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PRIPODE

## Background

- High poverty in rural areas
- Transition from subsistence to market economy
- Regional trade and development





## Study Site: Sing district

Elevation: 600-1,850 m asl.

Total area: 1,650 km<sup>2</sup>

5 Sub-districts

94 Villages

Population: 30,300

Ethnicity:

47 % Akha, 41% Tai



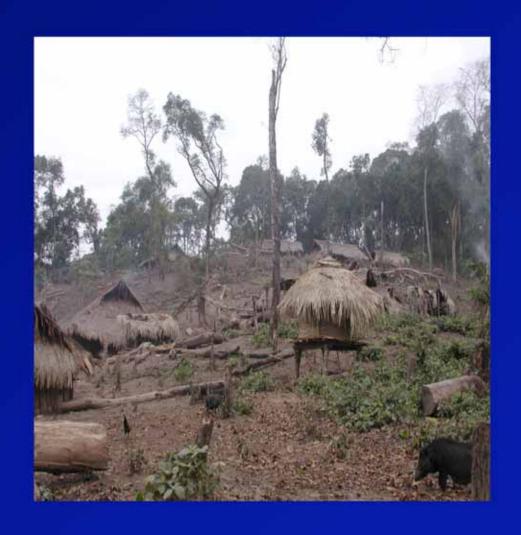
## Key issues

- Demographic and land use change
- Cash crop production and land use change
- Land tenure and social equity



## Objective of the study

- Patterns of demographic and land use change
- Driving forces of land use change
- Impact on livelihood and resource tenure



### Research questions

What is the historical pattern of land use change in Sing district? What are the main causes?

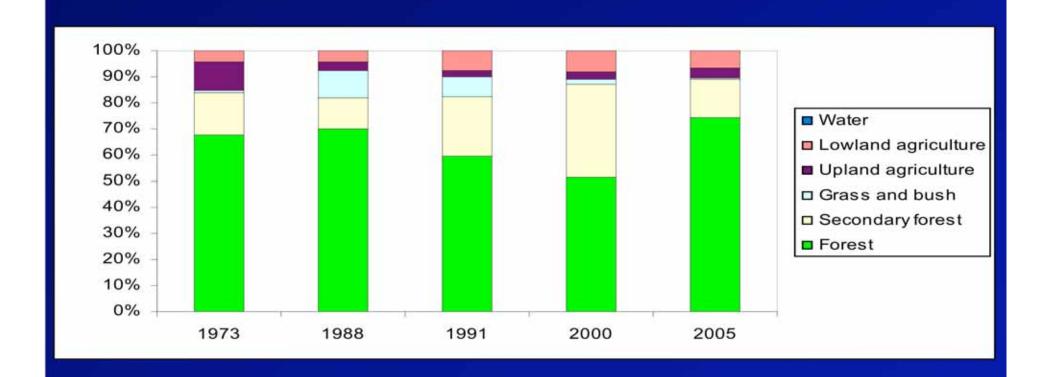
How does introduction of cash crops change livelihoods of farmers? What are the implication for resource management?

#### Methods

- Spatial analysis
  - Demographic change
  - Forest cover change
- Policy review
- Village land use history
- Household survey
- Paticipatory mapping

