Urban Management Tools for Climate Change (UMTCC) course

Programme Overview, June 12th – June 30th, 2017
UMTCC

- Collaboration of IHS – UN Habitat
- 8th 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

Practical solutions
Workable strategies

Lecture materials
Case studies
Publications

Policy level advice
On the job training

Reflective (best practices)
Anticipatory (new issues)
Thematic areas

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

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

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

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

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

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

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

- Governance
- Land
- Environment and Climate Change
- Social
- Planning
- Housing
- Public Finance
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)

<table>
<thead>
<tr>
<th>GROUP</th>
<th>NAMES</th>
<th>NATIONALITIES</th>
<th>DATE&amp;TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Magnus Lincoln, Quarshie, Stephen Junior, Doso, Maria, Paniagua Pascual, Nassir Tahir, Ali</td>
<td>Ghana, Ghana, Spain, Tanzania</td>
<td>June 14&lt;sup&gt;th&lt;/sup&gt; 15:35-17:00</td>
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<tr>
<td>2</td>
<td>Nilima, Thapa Shrestha, Christinne Anne, Gaitana, Prexy Pearl, Calvario Macana</td>
<td>Nepal, Philippines, Philippines</td>
<td>June 23&lt;sup&gt;rd&lt;/sup&gt; 9:00-10:30</td>
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<td>3</td>
<td>Mgeni Mwalim, Khamis, Ama Kisiwah, Boateng, Krupa Bhaktesh, Desai</td>
<td>Tanzania, Ghana, India</td>
<td>June 23&lt;sup&gt;rd&lt;/sup&gt; 15:35-17:00</td>
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<tr>
<td>4</td>
<td>Aishwarya, Mukund, Carolino, Ariella, Samana, Mishra</td>
<td>India, Brazil, Nepal</td>
<td>June 28&lt;sup&gt;th&lt;/sup&gt; 15:30-17:00</td>
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</table>
Lecturers/Trainers

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

<table>
<thead>
<tr>
<th>LECTURERS</th>
<th>INSTITUTION</th>
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<tbody>
<tr>
<td>P. Pelizzaro</td>
<td>Climalia (Italy)</td>
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<tr>
<td>J. Hoogzaad</td>
<td>Climate Focus (The Netherlands)</td>
</tr>
<tr>
<td>C. Carreno</td>
<td>ICLEI (Germany)</td>
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<tr>
<td>W. van Deursen</td>
<td>Carthago (The Netherlands)</td>
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<tr>
<td>F. Boerwinkel &amp; I. Bijlsma</td>
<td>Arcadis (The Netherlands)</td>
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<tr>
<td>D. Vettorato</td>
<td>European Academy of Bozen/Bolzano (EURAC) (Italy)</td>
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<tr>
<td>V. Huizer</td>
<td>Changerism (The Netherlands)</td>
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<tr>
<td>H. Hooghiemstra</td>
<td>Tygron</td>
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<td>B Dal Bo Zanon</td>
<td>DeltaSync (The Netherlands)</td>
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<tr>
<th>LECTURERS</th>
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<tbody>
<tr>
<td>S. Lwasa</td>
<td>Makere University (Uganda)</td>
</tr>
<tr>
<td>N. Tillie</td>
<td>Delft University of Technology (The Netherlands)</td>
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<tr>
<td>E. Bronsdijk</td>
<td>Rotterdam Municipality</td>
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<tr>
<td>R. van Veenhuizen</td>
<td>Resource Centre on Urban Agriculture and Food Security (RUAF) (The Netherlands)</td>
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<tr>
<td>M. Hoek</td>
<td>Strategis (The Netherlands)</td>
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<tr>
<td>M. Dabrowski</td>
<td>Delft Technical University (The Netherlands)</td>
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<tr>
<td>T. Nguyen</td>
<td>UN-HABITAT (Kenya)</td>
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<tr>
<td>S. Grafakos</td>
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<td>V. Olivotto</td>
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<td>A. Gianoli</td>
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<td>S. Ruijsink</td>
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<td>L. D'Acci</td>
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<tr>
<td>T. Alade</td>
<td>IHS (The Netherlands)</td>
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LECTURES FROM IHS

