



Urban Disaster Risk Reduction

A case of Indian State Orissa (Bhubaneswar)



Local Governance Network

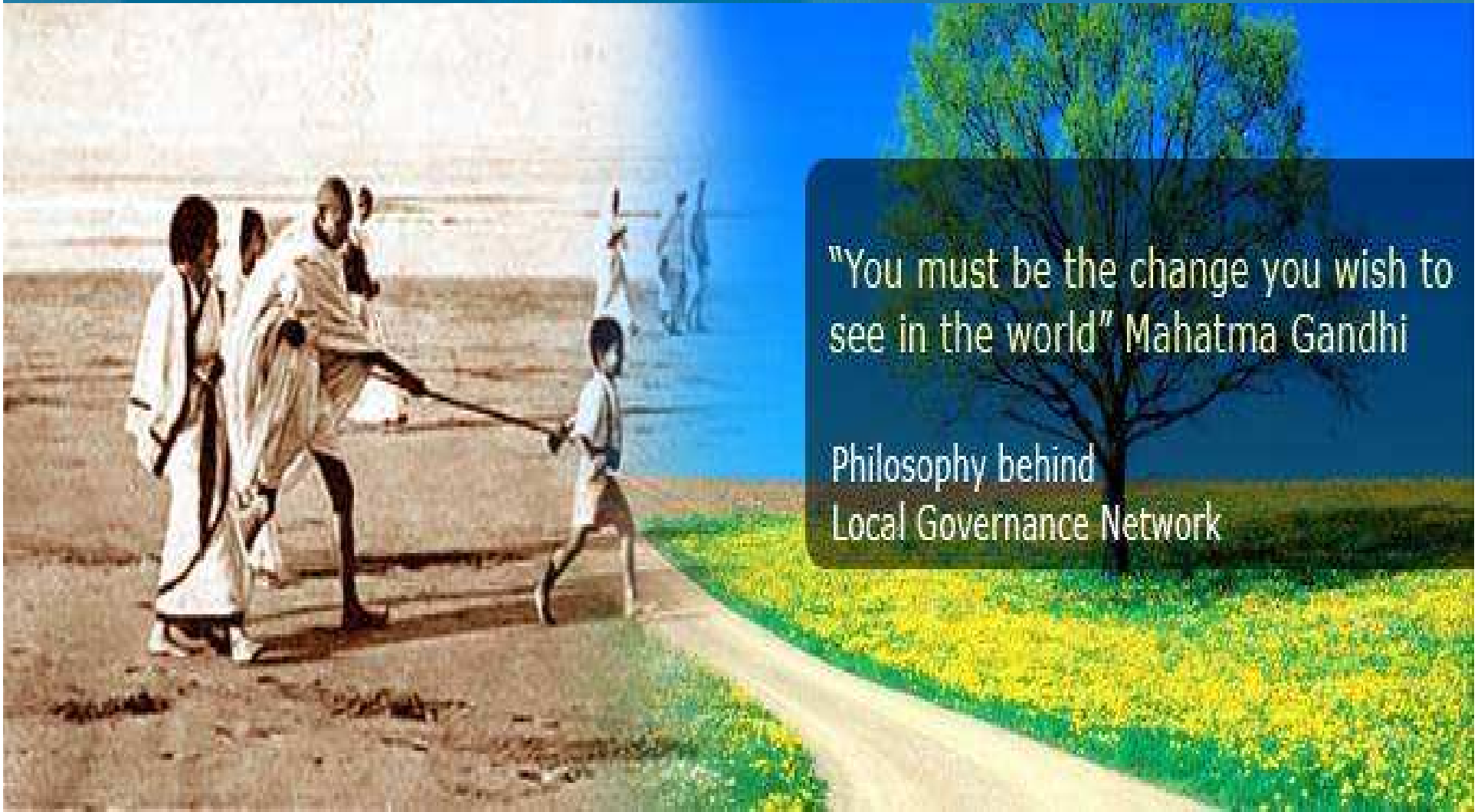


LGNet

Local Governance Network

Fostering Excellence in Governance

Philosophy behind Local Governance Network



"You must be the change you wish to see in the world" Mahatma Gandhi

Philosophy behind
Local Governance Network

Knowledge

Innovation

Sustainability

Leadership

Indian Cities

The world continues to absorb more urban population and cities are home to this new changes of Economic Geography.

India has the 2nd largest urban system in the world. 310 million live in 5161 cities and towns. 35 cities more than million, 6 mega cities of which 3 with population over 10 million and 3 with Population above 5 million. In the next 30 years, another 400 million will Migrate to these cities. by 2030, India's urban population is estimated to reach a staggering 575 million.



These facts tell us that the urbanization of poverty, governance, climate change and better urban services are arguably some of the biggest development challenge facing the world today.

