

Community Seed Selection and improvement of local varieties



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Seed Bank Workshop, 21 Jan 2014,
ECHO Chiang mai

Outline of presentation

- Factors contribute to Community seed selection, improvement and exchange.
- Seed Supply System
- In-situ conservation and development in Nan Province
- Seed exchange mechanism

Factors contribute to Community seed selection, improvement and exchange

- Massive promotion and adoption of modern crop varieties, especially through government programs
- Industrial agriculture
- Conversion of agricultural lands to non-agricultural purposes
- Population pressure
- Environmental changes / Climate change
- Changes in dietary preferences and consumption patterns
- Corporate control of seeds and agricultural inputs

Seed supply system

Elements	Traditional	Participatory/ collaborative	Formal (Public)	Corporate
Main actors	Farmers & indigenous communities	Farmers + institutions/ organizations	State/Public institutions	Seed companies
Genetic resources	Traditional/ indigenous varieties (landraces)	Farmer developed varieties	Scientist-developed varieties (modern varieties)	Corporate-developed
Methods	Farmer selection	Local selection and breeding	Conventional breeding, hybrid seeds and biotechnology	Conventional breeding, hybrid seeds and biotechnology
Access & control	Open/ free access	Open/free and facilitated access	Centralized and regulated by legislation	Monopolistic & IPR-based

Seed supply system (2)

Elements	Formal system	Farmer system
Seed flow/ materials/ methodology	Research institutions, extension agents, modern, bio-technology	Farmer-to-farmer, farmer-developed, conventional breeding/ selection
Actors/ role	Scientists, treat farmer as end-user of their product	Farmers, contribute to diversity
Adaptability	Wide adaptability	Location specific
Ownership	Breeders' rights	Open and free
Resources	Expensive, laboratory	Less costs

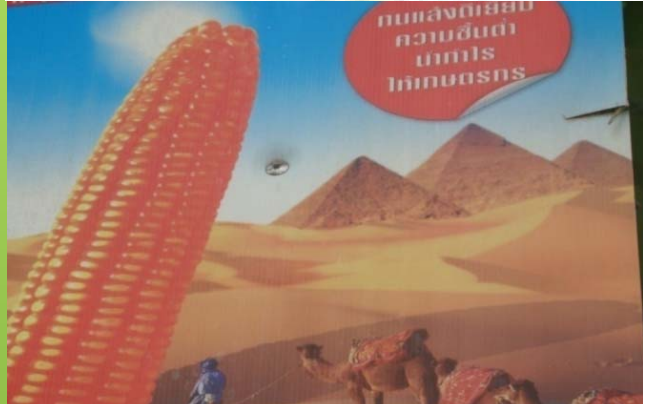
IN-SITU Conservation and Development In Nan Province



Seed Bank Workshop.



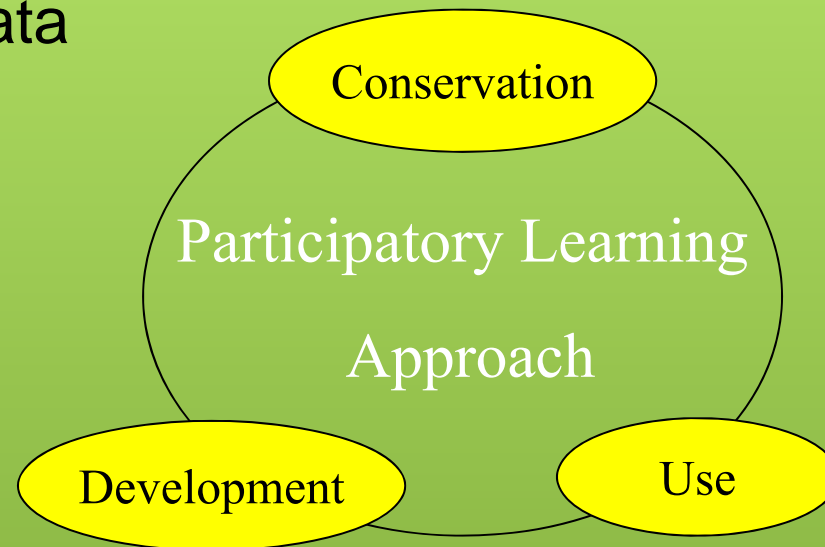
Time to
save
own
seeds!!!



Participatory Approach

Baseline data

Seed package and
seed Storage



Group
establishment

Seed Selection and
improvement
technique

Typology of Community Seed Bank in Nan province

1. Individual farmer
2. Farmer Field School
3. Community Learning Center

1. Individule farmer

1. Rice Breeding
2. Rice varieties selection
3. Rice Seed production



1. Individule farmer (2)

1. Vegetable Breeding
2. Seed Management



2. Farmer Field School on rice selection and improvement

1. Rice Breeding
2. Rice varieties selection



2. Farmer Field School on Vegetable selection and improvement

Baseline data
Group Formation
Curriculum development



Seed Exchange Mechanism