- Stelios Grafakos
- Veronica Olivotto
- Taslim Alade
- Alberto Gianoli
- Luca D’Acci
- Saskia Ruijsink
<table>
<thead>
<tr>
<th>Day</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
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<tbody>
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<td></td>
<td><strong>CLIMATE VULNERABILITY, ADAPTATION AND RESILIENCE</strong></td>
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<tr>
<td>Morning</td>
<td>9:00 - 10:30</td>
<td>10am - Opening (Kees van Roojen, IHS Director)</td>
<td>City Vulnerability Assessment in Kampala (Shuaib Lwasa, Makerere University)</td>
<td>Introduction to Climate Adaptation and Decision Support Tools (S. Grafakos)</td>
<td>Rotterdam Climate Proof guided walking tour (Eveline Bronsdijk, Rotterdam Municipality); DakAkker rooftop farm (Rob van Katwijk)</td>
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<td></td>
<td>11:00 - 12:30</td>
<td>Introduction to the program (S. Grafakos and V. Olivotto, IHS)</td>
<td>Planning for climate adaptation in Kampala (Shuaib Lwasa, Makerere University)</td>
<td>Cost-Effectiveness of adaptation action: the case of HCMC, Vietnam (A. Gianoli)</td>
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<tr>
<td>Afternoon</td>
<td>13:30 - 15:00</td>
<td>Climate Change and Cities (S. Grafakos)</td>
<td>GIS for Climate Vulnerability Assessment (Taslim Alade, IHS)</td>
<td>Climate Displacement and Planned Relocation in Colombia (V. Olivotto, IHS)</td>
<td>Interrelationships between Adaptation and Mitigation (S. Grafakos)</td>
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<td></td>
<td>15:30 - 17:00</td>
<td>Information on library use, other practical issues (S. Welsh)</td>
<td>GIS for Climate Vulnerability Practical Exercise (Taslim Alade, IHS)</td>
<td>Participants’ presentations (4) (with PhD student IHS)</td>
<td>Multi-level Governance for Climate Change in Delta Urban Regions: the case of Dutch Chinese Delta Urban Regions (M. Dabrowski, TU Delft)</td>
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# Course Programme – Week 2

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<thead>
<tr>
<th>Time</th>
<th>Class</th>
<th>Location</th>
<th>Activity</th>
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<tbody>
<tr>
<td><strong>Morning</strong></td>
<td></td>
<td>Classroom 3</td>
<td>Climate Change and Urban Food Production (R. van Veenhuizen, RUAF)</td>
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<tr>
<td>9:00-10:30</td>
<td></td>
<td>Classroom 3</td>
<td>Meet at IHS at 10am</td>
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<td>11:00-12:30</td>
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<td>Classroom 3</td>
<td>Sustainable Delta Game (W. Deursen, Carthago)</td>
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<td>Classroom 3</td>
<td>Introduction to Climate Mitigation and GHG inventories: Carbonn (Cesar Carreno, ICLEI)</td>
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<td>Classroom 3</td>
<td>Field visits: Storm Surge Barrier and Future Land, Rotterdam</td>
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<td>Classroom 3</td>
<td>Group work on prioritizing adaptation actions</td>
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<tr>
<td><strong>Afternoon</strong></td>
<td></td>
<td>Classroom 3</td>
<td>Introduction to CLIMACT Prio tool and exercise (S. Grafakos) and then Group work on prioritizing adaptation actions</td>
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<tr>
<td>13:30-15:00</td>
<td></td>
<td>Classroom 3</td>
<td>Strategic Urban Development Role Play Game (M. Hoek)</td>
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<td>Classroom 3</td>
<td>Participants’ presentations (3) (with PhD student IHS)</td>
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<td>15:30-17:00</td>
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<td>Classroom 3</td>
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<td>Classroom 3 and PC room</td>
<td>Introduction to Climate Mitigation Financing (J. Hoogzaad, Climate Focus)</td>
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<td>Classroom 3</td>
<td>Urban Morphology and Climate Change (L. D’Acci, IHS)</td>
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<td>Classroom 3</td>
<td>Participants’ presentations (3) (with PhD student IHS)</td>
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# Course Programme – Week 3

<table>
<thead>
<tr>
<th>Time</th>
<th>Morning</th>
<th>Afternoon</th>
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<tbody>
<tr>
<td>9:00 - 10:30</td>
<td>The Socio-cultural Dimensions of Urban Transitions to a Climate-proof Future (V. Hüzeir, Changerism)</td>
<td>Intro to Mitigation + Group exercise on prioritization of mitigation actions</td>
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<tr>
<td>11:00 - 12:30</td>
<td>Energy and Climate Mitigation in Rotterdam (Nico Tillie, Delft University of Technology)</td>
<td>Group exercise on prioritization of mitigation actions</td>
</tr>
<tr>
<td>13:30 - 15:00</td>
<td>Planning and implementing floating houses as an adaptation measure in the Netherlands (Barbara Dal Bo Zanon, Deltasync)</td>
<td>Planning and implementing floating houses as an adaptation measure in the Netherlands (Barbara Dal Bo Zanon, Deltasync)</td>
</tr>
<tr>
<td>15:30 - 17:00</td>
<td>Group exercise on prioritization of mitigation actions</td>
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**CLIMATE MITIGATION AND LOW CARBON URBAN DEVELOPMENT**

- 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)

**CLIMATE CHANGE ACTION PLANNING**

- Local CC action plans - exercise and presentations
- Local CC action plans - exercise
- Course Evaluation - Closing ceremony
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 ?