



**Ministry of Agriculture and Forestry**  
**Department of Agriculture**



**Key Challenges and Experiences on Farm-saved seeds**  
**in Lao PDR**

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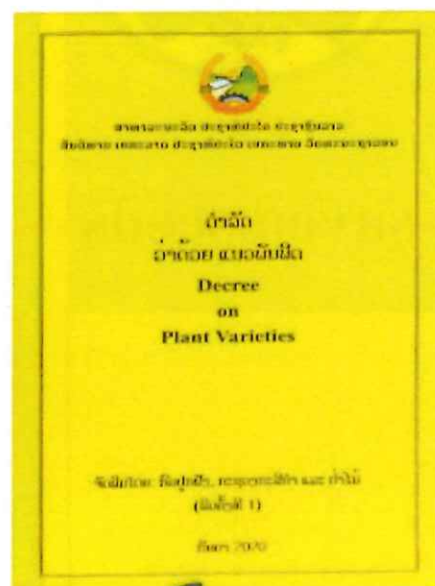
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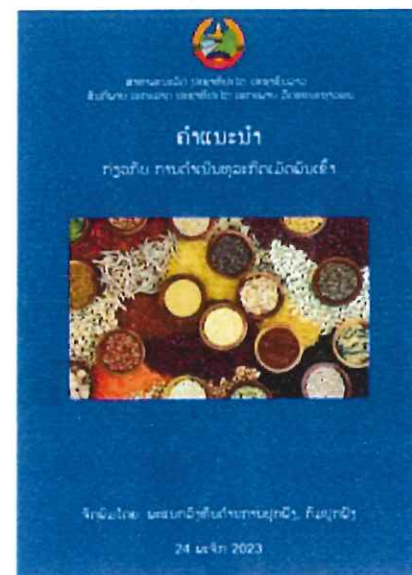
# Decree and Regulation related to the management of Seed and Seedling Production