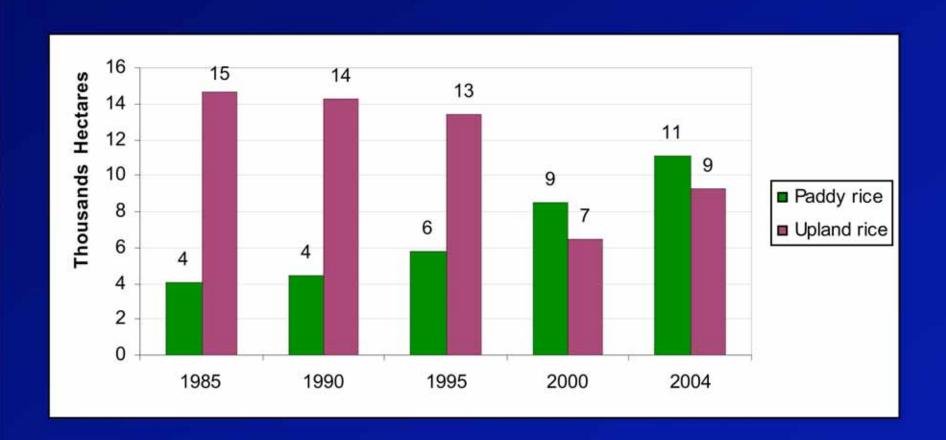


## Landuse and land cover change



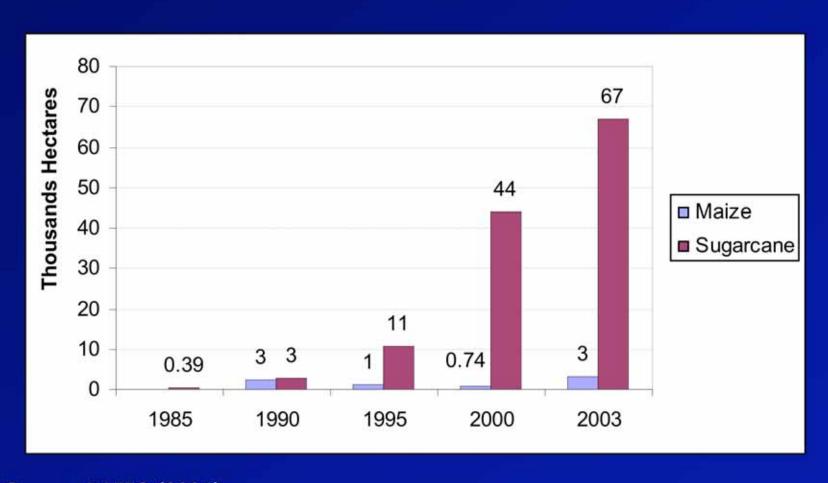
Source: based on Landsat images classification

## Rice production area



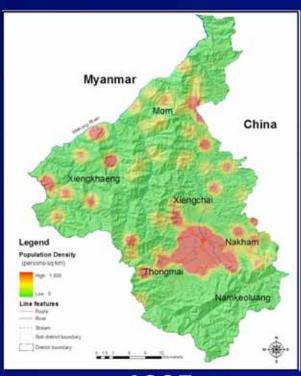
Source: DAFEO (2004)

### Cash crop production area

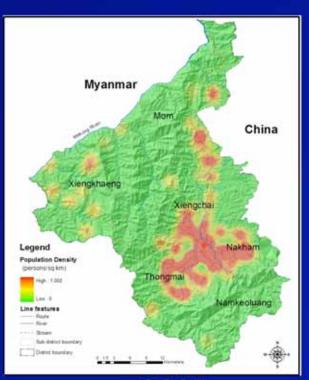


Source: DAFEO (2004)

