



Strategy Theme "Systems"

by

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Outline of discussion:

1. Introduction
2. Appraisal and gaps
3. Vision and future direction
4. Conclusion

International Commission on Irrigation and Drainage

Vision

- ♣ Enhancing the worldwide supply of food and fibre for all people
- ♣ Improving water and land management & productivity of irrigated and drained lands; through
- ♣ Appropriate management of water, environment & application of irrigation, drainage and flood management techniques

Mission

- ♣ Stimulate and promote the development and application of the arts, sciences and techniques of
- ♣ Engineering, agriculture, economics, ecological & social sciences in
- ♣ Managing water and land resources for irrigation, drainage and floods, including
- ♣ Research, development and capacity building for achieving sustainable irrigated agriculture

ICID Strategy Themes

- ♣ Basin
 - Policy/planning framework, economic and legal issues, institutional aspects
 - Water and soil resources management, environment, sustainable development
- ♣ System
 - Project management, traditional social structure, user participation, financial aspects
 - Design, construction, rehabilitation, modernisation, regulation of collective systems
- ♣

1. Introduction: Managing water for sustainable agriculture/Water for food and rural development

- ♣ ICID: Activity and contribution by different scientific disciplines
 - Universities, Research Councils, Government Departments, Private Companies
 - Network of individuals and groups (NCs, WBs, TCs, IEC)
- ♣ Question: Who manages water and for who is food produced?
- ♣ Target group for researchers, extensionists, advisors & lecturers: Farmers and Consumers
- ♣ Important: Focus on people in order to be relevant

Definition of key terms

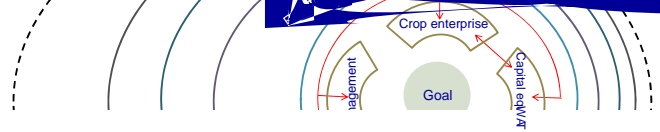
- ♣ Agriculture is an activity of people which is undertaken purposefully through crop cultivation and animal husbandry with available resources
- ♣ Strategy involves setting objectives/goals, determining a course of action and allocating resources (expertise, time, funds)
- ♣ System is a complex whole, consisting of interrelated sub-systems and components which are goal directed and interact with each other and the environment within a conceptual boundary

Note: Later development of Complexity Science and Complex Adaptive Systems (CAS) or Multi Agent Systems (MAS)



Technical Workbodies (Continued)

- ▲ Working group on millennium development goals (WG-MDG)
 - Mandate:
 - To promote the production of rigorous (or credible) evidence of the impact of agricultural water management investments on the MDG 1 goals of reducing poverty and malnutrition, and other MDG-related social development outcomes (e.g. health and education)
 - To promote the identification of cost effective means of ensuring the maximum and equitable realisation of the benefits from agricultural water management investments
- ▲ Task force on financing water for agriculture (TF-FIN)
 - Mandate: The focus of the TF will be to get a better understanding and insight (assessment) of
 - (i) the required investments and beneficiaries of those investments in agricultural water; (ii) the presently available financing mechanisms and constraints for maintaining physical irrigation capacity, etc.
- ▲ Task force on water for bio-energy and food (TF-ENERGY)
 - Terms of Reference: Evolve "ICID's position on water for bio-energy and food"
- ▲ Task force on sedimentation of reservoirs (TF-SEDIMENTATION)
 - Terms of Reference: To look into the aspects of sedimentation of reservoirs and to come up with recommendations for appropriate strategies



3. Vision and future direction

- ♣ ICID Strategy Themes
 - Reconsider allocation of Working Groups/Task Forces according to Themes within Complex Adaptive Systems and Multiple Agent Systems
- ♣ Implementation of Strategy Themes
 - Ensure strict adherence to Workbody Mandate, Workplan, Activities and Reporting by participation of
 - National Committees
 - Individuals representing NCs
- ♣ Mode of operation
 - Meeting to meeting within mandate and workplan

versus

 - Workshop to workshop within mandate, workplan and final reporting
- ♣ Completion or continuation of Workbodies
 - Conclusion of activities

versus

 - Re-invention and continuation of activities

Reflection on functioning of ICID Technical Workbodies

- ♣ Purpose of ICID Workbodies
 - Working Groups
 - Subject of relevance to vision and mission of ICID
 - Sharing of knowledge and experience by member countries
 - Nomination and participation by individuals representing member countries
 - Task Forces
 - Input to promote the vision and mission of ICID
 - Contribution by experts of different member countries
 - Nomination and participation by individuals representing member countries
- ♣ Requirement for effective/successful functioning of Working Groups/Task Forces
 - Active involvement and participation of individual nominated by member country of ICID

Future direction for existing Workbodies

- ♣ Conclude activities according to Mandate and Workplan
 - WG-MIS
 - WG-DRG
 - WG-WAT
 - WG-POV
 - TF-FIN
- ♣ Re-allocate to relevant Strategy Theme
 - TF-BIO } Transfer to Strategy Theme "Basin"
 - TF-SED }

Consider to extend workplan of TF-BIOENERGY

 - WG-MDG) Transfer to Strategy Theme "Knowledge"

Urgent attention to activate NCs and representative members for TF-SED and WG-MDG

Future direction for new Workbodies

- Proposal to initiate Working Groups within renamed Strategy Theme "Systems" with focus on management
- ♣ Irrigation management according to the Water Balance Approach
 - Consumptive water use
 - Beneficial and non-beneficial irrigation
 - Non-consumptive water use
 - Recoverable and non-recoverable drainage
 - ♣ Irrigation water loss control
 - Water saving with innovative water management
 - ♣ Irrigation rehabilitation/revitalisation/modernisation
 - Improved water management with attention to technology, organisation and service delivery
 - ♣ Irrigation development and management of WUAs
 - Cost recovery of service for water distribution
 - Balance budget with sources and application of funds

4. Conclusion: Critical review in relation to Mission of ICID

- Leadership and decisive action
 - "Leadership is about creating a domain in which human beings continually deepen their understanding of reality and become more capable of participating in the unfolding of the world. Ultimately, leadership is about creating new realities" (Peter Senge, 1998)
 - "The challenge of developing or re-establishing a clear strategy is often primarily an organisational one and depends on leadership" (Michael Porter, 2008)
- Top-down and bottom-up interaction
 - IEC: Mission and strategy
 - PCTA: Operation and reporting
 - WB: Active participation and contribution
 - NC: Responsive, co-operative and expert nomination
- Appreciate input and benefit of WG/TF activities
 - Networking and co-learning



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