



THE WORLD BANK



Evaluating Impact: Turning Promises into Evidence

Participatory Irrigation Development Project (PIDP)

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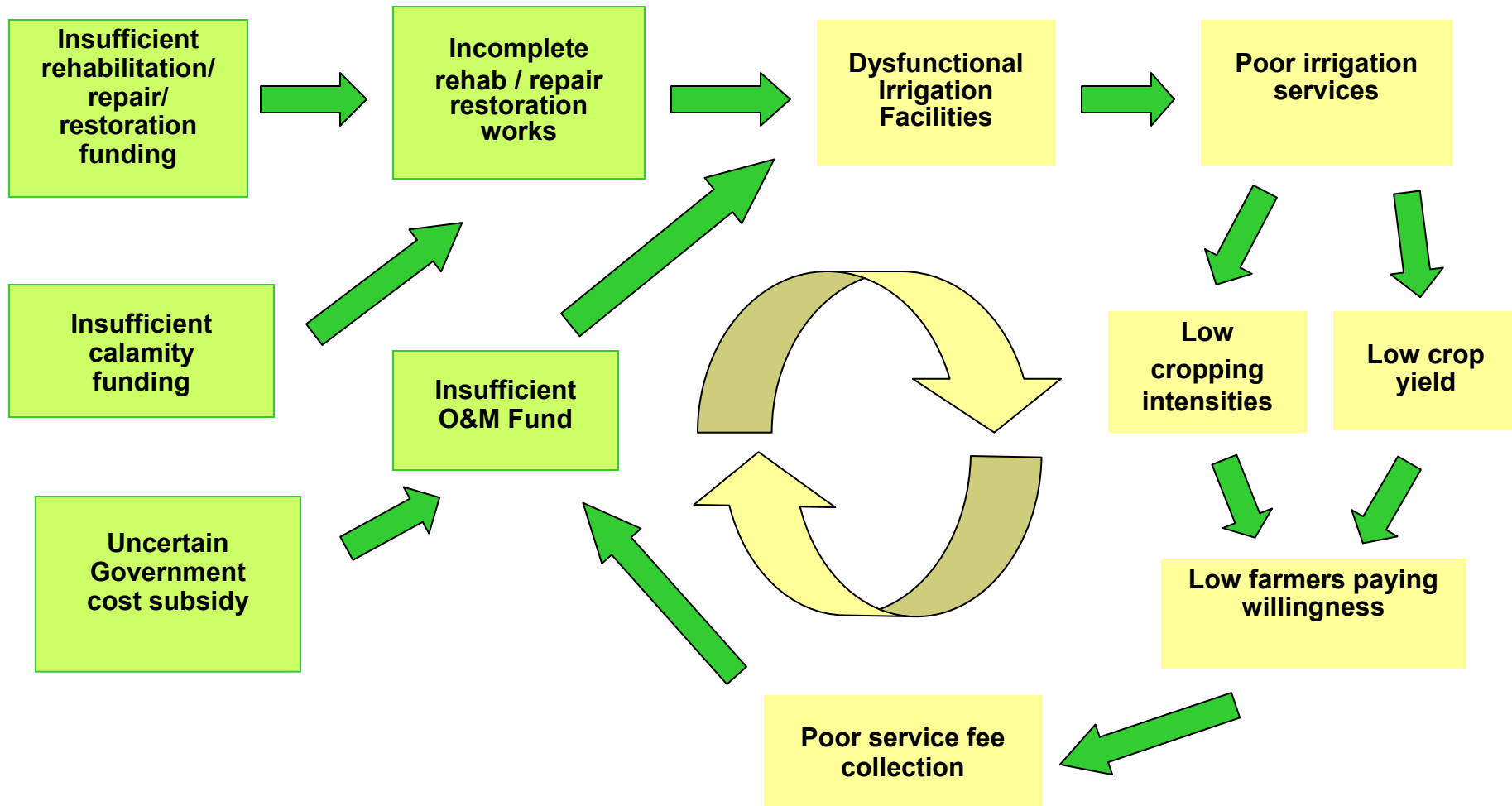
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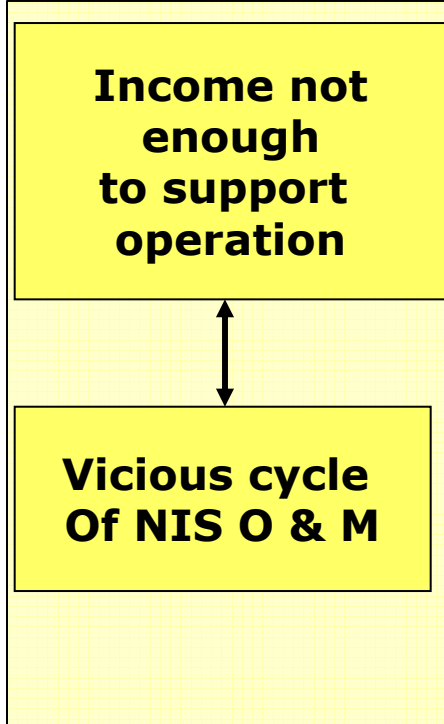
1. Background

