



















•PRACTICAL TOOLS •VISIONING AND STRATEGIC PLANNING •PRACTICAL PLANS



•FROM FIELD TO POLICY OPTIONS •MONITORING OF INVESTMENTS AND RESULTS





National and Sub- national stage	Type 1: Reservoir gravity	Type 2: Off-river gravity	Type 3: Off-river pump	Type 4: Conjunctive	Type 5: Integrated management deltas
Post- agriculture	0 Optimizing multiple use economically justified; limited number of sites available for new systems	- Reduce. Merge or neglect due to low reliability Convert to type 3 or 4 Convert to different crops/land use	+ Increasing energy costs Crop diversification Rice phases out economically justified; limited number of sites available for new systems	+ Highly flexible Farmers decide Market rules (export possibilities) (manymers use pumps)	- urnanizationOptimizi ng multiple use (environment, drainage isuues, per- urban agriculture, urbanization) ; more crop diversification
P	not economically justifi ed by agriuclutre alone but may expand;		0/-	+	Expand short term then decline due to urbanization, sea level rise, samity?
Agricultur Export	Anticipate on multiple uses	Improve, modernize (endless) Inherent limitations of supply	Likely reduction due to energy costs (for paddy)	Highly flexible Farmers decide Market rules (export possibilities) (several farmers use pumps)	Optimize multiple use Expensive drainage (environment, drainage isuues, per- urban agriculture, urbanization)
ture		+	+	+	Expand short term then decline due to urbanization, sea level rise, salinity?
Agricul focus	Too expensive for rice but plan for future or multi- purpose structure	low costs Comparative advantage (compared with oither options)	Affordable investment Subsidized O&M	Highly flexible Farmers decide Market rules (export possibilities) (some rich farmers use pumps)	Developing paddy systems Not yet urbanization

SUCCESS (?)

Re-inventing irrigation and agricultural water governance in the Asia Pacific to meet the Millennium Development Goals

A regional programme to support action at all levels through knowledge sharing, capacity building and implementation

5 inter-related components

- Development of communities of practice for policy makers, implementing agencies, water resources and irrigation system managers, water user and farmer organizations
- 2. A knowledge hub for a knowledge network on irrigation and groundwater governance
- Supporting action in representative basins and their groundwater systems: support to 7 basin centres of excellence/reference, to functional centres of excellence /reference within these basins
- 4. Development and adoption of regional guidelines for monitoring investment and results including a
 Mannonized regional irrigation benchmarking sympleters
 Mobilization of the professional community in the

Water Knowledge Hub on Irrigation Service Reform

Re-Inventing Irrigation and Agricultural Water Governance in Asia

 \square

he water knowledge hub on Inigation Service Reform led by MMI and FAD would support action at

building and project implementation with a view to furthering the achievement of the Millionnium Development Goals (MDGS)

C

NEWS : IMMI and FAO (panch Knowledge Rub for Infigation Service Reform... (click to read more) Community of Practice for Irrigation Service Reform in the Asia Pacific Region... (click to read more)

Over 60 percent of the works's irrigated area is in Asia, and approximately two thirds is devoted to cereal grain production, rice and to a lesser extent, wheet. This irrigated area has expanded rapidly over the past 50 years, through the construction of cereals and storage dams and the exploitation of groundwater. The rapid growth of irrigated agriculture fostered growth and changed the economies of Asia.

Today, many Asian countries are facing physical water scarcity and as their economies develop and grow, emerging issues include water availability, competition between different users and the human and environmental health hazards which arise from urbanization and development activities.

Over the past lew months, the world has also been hit by both food and energy ofset. As a consequence, prices for many staple foods have risen by up to 100%. The causes of water scarchy are essentially identical to hose of the food orisis. There are serious factors that indicate water supplies are does to exhaustion in some countries.

Food security largely depends on imigation and good water governance. Potential solutions to the current critic include more water storage, improved management of infigation systems and increasing water productivity (e.g., more log of crop per 1,000 liters of water) in infigated and rainfed familing systems. All of these will require investment in knowledge, infrastructure and human capacity. Therefore, Human development and environmental security in the region cannot be achieved if the infigation sector does not adopt forward—looking strategies. To achieve this, the infigation sector and its actors need to adopt effective policies, strategies and practices to improve performance, and instruments to monitor and evaluate the results of charge.

IWAII and FAO are working log-ther on a regional program to re-invent irrigation and agricultural water governance in the Asia Pacific region. The knowledge generated through this partnership will be shared with the water knowledge but network. This inflative builds on the FAO regional irrigation Modernization Program and the Weikined knowledge synthesis and global research initiatives such as the Comprehensive Assessment of Water Management in Agraduate, as well as the COMP. Chailinger Program on Water and Pood, and the groundwater Everyance program.

10

 Δ

t levels through knowledge sharing, capacit

 Mail 1177 Boot Marcalla, Polorena, Battamonia, Milanta, 197 Adv11.200000 (Pen - Air 11.2700004) (Email Assingly process) PAGE Value della Transmitta Annual Sciences (Sciences) PAGE Value della Transmitta Annual PAGE Value (PAGE Value) 197 - 10000-07000 Pen - 40000-07000 (Constant PAGE Value)

© 2008 International Materials are present tradition

