The Comprehensive Assessment of Water Management in Agriculture (CA)

Naoya Fujimoto
IWMI
Water, Food and the Millennium Development Goals

• Help end poverty and hunger
• Ensure environmentally sustainable water-agriculture practices
• Find the balance between food and environmental security
identifies choices for the future—to ensure food and environmental security and alleviate poverty
Achieved by

- an assessment of water, agriculture, livelihoods, and the environment
The Assessment brings together researchers, water managers, development professionals, policy makers to take stock of:

- the **impacts** of the past half-century of water development for agriculture
- the **water management challenges** communities are facing today
- the **solutions** people have developed
For Better Investment and Management Decisions

By farming communities, governments, and donors to meet food and environmental security goals in the near future and over the next 25 to 50 years.
Partnerships

• Over 90 institutes and 200 researchers currently involved
• CGIAR Centers – IWMI convenes
• NGOs, Universities, water management organizations
Areas of Focus

**groundwater challenges**

- Areas of Focus
  - Fisheries
  - Water productivity
  - Other: impacts of irrigation, rainwater, policy & institutions, low quality water, IWRM in basins, how much more & what type of irrigation/rainfed agriculture?
Cross Cutting

• Poverty
• Gender
• Ecology
• Health
Status

• Half of 5 year program complete – major activities are CA research and reviews

• Second half - combine CA research with other research, on-the-ground experience and traditional knowledge

• Synthesize results into the Comprehensive Assessment by 2006
The Assessment

- Trends, conditions, response options, scenarios
- As comprehensive as possible on water-land-food-livelihoods-environment
- Credible, authoritative key messages
- Built by a process that encourages stakeholder participation and buy-in
- Influences investment and management decisions
- Delivered as a technical volume and an overview for policymakers.
Building the Assessment

- Participatory approach engaging communities of practices to develop chapters
- Thorough scientific and stakeholder review process for credibility
- Dissemination during the building process
- Each chapter has author team 10 – 20 with a few lead authors
- Teams from a diverse background – experience, gender, location
- Extensive independent review
- CA board approves final product
Contributed Research
Assessment Research
Stakeholder Knowledge/Experience

Synthesis Workshops on Key Topics

Draft Chapter Reports
Developed by interdisciplinary multi-author team)

Synthesis Workshop
Integrates findings across topics and distills key messages

Draft Technical Assessment Volume Containing All Chapters
Draft Synthesis Overview Containing Key Assessment Messages

Publication & Launch of Assessment Report
Includes international media campaign

Dissemination Activities
(eg. policy roundtables, stakeholder dialogues)

Production of Outreach Material
(eg. policy briefings, guidelines, extension & educational material)
Steering Committee

- Patrick Dugan, Worldfish
- Suhas Wani, ICRISAT
- Eiman Karar, DWAF, South Africa
- Johan Rockstrom, SEI, Sweden
- Gina Castillo, Novib-Oxfam, Netherlands
- Jean-Marc Faures, FAO
- Bas Bouman, IRRI
- Mark Rosegrant, IFPRI
- Theib Oweis, ICARDA
- David Molden, IWMI
Book on Rice, Water & Environment
- Introduction -

• Rice is not only a staple food for various countries, but also a background of characteristics of people who grows rice.

• So, the book should include a technical aspect of rice cultivation as well as social structure the people formulated during long history of cultivated rice.
Book on Rice, Water & Environment
- Audience -

• Expected audiences will be researchers, polity makers, farmers, etc. including people who are not familiar with rice cultivation.
Book on Rice, Water & Environment
- Tentative Skelton -

• 1. Background
• 2. Rice & Hydrology
• 3. Water, Rice & Environment
• 4. Water, Rice & Livelihoods
• 5. Response Options
• 6. Water Policies & Rice
• 7. The Future of Rice
• 8. Policy Implications
Book on Rice, Water & Environment
- Tentative Skeleton -

• 1. Background
  – a Origin and diffusion of rice cultivation
  – b Rice cultivation under different climatic conditions
  – c Rice, livelihoods and culture
  – d Rice production and consumptions
2. Rice and Hydrology
   - a. Field level
   - b. Basin scale
   - c. Role of rice fields in delta areas
   - d. Water productivity and rice
   - e. Rice in water scarce areas
   - f. Rice in flood prone areas
3. Water, Rice and Environment
   - a. Multifunctional roles of paddy fields and irrigated rice systems
   - b. Rice as an agricultural wetlands
   - c. Impacts of rice on terrestrial and aquatic ecosystems
   - d. Rice and climate change
• 4. Water, Rice and Livelihoods
  – a. Water, rice and culture
  – b. Water management and poverty
Book on Rice, Water & Environment
- Tentative Skelton -

• 5. Response Options
  – a. Increasing productivity of water
  – b. Farm level water savings practices
  – c. Working with multifunctionality
  – d. Basin level strategies
  – e. Working with nature – adapting to flood and drought
6. Water Policies and Rice
- a. Water pricing
- b. Water management, conflict and allocation
- c. Multifunctional roles of rice farming
- d. Financing rice based systems
7. The Future of Rice
   – a. Business as usual
   – b. Under other scenarios
8. Policy Implications
   – a. What are good investments under what conditions
   – b. Financing – who should pay how much?
Book on Rice, Water & Environment

- Contribution -

• Now asking contribution
  – Authors
  – Monetary Assistance
Thank you

For further information visit:  
www.iwmi.org/assessment

or write to
comp.assessment@cgiar.org