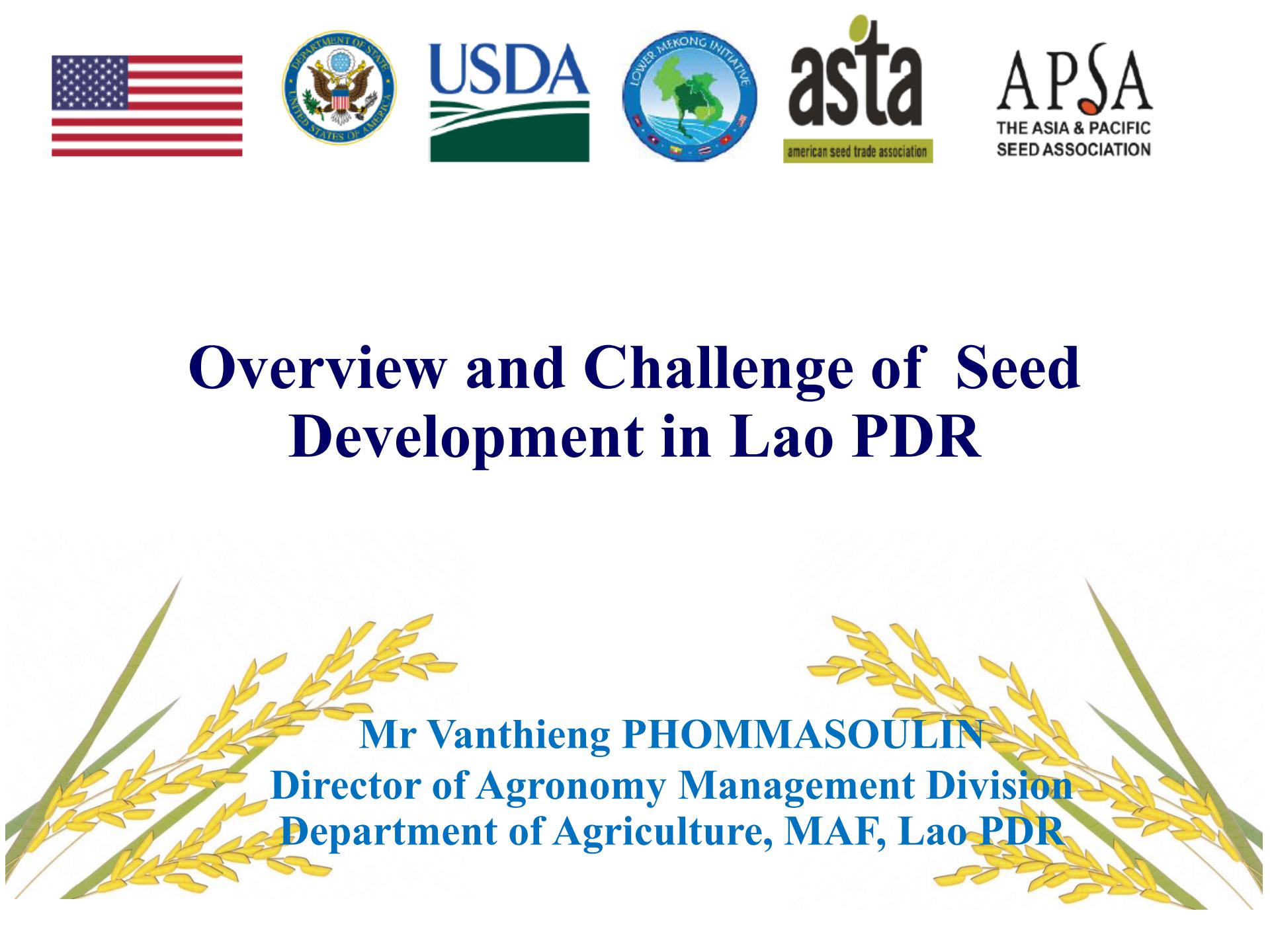




Overview and Challenge of Seed Development in Lao PDR

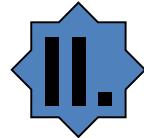


Mr Vanthieng PHOMMASOULIN
Director of Agronomy Management Division
Department of Agriculture, MAF, Lao PDR

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II. Agriculture Development in Lao PDR



