

Plant Variety Protection in Lao PDR



*The 7th EAPVP Forum , DOA, MAF
Vientiane Capital, Lao PDR, 6-8 August 2014*

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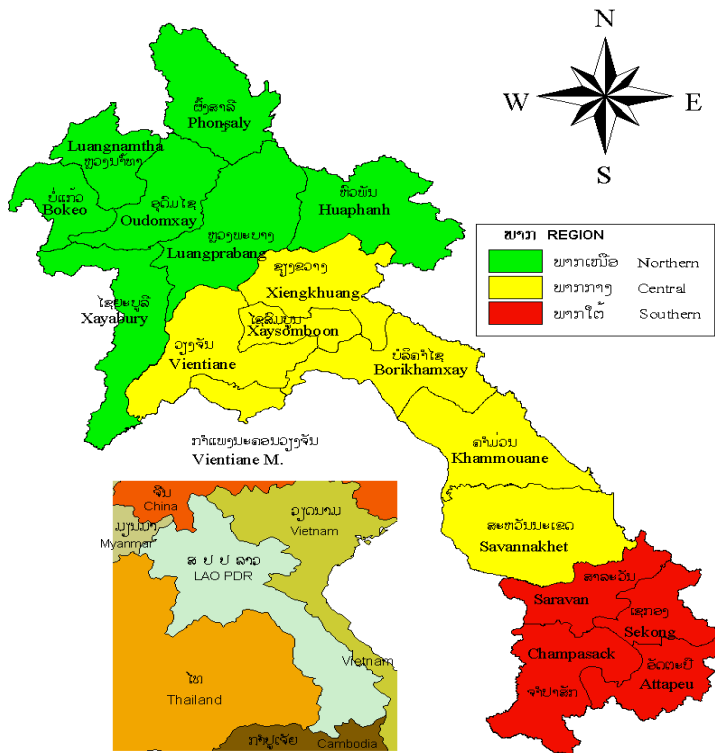
II.

Proposal PVP Cooperation Activities in Lao PDR

1. Agricultural Development in Lao PDR

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MAP of LAO PDR



Lao PDR covers area of 236,800 km²

Population is about 6.51 million (In 2012);

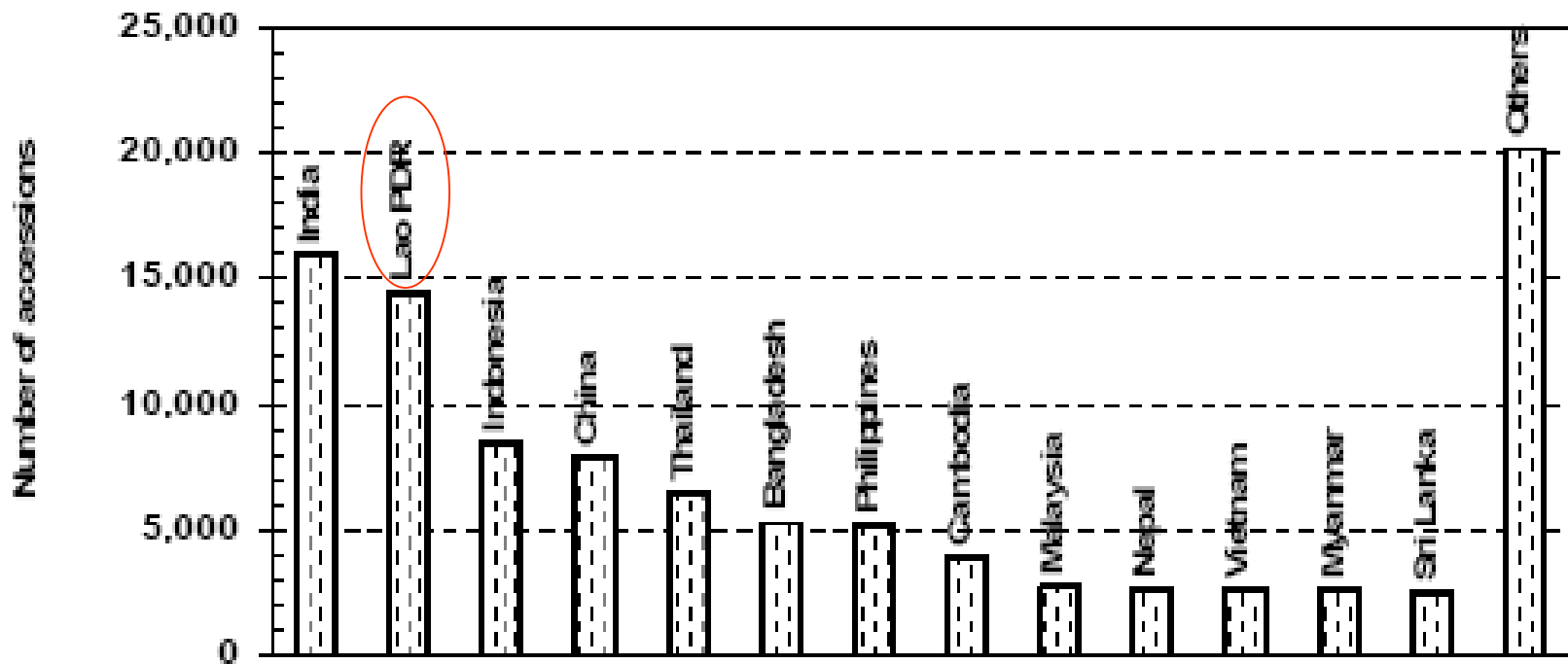
Cultivated land covers about 2 million ha (5%), rice is occupying 60-70%

