

Postharvest Situation

Vietnam is a country in transition towards a quality oriented export industry but its rice postharvest sector is still characterized by high postharvest losses. These are caused by delays in operations due to labor shortage, limited mechanization of harvesting and drying, poor storage facilities and a highly fragmented marketing sector. Farmers' participation in the value chain is minimal and therefore their incomes from rice are low. Improved postharvest technologies are available but they don't reach the end users easily.

Goal

- Improve farmers' incomes through better postharvest management and better marketing of their rice.
- Contribute to global food security by reducing losses along the postharvest chain.

Building on Previous Experiences

The project builds on the experiences of previous and ongoing collaborative postharvest projects such as the Postproduction Workgroup of the Irrigated Rice Research Consortium (IRRC) for adapting and evaluating new technologies; the ADB-JFPR 9036: "Improving Poor Farmers' Livelihood Through Improved Post Harvest Management for technology verification in pilot villages; and the IRRC – An Giang outreach program for scaling out of technologies.

Milestones of Previous Collaboration

- Optimization of dryer components and adaptive research on an improved rice husk furnace (2004-08).
- Capacity building on laser leveling, adaptation to local tractors, demonstrations and pilot testing (2004-08).
- Piloting postharvest technologies in 2 villages each in Nam Dinh and in Long An Provinces (2005-08).
- Participatory Impact Pathway Analysis (PIPA) for Vietnam (April 2009).
- Initiating a national Learning Alliance (April 2009).
- Regional PIPAs in 5 regions (August 2009).

Project Regions (R) and Major Partnerships

The activities are coordinated by Nong Lam University. Five postharvest institutions led the implementation in five regions of Vietnam considering the diversity of rice production and postharvest systems in the different parts of the country.

R	Location	Lead Institutions*
1	Red River Delta and Thanh Hoa Province	VIAEP, HAU
2	From Nghe An to Binh Dinh Province	HUAF
3	From Phu Yen to Southeastern Provinces and Gia Lai and DakLak	NLU
4	Provinces of the Mekong Delta north of Hau-Giang River	SIAEP
5	Provinces of the Mekong Delta south of Hau-Giang River	CTU

* For abbreviations see back page

For more information:

PPWG at IRRI: [Martin Gummert \(m.gummert@cgiar.org\)](mailto:m.gummert@cgiar.org);
 In Vietnam: [Dr. Nguyen Le Hung \(lehungn@gmail.com\)](mailto:lehungn@gmail.com)
 IRRC Coordinator: [Grant Singleton \(g.singleton@cgiar.org\)](mailto:g.singleton@cgiar.org)
 Rice Knowledge Bank: www.knowledgebank.irri.org

Key Project Components

Technology Options

New technologies like **hermetic storage** and **laser leveling** have been verified with first adopter users in Vietnam. Others, like **flat bed dryers** and **combine harvesters** have been developed in Vietnam and are already being used by many farmers and contractors. Based on the identified needs, some of these technologies are applied either individually or in combination



Cutting cost



Minimizing losses



Storing safely

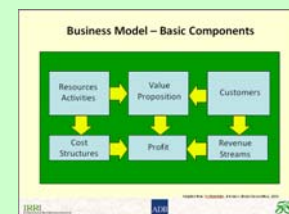
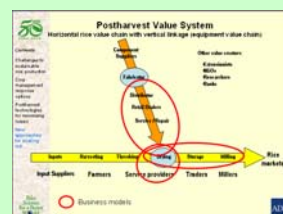
Facilitating a Multi-stakeholder Platform

The Learning Alliance concept is used to facilitate a multi-stakeholder platform to identify, share and adapt good practices (exchange experiences, learn and improve). The Postharvest Learning Alliance includes key postharvest stakeholders from the public and private sectors.



Business Model Development

To speed up the of postharvest technologies business models are being developed for users of postharvest technologies. This includes models for use of a component technology like laser leveling and integrated models that combine technologies e.g. drying and storage.



Working along the value chain... with suitable business models

Ongoing activities

- Identification of successful business models as demonstration sites.
- Development and piloting of business models for postharvest technologies.
- Capacity building for farmer intermediaries.
- Adaptive research to adapt PH technologies to local conditions.

Priority for 2011

- Pilot testing of business models.
- Capacity building at pilot sites.
- Continue technology adaptation and pilot testing.
- Facilitate Learning Alliance meetings



ADB – IRRI Postharvest Project
 Addressing the Pre- and Postharvest Challenges of the Rice Supply Chain



Schweizerische Eidgenossenschaft
 Confédération suisse
 Confederazione Svizzera
 Confederaziun svizra
 Swiss Agency for Development and Cooperation SDC

Abbreviations:

CTU	Can Tho University
HAU	Hanoi Agricultural University
HUAF	Hue University of Agriculture and Forestry
NLU	Nong Lam University, Ho Chi Minh City
SIAEP	Southern Institute for Agricultural Engineering and Postharvest Technology
VIAEP	Vietnam Institute for Agricultural Engineering and Postharvest Technology