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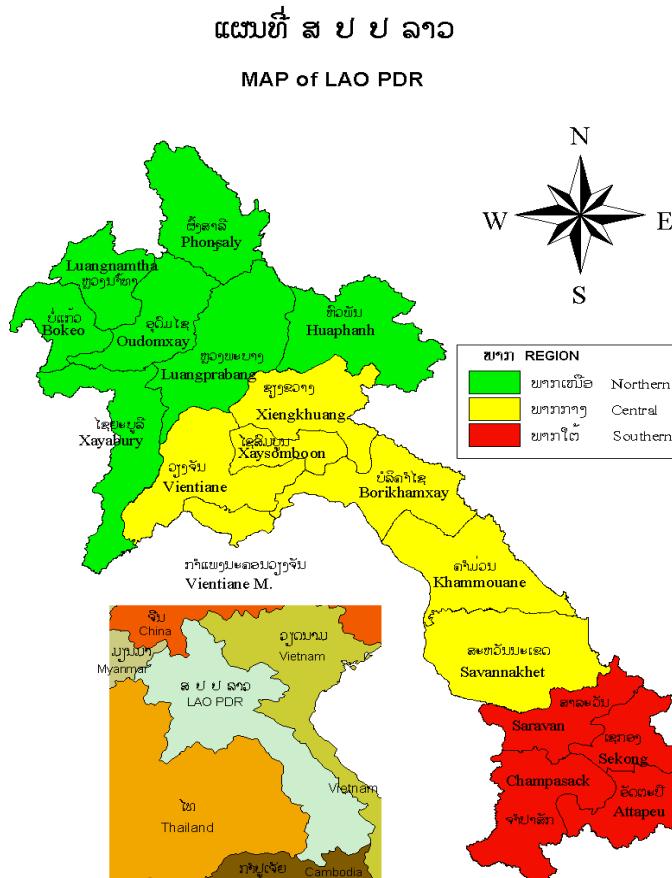
IV. Challenge of Plant Variety Management



V. Future Direction

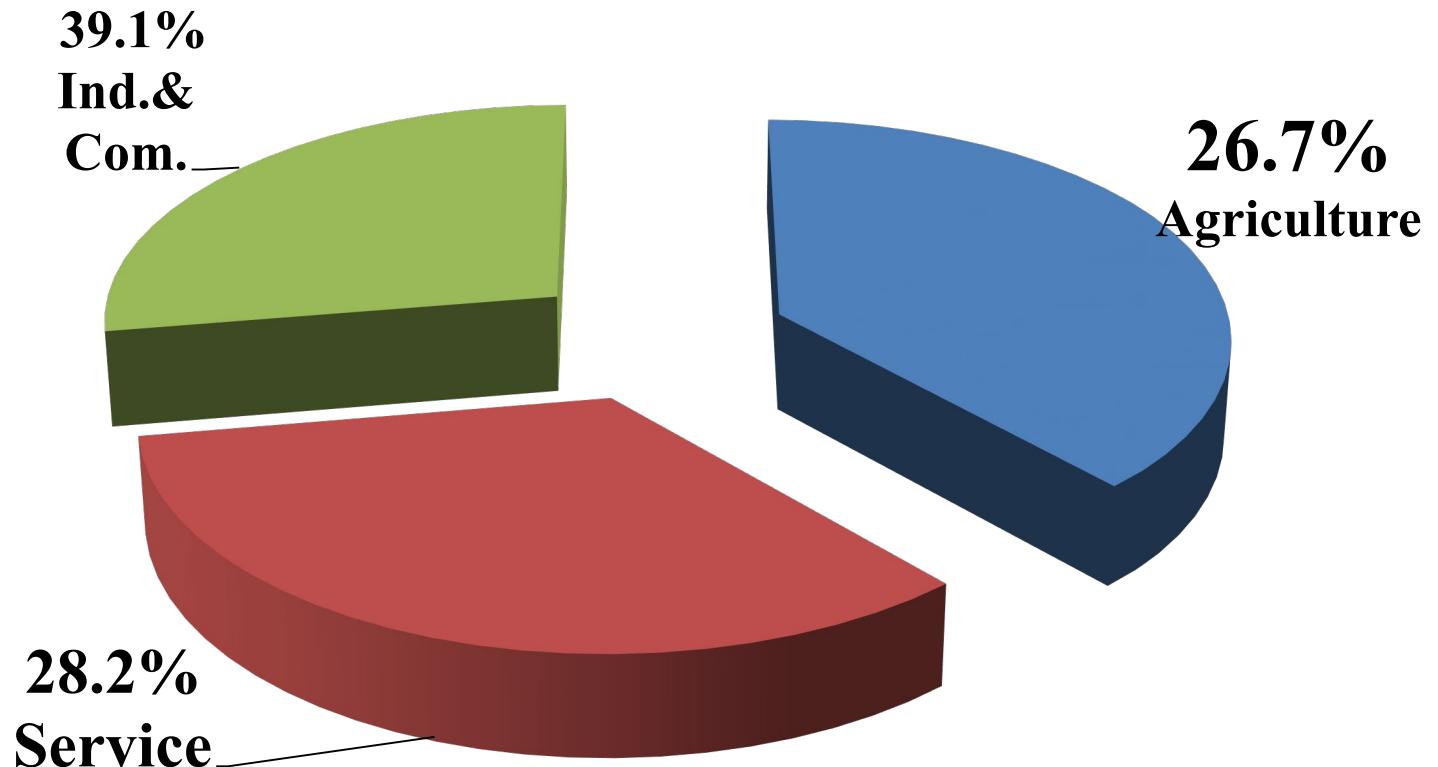
I.

