



# Capacity Development in the Safe use of Wastewater in Agriculture

- *basic concepts of capacity development*
- *presentation of the project agenda/roadmap*
- *structure of the kick-off workshop*

Dr. Jens Liebe

International Kick-off Workshop on Safe use of Wastewater in Agriculture

14 November 2011

UN-Campus Bonn, Germany



## UN-Water Partners

# UNW-DPC's Mission

UNW-DPC

*“to enhance the coherence,  
credibility and  
integrated effectiveness  
of UN-Water*

*by strengthening its capacity development programmes,  
particularly in developing countries and economies in transition.”*



# UNW-DPC Capacity Development Effort

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# UNW-DPC Areas of Activity

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## all areas of priority to UN-Water:

Transboundary Waters

Health, Sanitation &  
Drinking Water

Climate Change &  
Disaster Risk Management

Gender and Water

Water Scarcity

Capacity Development

Integrated Water Resource  
Management

Africa: A region  
for priority action

# UNW-DPC Strategy: *long-term Capacity Development Concept*

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UNW-DPC follows a long term capacity development concept to support UN-Water

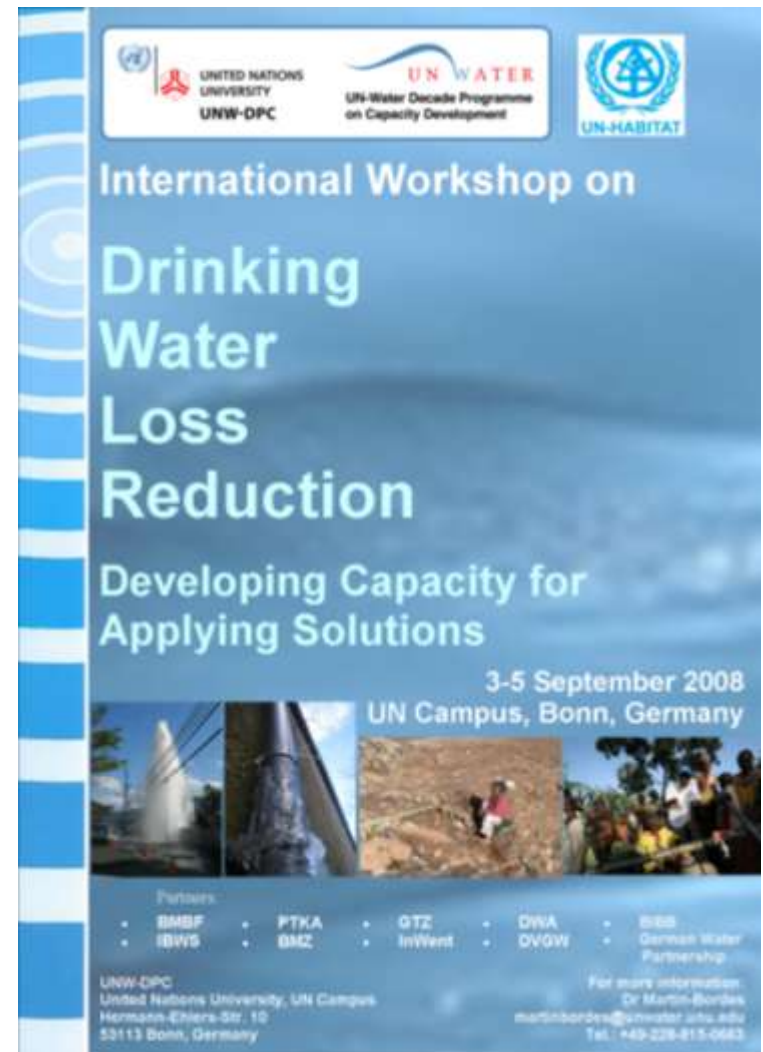
From single to 'embedded' activities using multilateral thematic, conceptual and collaborative workshops



# Example: UNW-DPC support sequence on Drinking Water Loss Reduction

## 1. International workshop

- Raise awareness
- Determine level of stakeholder interest
- Identify stakeholders' experience, assess key issues and action-oriented tasks
- Publish report as baseline for regional meetings



## 2. Series of Regional Drinking Water Loss Reduction Workshops, together with UN-Habitat and local partners

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Proceedings of the  
1<sup>st</sup> Regional Workshop on  
Water Loss Reduction in  
Water & Sanitation Utilities  
*Latin American Countries*