Indian Cities ?



- ❑ Engines of Development
- ❑ Rich in heritage & culture
- ❑ Places of Opportunity
- ❑ Contributes to GDP

Major Disasters Risks

- ❑ Coastal Cities **Cyclone, Floods, Sea Erosion**
- ❑ Western Orissa prone to **Drought, Water Depletion, Heat Wave, Deforestation**
- ❑ Mid Orissa **Heat wave, Heat land, Deforestation**
- ❑ Earthquakes zones **Mahanadi River Delta Region**
- ❑ Special Category Crime, Transport linked Accidents, Energy Security, Mining, Industrialization,
- ❑ Beginning to Realize Climate Change

28.01.2009

- **Orissa warms up to a Hot Summer;**
- **Cuttack recorded the warmest (36.6 degree Celsius) January in 127 years**
- **warmest (35.7 degree Celsius) January in Bhubaneswar in 30 years.**

In Recent Days

- ❑ Sept 23, 2008
- ❑ **Floods hit Orissa's tourism capital, Puri**
- ❑ The fury of floods was so powerful that the major link between Puri and Bhubaneswar -- National Highway No 203 -- has developed a crack resulting in total disruption of road communication.
- ❑ **13 districts were put on high alert** following the flood threat. Road **communication between Baleswar and Kolkata was cut off** following a 30-foot wide breach on National Highway No. 60
- ❑ Sea Erosion is affects cities of Puri & Gopalpur



What affects Cities

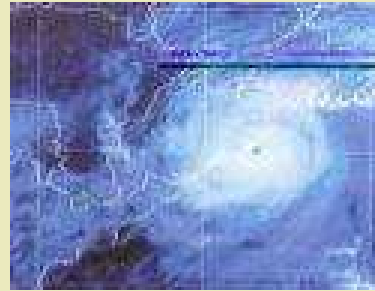


affects
All of us



Orissa Super Cyclone 1999

- ❑ Unprecedented Disaster in Modern times
- ❑ Claimed about more than nine thousand lives
- ❑ All services are out for a week
- ❑ Govt. seriously thought of Disaster Management



2010-2011 World Disaster Reduction Campaign



Making Cities Resilient

My City is Getting Ready

www.lgnet.in
e-mail: info@lgnet.in

Local Governance Network

Localized Campaign

We are Getting
Ready

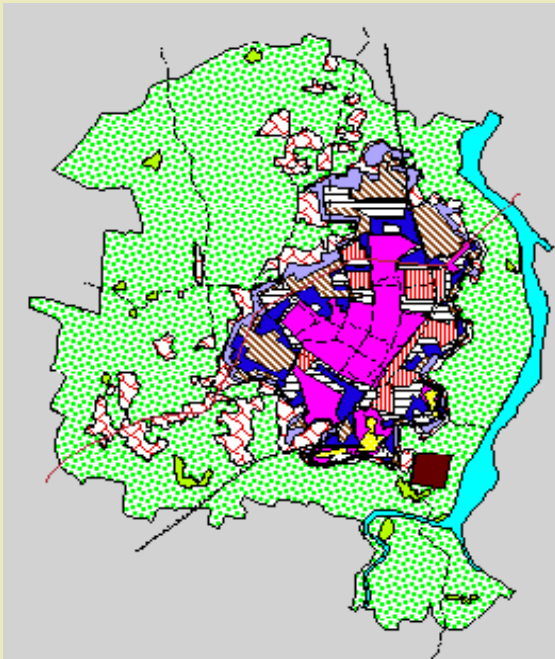


How About You?

Ten essentials for making cities resilient

Principles	1	2	3	NA
Organization and coordination	103			
Assign a budget				NA
Prepare risk assessments	10	45	48	
Critical infrastructure that reduces risk	10	15	78	
Safety of all schools and health facilities				NA
Realistic, risk - compliant building regulations and land use planning principles.	10		93	
Education programmes and training	10	15	78	
Protect ecosystems and natural buffers				NA
Early warning systems and emergency management	103			
Needs of the survivors are placed at the centre of reconstruction				NA

Bhubaneswar Profile



- Capital of Orissa with history dates back to 300BC
- Area-135 Sq. Kms.
- Population - One Million Plus
- Density - 4800 per Sq. Km.
- Number of Wards - 60
- Height from Sea level -45 Mtr.

The
Temple
City



BHUBANESWAR

INDIA

Bhubaneswar Climate Policy

Bhubaneswar City Recognizes that Climate Change is likely to be one of the key drivers of change within our community in coming years

We acknowledge that

- Evidence continues to mount that climate change is occurring.
- By 2030, two thirds of humanity will live in urban centers, where today more than 50% of the world's population lives and more than 75% of all energy is consumed. All cities are highly vulnerable to the impacts of climate change, especially fast growing cities in developing countries.
- Climate change will have far reaching effects on Cities economy, society and environment.