Introduction



- Lao PDR covers area of 236,800 km²,
- Mountainous areas account for 80% and about 20% is lowland area.
- Population is about 7.2 million (In 2018);
- GDP per capita 2.500 US\$ (in 2018). Growth rate is about 6.5 %.
- Cultivated land covers about 2 million ha, rice is occupying 60-70%.

GDP Share in the year 2017-2018



Agriculture Development in Lao PDR

**Strategy to 2025
and Vision to the
year 2030, date 20
March 2015.**

**Development
Strategy of the
Crop Sector 2025
and Vision 2030,
date 2 March 2015.**

Government's Prospective and Strategic Vision 2025

*Long-term
Development
Goal for
the sector :*

Gradual introduction and increased application of modernized lowland market-oriented agricultural production, adapted to climate change and focused on smallholder farmers.

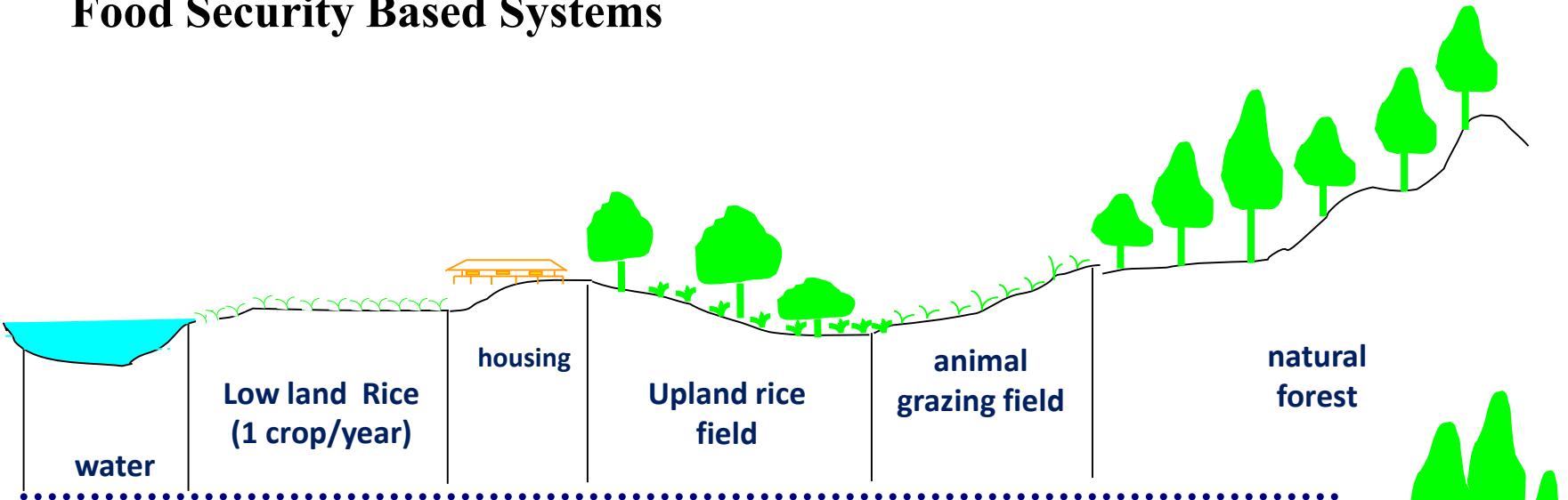
Conservation of uplands ecosystems, ensuring food security and improving the livelihood of rural communities.

*Strategic
direction*

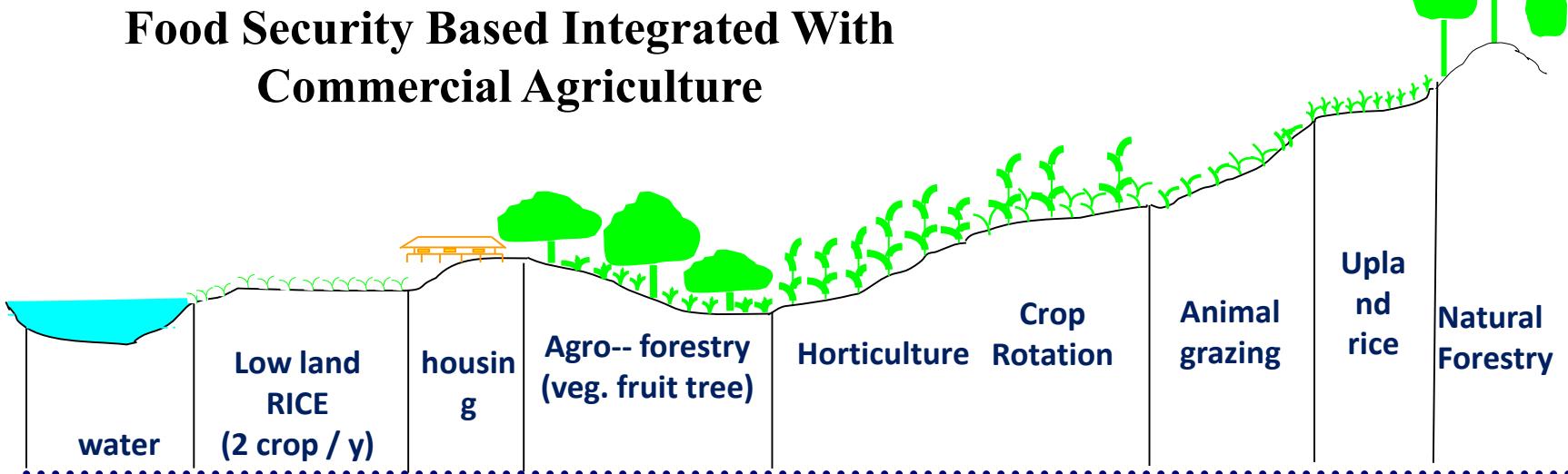
Ensure a successful gradual transition from subsistence into commercial smallholder production.

