



DANIDA



AWARENESS RAISING TRAINING:

URBAN GREEN INFRASTRUCTURE AND ECOSYSTEM SERVICES

WHEN: 29-31 January 2015

HOURS: 9 AM TO 5 PM

VENUE: Ghion Hotel

Aim

The aim of the training is to enable experts working for the Addis Ababa city administration to start exploit the potential of green infrastructure to support sustainable urban development by providing ecosystem services to the citizens. A secondary aim is to share experiences and build joint visions between Addis Ababa, Dar es Salaam and Copenhagen.

Trainees: The trainees will be drawn from Addis Ababa city administration Construction and Housing Development Bureau, Beautification, Park and cemetery Development and Administration Agency at city, sub-city level and from WGA case site Woreda administration. All in all we are expecting around 40 participants which will attend all the 3 days of training. High-level officials of the city administration are also expected to attend the morning session of day 1.

Learning form: The training consists of lectures, group discussions and exercises. Selected reading materials will be handed out to support the training.

Learning output: At the end of the training the trainees will understand the mechanisms behind ecosystem services related to urban green infrastructure, and will have some tools to start assessing and exploring it for the future development of Addis Ababa. This includes

- Landscape based urban water management (stormwater drainage, flood protection, water harvesting, groundwater recharging)
- Designing urban landscapes for ecosystem services in general (provide recreational values, support nature, mitigate urban heat island, provide crops and biomass)
- Techniques for urban greening (plant species selection, establishment).

Organizers: The training is organized jointly by EiABC, Ardhi University and the University of Copenhagen. A certificate confirming participation in the course signed by all organizing institutions will be issued upon completion of the course.

Financing: The training is financed by research project 'Water Resilient Green Cities in Africa (WGA)', read more here www.watergreenafrica.dk.

Request: To improve the learning outcome participants are advised to arrive timely, i.e. no later than 8.45, to allow for the program to start at 9.

Day 1: January 29, 2015

Theme: Landscape based urban water management

Activity		Focus of activity	Presenter	Moderator
8:30	Registration			
9:00	Opening the workshop	The Deputy Mayor or his representative will give a direction to the city experts on the importance of the training for the city administration	Ato Abate Sitotaw, Deputy Mayor of Addis Ababa	Dr. Kumelachew
9:40	Introduction to the project	Briefly introducing the WGA project focusing on water challenges in AA, partners, objectives, expected output, timeframe, current state	Dr. Kumelachew Yeshitela EiABC	Dr. Kumelachew
9:55	Questions to document mindset before training	To document mindset baseline regarding urban green infrastructure and water management	Dr. Lise Herslund University of Copenhagen	Dr. Kumelachew
10.10	Green infrastructure ecosystem services with special focus on urban water management and its potential for Addis Ababa	Introducing green infrastructure, ecosystem services, urban water challenges, principles for linking urban water to green infrastructure incl. LSM, some international examples	Prof. Marina Bergen Jensen University of Copenhagen	Dr. Kumelachew
10:40	Plenary discussion on value of green infrastructure approach to urban water management and relevance in Addis		All participants	Dr. Kumelachew
11:00	COFFEE/TEA BREAK			
11:20	Overview of urban water management in Addis Ababa today and pointing out of urgencies and challenges	Short overview of stormwater management, water supply and wastewater management in Addis – based on a figure. Instruction on ‘listening-exercise’ to follow	Dr. Li Liu	Dr. Kumelachew
11:35	Stormwater management in Addis Ababa	Current stormwater management activities in Addis	Addis Ababa City Roads Authority	Dr. Kumelachew
11:50	Water supply in Addis Ababa	Status, challenges and prospects of water supply	Addis Ababa Water and Sewerage Authority	Dr. Kumelachew
12.05	Waste water management in Addis Ababa	Coverage, challenges and prospects of wastewater management	Addis Ababa Water and Sewerage Authority	Dr. Kumelachew

12.20	Share reflections in plenary. Individual brainstorm on potential links between green infrastructure and urban water management, followed by short plenum summary	Where do I see myself, where do I see my organization? How can I personally contribute to increase landscape management in Addis Ababa 1) as resident of Addis, 2) as an expert of profession X, 3) as staff in organization Y. Second, how can my organization contribute to landscape planning, construction and management?	All Participants	Dr. Kumelachew
12:45	LUNCH BREAK			
01:45	Group exercise on positioning, sizing, and designing elements for stormwater management	First a 25 min introduction followed by 1 hour exercise, focusing on a condominium, and 30 min follow up with group presentations of solutions. Groups of 4. 1) Identify flow routes and flow generating areas. Estimate volume to be managed 2) Analyse site to locate areas for retention/detention 3) Consider water supply issues and design for filling up of tanks. Consider other synergy potentials.	Dagnachew Adugna EiABC	Dr. Hailu Worku
3:40	Coffee/tea break			
4:00	International examples on water and green infrastructure	To inspire through specific examples, and to show that a green infrastructure approach is well established many places	Dr. Antje Backhaus EiABC	Dr. Hailu Worku
4.30	Presentation of Addis Ababa WGA-catchment case, and the first ideas on water management options. Followed by a plenary "SWOT analysis"	20 min presentation of the catchment, i.e. catchment delineation, land cover (nature, fields, build), flow routes, followed by ideas for how to apply principles of retention and detention, and linking to water supply (harvesting, recharging). Afterwards 20 min plenary discussion on strengths and weaknesses, opportunities and threats, tracked on the blackboard.	Dagnachew Adugna EiABC	Dr. Hailu Worku
5.10	Questions to document mindset after first training	To document effect of training on mindset change	Dr. Lise Herslund	Dr. Hailu Worku
5.30	End of Day 1			

