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Objective:

Raise awareness of challenges and opportunities in integrating climate change issues (mitigation and adaptation) into local policies and action

Target groups:

Decision makers, senior officials, elected representatives, consultants and trainers in the field of urban development and environmental management.

- **Target group 1:** Key decision-makers like Municipal Commissioners, Senior Officers from ULBs and State Departments
- **Target group 2:** Elected Representatives
- **Target group 3:** Training Institutes



Structure and Method

Structure:

- Module based, flexible duration: ½ to 3 days.
- Basic Training 8 modules: Modules to be compiled according to target group/goal;
- Advanced training 4 Modules: MSW, Flood Management, Governance and Finance

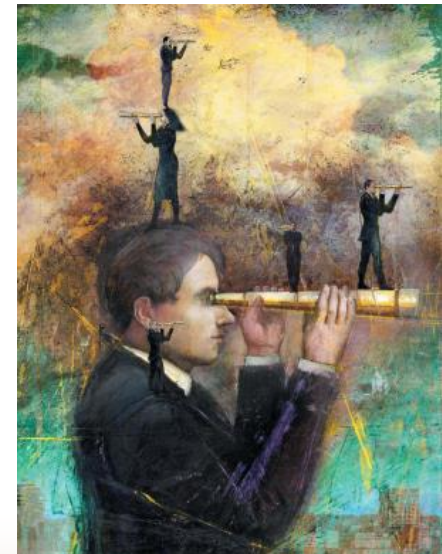
Method:

- Interactive, practice-oriented training with close links to “real work” experiences and challenges of trainees.
- Works best with 15-25 participants,
- Facilitated by two trainers



Harvard Case Method: Introduction

- Practice-oriented, interactive learning
- Bases on **intensive examination** and discussion of case situations
- Stimulates active exploration and **development of conclusions** by the trainee, rather than ready-made teaching messages
- Encourages the trainee to make decisions/
take action in complex situations





Method and Material (1)..

Modules of the training

1. Climate Change Background
2. International Context
3. Financing instruments
4. Co-benefits and mainstreaming
5. Relevant tools and information
6. Mitigation & Adaptation measures
7. Cities roles and levels of control
8. Actors & Processes