Lao Agriculture Transition has Accelerated in the Past Over 10 Years

Food Security Based Systems



Food Security Based Integrated With Commercial Agriculture



Development Plan for Crop Sector

- **Food production**: The improvement of livelihood (through agriculture activities) has food security as its first priority.
- **Commodity production**: partnering investment for agriculture commodity production aiming to develop “pro-poor and green value chains” to domestic, regional, and global markets.



Rice



Coffee



Maize



Banana

Major Crops

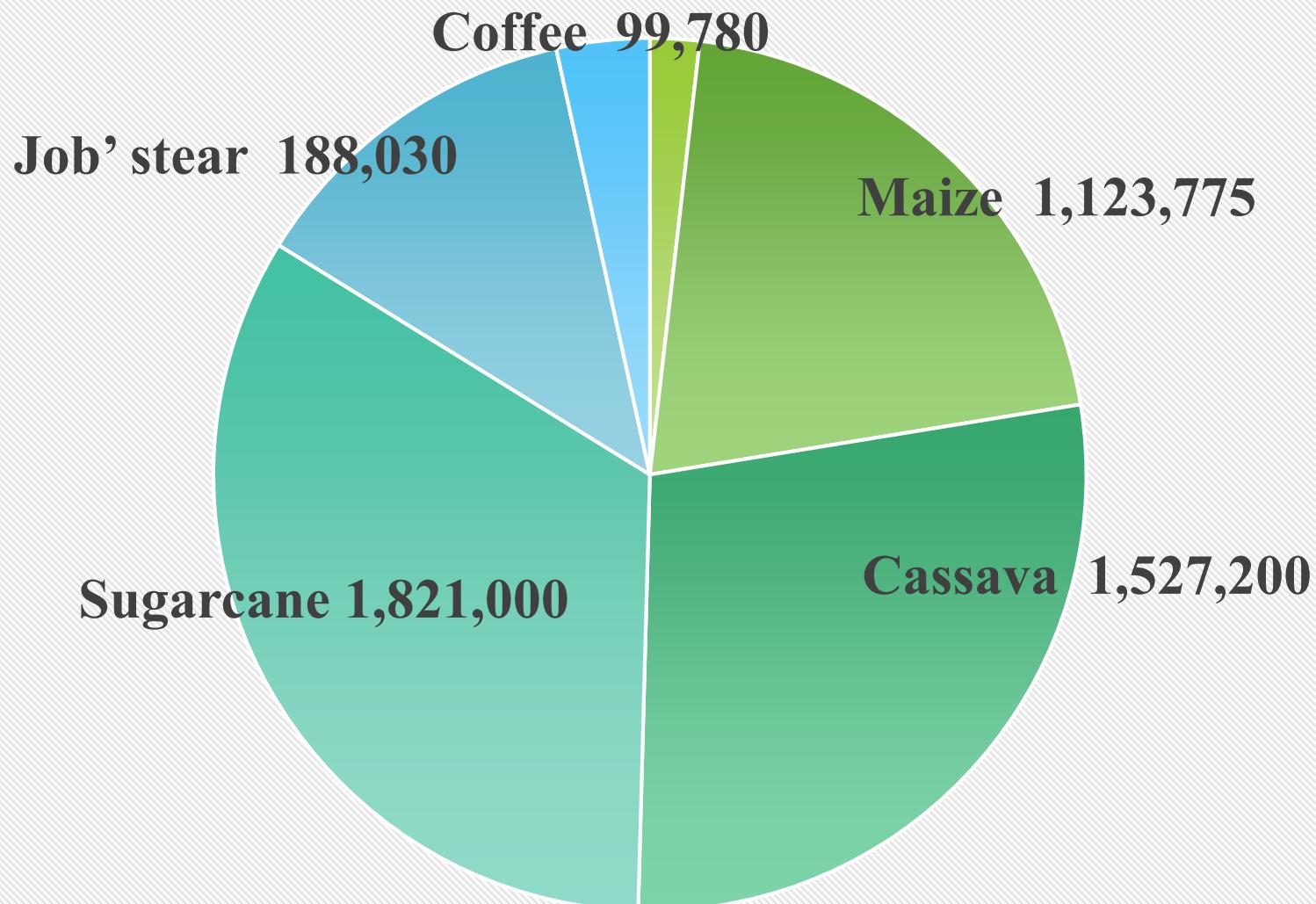


Fruit and Vegetable

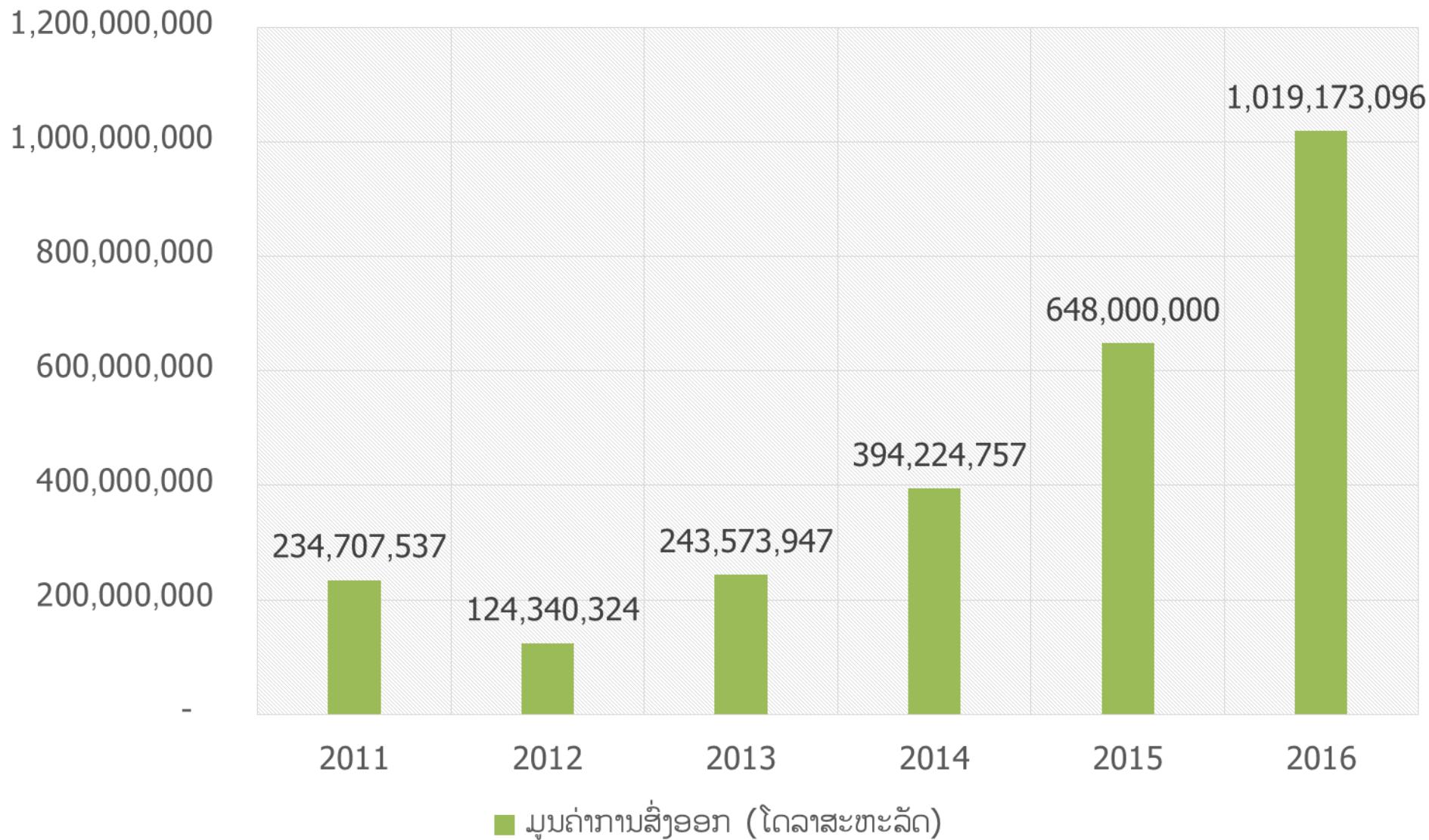


Cassava

Crop Production 2017-2018



Values Export of Crop Production



Seed Development in Lao PDR

- Agricultural Law (No. 01/98 NA, Promulgated by National Assembly on 10 October 1998,). This law is now under improving/review process;
- Plant protection and Quarantine Law, 2016
- Intellectual Property Law, 2016
- Seed and Plant Variety Regulation (Ministry Regulation, No.3919/MAF, 12 December 2012);

