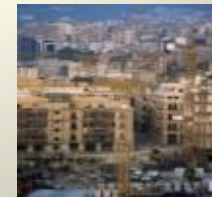


# Urban Management Tools for Climate Change (UMTCC) course

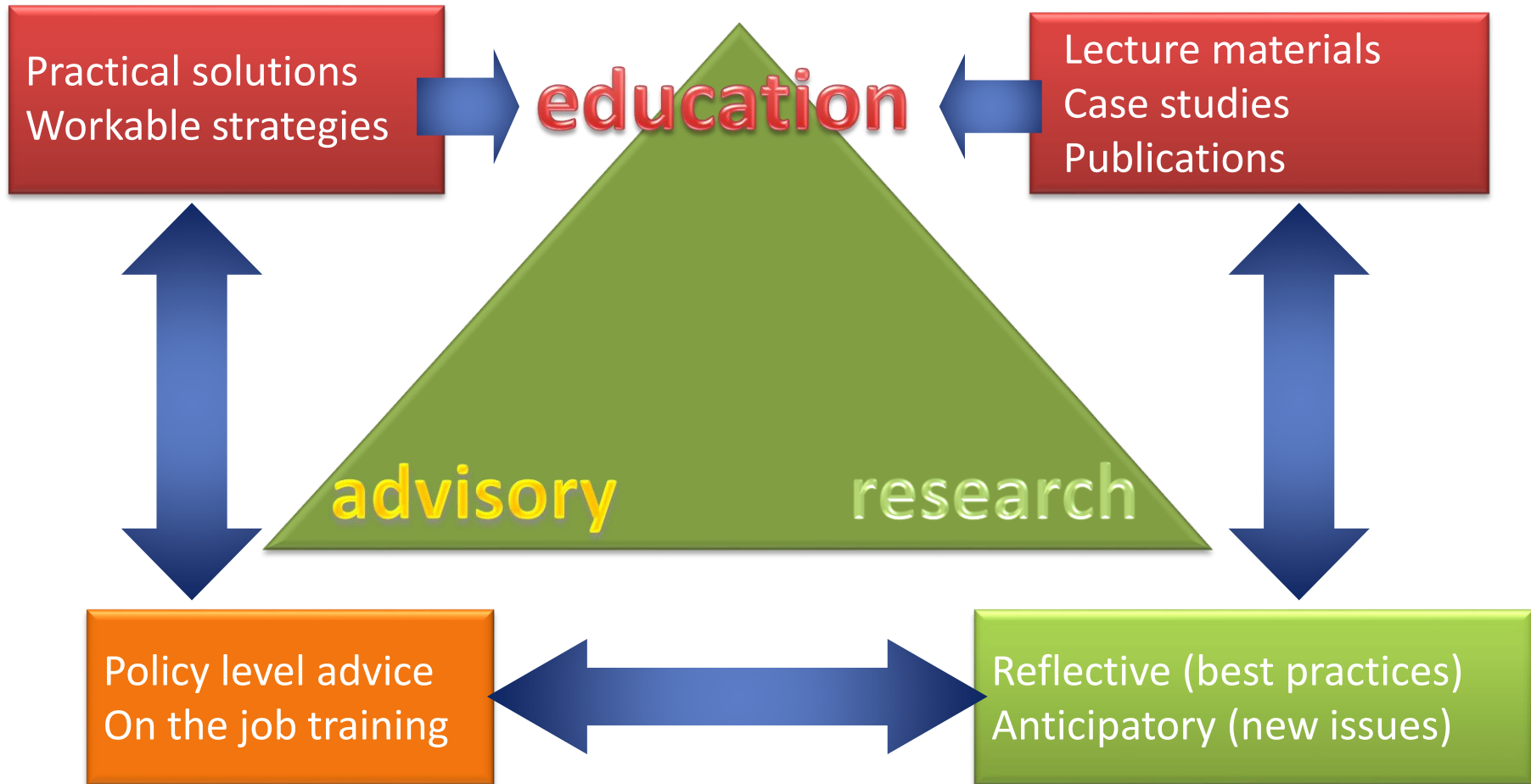
Programme Overview, June 12<sup>th</sup> – June 30<sup>th</sup>, 2017