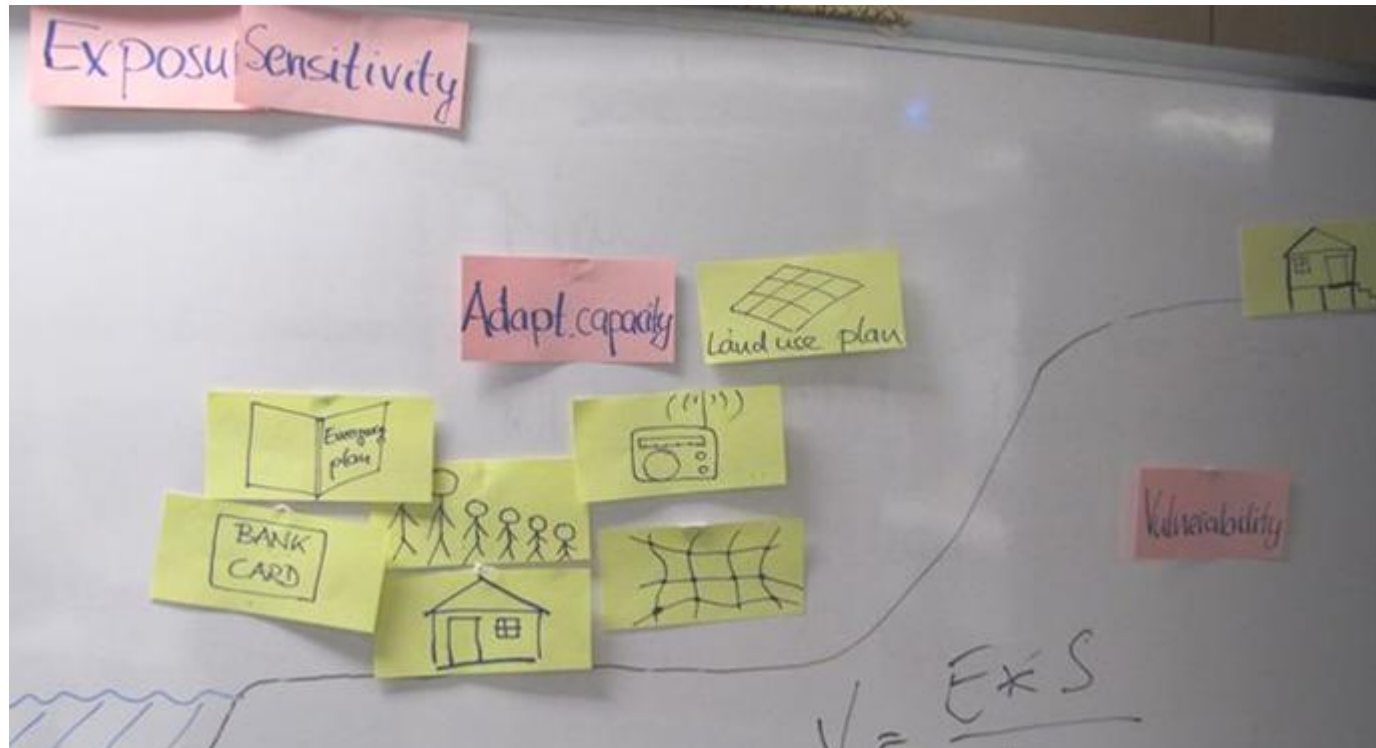
Elements of the training

- Short introductory lectures
- Case work/exercise in groups – ideally 2 groups
- Wrap-up sessions/discussions
- Individual work/reading
- Games
- Transfer elements (letter to myself)

Method and Material (3)..



Modules of the training



Group discussion methodology



Method and Material (4).. Modules of the training

Modules of the training

Group A

Sector (mitigation and adaptation) _	Technology/Strategy	Feasibility (low to high)			Options for 'low hanging fruits'?
		Technical /Knowledge available	Financial (Cost estimation)	Political/ Institutional	
AHMEDABAD					Social acceptance Efficiency of invest. Environmental effect Co-benefits
Waste	Incineration plant with energy recovery	H	High KM	M	→ Decentralized Waste Mgmt → Segregation → Awareness among children (schools)
Transport	Model shift from roads to public transport	H	H	M	→ Demand Mgmt Measures (Parking Charges) → Improve feeder Network → Involve businesses (free passes)
Buildings	More efficient electrical appliances and heating and cooling devices	H	M	PM	→ Incentivise Energy Efficiency → Ratings for Appliances
Water	Storage and conservation techniques	H	H	L	→ Property tax incentives for RWH → Metering & billing
Settlement	Relocation from flood prone areas	M	L	L	→ Identify high risk zones → Emergency Plan → Slum Networking Plan → Land-use Plan → SWM
Infrastr./Settlement	Land acquisition and creation of marshlands/wetlands as buffer	L	M	L	→ Upgrade land record system/asset inventory → Wetland Protection Plan

Group B

Sector (mitigation and adaptation) _	Technology/Strategy	Feasibility (low to high)			Options for 'low hanging fruits'?
		Technical /Knowledge available	Financial (Cost estimation)	Political/ Institutional	
DELHI					
Waste	Incineration plant with energy recovery	H	L	M*	→ Co-processing (ROF) → COMPOSTING → RRR → GAS CAPTURE
Transport	Model shift from roads to public transport	H	L*	(L+)	→ Need for Participatory approach → Mixed/Integrated TRANSPORT SYSTEM + CONNECTIVITY + Feeder system Metro - high cost Bus - low cost Political acceptance Metro - high Bus - depends. DM - low
Buildings	More efficient electrical appliances and heating and cooling devices	H	M	H	→ DESIGN RETRO-FITTING → GREEN BUILDINGS
Water	Storage and conservation techniques	H	M	L	→ CB & Awareness → DEMAND MGMT (POLITICS)
Settlement	Relocation from flood prone areas	H	M	L	→ Climate Proofing for urban development (BCBA)
Infrastr./Settlement	Land acquisition and creation of marshlands/wetlands as buffer	M	L	L	→ MGMT of AEC Land → Draining plan (Channelization)