Seed Production



UPOV

EAPVP

Cooperation

Training TOT on PVP

Workshop on PVP

JICA

Training on PVP and Seed Testing

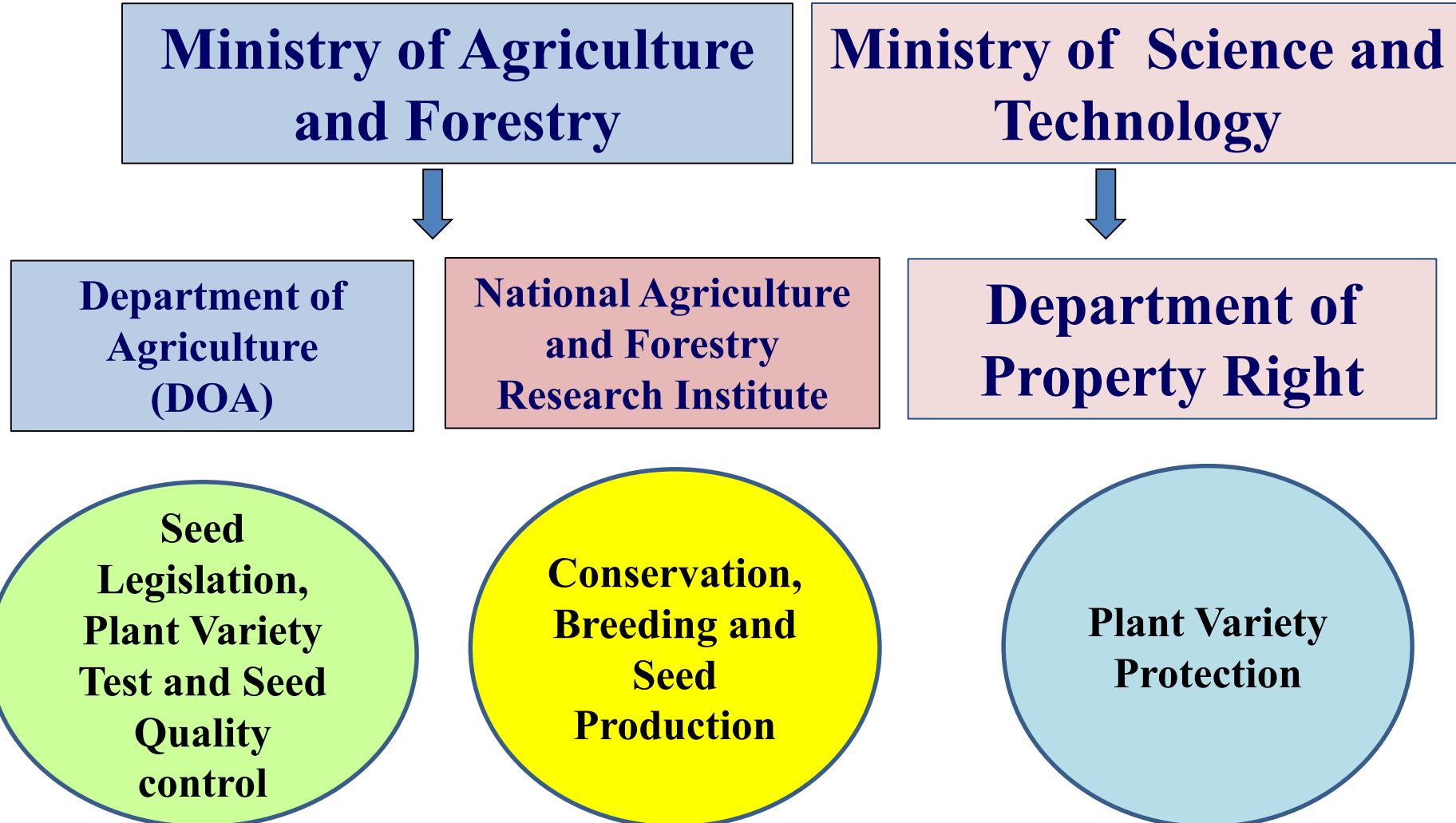


Cooperation



Training on Seed Control and
Certification system

Organization Chart related to Variety Development



Plant Variety Test

Seed Legislation

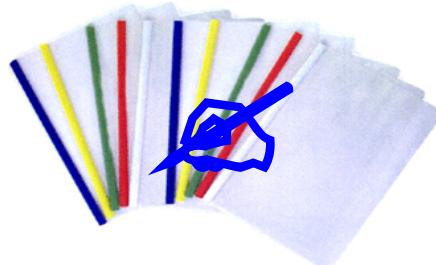
Plant Variety Management

**Seed Quality
control**



Process of Plant variety Testing

Application and related document



DOA examines and Filed Testing



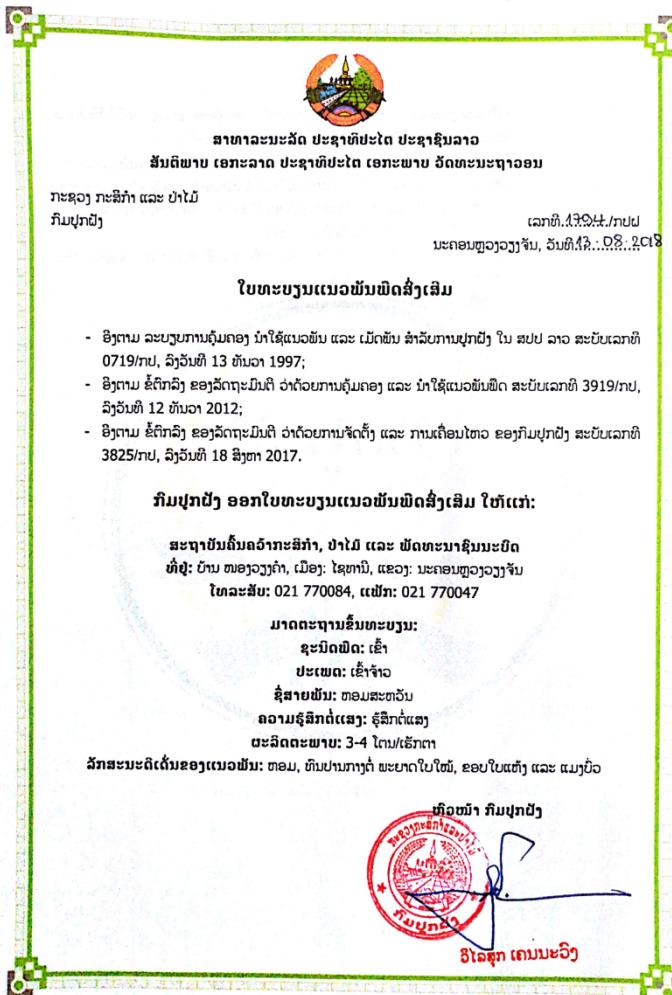
Determined of Result



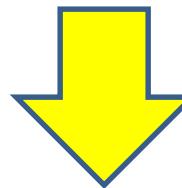
Report of the result



Granting the Certificate



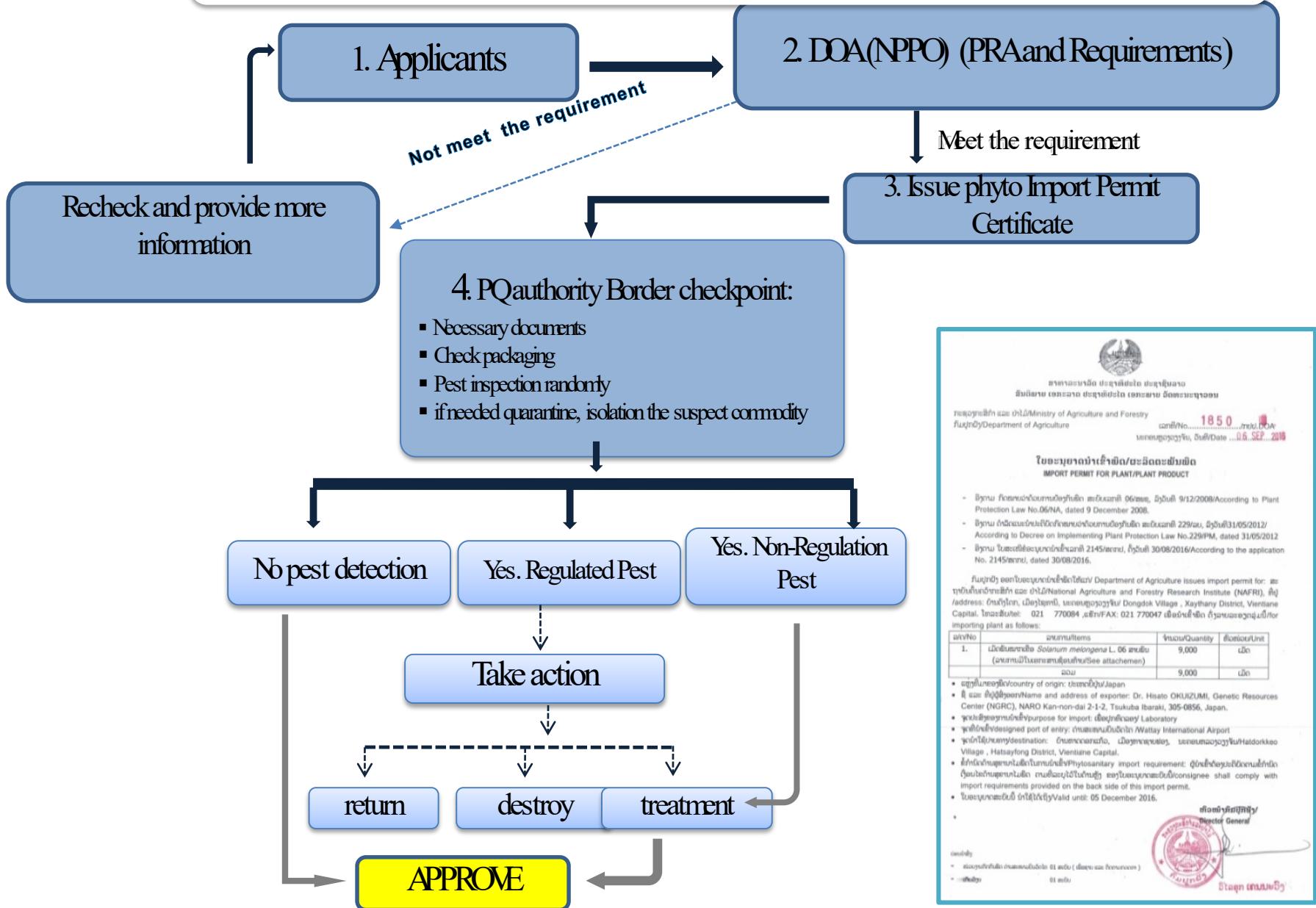
Granting the Certificate 9 Varieties



1. HSV,
2. TDK 8, 11, 13,
3. XPF, 2, 3,
4. Varieties 450-1, 450-2



