

# The 3<sup>rd</sup> Regional Forum on Sustainable Agricultural Mechanization

9-11 December 2015  
Manila, The Philippines

Presented by:

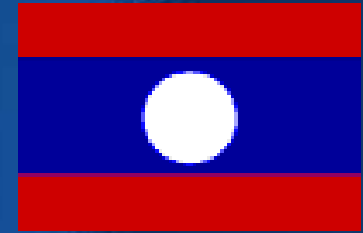
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# China

## Lao flag



## Lao logo



Myanmar

Vietnam

Thailand

Vientiane Capital city

Cambodia



Welcome  
to LAOS



# Presentation outline

- History of mechanization in Lao PDR
- Current situation of agricultural mechanization
- Strategy, policy and National programme/initiatives of human resources development of SAM
- The need assessment of human resources development of SAM
- Challenge and Constraints
- Solution and Suggestion for human resources development for SAM

# Historic information on agricultural mechanization

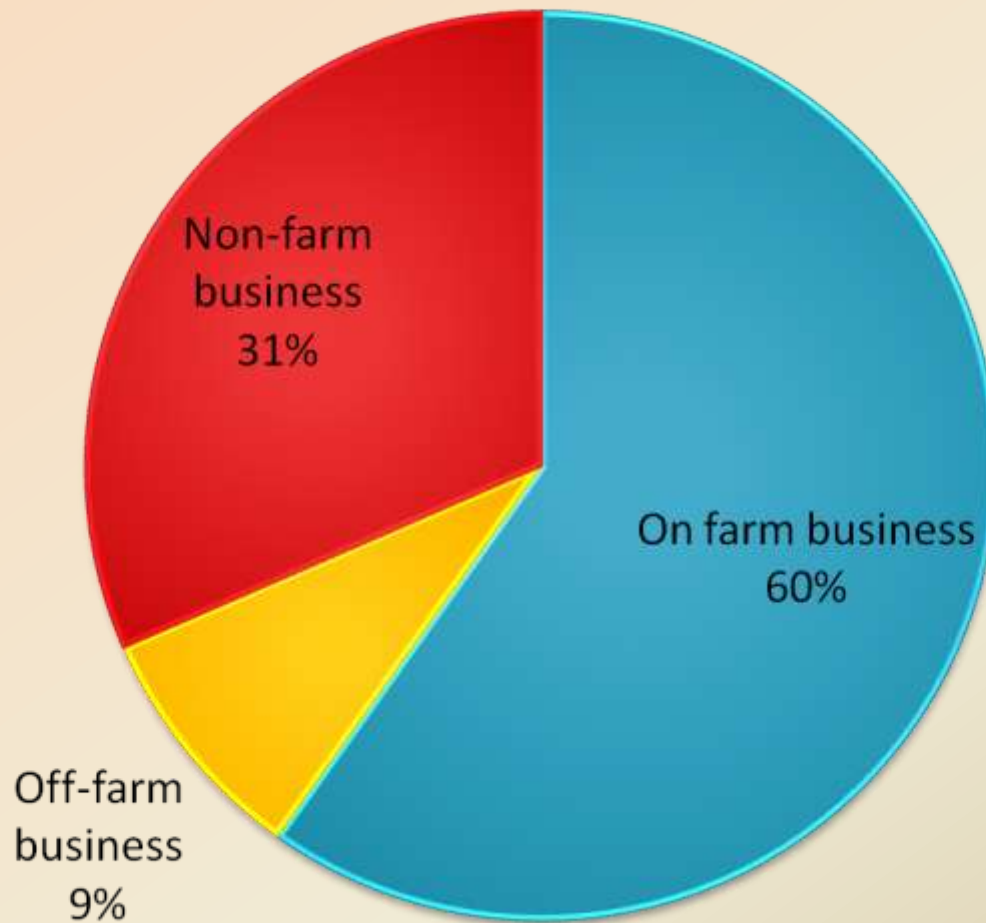
- The first period was marked to promote agricultural mechanization to farmer collective production. Until Year 1989
- In Year 2001, *Department of National Agricultural and Forestry Extension Service (NAFES)*
- Year 2012 Department of Agricultural Extension and Cooperatives (DAEC) under DAEC: *Division Agricultural Technique and Mechanization Promotion*

# General information on agriculture

# Rice Production

- Rain fed-rice area 700,000 hectares.
- Irrigated rice area is 126,000 hectares
- Paddy Rice Production in Year 2014 is accounting at 4 mill. Tones.

