URAdapt

Managing Water at the Urban-Rural Interface: The key to climate change resilient cities

1. brief recap of project
2. project evolution
3. highlights of project to date

IWMI - Accra, 20 July 2010

CC and the city within the basin

Two central questions:

- What consequences will climate change have on water resource availability?
- What consequences will it have on wastewater disposal

Existing constraint : inability to meet even current water demands and wastewater management needs

Describing the Rural-Urban Interface of water and food for cities

Context

- The water system is anchored beyond the urban area often in the rural. Basin boundaries go beyond administrative
- The food inputs extend beyond the city boundaries into the peri-urban and rural areas often depending on the same water resource (or wastewater)
- Migration from rural areas to urban may be aggravated by severe climate variability and change

Issue:

- Due to the treatment of rural and urban as two distinct phenomena, peculiar vulnerabilities arising from these rural-urban linkages are often not sufficiently addressed
- The solution to the problem/adaptation measure may need to originate in the rural area
- Coordinating mechanisms need to factor in the links

Project description

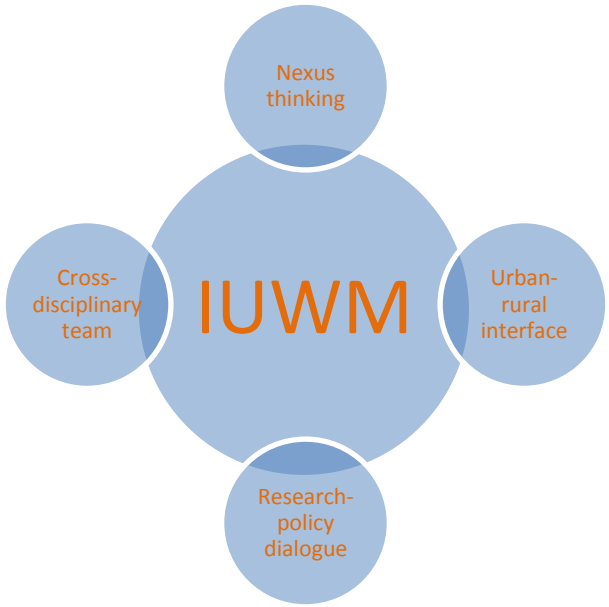
Project goal

Reduce the vulnerabilities of cities to climate change through improved and integrated urban water management

Project sites

The cities of Accra, Ghana and Addis Abeba, Ethiopia.

Project approach

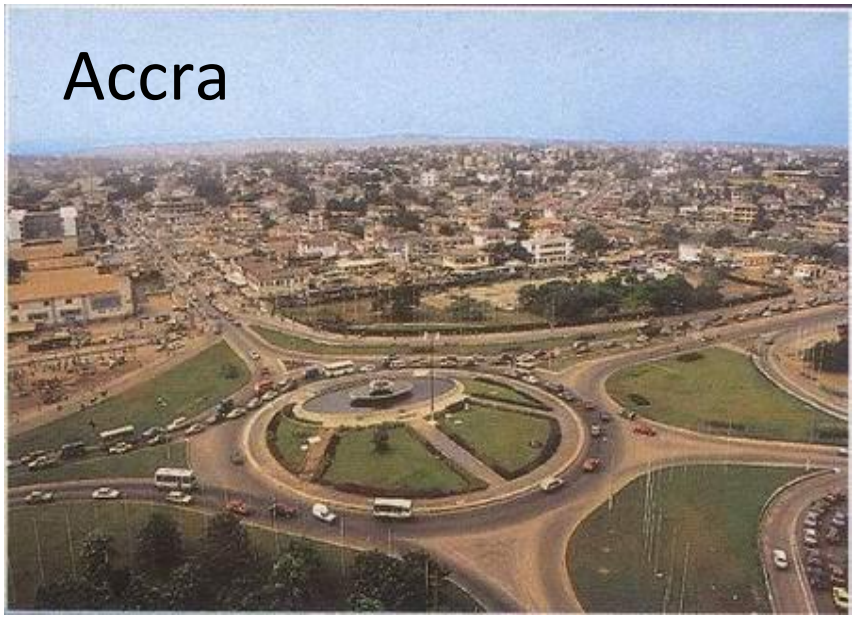


Project structure:

