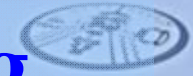


Theme2. Advancing Human Development and the MDGs

Topic 2.4 Multiple uses of water, e.g. domestic water supply and irrigation



MUS = a cost-effective opportunity towards MDG 1 & 7 (also 3)



- **Food and Poverty**
- **Domestic water**
- **Energy**
- **Environment**
- **Habitat**
- **Transport**
- **Social & cultural**
- **Gender**
- **Health**

Multiple what ?

Intended vs unintended

Uses

Externalities (positive-negative)

Functions

Parallel or serial process

Roles

Uses & consumptive uses

Purposes

Users and beneficiaries

Increasing recognition of a great

Conclusion of point 3 (out of 6) on Multiples roles of water

...a much more refined appreciation of positive and negative externalities will recognize and reward all waters uses and can reduce pressure on environment while paving the way to economically balance management. It is in that sense that agriculture needs to draw attention to the multiple roles and effects of agricultural water management in rural and urban areas, and to internalize in the local systems of land and water governance.

Ministerial Meeting on Water for Food WWF3 Issue paper MAFF/FAO

Shared Knowledge Works 2003-2005 (IWRM, IUCN, FAO...)

- **WWF3 Kyoto – MUS Policy [WWF 2 & 4 → IWRM]**
- **2003 Networks INWEPF & PRODWAT/MUS**
- **2009 Istanbul MUS as one major topic of the forum.**

Purposes and Uses	Functions and Roles
<ul style="list-style-type: none">• <u>Domestic water</u>• <u>Irrigation</u>• Hygiene and sanitation• Transportation• Hydropower• Environmental flows• Flood protection	<ul style="list-style-type: none">• Flood protection• Groundwater recharge• Support to fishing• Tourism• Support to natural ecosystems (biodiversity)• Health: water related diseases, support to medicinal trees.• Social functions linked to the infrastructure and management• Recreation• Soil conservation• Habitat improvements (raw materials for construction, shade, cooling effect,...)

Seizing Multiple Uses



What system ?

- **Community based small scale MUS system**
- **Medium to large irrigation based MUS system**

What approaches?

- **livelihood approach**
- **managerial approach**

Major thrusts ?

- **A cost-effective answer for the poor and the disadvantage groups**
- **A way to share the cost and sustain O&M of existing infrastructure and sustain**



A new title
MUSF = Multiple Uses,
Services and Functions

Some critical questions



- **VALUE:** how to value the different functions and uses
- **SERVICES:** How to define the water services
- **COST:** How to estimate the associated cost
- **EFFICIENCY:** optimum of a multiple variable
- **DECISION:** the best decision mechanisms for MUS
- **INSTITUTIONS:** institutional and legal arrangements for MUS ? Mechanisms to remunerate the service providers by users and beneficiaries whoever they are.



Outcomes of Istanbul 2008 February preparatory meeting 2 Main Sessions proposed for the WWF5:

**Session 1: Multiple uses and functions of water services to accelerate achievement of MDGs
Characterisation of MUS uses and services, cost and values.**

Session 1: Governance and support to multiple-use and functions services: Institutions & Legal framework for MUS



The goal are:

- 1) raising the global awareness on MUSF and**
- 2) draw attention on policy adjustments to allow a favorable environment**

The means: Bridging 3 main streams of work on MUSF to promote a livelihood development approach:

- Domestic approach: IRC and MUS Network**
- Asian network on paddyfield X-Functions INWEPF**
- FAO programs on Service Oriented Management and modernization (including MUS)**



The road map

**Major step: The MUS Symposium in Addis Abbeba
November 2008**

Global debate on WWF5 platform to be organized

Possible regional meeting on MUSF (Central Asia, Asia,...)