainable Development Innovation Briefs, Issue 9, March 2010. UN DESA DSD, New York, un.org/esa/dsd/resources/res_pdfs/publications/ib/no9.pdf
- 2009 *Cities for Sale. How economic globalization transforms the local public sphere*. Doctoral thesis. Helsinki University of Technology. Espoo. <u>lib.tkk.fi/Diss/2009/isbn9789522480491/isbn9789522480491.pdf</u>

Sustainable cities require...

- Integrated land use and mobility planning
- Decent housing and transport for all
- Decent work for all
- Sustainable urban infrastructure(s)
- Energy consumption reduction targets
- Investment in renewable energy production
- Sustainable public (and private) procurement
- Sustainable financing!
- And to be able to accomplish all that, accountable, participatory and transparent governance.

Critical issues specific to urban planning

- "Postal stamp planning" (incremental, haphazard, one-off planning solutions, which are based on the wishes of the incidental land owner and real estate speculation)
- Missing integration with planning of urban infrastructure and public services, mobility and energy in particular
- Segregation, "walled cities"
- Disappearance of urban public space

Solutions or suggestions for the issues

- "Postal stamp planning"
 - Adherence to a coherent planning system w/ metropolitan planning/zoning/detail planning
 Public land aquisition
- Missing integration with infrastructure

 No land use planning w/o access by public transport
- Segregation, "walled cities"
 - Mixed-use planning
- Disappearance of urban public space
 The pedestrian to be the king, no the automobile

verdaus landscape architects regenerative townships





Urban Planning Contact Details

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- Tel | +97143452650
- Fax | +971 4 345 2651

Urban Planning Background

- Laith Wark is a Registered Landscape Architect and a member of the Australian Institute of Landscape Architects (AILA).
- Thirteen (13) years professional experience total; four (4) years in Australia, nine (9) years in The Gulf.
- Co-founded Verdaus Landscape Architects in 2004. Now Projects Director.
- Responsible for landscape scope on over two hundred (200) projects in Australia, the Middle East, and India.
- Has experience on devlivering landscape and water integrated solutions on real projects.
- Projects include: New Parliament House of Oman, Sohar University, Navi Mumbai Special Economic Zone, Veneto East in Dubai Waterfront.

Urban Planning Case studies

- Urban planning is key to achieving regenerative townships.
- Integrated Water Cycle Management (IWCM) is key to achieving regenerative townships.
- Water Sensitve Urban Design (WSUD) is a key approach to achieving IWCM.
- WSUD in the broadest sense needs an integrated design approach, simultaneously addressing issues such as: physical site planning and design, landuse and openspace programming, and mobility.
- In particular there is a key relationship between stormwater drainage, recreational open space, and real estate opportunities.
- "Water Sensitive Urban Design (WSUD)" is a developed approach to both strategic planning and detailed engineering.

Urban Planning Issues

- Urban planning needs a highly sophisticated and coordinated planning approach to achieve regenerative townships.
- Building a team with the right structure and right mix of skills and expertise is key to success.
- Key decisions are made at planning stage and needs input from the right experts and stakeholders. This does not stop.
- Moving from planning to design is a critical transition. Success depends on how well all parties understand and commit to the mission.
- Due to lack of the above landuse and openspace programming often compete and fail to secure the benefits of an integrated approach.
- Integrating stormwater management with recreational open space through greenway and park systems can generate real estate opportunities.

Urban Planning Solutions

- Provide urban planning teams with strong leadership.
- Establish a clear mission and goals at the planning stage with a clear vision on how to achieve integrated townships.
- Maximise return on investment by integrating stormwater management with recreational open space through greenway and park systems to generate real estate opportunities.
- Focus planning efforts on integrating flood protection, stormwater treatment and harvesting, recreational open space, landuse and mobility.
- Reduce cost of stormwater infrastructure through integrated design. Embed Water Sensitive Urban Design (WSUD) treatment trains in the landscape.

Auroville Green Practices Conference 2011 Regenerative Townships

Name of Workshop: Urban Planning

Name of presenter: Sujaya Rathi

Organization: Center for Study of Science, Technology and Policy

City and country: Bangalore, India

Email id:sujaya@cstep.in

Background and Experience

List of projects that the presenter has been involved with (as a professional or as a student)

Name of project: Land Use and Transportation Plans – Various cities in USA Name of project: Multimodal Investment Analysis, USA Name of project: Traffic impact studies- India and USA Name of project: Mobility Indicators for Bangalore, India Name of project: Traffic Calming project - USA Name of project: Capacity Building for Sustainable Urban Transport Planning- India Name of project: Comprehensive Mobility Plan, Guwahati Name of project: Light Rail Study, India

Critical issues

List of issues that the presenter is aware of in the workshop topic

Issue: Urban Plans/planning Brief description of issue: Plans are treated as "artifacts" – not a process.

Issue: High rate of urbanization without planning for it

Brief description of issue:

•Urbanization in India today is synonymous with booming unplanned and unsustainable megacities.

•Need to mitigate the impact of this urban explosion and plan for the future.

•The challenge is to balance the demands of high growth on one hand and ensure sustainable growth on the other

Solutions to Critical issues

Possible solutions to the issues presented in the previous slide

Issue: Urban Plans/planning

Solution to the issue: Multi-disciplinary approach, and participatory nature of the process of problem formulation for planning

Issue: High rate of urbanization without planning for it

Solution and challenge to the issue:

- Economic planning be linked to spatial/regional planning
- Comprehensive strategy on a regional scale that provides form for sustainable emergent systems.
- Strengthening small cities to ease the unsustainable burden on bigger cities and mega-cities

Thank you