The Vicious Cyclic Phenomenon in Irrigation Operations

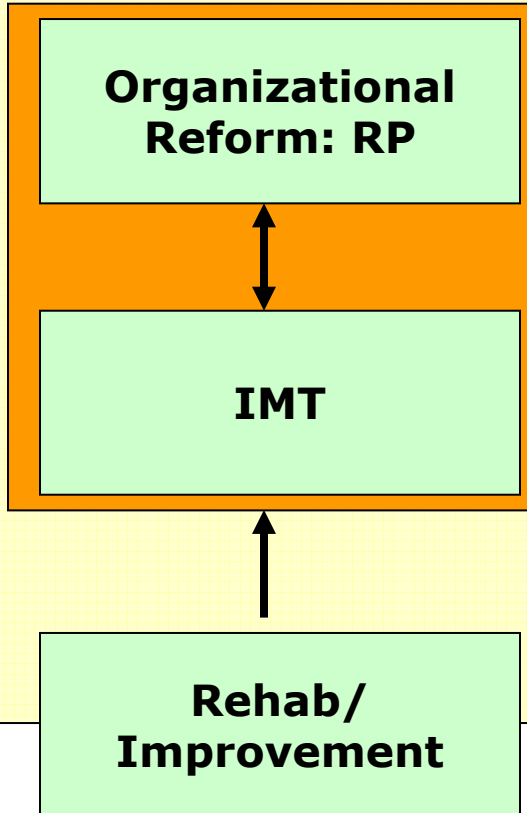


The Holistic Framework of NIA Irrigation Sector Reform

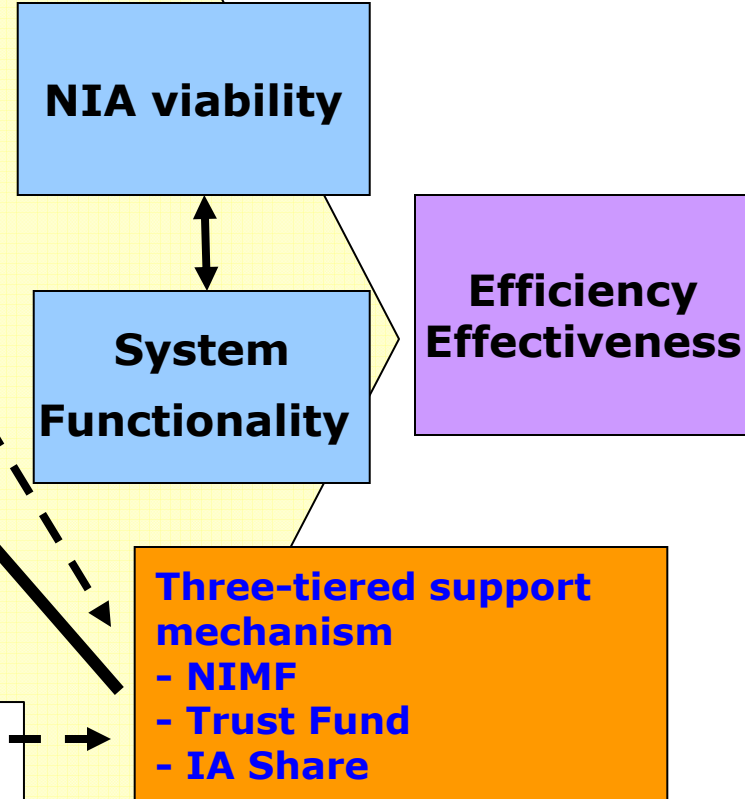
Present Situation



Strategies



Desired Situation



Team Approach:

- Consultations
- Capacity Building / Team Building
- Task delegation to teams at all Implementation Levels

Background....