Decree on Plant Varieties



Guidelines on the issuance of rice seed quality certificates

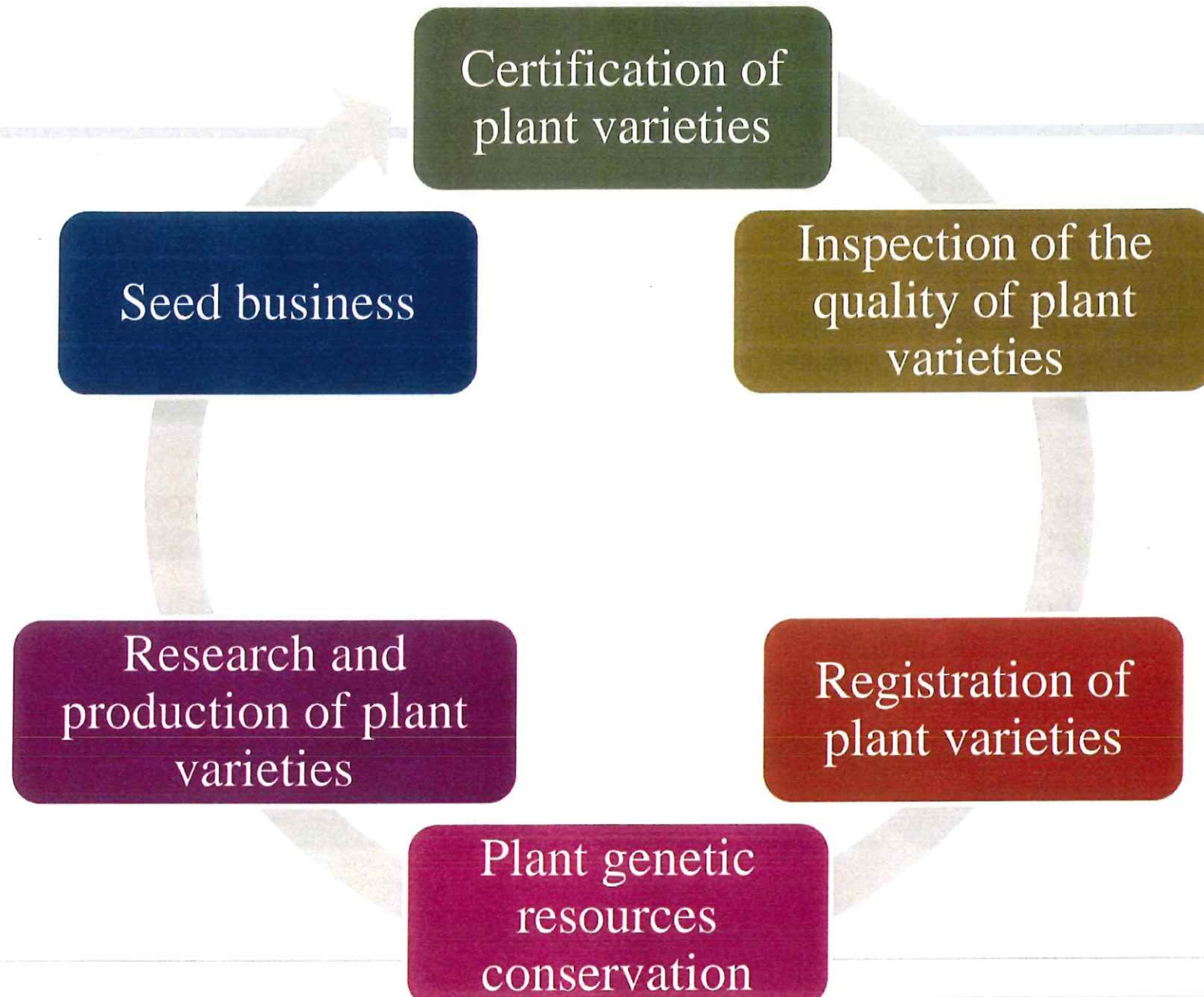


Guidelines on Seed Businesses



Manual on Rice Seed Quality Inspection

# Plant variety management



# Agricultural and forestry biodiversity research

Preserved samples of rice and other plant seeds including a total of 18,000 samples in the center's gene bank database.



Collaborate with the international community to collect 300 more seed samples and register them in the center's gene bank.



Planting 3,000 samples of rice, cotton, beans, corn and other crops.



Study the characteristics of traditional rice and other plants with a total of 4,200 samples.



Distribute 1,000 samples of plant germplasm to international research organizations.



Bringing 700 samples of rice germplasm to study.



# Research and development of plant varieties and Registration of plant varieties

Research has identified 5 new varieties of sticky rice.

Issue new varieties to the station center  
that depends on the institution 3 varieties.

Help farmers produce 12 varieties.

Registered of promotion plant varieties 29 varieties.

# Seed Distribution

Research Institution



Extension Companies  
Or NGO organization  
Or Farmer Group



**Individual Farmer**

Import Country



Extension Companies  
Or Retailer shop



**Individual Farmer**

# Seed Distribution system

Seed distribution System	Type of seeds /planting materials supplied
Informal	Rice, both traditional and improved varieties  Local/traditional varieties of corn, vegetables, legumes and other major crops (jobs tear, paper, mulberry)  Plantation Crops: Banana & Papaya
Formal	Improved varieties of rice  With government project: seed distribution for field trial
Company-based	Vegetable seeds: cucumber, long bean, chili, Chinese mustard, mushroom etc.  Other crops such as corn/maize, peanut, morning glory, jobs' tear and papaya  Mostly improved/hybrid varieties

