CHALLENGES AND OPPORTUNITIES FOR BUILDING RESILIENCE IN CITIES- ROLE OF POLITICAL LEADERSHIP

TERI-APN TRAINING PROGRAM ON BUILDING URBAN CLIMATE CHANGE RESILIENCE 20-22 APRIL 2015 BHUBANESWAR, ODISHA

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Recent calamities in India have drawn attention not only towards the great damage climate events can instill on settlements but also towards the uncertain climate conditions that might await us in near future

- Urban development has assumed important position in national agenda given the growth rate and increasing GDP contribution of the urban centers to nation's economy.
- However, the nature of urban development so far is not only putting pressure on the resources but is also oblivious of climatic factors, thus impacting the environment negatively



Climate change impacts pose additional



Development goals of the cities are seriously undermined by climate change impacts

- There is a strong need therefore, to incorporate climate resilience considerations into
- City systems (Infrastructure, services, sectors)
- City planning (Development norms, land-use planning)

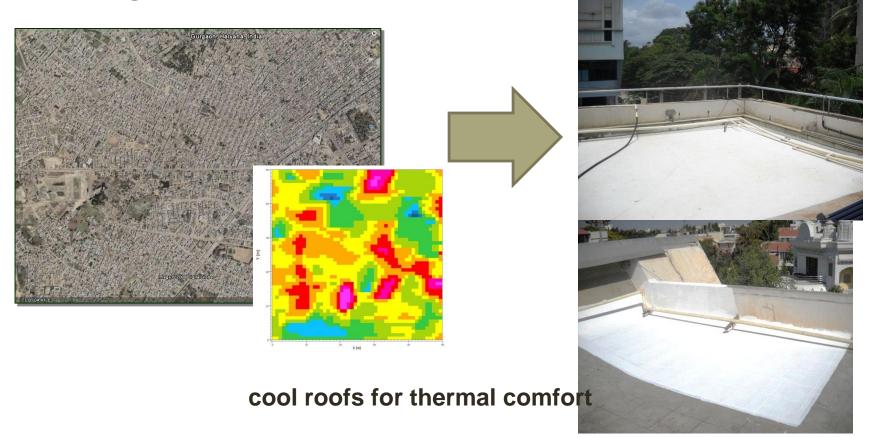
Resilient cities in the light of climate change should be able to develop plans for future development and growth bearing in mind the climate impacts that the urban systems are likely to face*.

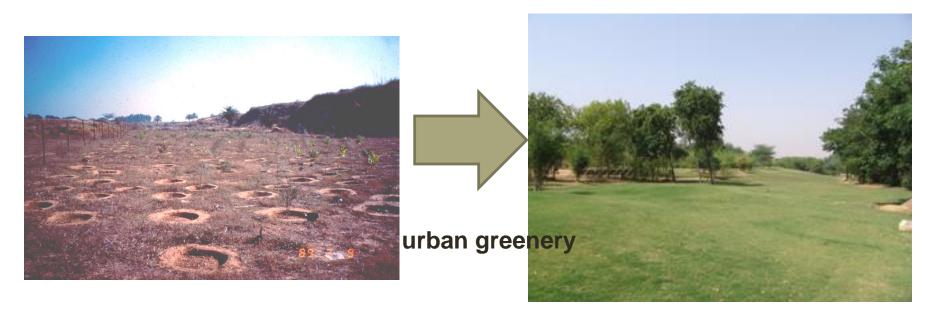
Climate resilience is not about development in new way.

It is about adding climate variability and change considerations in the planning and development framework to ensure long term sustainability and preparedness to climate change









How are climate resilient cities different or better?