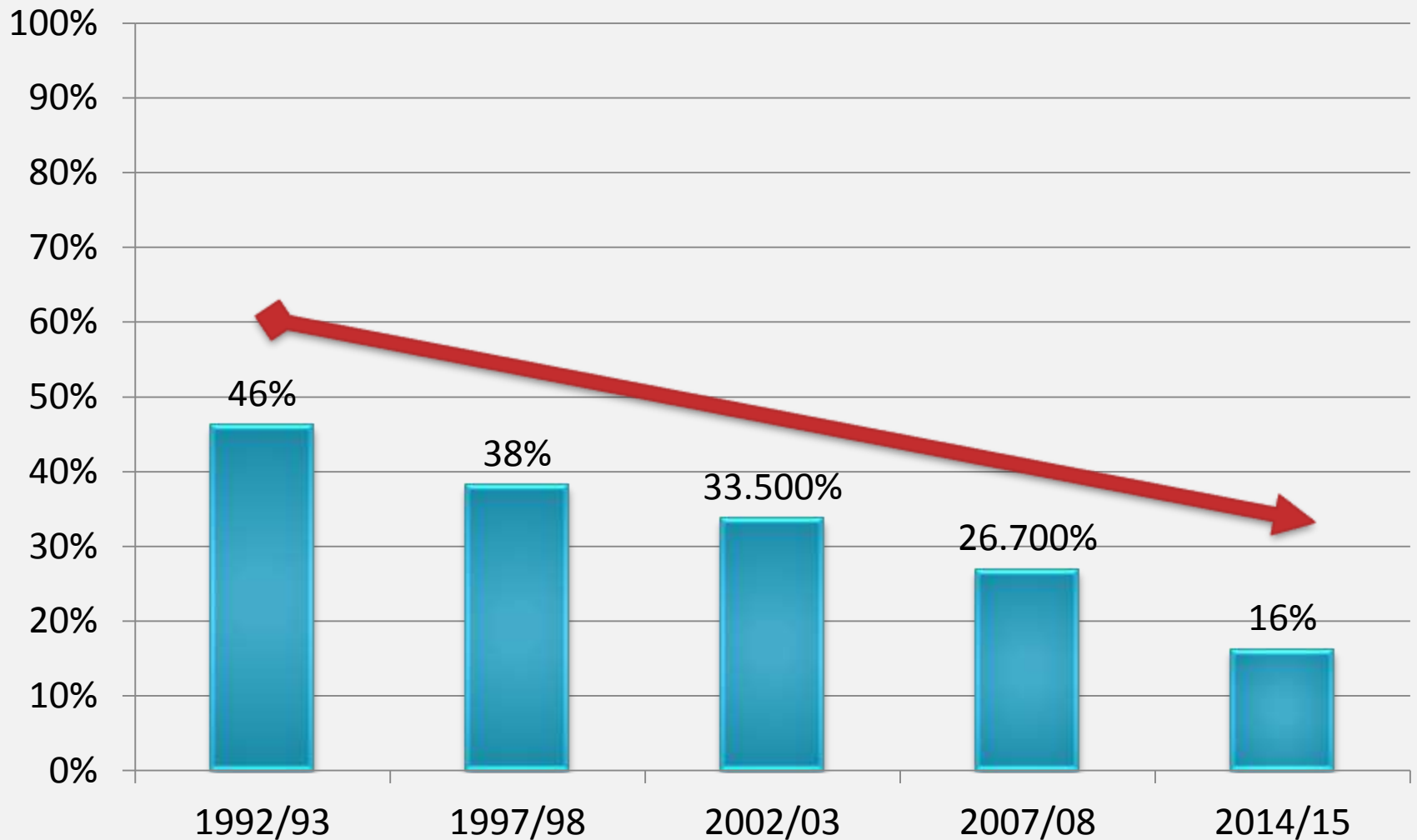
## Source of Farmer Income





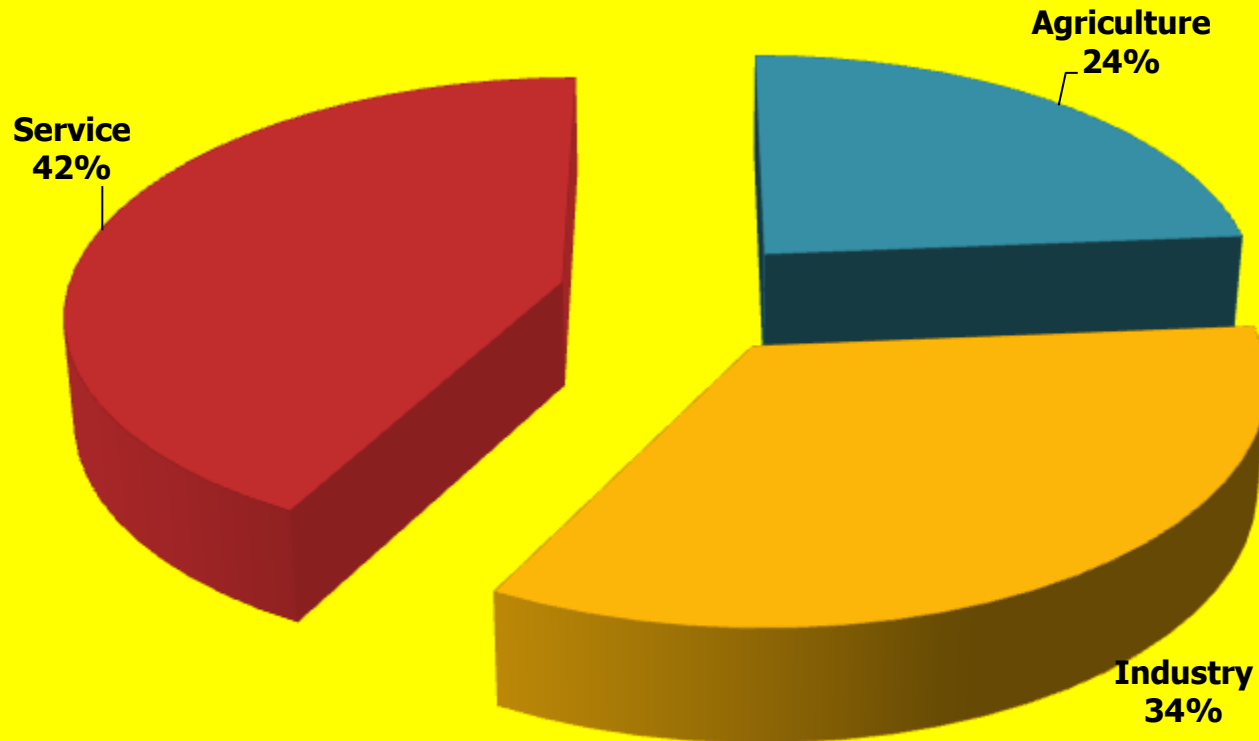
# Poverty reduction

## Country Poverty rate



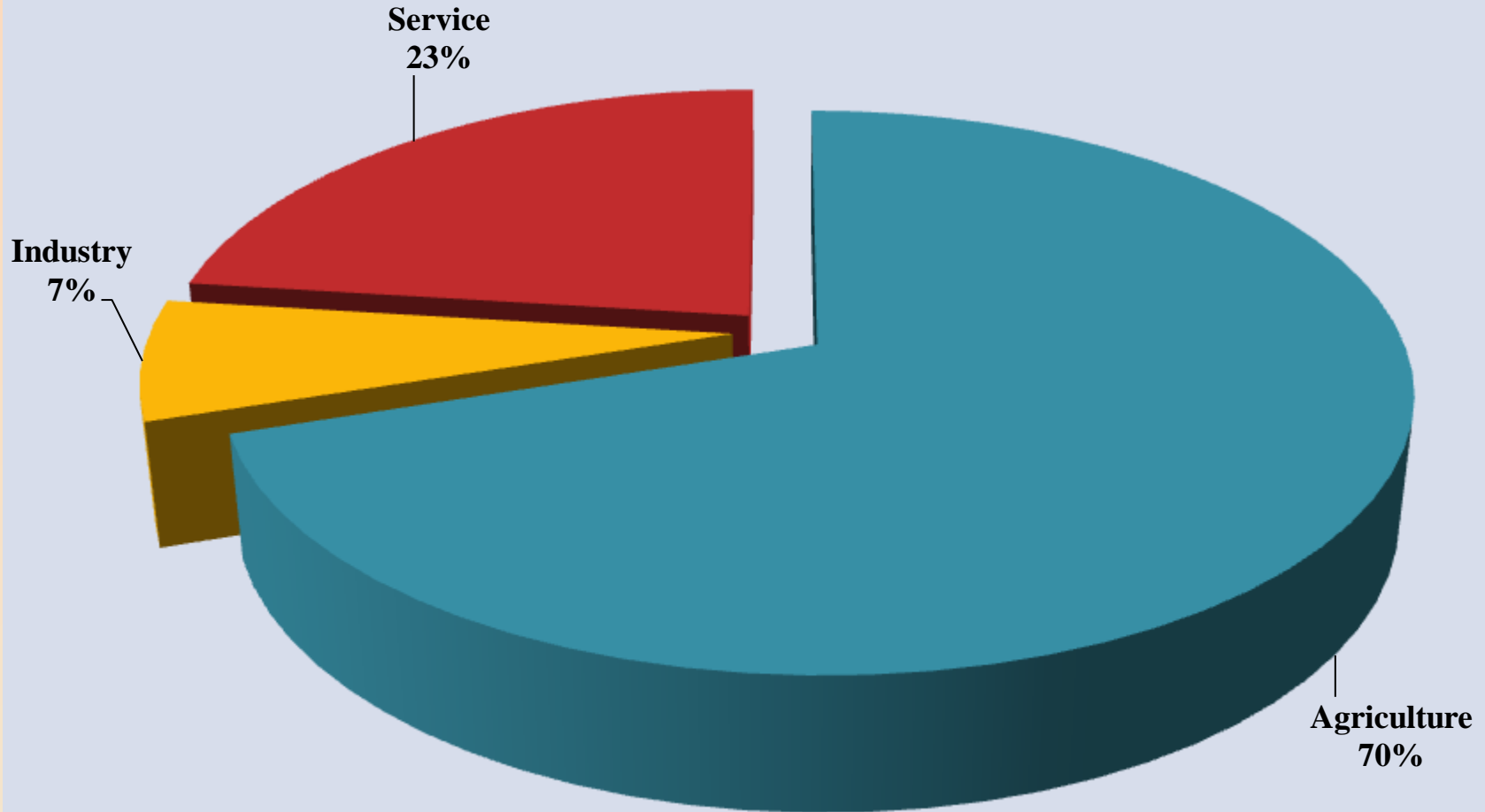
# GDP composition

Country GDP composition 2015



# Labour force composition

Country labour force by occupation



# Tractor Population



# From subsistence to modernization



## Cash crop for boosting rural income generation

Rice harvesting with 4.1 ml tones, 2014



Monoculture boom, e.g. cassava for tapioca



# Rice harvesting

**Combine harvester**



**Developed thresher**



# Land preparation for rice cultivation