# UMTCC

- Collaboration of IHS – UN Habitat
- 8<sup>th</sup> year
- Focus on urban climate change tools and CC planning
- **Stelios Grafakos**
  - Environmental economics, climate change integrated assessment, planning and decision support, interrelationships of mitigation and adaptation
  - Since 2009, IHS academic staff
  - Research and Advisory: SUSTAIN, LoCAL - UNCDF, SBA - WB, CDS and CC, LEAN CC, CapaCITY
  - Multiple capacity building and training projects
  - Member of Advisory Committee of Cities in Climate Change Initiative UN Habitat programme and member of UCCRN
- **Veronica Olivotto**
  - Climate change governance and adaptive capacity, urban sociology
  - MSc in Urban Management and Development (IHS), MSc Ecotourism (Edinburgh Napier University, Scotland, United Kingdom)
  - Since 2011, IHS academic staff
  - SUSTAIN, LoCAL, CDS and CC, LEAN CC, business development, capacity building and training
  - Member of UCCRN

# Synergies in IHS activities



# Thematic areas

- Public sector reform
- Performance
- Public Private Partnerships
- Decentralisation
- Local democratic process

Governance

- Housing rights
- Housing finance
- Slum improvement
- Relocation
- Revitalisation / regeneration

Housing

- Land markets
- Land value capture
- Regularisation
- Security of tenure
- Finance

Land

- Urban Policy
- Participatory and performance planning
- City – wide development strategies
- Slum upgrading and prevention
- Financing of planning interventions

Planning

- Environmental policy assessments
- Integrated environmental and CC management
- Cities and Climate Change
- Green and low carbon growth
- Climate resilient development

Environment  
and Climate  
Change

- Revenue mobilisation
- Capital investment programmes
- Debt/borrowing capacity
- Creditworthiness
- Performance budgeting

Public  
Finance

- Sustainable Livelihoods
- Local economic development strategies
- Urban poverty
- Work and Income

Social

# Climate Change Advisory and Research

## Current

- Cities Peer to peer learning for sustainable energy financing (EC)
- Land Value Capture instruments for Green Resilient Infrastructure (LILP)
- Integrating Climate Mitigation and Adaptation in Local Climate Change Action Plans (UCCRN)
- Housing and Informal Settlements in the context of Climate Change (UCCRN)
- Sustainable urbanization in the Paris Agreement – Review of INDCs for urban actions

## Under finalization

- SRBA: Developing a methodology for (urban) sustainability and resilience benefits assessment (World Bank)
- Cost (benefit) effectiveness analysis for urban climate adaptation measures in HCMC
- Green Foreign Direct Investment (FDI) and climate change policy

## Past

- Urban Governance of Climate Change Adaptation in Ho Chi Minh (IHS funded)
- SUSTAIN: Strengthening Higher Education in the field of Sustainable Urban Development (EC)
- Prioritization of climate change adaptation measures against flooding in Dhaka
- LoCAL: Climate Adaptation Performance based Grants, Monitoring and Evaluation of CCA activities (UNCDF)
- CDS and Climate Change: Integrating CC in CDS (UN Habitat)

# Climate Change Capacity Building and Training

- Training of ADB officials on urban climate resilience
- Tailor made and on the job training of Myanmar Urban officials
- Training on Climate Adaptation Action Plans for Local Governments in Asia , in collaboration with UN - Habitat and IUTC - Korea
- Training of IADB officials on climate change adaptation, mitigation and local CC action plans – Washington DC, USA
- Covenant CapaCITY: Capacity building for municipality officials to conduct local climate change and sustainable energy action plans in European cities (EC)
- Tailor Made Training (Courses), Indonesia, Thailand, Peru, Colombia
- Refresher courses in Peru, Philippines

# 13 participants from seven countries

- Tanzania (2)
- India (2)
- Ghana (3)
- Brazil (1)
- Philippines (2)
- Spain (1)
- Nepal (2)

# Participants' Introduction

- Name
- Country of Origin
- Organization
- Education - profession/tasks
- Experience working with CC issues
- **Expectations (learning objectives)**
- **Course contribution to your work**



# Objectives of the course

- **Solid background on Climate Change issues in cities**
- **Urban management tools for climate change planning**
- **Conduct:**
  - Vulnerability assessment
  - GHG emissions inventory
  - Prioritization of climate change actions
  - Local climate change action plans

# Training methodology

- Lectures – workshops
- Group exercises (studio)
- Case studies
- Serious gaming
- Field visits/excursions
- Participants' presentations
- Self study