#### Demographic change: 1995-2005



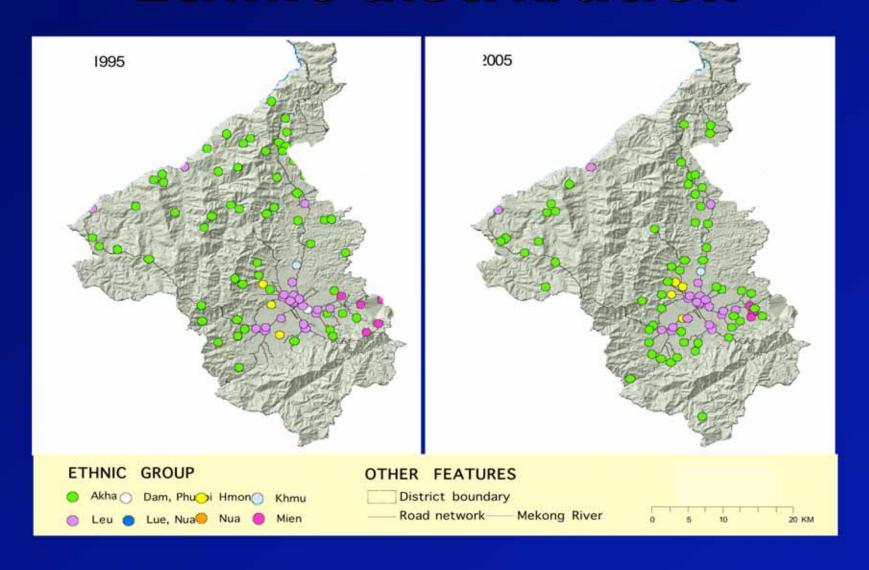




1995 2001 2005

Source: based on population census and district population data

#### **Ethnic distribution**

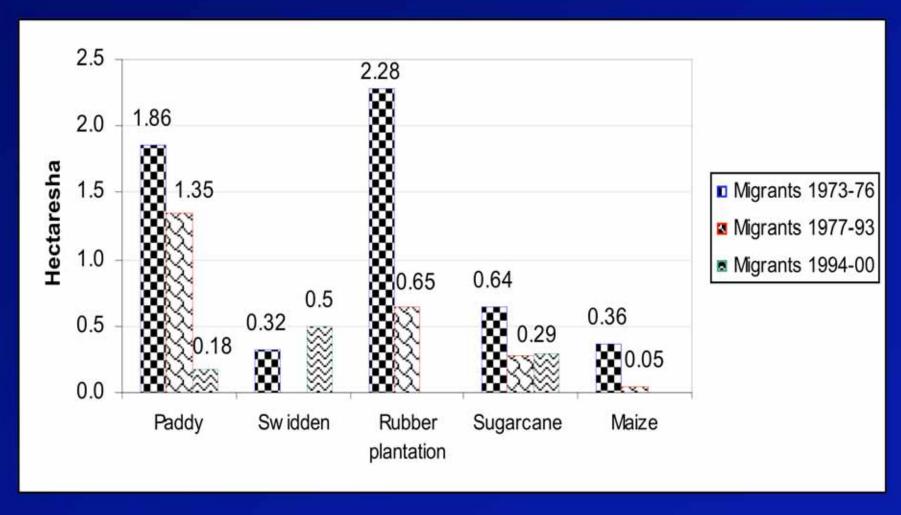


Source: NGD and field survey

## **Policy Changes**

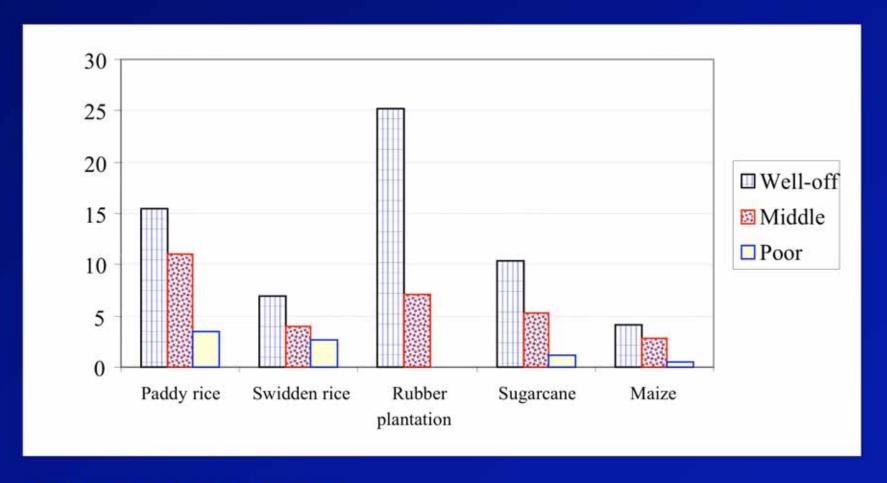
Periods	Social Economy	Resource Management
1980s	Market liberalization	<ul><li>Logging ban</li><li>Food self-sufficiency</li></ul>
1990s	Focal site development	<ul><li>Shifting cultivation stabilization</li><li>Land and forest allocation</li></ul>
2000s	<ul><li>Regional trade</li><li>Poverty alleviation</li><li>Foreign investment</li></ul>	<ul><li>Commercial agricultural/forestry production</li><li>Opium eradication</li></ul>

#### Land Holding in Mom village



Source: Fieldwork (2005)

## Land holding by social class (%)



Source: Fieldwork (2005)

#### Conclusion

- Population concentration in the lowland areas increase land scarcity and competition over land
- Government policies affect upland livelihoods
- Regional trade accelerates cash crop production
- Increased vulnerability of upland farmers
- Increased privatization of land
- Inequitable access to land

#### Recommendation

- Balance economic growth and natural resource conservation
- Promote integrated farming system
- Screen foreign investment arrangements

#### Recommendation

- Ensure local participation in land use planning process
- Consider demographic factors in land use planning
- Strengthen local agencies' capacity to coordinate in resolving conflicts

# Thank you for your kind attention!