2-4 November 2009 Leon, Mexico

Editor: José Luis Martín-Bordes

Proceedings No. 3  
UNW-DPC Publication Series



Proceedings of the  
2<sup>nd</sup> Regional Workshop on  
Water Loss Reduction in  
Water & Sanitation Utilities  
*South East European Countries*

16-18 November 2009, Sofia, Bulgaria

Proceedings of the  
3<sup>rd</sup> Regional Activity on  
Non-Revenue Water Management:  
Solutions for Drinking Water Loss Reduction  
*Arab Countries*

3<sup>rd</sup> ACWUA Best Practices Conference

20-21 January 2010, Rabat, Morocco

Co-editors: Reza Ardakanian  
José Luis Martín-Bordes

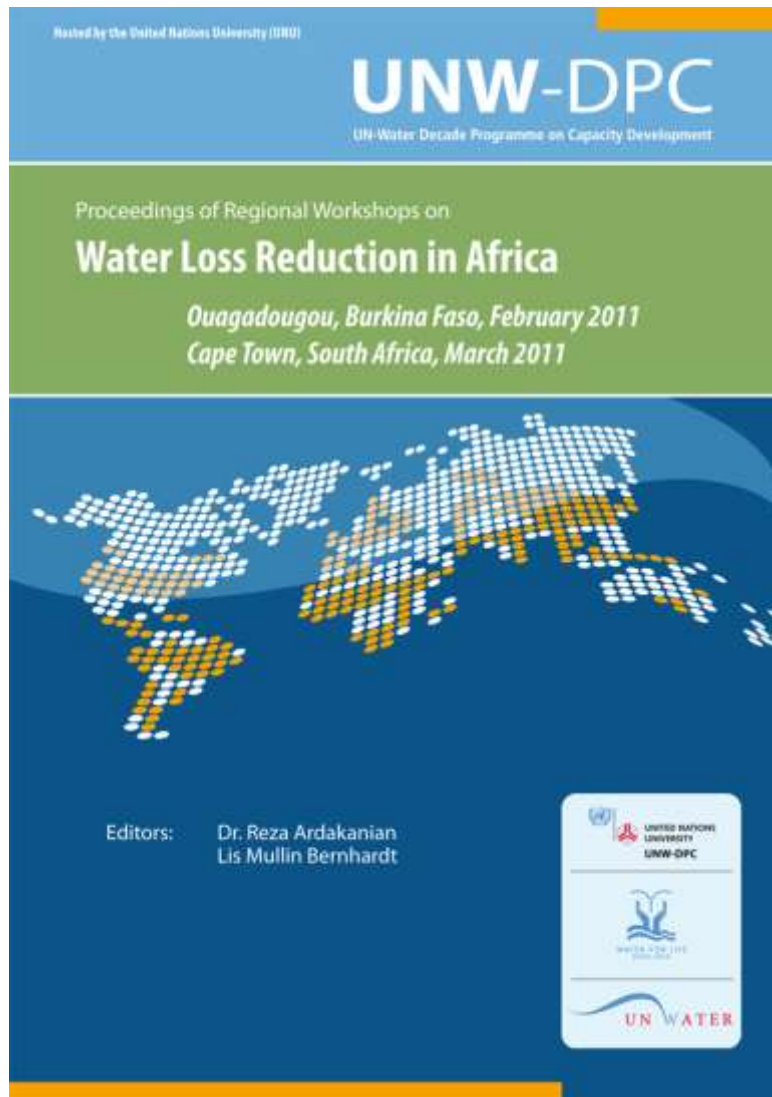
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### 3. Further awareness raising