Day 2. JANUARY 30, 2014

Theme: Urban landscaping for ecosystem services

	Activity	Focus of activity	Presentor	Moderator
8:30	Registration			
9:00	Clicker questions related to urban landscaping	Documenting mindset baseline	Alazar Assefa EiABC	Abraham Workneh
9:45	Urban landscapes and their potential role in sustainable urban development	Introduction: types of open spaces and landscaping in urban context Concepts of open space, landscaping, benefits of greener landscape Defining urban green infrastructure and ecosystem services	Dr. Li Liu University of Copenhagen	Abraham Workneh
10:15	Components of urban landscape in the context of Addis	Introduce the components of urban landscape of Addis	Alazar Assafa EiABC	Abraham Workneh
10.45	Group discussion on benefits of greening the city	Focusing on the landscape of Addis, participants will discuss on the components of Addis landscape and the benefits of greener landscape	All Participants	Abraham Workneh
11:00	TEA /COFFEE BREAK			
11:20	Where to locate green elements and how to design it to obtain 'responsive landscapes'	Site analysis and criteria for greening the city that can support the decision making process and examples on how to deal with major green infrastructure design challenges	Dr. Antje Backhaus University of Copenhagen	Abraham Workneh
12:00	Group exercise on green design		Abraham Workneh + Alazar Assefa	Abraham Workneh

12:30	LUNCH BREAK			
01:30	Continued group work and follow up in plenary		Abraham Workneh + Alazar Assefa	Dr. Ketema
02:30	How to facilitate green infrastructure approaches through strategic collaborations (triple helix, citizens) and linking of 'hard infrastructure budgets' with soft values and livelihood		Prof. Marina Bergen Jensen University of Copenhagen	Dr. Ketema
03:10	TEA /COFFEE BREAK			
03:30	Engage in the formation of a 'transition arena' i.e. a platform for a network of possible champions for green infrastructure approach	<p>20 min introduction, summarizing identified challenges from Day 1 and day 2, and introducing the transition frame</p> <p>40 min group work:</p> <ol style="list-style-type: none"> 1. Which stakeholder has innovative power i.e. who would you approach for innovative ideas to address the challenges above? 2. Who has transformative power i.e. who has capacity to mobilize resources and other actors to address the challenges? 3. Who has reinforcive power i.e. which stakeholder is in a position dominant enough to adopt and champion LSM and generate political will <p>30 min plenary reflections</p>	Ms. Patience Mguni University of Copenhagen	Dr. Ketema
05:00	End of Day 2			

Day 3, January 31, 2015

Training theme: **TECHNIQUES FOR URBAN GREENING**

Activity		Focus of activity	Presenter	Moderator
9:00	Clicker question related to techniques for urban greening	Documenting mindset baseline	Dr. Kumelachew Yeshitela, EiABC	Dr. Kumelachew
9:45	Problems of urban greening in Addis Ababa		W/o Hiwot, AA EPA	Dr. Kumelachew
10:15	Group Discussion on problems of urban greening in Addis Ababa, follow up in plenum, and possible solutions		All Participants	Dr. Kumelachew
10:50	Coffee Break			
11:10	Green space development & management: site and species selection, post plantation management		Dr. Abayneh Environment and Forestry Research Institute	Dr. Kumelachew
11:30	Planning for green space: Ecosystem service based green space planning (case study from Addis)		Dr. Kumelachew	Dr. Kumelachew
12:00	Group exercise on green element for swale-dyke	Present the idea of infiltration-swale-dyke-crop-waste system and ask the groups to qualify the idea and suggest places to implement it	Prof. Marina Bergen Jensen University of Copenhagen	Alazar Assefa
12.30	Lunch Break			
01.30	Follow up on exercise in plenary		Prof. Marina Bergen Jensen University of Copenhagen	Alazar Assefa

02:00	Development of shared visions and formulation of transition agenda	Development of shared vision e.g. "A water resilient Addis Ababa by 2035" and backcasting possible paths of achieving the vision, i.e. in which way do you hope the city to develop in terms of water-related and environmental issues? Stakeholders formulate a 'transition agenda' and specific actions to be mainstreamed and disseminated in practice (i.e. who does what, collaborates with whom, who has the power to push this through...etc)	Ms. Patience Mguni University of Copenhagen	Liku Workalemahu
02.50	Follow up on exercise in plenary	What is included in the visions? Which issues are on the transition agenda? Here it would be nice if some of the individual participants (potential champions) will present their personal agenda. How will city and sub-city representatives, the engineer, the horticulturist, the researcher continue from here? Perhaps as short 5 min presentations?	Ms. Patience Mguni University of Copenhagen	Liku Workalemahu
3.20	Questions to document mindset after day 3	To document effect of training on mindset change	Dr. Lise Herslund University of Copenhagen	Liku Workalemahu
3:30	Award of certificate, end of training, coffee			