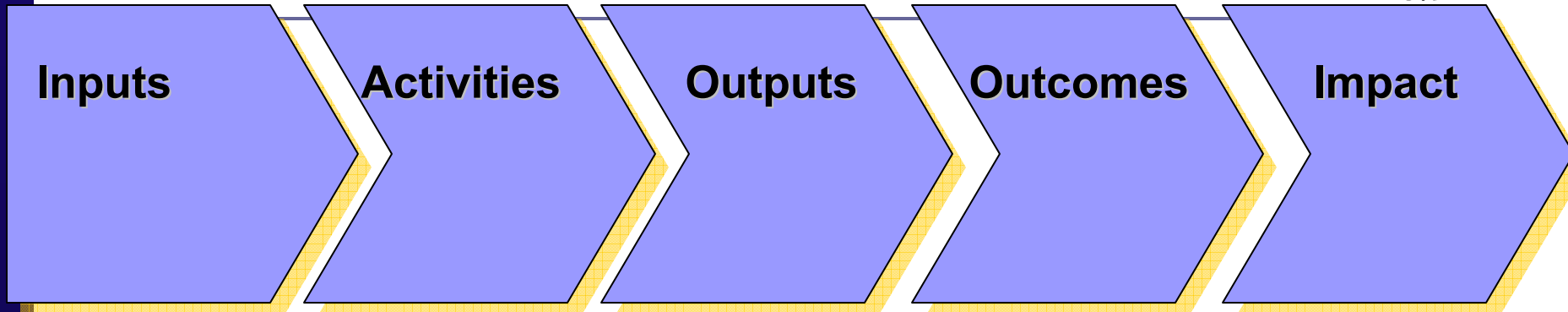
- The Objectives of PIDP are:
 - Transform NIA into a strategically focused and financially viable service agency through the implementation of the Rationalization Plan
 - Enhance participation of IAs through capacity building in irrigation development and management and Irrigation Management Transfer
 - Improve irrigation service delivery through rehabilitation, improved Operation & Maintenance (O&M) and Modernization of 58 National Irrigation Systems (NISs)

Background....

- The implementing agency is the National Irrigation Administration (NIA)

- The components of the projects are:
 - A. Irrigation Sector Restructuring and Reform
 - a. Rationalization Plan
 - b. NIA Institutional Strengthening and Participatory Development
 - c. Establishment of National Irrigation Management Fund
 - d. Establishment of Patubigayan Trust Fund
 - e. Policy Studies
 - f. Program Benefit Monitoring and Evaluation
 - B. Infrastructure Development Component
 - a. Support to Social and Environmental Safeguards
 - b. Civil works
 - c. Equipment

2. Results Chain



- | | | | | |
|---|---|--|---|---|
| <ul style="list-style-type: none"> • Loan Proceeds • GOP Counterpart • Human Resources | <ul style="list-style-type: none"> • Implementation of NIA Rationalization Plan • Capability building of NIA staff • Rehabilitation of 58 NIS • Procurement of Equipment • Capability building of IAs • Implementation of Irrigation Mgt Transfer | <ul style="list-style-type: none"> • PS savings generated • Rationalized NIA • Rehabilitated 58 NIS • Improved Infrastructure • Enhanced capability of IAs in NIS O&M | <ul style="list-style-type: none"> • National Irrigation Mgt. Fund (NIMF) Established • Increased irrigated area • Improved service delivery • Increased collection of IS Fee • Increased farmers participation in O&M of the system | <ul style="list-style-type: none"> • Financially viable NIA • 58 Sustainable NIS • Rice sufficiency of covered areas |
|---|---|--|---|---|

3. Primary Research Questions

- ❑ *Does the rehabilitation of irrigation infrastructure improve the functionality of the national irrigation system (NIS)?*
- ❑ *Does the irrigation management transfer of the NIS to the IAs improve the functionality of the NIS?*

4. Outcome Indicators

- ❑ Increase in irrigated area planted to rice by 43,829 hectares for wet season and 37,448 hectares for dry season at the end of the cropping season of 2013
- ❑ 75% of IAs are fully developed / capacitated to assume the Operations and Maintenance responsibility of the NIS
- ❑ Percentage of the farmers having sufficient irrigation water during the last 2 cropping seasons (wet and dry)
- ❑ Percentage increase in Irrigation Service Fee (ISF) collection efficiency at the level of NIS
- ❑ Percentage of fully functional NIS after rehabilitation
- ❑ **Percentage increase in cropping intensity**

5. Identification Strategy/Method

- Treatment: 58 NIS (i.e. 30% of 205 NIS)
 - Core A: 14 NIS for major rehab (no maintenance for 8-10 yrs)
 - Core B: 44 NIS for minor works (recently completed)

- Treatment Group: Core A

- Control Group: 14 out of the 147 NIS not selected
 - ✓ same type of system (Gravity type)
 - ✓ within the same region
 - ✓ similar quality/functionality
 - ✓ have good water source

- Method: Prospective Project; Baseline information can be established
 - Measure impact at farm level using Difference in Difference

6. Sample and data

- For each NIS in the treatment and control group stratified random sampling will be used.
 - members of IAs
 - non-members of IAs

- Farm population per NIS - approx 3,000 farms

- Farm Level Survey: Baseline, Follow-up, Ex-post

7. Time Frame/Work Plan

Activity	2009	2010	2011	2012	2013	2014
1. Baseline						
2. Midterm						
3. Terminal						

8. Sources of Financing

- ▣ US\$ 230,000 available under the Project Document
- ▣ Will source additional grant (say from SIEF, PHRD, WB, etc.)