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Workshop in Burkina Faso



Seminar



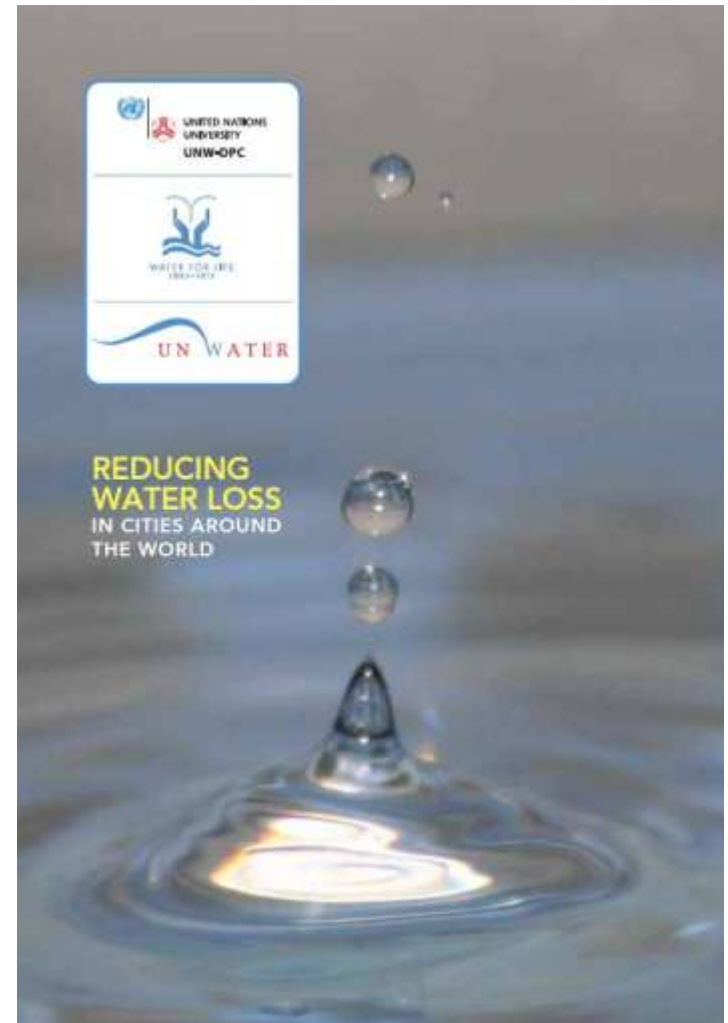
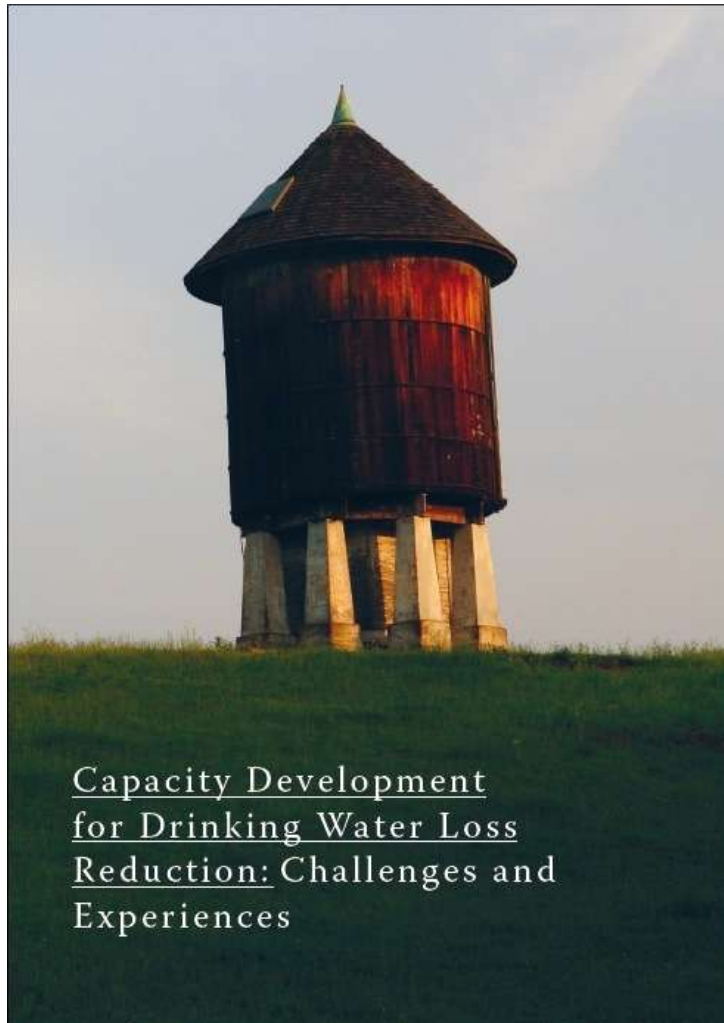
South Africa

Seminar on "Capacity Building for Non Revenue Water Loss Reduction: an Africa Perspective"