Development/ Testing/ Adaptation:

- Training designed jointly with GIZ sector projects in South Asian Countries – India, Nepal, Indonesia, Bangladesh and China
- Adaptations for India
 - testing of the modules with ULBs for fine tuning
 - Movie/ documentary on good practices in the NMSH sectors developed to convert theory to practice in the Indian context
 - Demand for local language for training dissemination - Training modules were translated into hindi



Dissemination Methodology:

- Roping in Training Institutes
 - Training of Trainers to facilitate dissemination
 - Training of Trainers include a Trainers on stage module - trainers practice in real time
 - MoU with training institutes for further roll out of the training
 - Follow-up with institutes for roll-out



Training Roll-out:

- GIZ trained (2011-2012)
 - ULBs – officials from partner cities of Kochi, Tirupati, Nashik and parastatal (MJP) officials across different cities in Maharashtra
 - Officials from State departments - Environment & Urban Dev. Depts. and Training Institutes from 6 states across India
 - Institutes trained included: ICLEI-SA, TERI, ASCI, SPA, CEPT, RCUES-Lucknow, MEETRA, TARU
- ICLEI-SA conducted trainings for 35 ULBs using the methodology
- Globally – CDIA supported in institutionalizing the CCC training in the Singapore Environmental Institute– partners, ULBs and training institutes have been trained (2013 onwards). Partners from India have also been trained. Next training in November 2015.
- Further roll out in India – planned jointly with NIUA ??



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Experiences

What worked:

- Action learning approach
- Good trainers
- Motivated participants
- Taking the training to the ULB - all senior management in a ULB trained (eg. Nashik)
- Concrete next steps – preparation of Climate Action Plan called Sustainable Urban Habitat Action Plan (SUHAP) based on NMSH sectors prepared for Nashik
- Funding - for training, for preparation of action plan, for plan implementation



Experiences

Challenges:

- Mandate for tackling issues of Climate Change missing with State UD Department and ULBs
- Limited understanding of climate change issues at State UD Dept.
- Lack of funding at state, ULBs, training institutes
- Capacities of staff that were trained could not transport the learnings to the remaining ULBs – incorrect nominations?



Experiences

Challenges:

- Training Institutes
 - Clear mandate for training on Climate Change issues with state urban training institute missing
 - Climate change is cross sectoral – experts in the field are limited & capacities in-house with training institutes are also limited
 - Issues of undertaking the action learning based training?
 - Issues of nomination/ reaching the correct person in the ULB



Recommendations:

State & ULB Officials:

- Urban climate change should be one of the mandates of the Urban Dept. & ULB and should not come only from the Environment Dept.
- Should be mandatory for all State & ULB staff to attend 1 training for climate change aspects relevant for work - as part of career development
- Training Needs Assessment and Capacity Building needs to include Climate Change as a requirement in the list of sectors for trainings



Recommendations:

Training Institutes

- Mandate for State Urban Training institutes to offer climate change trainings
- Training methodology and quality of trainings – needs to be reviewed
- Quality of trainers needs to be improved
 - emphasis on in-house trainers;
 - Sector experts for strengthening of Urban training institutes
 - Training feedback needs to be analysed for regular improvements
- Regular training calendar to be monitored at national & state level: what is offered, what subjects, quality, etc. (not restricted to CC training)



Thank You

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GIZ

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