# UMTCC curriculum: 3 modules

- Climate Vulnerability, Adaptation and Resilience
- Climate Mitigation and Low Carbon Urban Development
- Climate Change Action Planning

# Climate Change Tools

- CLIMACT Prio (climate actions prioritization tool)
- UN Habitat guide on climate change planning
- Climatech wiki (UNDP/UNFCCC)
- Climate change actions registry (Carbonn)
- GHG emissions inventory tool (ICLEI)

# Excursions/Field visits (4)

- Rotterdam Climate Proof + DakAkker rooftop garden
- Storm Surge Barrier
- Future Land

# Presentations (updated)

GROUP	NAMES	NATIONALITIES	DATE&TIME
1	<ul style="list-style-type: none"> <li>• Magnus Lincoln, Quarshie</li> <li>• Stephen Junior, Doso</li> <li>• Maria, Paniagua Pascual</li> <li>• Nassir Tahir, Ali</li> </ul>	Ghana Ghana Spain Tanzania	June 14 <sup>th</sup> 15:35-17:00
2	<ul style="list-style-type: none"> <li>• Nilima, Thapa Shrestha</li> <li>• Christinne Anne, Gaitana</li> <li>• Prexy Pearl, Calvario Macana</li> </ul>	Nepal Philippines Philippines	June 23 <sup>rd</sup> 9:00-10:30
3	<ul style="list-style-type: none"> <li>• Mgeni Mwalim, Khamis</li> <li>• Ama Kissiwah, Boateng</li> <li>• Krupa Bhaktesh, Desai</li> </ul>	Tanzania Ghana India	June 23 <sup>rd</sup> 15:35-17:00
4	<ul style="list-style-type: none"> <li>• Aishwarya, Mukund</li> <li>• Carolino, Ariella</li> <li>• Samana, Mishra</li> </ul>	India Brazil Nepal	June 28 <sup>th</sup> 15:30-17:00

# Lecturers/Trainers

- Academia and Research Institutes (4)
- International organizations/associations (3)
- City authorities (1)
- Consultancies (7)
- IHS (6)

# Lecturers/Instructors

LECTURERS	INSTITUTION
P. Pelizzaro	Climalia (Italy)
J. Hoogzaad	Climate Focus (The Netherlands)
C. Carreno	ICLEI (Germany)
W. van Deursen	Carthago (The Netherlands)
F. Boerwinkel & I. Bijlsma	Arcadis (The Netherlands)
D. Vettorato	European Academy of Bozen/Bolzano (EURAC) (Italy)
V. Huizer	Changerism (The Netherlands)
H. Hooghiemstra	Tygron
B Dal Bo Zanon	DeltaSync (The Netherlands)

LECTURERS	INSTITUTION
S. Lwasa	Makere University (Uganda)
N. Tillie	Delft University of Technology (The Netherlands)
E. Bronsdijk	Rotterdam Municipality
R. van Veenhuizen	Resource Centre on Urban Agriculture and Food Security (RUAFA) (The Netherlands)
M. Hoek	Strategis (The Netherlands)
M. Dabrowski	Delft Technical University (The Netherlands)
T. Nguyen	UN-HABITAT (Kenya)
S. Grafakos V. Olivotto A. Gianoli S. Ruijsink L. D'Acci T. Alade	IHS (The Netherlands)