A good Environment Friendly City



Who should be resilient ?????



Who should be resilient ?????



Climate Change VS Disaster Risk Reduction

- ❑ Mainstreaming Disaster Risk Reduction as part of Over all Climate Change Porgamme.
- ❑ City Council are agreeing to develop plans with partners and local communities.
- ❑ Both will bring social, environmental and financial benefits for the citizens, businesses agencies and organisations
- ❑ Demonstrate local leadership and commitment to action.
- ❑ Planning and development, The built environment, Waste, Transport, The natural, environment, Education and awareness, Procurement



Empowering Citizens & School Children

- Citizens & Children do play bigger roles
- They are encouraged to
 - Learn CC & DRR in day to day lifestyle
 - Make Schools & home safer place
 - Use of Non Motorized Transport
 - Reduce, Reuse, Recycle before disposal
- Corporate & Business houses encouraged



New Initiatives in Mobility

- Protected Bicycle & Pedestrian Path inside Shaded Tree
- Integration of Business areas with public walk
- New Procured Low Floor Buses for City Mobility



Improving Community



Municipal Leaders Capacity Building

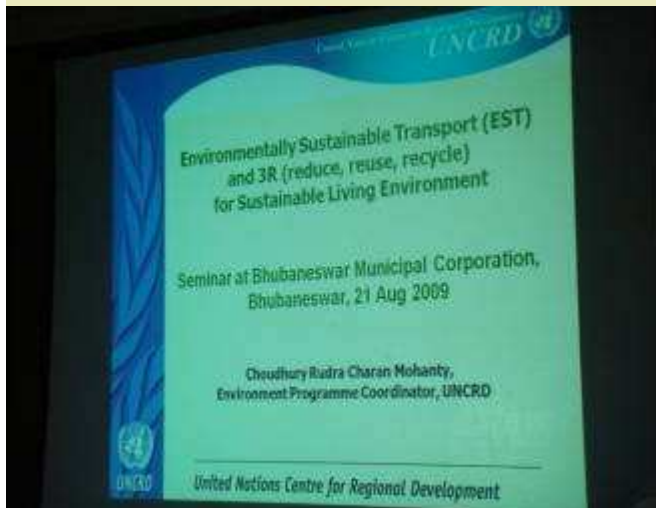


Citizens Centric Outreach Programmes



EST Outreach Programmes

- Regular Change Management programmes were conducted focusing Co Benefits, Mindset change, Knowledge, Best Practices etc.
- All programmes covered in Newsletter and Websites for wider dissemination



How we go for it

- Help build local champions amongst Political, Bureaucrats, Planners, Engineers
- Develop partnership with Corporate, NGOs, Media etc
- Promote good practices i.e. tackling Heat Wave, Flash Floods
- Work with Planning boards in amending bye laws
- Reach household with DRR plans

Overall Understanding

- ❑ Limited roles in Disaster Management.
- ❑ Low institutional collaboration of the cities with other International Cities, University.
- ❑ Cities lacks in Disaster management plan which can be reliable implementable based on ownership
- ❑ Need of disaster management centre with database etc at the local level.
- ❑ New form of Disaster emerging every day in Cities

Issues

- ❑ The district administration used to be agency for management of Disaster Management but world runs through the local governments.
- ❑ Human Resources involved in Disaster Management uses outdated skills and lack knowledge.

Future Cooperation on Making Cities Resilient in India

- ❑ Policy & Advocacy on Local Governments becoming the trigger in Disaster Management.
- ❑ A Knowledge Network to share Best Practices & research amongst the cities
- ❑ Making DRR a part of Cities Planning exercise owned by stakeholders
- ❑ Overall Capacity Building of Elected Representatives, Officials and Citizens
- ❑ Reducing Urban vulnerability risks from Urbanization & Promote Safer Cities principles
- ❑ A national level Cities HFA / Campaign views
- ❑ Documenting good practices in DRR / DM



Member of Asia Regional Task Force on Urban Risk Reduction



- ❑ Connecting cities with rich Knowledge Network
- ❑ Localize HFA within Cities
- ❑ Undertake outreach programmes on DRR
- ❑ Support to Global Platform of DRR

Our Commitment



We support **UN Global Compact** two objectives at local level to show case our commitment to world:

- Mainstream the ten principles of UN Global Compact
- Catalyze actions in support of broadening UN goals, including the Millennium Development Goals (MDGs)

**"You must be the change you wish to see in the world." –
Mahatma Gandhi**



Each day is a new canvas to paint upon.

Thank you



**Further information Please Visit
www.lgnet.in**

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