- Climate resilient cities have the capability to reduce and manage the negative impacts of climate change because they have planned and factored these changes in their development goals and planning by:
 - Utilizing climate information (past and future) to identify climate stressors typical to their cities/region
 - Preparing and implementing strategies to reduce vulnerability of population and city systems.
 - Adapting to change, preparing and responding to disasters, mitigating GHG emissions

Responding to Climate Change: From Reactive to Proactive Action

Reactive (driven by actual perceived climate variability)

Proactive (driven by climate forecasting / future scenarios)

Disaster mitigation/response (post extreme event)

Disaster preparedness measures (based on current variability)

"Climate proofing" at project level

Mainstreaming climate forecasts into sectoral policies and processes

Strategic multistakeholder adaptation and mitigation planning

Key actors:

Households, CBOs, aid/relief organizations Private developers, insurers, development NGOs

Sectoral agencies (environment, water, housing, etc.)

Centralized unit ("climate czar") with strategic planning authority

Key steps:

- Urban profiling
- Identification of current and future climate stressors
- Understanding risks and vulnerabilities
- Identification of strategies to reduce vulnerability and manage risksdevelop resilience
- Steering governance processes, regulations and institutions for long term benefits
- Locating finance
- Involving community throughout

How to plan for climate resilient cities? Are there general rules to follow?



Indian cities planning for resilience

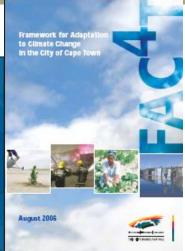
 Surat, Indore, Gorakhpur, Guwahati, Shimla, Mysore, Bhubaneswar under ACCCRN

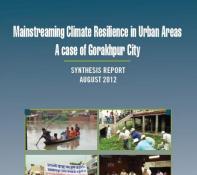
 Kanpur and Meerut under WWF initiative

 Delhi and Mumbai under Clinton Foundation Initiative

Climate roadmaps for 41 Indian cities supported by ICLEI-SA







Towards a Resilient Gorakhpur





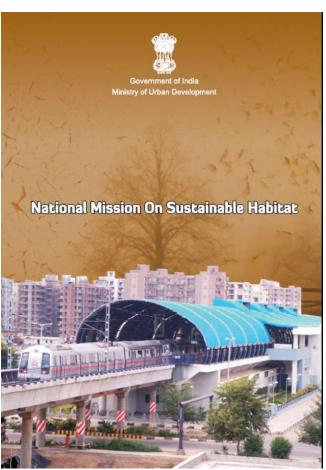
MAYOR OF LONDON

International Programs supporting Resilience

- Asian Cities Climate Change Resilience Network
- Cities Development Initiative of Asia
- UNHABITAT's cities and climate change initiative
- Rockefeller Foundation's recent 100 resilient cities program
- USAID's Climate Change Resilient Development(CCRD)
 program have been working towards addressing knowledge
 gaps with improved mechanisms to support cities to be
 climate resilient.
- Global Resilience partnership
- ADB's Urban Climate Change Resilience Partnership(UCCRP)

National Programs —existing and Future opportunity

- National and state level:
- National Mission on Sustainable Habitat
- State action plan on climate change
- National schemes like UIDSSMT,RAY, BSUPS
- Smart cities program
- Local level
- Master planning process
- District disaster management plans
- Zoning regulations/ building bye laws
- CDPs/ DPRs



Challenges

- Lack of understanding of the impacts of climate change and the fact that adaptation interventions are best employed and covered at local level.
- Creating awareness amongst the local government that adaptation is synonym to their functions and their development goals
- Already pressing development pressures might overlook adaptation issues
- Integrating adaptation at municipal level would be difficult because of the perception of contest for budget.
- Lack of capacity within the local government.
- Development plans of cities do not factor climate change related factors in a targeted way.
- Translation of global impacts of climate change to local level (downscaling) has been missing
- Lack of data and modeling framework at the city level

Need for a robust 'Institutional Policy Arena' To be made available to support city resilience building

Key Enablers

- Policy and mandate at national and state level
- Integration of climate agenda with city development agenda
- Institutionalization of urban climate resilience planning.
- Strong Political leadership at local and state level

- Use and involvement of local expertise to generate context specific locally driven solutions
- Capacity building and awareness generation to generate momentum and facilitate action at all levels
- Access to knowledge on climate variability and change
- Data management and updating to facilitate decision making

Thank You for Joining

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