**Power tiller**



**Rotor tractor**





# Demonstration on rice seed broadcasting with motorized equipment

**Broadcasting rice seedling**



**Motorized equipment**



# Farm machinery

Vegetable garden farm



Mechanization in Cattle farm



# Rice transplanting

Motorized equipment for rice seedling transplanting

Manual Rice seedling transplanter



# Rice seed transplanting

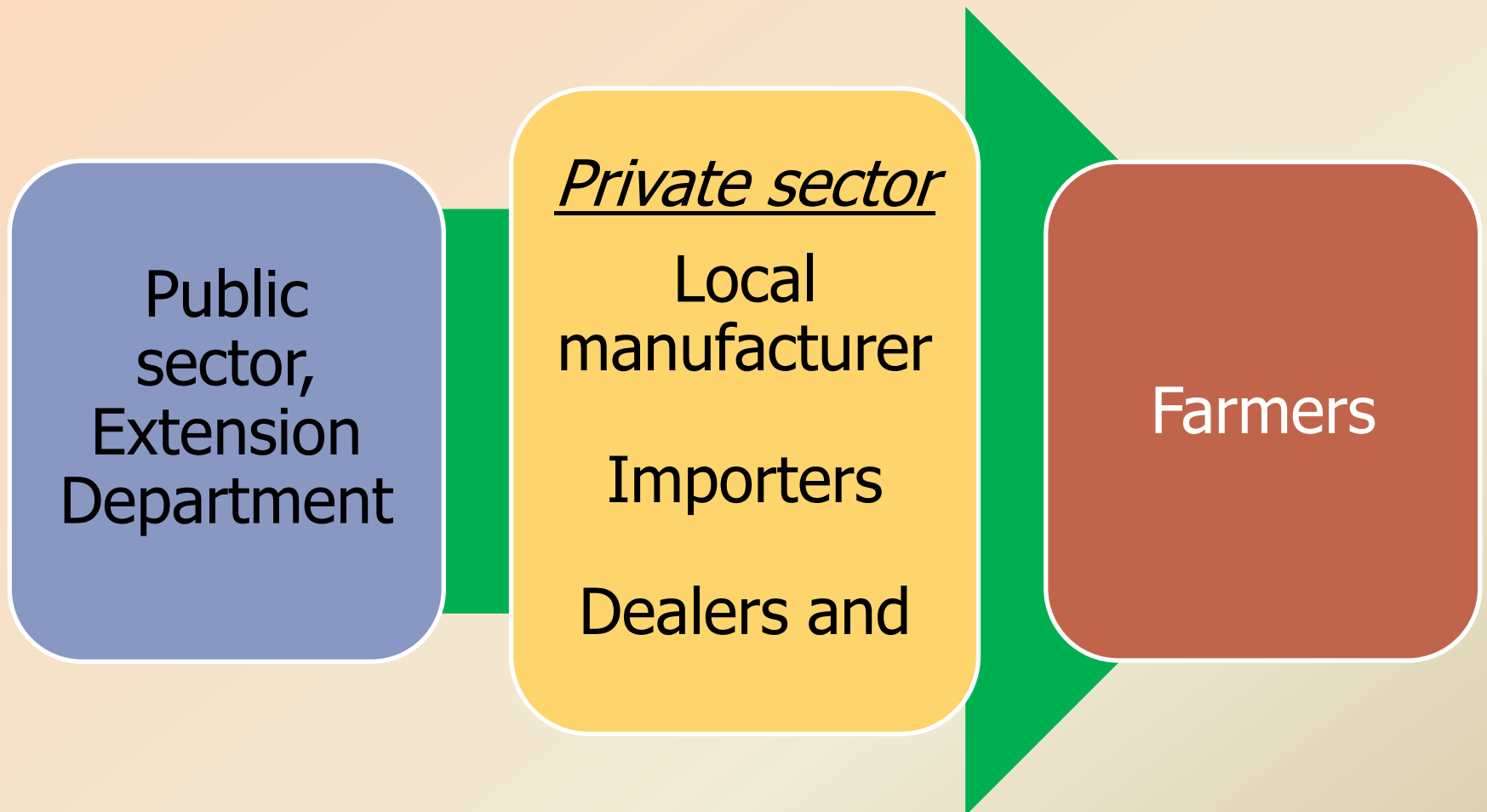
Rice seed with direct seed



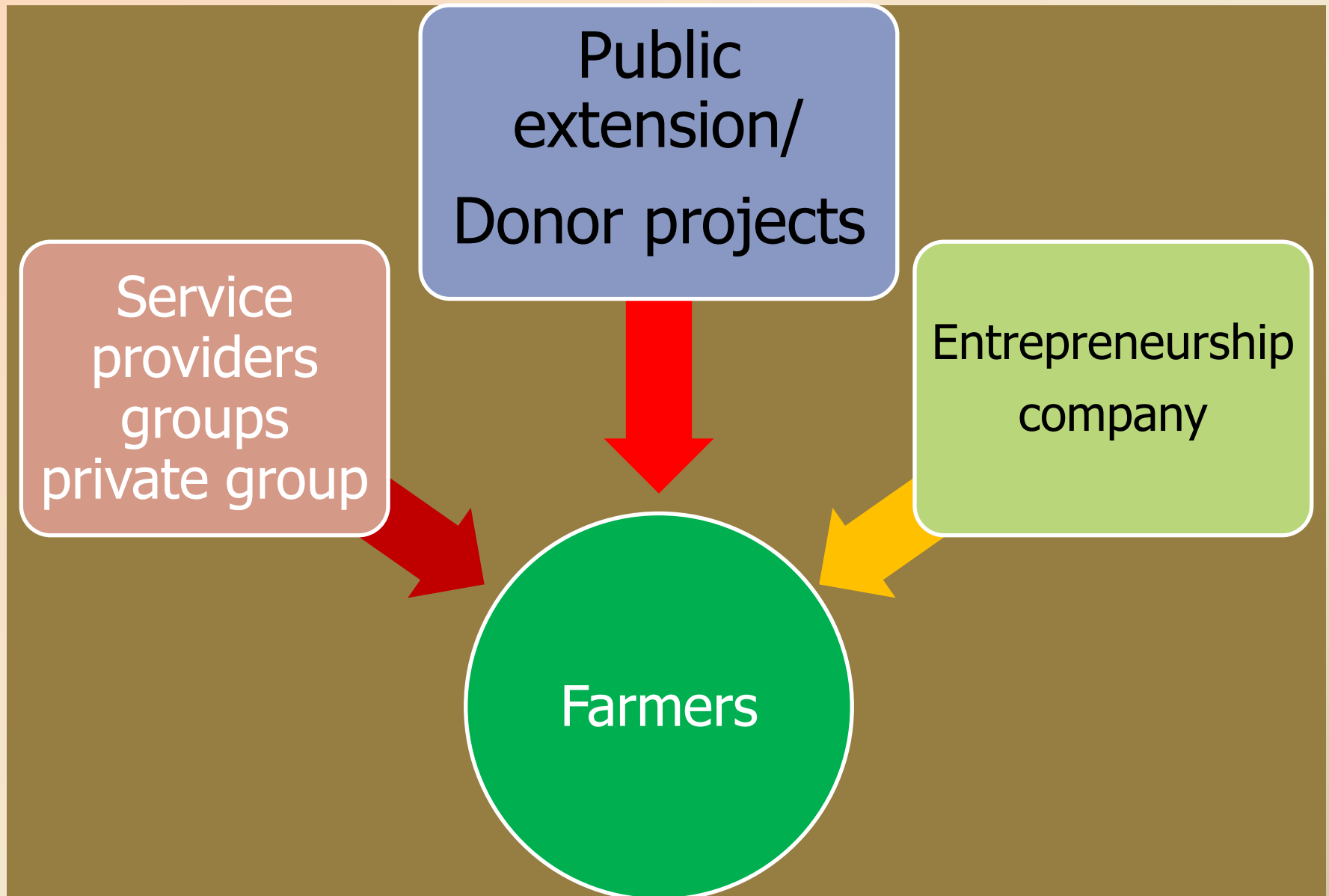
Rice seedling transplanting with hand work