# Plan for breeding activities

## Responsible Agency:

### Breeder seed:

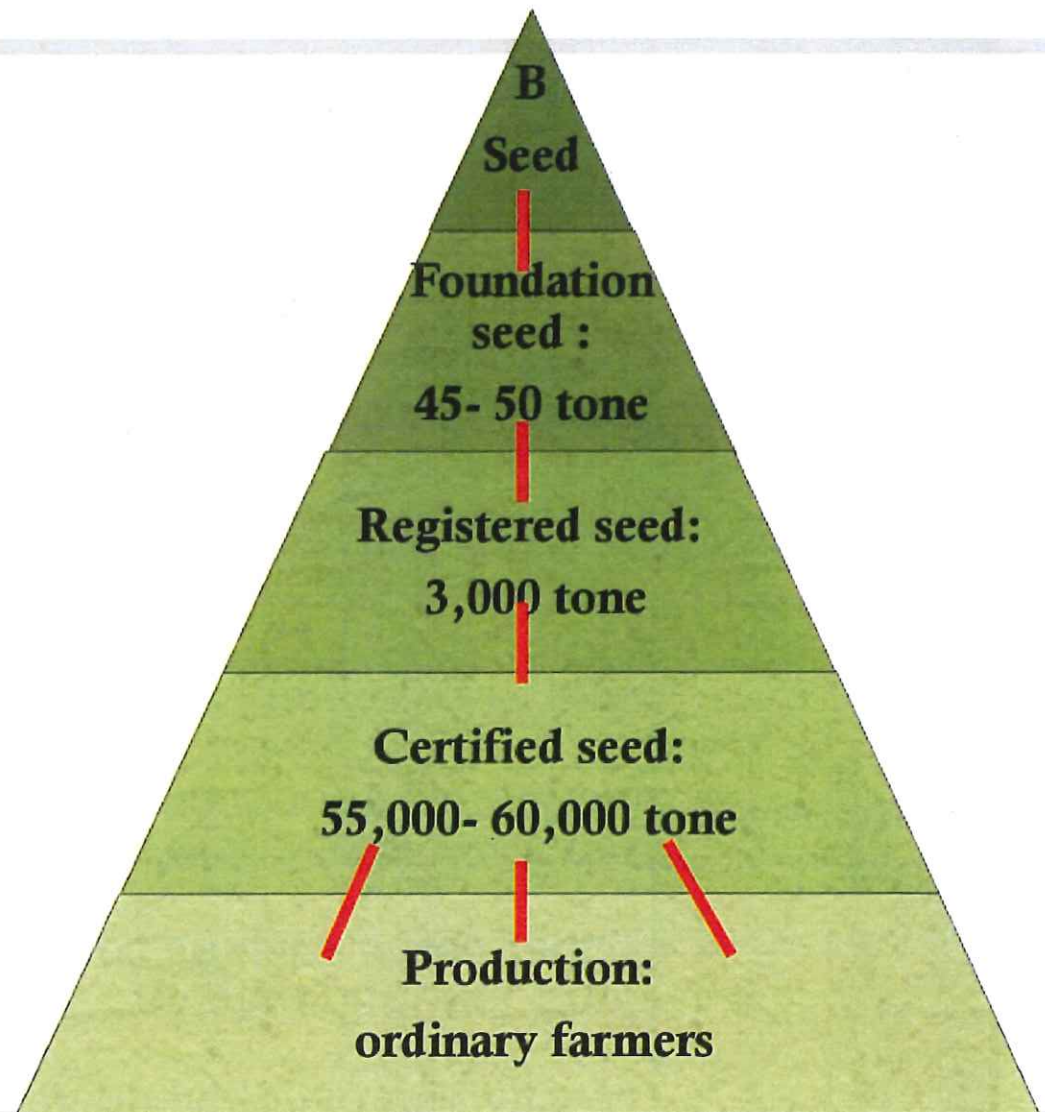
N-ARC; TSN-SMC; PNG - SMC; LNT -SMC.

### Foundation seed:

TSN - SMC; PNG - SMC; LNT-SMC; SNSs; PAFO and DAFO (on station and farmer in collaboration with farmers )