# LECTURES FROM IHS



- Stelios Grafakos



- Veronica Olivotto



- Taslim Alade



- Alberto Gianoli



- Luca D'Acci



- Saskia Ruijsink

# Course Programme – Week 1

Day		Monday	Tuesday	Wednesday	Thursday	Friday
		<b>CLIMATE VULNERABILITY, ADAPTATION AND RESILIENCE</b>				
		<b>Classroom 3</b>	<b>Classroom 3</b>	<b>Classroom 3</b>	<b>Classroom 3</b>	<b>Classroom 3</b>
<b>Morning</b>	<b>9:00- 10:30</b>	10am - Opening (Kees van Roojen, IHS Director)	City Vulnerability Assessment in Kampala (Shuaib Lwasa, Makerere University)	Introduction to Climate Adaptation and Decision Support Tools (S. Grafakos)	Integrated Water Management (F. Boerwinkel & I. Bijlsma, Arcadis)	Rotterdam Climate Proof guided walking tour (Eveline Bronsdijk, Rotterdam Municipality); DakAkker rooftop farm (Rob van Katwijk)
	<b>11:00 - 12:30</b>	Introduction to the program (S. Grafakos and V. Olivotto, IHS)	Planning for climate adaptation in Kampala (Shuaib Lwasa, Makerere University)	Cost-Effectiveness of adaptation action: the case of HCMC, Vietnam (A. Gianoli)		
<b>Afternoon</b>	<b>13:30 - 15:00</b>	Climate Change and Cities (S.Grafakos)	GIS for Climate Vulnerability Assessment (Taslim Alade, IHS)	Climate Displacement and Planned Relocation in Colombia (V.Olivotto, IHS)	Interrelationships between Adaptation and Mitigation (S. Grafakos)	Climate Game Delft (Hansje Hooghiemstra, Tygron)
	<b>15:30 - 17:00</b>	Information on library use, other practical issues (S. Welsh)	GIS for Climate Vulnerability Practical Exercise (Taslim Alade, IHS)	Participants' presentations (4) (with Phd student IHS)	Multi-level Governance for Climate Change in Delta Urban Regions: the case of Dutch Chinese Delta Urban Regions (M. Dabrowski, TU Delft)	

# Course Programme – Week 2

		19	20	21	22	23
		CLIMATE VULNERABILITY, ADAPTATION AND RESILIENCE			CLIMATE MITIGATION AND LOW CARBON URBAN DEVELOPMENT	
		Classroom 3	Classroom 3	Classroom 3	Classroom 3 and PC room	Classroom 3
Morning	9:00 - 10:30	Climate Change and Urban Food Production (R. van Veenhuizen, RUAUF)	Meet at IHS at 10am	Sustainable Delta Game (W. Deursen, Carthago)	Introduction to Climate Mitigation and GHG inventories: Carbonn (Cesar Carreno, ICLEI)	Participants' presentations (4) (with Phd student IHS)
	11:00 - 12:30				Introduction to Climate Mitigation and GHG inventories: Carbonn (Cesar Carreno, ICLEI)	Climate Mitigation Financing (J. Hoogzaad, Climate Focus)
Afternoon	13:30 - 15:00	Introduction to CLIMACT Prio tool and exercise (S.Grafakos) and then - Group work on prioritizing adaptation actions	Field visits: Storm Surge Barrier and Future Land, Rotterdam	Group work on prioritizing adaptation actions	Strategis Urban Development Role Play Game (M. Hoek)	Urban Morphology and Climate Change (L. D'Acci, IHS)
	15:30 - 17:00					Participants' presentations (3) (with Phd student IHS)

# Course Programme – Week 3

		26	27	28	29	30
		CLIMATE MITIGATION AND LOW CARBON URBAN DEVELOPMENT		CLIMATE CHANGE ACTION PLANNING		
		Classroom 3	Classroom 3	Classroom 3	Classroom 3	
Morning	9:00- 10:30	The Socio-cultural Dimensions of Urban Transitions to a Climate-proof Future (V. Hüzeir, Changerism)	Milan Lighthouse smart city for better energy efficiency (Piero Pelizzaro, Climalia)	Sustainable Energy Planning in Cities (Daniele Vettorato, EURAC)	Planning for Climate Change (T. Nguyen, UN-HABITAT)	Local CC action plans - exercise and presentations
	11:00 - 12:30	Energy and Climate Mitigation in Rotterdam (Nico Tillie, Delft University of Technology)	(11:00 - 11:45) Adapting business districts in Turin (Piero Pelizzaro, Climalia) Group exercise on prioritization of mitigation actions	Usefulness of strategic planning for addressing climate change (S. Ruijsink)	Local CC action plans - exercise	
Afternoon	13:30 - 15:00	Intro to Mitigation + Group exercise on prioritization of mitigation actions	Group exercise on prioritization of mitigation actions	Planning and implementing floating houses as an adaptation measure in the Netherlands (Barbara Dal Bo Zanon, Deltasync)		
	15:30 - 17:00	Group exercise on prioritization of mitigation actions	Group exercise on prioritization of mitigation actions	Participants' presentations (3) (with Phd student IHS)		

# Practicalities

- Sessions (time – room)
- All material saved in central folder
- Blackboard
- Dropbox

# House rules

- Attendance
- Contribution
- Punctuality
- Mobiles

# Literature and sources

- Lectures/handouts
- Internet
- IHS library
- Self study

# Questions ?