# Book and Video launch

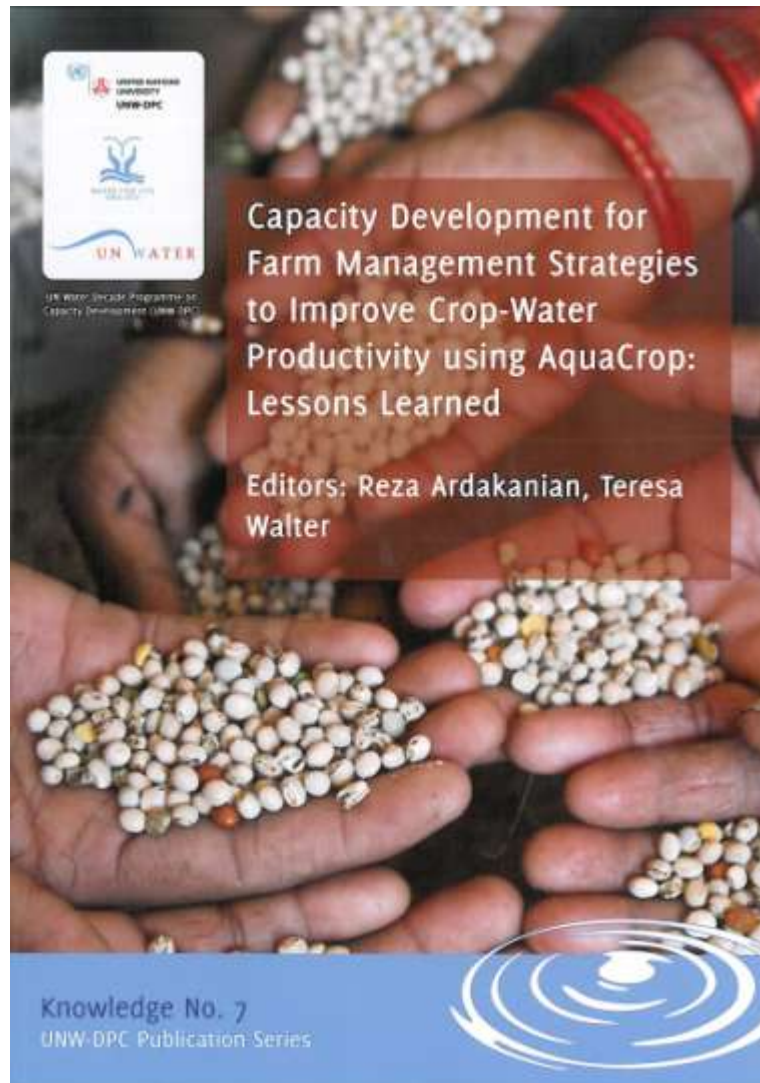


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Launched at the World Water Day 2011 in Cape Town

# CD for Farm Management Strategies using AquaCrop



## Training Workshops, Africa

- Burkina Faso
- Egypt
- South Africa

## Training Workshops, Asia

- Iran
- China

Wrap-up at International workshop in Indonesia, showcasing best case studies of practical applications to policy makers



# Safe use of Wastewater in Agriculture

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**Stage I: capacity building at the individual/organization level**



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# Levels and dimensions of capacity with respect to safe wastewater use in agriculture

**Trade and market environment**

**Socio-economic and political environment**

## **System level:**

Context in which organisations, individuals and groups involved in wastewater use for agriculture operate

**Dimensions:** Policies, strategies, laws and regulations related to safe wastewater use in agriculture.

Relationships, interdependencies and interactions among concerned stakeholders

## **Organization level:**

Government Agencies and Institutions such as Ministries of Agriculture, Water, Environment, Health or Irrigation; Water control laboratories, Research Centers, Consumer groups

**Dimensions:** Resources (human, financial, information) procedures, structures, culture, decision-making, infrastructure, etc.