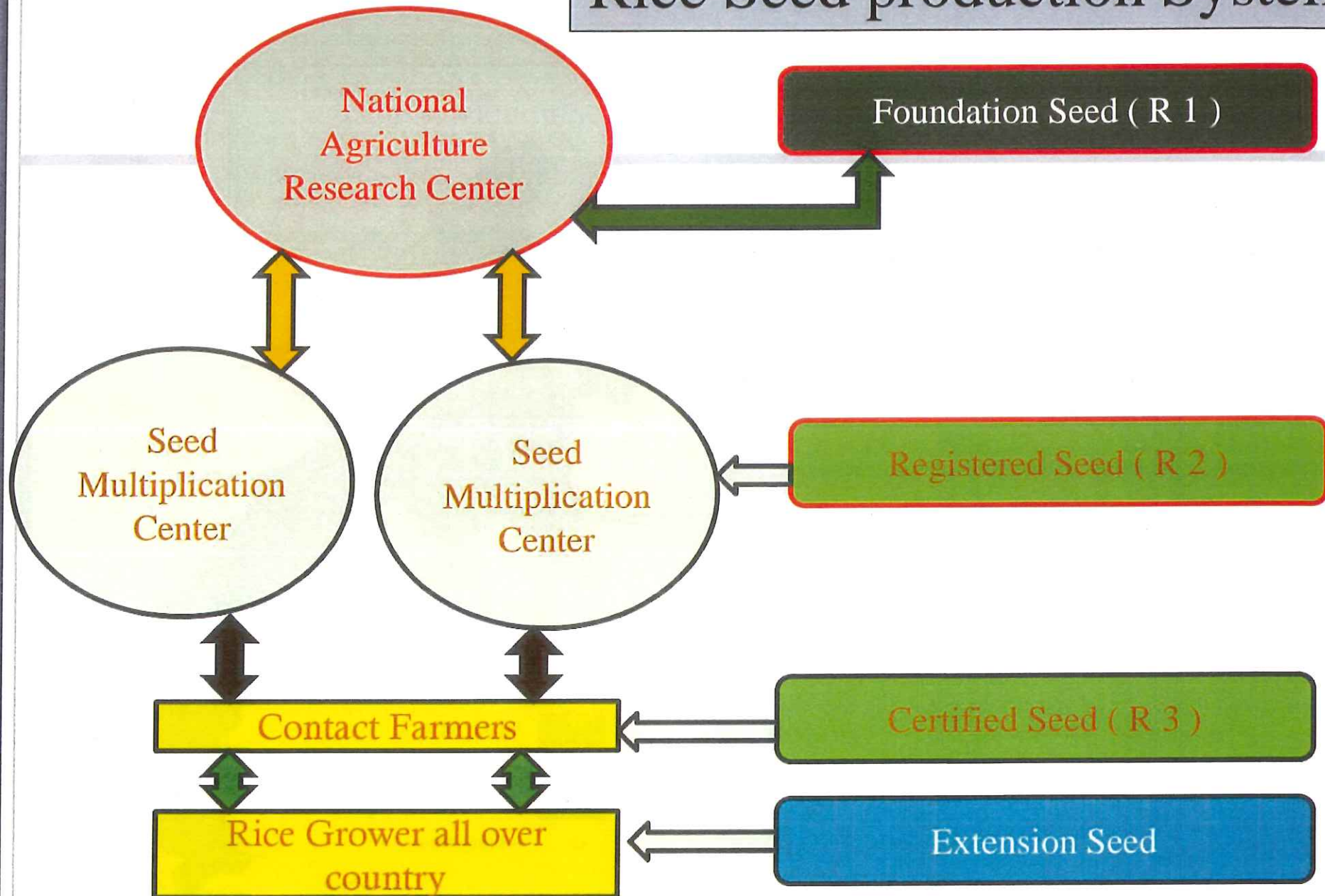
### Registered and certified seed:

TSN - SMC; PNG - SMC; LNT-SMC; SNSs; PAFO and DAFO (on station and farmer in collaboration with farmers )