# Current situation of mechanization service



# Agricultural mechanization Extension



# Strategies, policies and national programmes initiative of human resource development of agricultural mechanization

- National policy promote to modernize agricultural sectors to achieve target 4,2 mill. Tones of rice by 2020 for food security and commodity production
- Support capacity building through technical training, demonstration at Training Center (mechanization service, maintenance and repairing service),
- Facilitate private sectors to play a roll for service and demonstration on AM.
- modernized lowland market-oriented agricultural production
- Supporting academic educational program on agricultural mechanization in agricultural college lecture

## Challenge and constraints faced for human resource development of agricultural mechanization

- lack of data on the current number of different types of machinery, equipment and their use.
- Limitation of human resources on agricultural mechanization (academic skill).
- Limitation of educational institutions on AM (poly techniques college, training center, testing center)
- In fact, training center on AM to build capacity for extension workers and farmers not exist.
- Incomplete legal status on AM
- Limitation of public investment on AM
- Public and private sectors collaboration still weak



## Solution and suggestion faced for human resource development of agricultural mechanization

- Training need for extension officers to improve their skill on agricultural mechanization to be able to train farmers and to expose them to new technologies and opportunities.
- Establish education system agricultural engineering, mechanization.
- Strengthening the existing Technical Training enter on agricultural mechanization (machinery operation, maintenance, repairing, transferring new technology to the farmers).

# Training on Tractor maintenance for local Government extension workers



Kob Jai

Thank You very much

