











With technical assistance from the FAO Regional Office for Asia and the Pacific



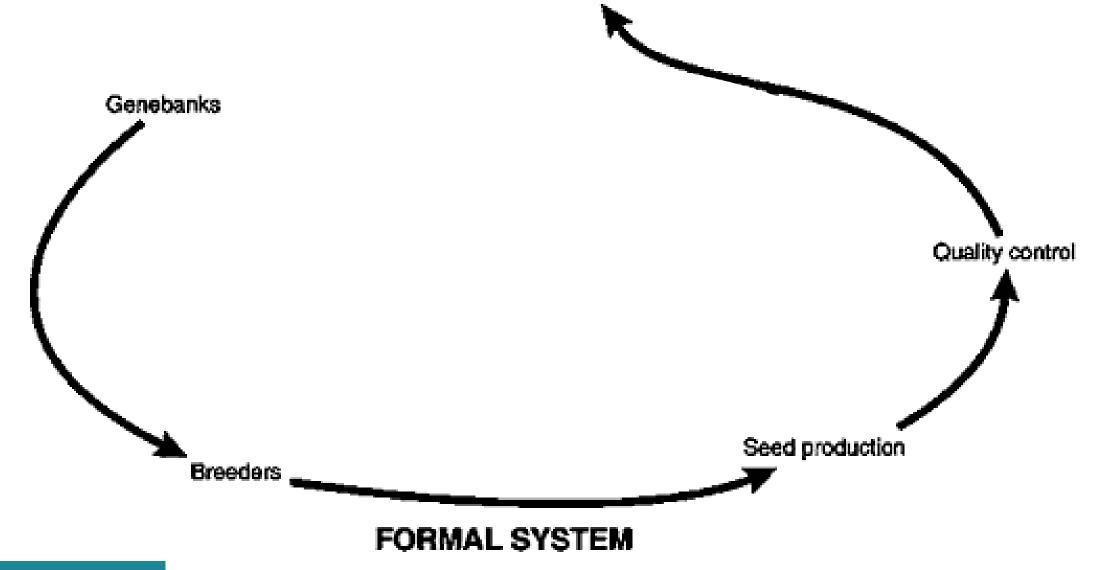
Bridging the Gap Between Formal and Informal Seed Systems through Community Seed Banks in Asia

Patrick Trail, Kyleah Kirby, & Boonsong Thansrithong

ECHO Asia Impact Center Chiang Mai, Thailand



Seed Systems



Source: Almekinders and Louwaars, 1999

A Network of Community Seed Banks in Asia

& Training Center





A Network of Community

Seed Banks in Asia



A Network of Community



Community Seed Banks: Formal or Informal?



FEATURE	FORMAL SEED SYSTEM	INFORMAL SEED SYSTEM			
Certification	Certified	Not certified			
Seed production	Separate from crop production	Integral part of crop production			
Variety release	Formal	Informal/not applicable			
Exchange through	Officially recognized seed outlets, agro-dealers	Local markets, petty traders, social networks, own production			
Main crop types	Hybrids, high-value horticultural crops	Self-pollinating crops and other crops reproduced by farmers' themselves			
Source: Sperling et al. (2008), Louwaars and De Boef (2012).					

Regional Community Seed Bank Managers Forum





Community Seed Banks Assessment

- ☐ Sent to Managers of 12 Community Seed Banks in 8 countries
- Questionnaire with sections related to Organizational
 Management, Seed Diversity, and Storage Infrastructure/Practices

Community Seed Banks Assessment

Table 1. Organizational overview of nine Community Seed Bank Community Seed Banks.

Seed Bank	Location	Years in Operation	-	Primary Funding Source
Baan Na Thung Kula	Thailand	10	No	Sale of Seed
Bos Knor	Cambodia	10	Yes	Governmen Grants
Doku	Malaysia	5	No	Self-Support
		10		
Kahelu Center	Myanmar	1	Yes	Donor Funde
Ntuk Nti	Cambodia	5	Yes	Donor Funde
Phattalung	Thailand	4	No	Sale of seed
Sanam Chai Khet	Thailand	7	No	Sale of Seed
SEED Project	Philippines	4	Yes	

Table 2. Number, variety, and propagation method of nine Community Seed Banks with the ECHO Asia Network of Community Seed Banks.

Seed Bank	Varieties	Varieties	Source of	Storage	Seeds of Highest
	Stored	Distributed	Seed	Method(s)	Demand
Baan Na <u>Thung</u> Kula	100	65	†GOBM	Plastic Bottles in the Refrigerator	Roselle; Okra; Pumpkin; Yard Long Bean; Bush Bean
Bos Knor	323	26	††ROS	Airtight plastic bottles, Vacuum Sealed Bags	Sunnhemp; Sorghum; Stylosanthes; Centrocema; Millet
Doku	50	30	ROS; ¤Trd: ^β Dntd	Airtight Containers in the Freezer	-
ECHO Asia	850	175	ROS; Trd: Dntd	Vacuum Sealed Bags in Insulated Cold Storage Room	Cover Crops; Eggplant; Tomato; Legumes
Kahelu Center	50	10	ROS; <u>Dntd</u>	Vacuum Sealed with Bicycle Pump in Glass Jars	Eggplant; Tomato; Chili
Ntuk Nti	<50	10	ROS; Trd: Dutd	Glass jars inside of an earthbag room	Cucumber; Eggplant; Winged Bean; Papaya
Phattalung	55	55	GOBM	Plastic Bottles in the Refrigerator	Chili; Eggplant; Lablab Bean; Kale; Yard Long Bean
Sanam Chai Khet	100	50	ROS; Trd: Dntd	Plastic Bags in the Refrigerator	Okra; Winged bean; Yard Long bean
SEED Project	80	45	ROS; Trd: Dutd	Plastic Bas Inside of an Insulated Storage Room	Corn: rice; herbs

†GOBM - Grown Out By Members; ††ROS - Reproduc On-Site; aTrd - Traded; Dntd - Donated

Needs Assessment with CSB Managers

STRENGTHS

Local Wisdom of Staff
Local Storage Technology/Ideas
Support from NGO's & Organizations
Offer Agricultural Training to Customers

WEAKNESSES

Lack of Government Seed Policy
No Storage/Inventory Tracking System
Funding

SWOT

OPPORTUNITIES

Enter Organic Value Chain

Farmer Crop Improvement/Selection

Advocacy

Social Media Promotion

Income/Profit

THREATS

Multinational Companies
Seed Biodiversity Loss
Hybrid Seeds
Seed Laws and Regulations
Natural Disasters



How Does This Relate to Agroecology?

- Preservation (and Improvement) of Crop Biodiversity
- Planting/Planning Options for Crop Rotation
- ☐ Local Access → Resiliency during times of crisis
- Community Empowerment

Patrick Trail ptrail@echocommunity.org

Visit us at the ECHO Asia Small Farm Resource Center & Seed Bank

Thank You!

Visit our website and online repository of technical resources at www.echocommunity.org