# Rice Seed production System



# Research Center

- Northern Region

1. LNT-SMS
2. HK-SMS
3. NTN-SMS

- Central Region

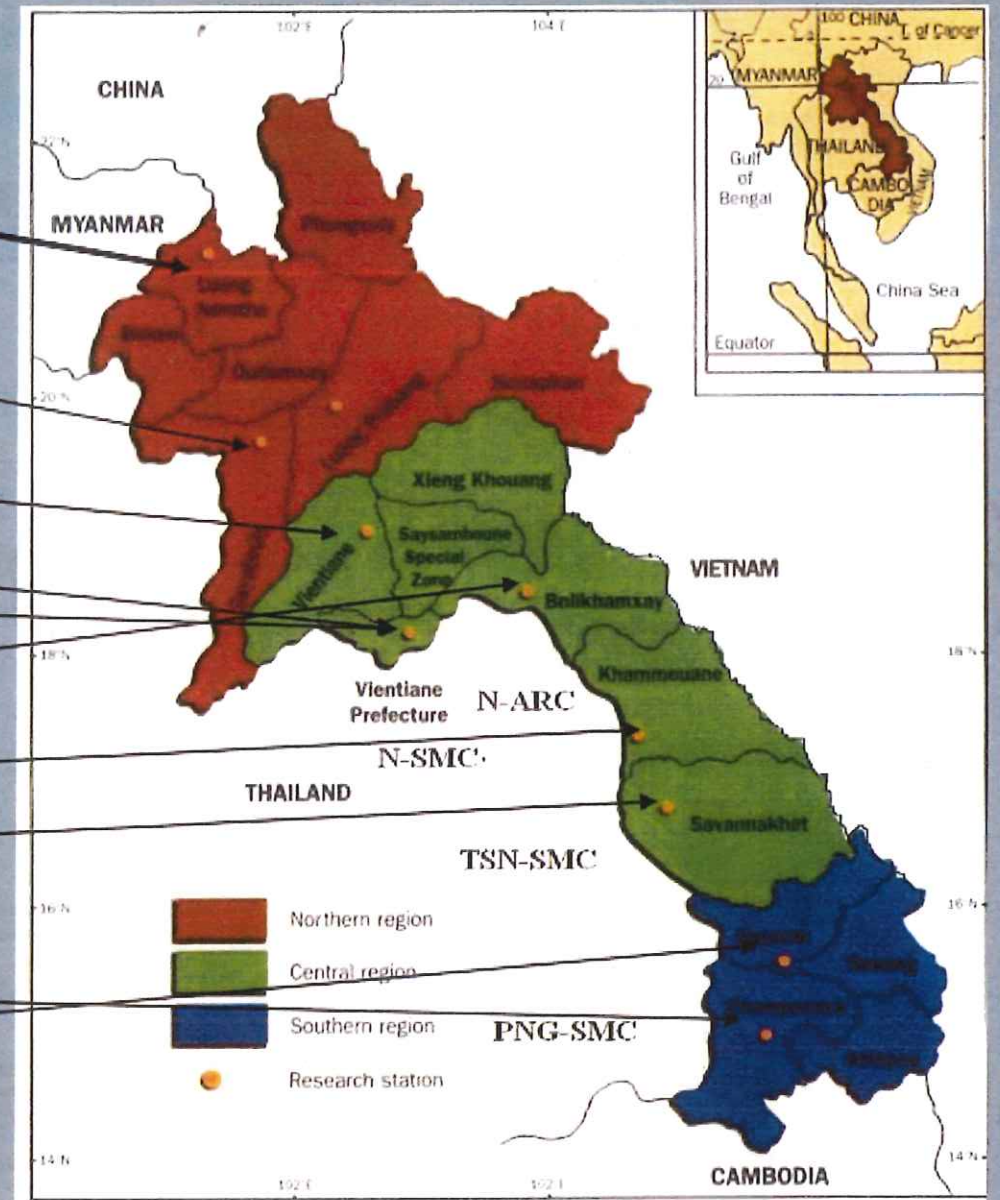
4. PC-SMS
5. N-SMS
6. **N-ARC**
7. NH-SMS

8. TK-SMS
9. VP-SMS

10. **TSN-SMS**

- Southern Region

11. PNG-SMS
12. ND-SMS



# Problem and Key Challenges

1

- Advertising to promote rice varieties as well as economic plant varieties and new techniques that have been researched is not widespread, so the use of new rice varieties and new techniques for production as goods for domestic use and export is still limited.

2

- Farmers who have access to the use of new varieties are still few, because there is still no national rice research plan that plays a role in determining the national rice research strategy to produce as a commodity, to produce for food security and to determine the areas where seeds are planted.

3

- There is no research program for rice and specific plant varieties, the research system is still not good because of the limited personnel and the limited budget and limited infrastructure and experimental equipment.