## **Individual Level:**

Public health, agricultural and environmental scientists, agriculture professionals, educators, researchers, engineers, policy makers and those responsible for developing standards and regulations

**Dimensions:** Knowledge, skills, competences, work ethics, etc.

**Governance**

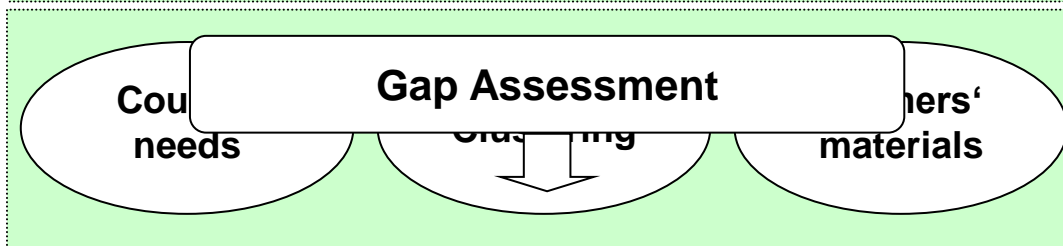
**Education**

# Phases in Stage I: Capacity building at the individual/organization level

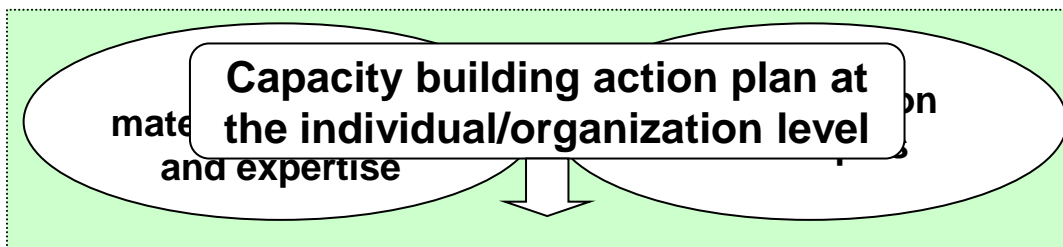
**Phase I:  
Individual Capacity Needs  
Assessment (CNA)**



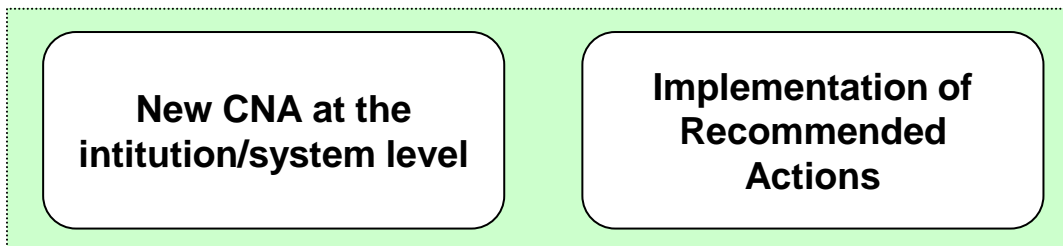
**Phase II:  
International workshop**



**Phase III:  
Regional workshops**



**Phase IV:  
Wrap-up workshop**



# Timeline



| Results and milestones  | Deadline                      |
|---|-------------------------------|
| International Workshop  | November 2011                 |
| Regional Workshops<br><i>North Africa, Asia and Middle East,<br/>Latin America, Southern Africa</i> | February to September<br>2012 |
| International Wrap-up workshop  | ~ March 2013                  |

# Structure of the kick-off workshop

## Day 1

- Introduction of organizing programmes, agenda, additional info
- Launch of the UN-Water Activity Information System (UNW-AIS+)
- Regional panel presentations of Capacity Needs Assessment (CNA) Results
  - Region 1: Asia: *Iran, Jordan, Lebanon, Pakistan, and Syria*
  - Region 2: Latin America: *Bolivia, Colombia, Guatemala, and Peru*
  - Region 3a: Northern Africa: *Algeria, Egypt, Morocco, and Tunisia*
  - Region 3b: Sub-Saharan Africa: *Ghana, Senegal, and South Africa*
- Synopsis of regional presentations, discussion on regional and overarching issues



# Structure of the kick-off workshop

## Day 2

- Recap of day 1 and introduction of additional materials
- Presentations by Guest Organizations (DWA, IWMI)
- Discussion on the way forward
- Regional break out groups to discuss the information needs of countries engaging in safe use of wastewater in agriculture
- Report of the speakers of the three regional breakout groups
- Synopsis and closing
- Bonn Dialogue on **“The Water, Energy and Food Security Nexus: Solutions for the Green Economy”**

# Thank you!

UNW-DPC



**UN-Water Decade Programme  
on Capacity Development  
(UNW-DPC)**

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