Phytosanitary import Permit Procedure



Process of seed inspection and Certification System



Legislation



File inspection

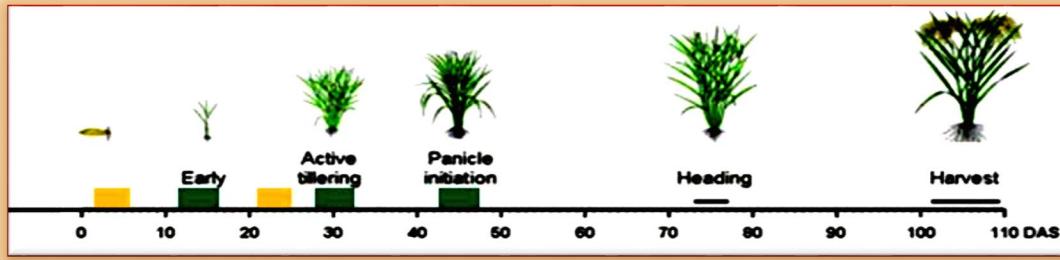


Harvesting



Processing

IRBPKSK US 2(
PK	Lot#	Tag#		
VNLD				
BV/RO@	\$ BV/REB	\$ BV/LUNG	\$ REPKYMK	IRB KA // @R
BV/RO@/Mja	IWC	LWIC		
SWAG@/Mja	IWC	LWIC		
NUGK@/Mja	IRBG	J AVG		
Lk@				
LU/HG@				



Sampling



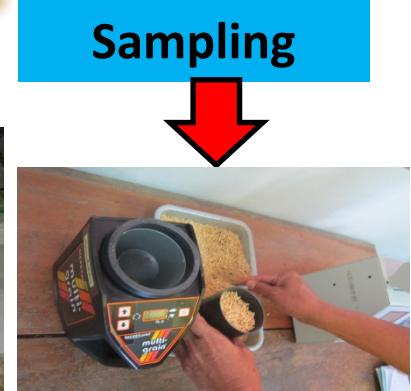
Tag



Grant Certificate



Laboratory Test



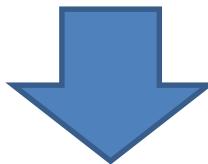
Challenge of Seed Management

- Technical documents, testing instruments, facilities & infrastructure being introduced to improve DUS, VCU testing still developed.



- Knowledge on DUS, VCU test, PVP and seed testing still weak.

Process of Variety Management



- **Institution or Organization to Development DUS and VCU test system is not clear and strong enough.**
- **Climate change will effect to breeding and seed production for food security and Commodity production**



Future Direction

To support Law on Intellectual property and Seed regulation.



Develop the Seed decree, Regulation, guideline relate to Plant variety Registration such as of DUS and VCU test and Establishment the DUS Test Center and Laboratory



Develop the plant breeding, seed production and seed testing

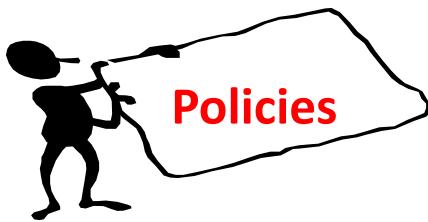


Conduct and Participate workshops, seminars or training on PVP, DUS, VCU and Seed testing

Food Security

Thank You

National &
International



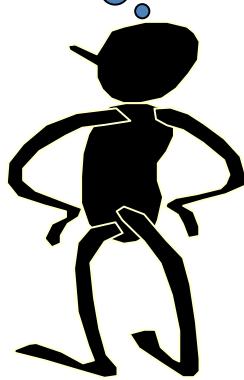
Institutional support



Resilient community



Technical



LOCAL



Seed Security

Resources