Stakeholder Platform

Empirical Research

Project Objectives



- shared understanding of climate change and urban water amongst multiple SH
- generate new knowledge using scenarios
- A city level strategic action plan for adapting to climate change

Scenario modelling

- CC impact scenarios: examples
  - CC Scenario 1: Rainfall events becoming more intense and frequent (city level)
  - CC Scenario 2: Dry periods becoming more severe (drier) and recurring more often (catchment level)
- Urban development scenarios (growth, water use, sanitation etc)
- Investment scenarios

Supply side

Demand side

More complications ☺ ☺

Project metamorphosis

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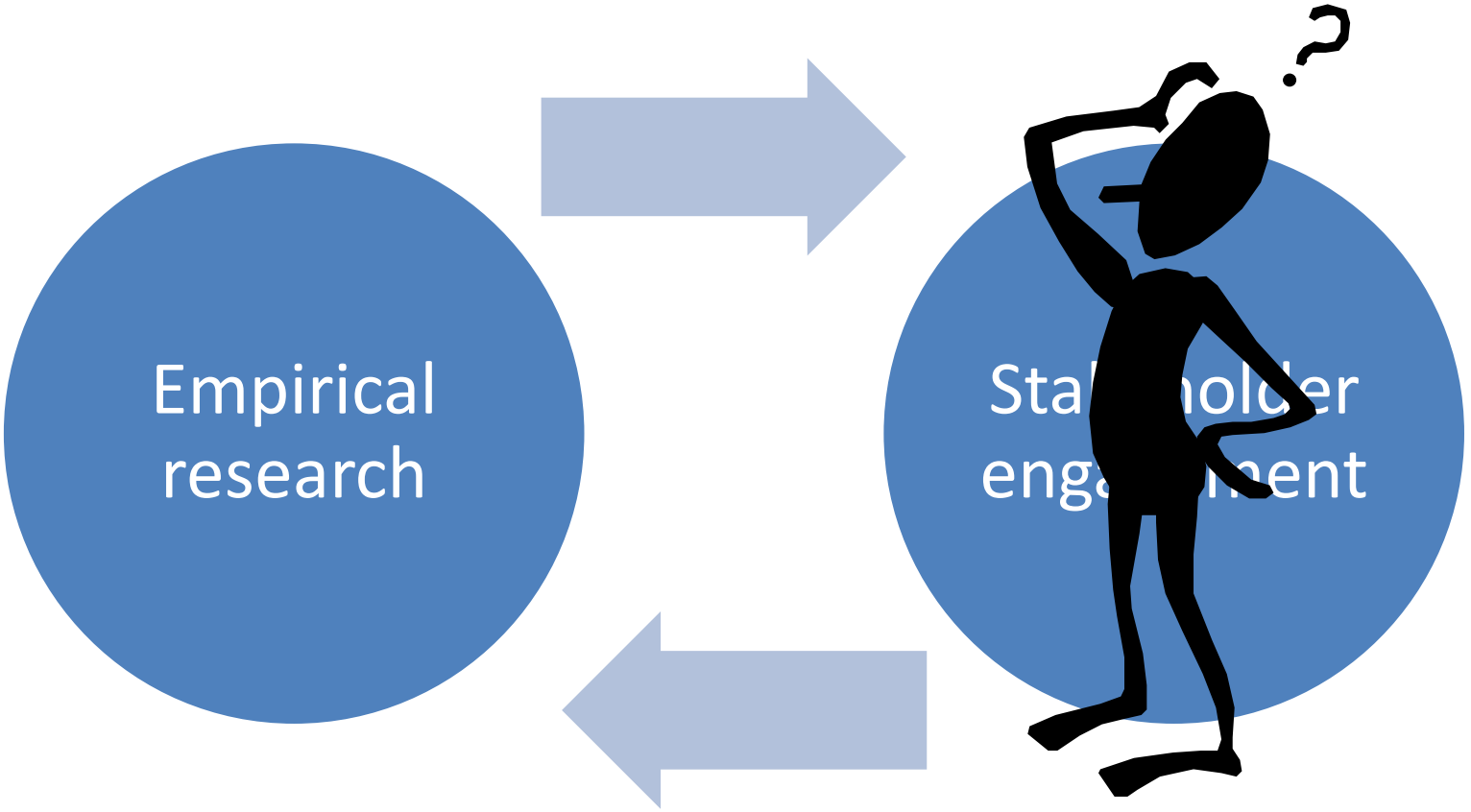
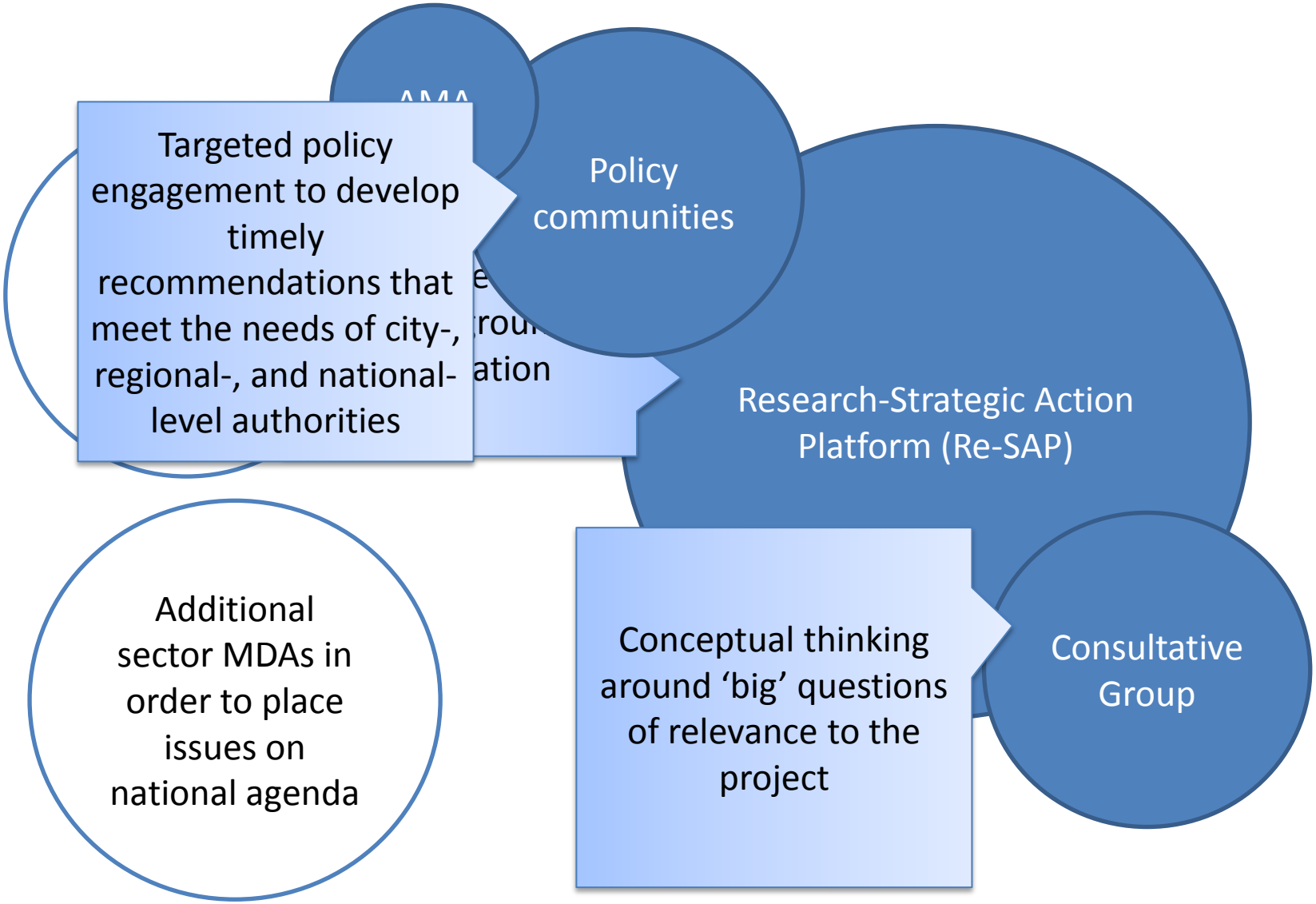


Project metamorphosis



Project updates - highlights

- Re-SAP meeting in Addis Ababa
- Setting up of climate change downscaling and hydrological modelling
- Policy input – National Urban Development Policy & National Climate Change Policy Framework
- Strengthened engagement with the AMA
- Visit of the Advisory Board of CCAA (IDRC-DFID)
- IDRC project officer's visit

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http://uradapt.iwmi.org