- Maize
- Cassava
- Fruit and Vegetable

Degrees of biodiversity of rice in Laos

- ✓ Laos has one of the highest degrees of biodiversity of rice in the world,
- ✓ It appears to be the center of biodiversity for glutinous rice.
- ✓ Early 1990s, more than 13,500 rice samples have been collected (85% are glutinous)
- ✓ More than 3,000 representative rice samples are conserved in the country, and in the International Rice Genebank at the IRRI

Origin of the Germplasm in the International Rice Genebank



Source: IRRI. 2005 *Genetic Resources*. Los Baños: IRRI.

Native Rice Variety

Non-
Glutinous

Chao Deng₁, Chao Deng 2, Chao Dok Dou, Chao Kam hom LG 5448, Chao Kam hom LG 3302, Chao kam LG 8140...

Glutinous

Phea Khao, Phea Deng ,Kai Noy Leuang, Hom Nang Nouan, Hom sa Ngiem, Kam Niew hom LG13259, Kam niew hom LG 175,.....

Khao Nok, Lep meu&Mak hin soun, Khao Vieng..



“Kam Niew Hom”
Black Rice Variety
Foundation Seed



Kainoi Variety



Improved Rice Varieties

1993: TDK1, TDK2

1994: PNG1

1995: PNG2

1997: TDK3

1998: TDK4, TSN1, NTN1

2000: TDK5

2002: TDK6, TDK7*, PNG3

2003: TDK8, TDK9*, TDK10, PNG5*

2009: TDK11*, TSN5*, TSN6*, TSN7* and Homesavan*

2010: Vientiane 450-1

2012: TDK1 sub 1

**1st Released Variety of hybrid maize “ VTE
450” in 2011**



Develop two new varieties of Soybean at ARC (S-ARC-1; ARC-2)



Cassava

Cassava:

- Collection (43 Acc)
- Evaluation of introduced variety from Thailand and Vietnam and in the 2005 were introduced 320 lines from Colombia and selected 6 promising lines
- Inter-crop study



Sweet Potatoes

- **Germplasm Collection 22 , Characterization and Evaluation for Use (16 Varieties)**



2. National PVP Legislative Field

- Agricultural Law (No. 01/98 NA, Promulgated by National Assembly on 10 October 1998,). This law is now under improving/review process.
- Law on Intellectual property (No. 01/NA, Date 20 December 2011).
- Ministerial Decision on the implementation of the law on Intellectual Property concerning Patent and Petty Patent, No. 752/MOST date 20 September 2012.
- Regulation on Management and Use of Plant Variety (Ministry Agreement, No.3919/MAF, 12 December 2012).

Organization Chart related to PVP

Ministry of Agriculture and Forestry

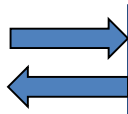
Ministry of Science and Technology



DOA

NAFRI

Independent breeders



DPR

(Seed Certificate, Variety Legislation, DUS Test and Seed Quality control)

New Plant varieties (breeders)

(Plant Variety Copy Right)

The Strategic Opportunity : ASEAN Community, Regional Economic Integration



Lao government is to prepare the country, due to its geographical location, to play the true land-link role and an agent for regional development for the benefit of Lao people as well as others in the region.

3. The Development of PVP

- Capacity building of DUS and TGs.
- DUS testing, Testing Guideline(TGs) are under development.
- Developing of PVP office.
- Organizational Authority of PVP.

4. Cooperation Activities under EAPVP Forum in year 2012-2013

1. In-country training courses

Technical Workshop on Plant Variety Protection (PVP) under the UPOV Convention in Vientiane Capital, Lao PDR, December 9-10, 2013.



**Technical Workshop on Plant Variety Protection (PVP) under the UPOV Convention
December 9-10, 2013.**

2. International Training Courses

- Training on Quality Control System of seed and seedling to facilitate Distribution of High quality **July 15 to October 12, 2013 in Japan.**
- Meeting of the Administrative Procedures for PVP in East Asia PVP Forum on **February 25 to 27, 2014 in Viet Nam**
- Training on Quality Control System of seed and seedling to facilitate Distribution of High quality **July 12 to October 14, 2013 in Japan.**

5. Future Plan

- To develop capacity building of DUS and TGs.
- To establish the DUS Test.
- To develop DUS testing systems, Testing Guideline (TGs).
- To establish organizational authority of PVP.
- Awareness on Plant Variety Protection (PVP) under the UPOV Convention for:
 - National level.
 - Regional level.
 - Farm level.

II. Proposal Activities in the year 2015

To raise understanding and awareness of Plant Variety Protection and related to DUS examination on rice.

Conclusion

- Improved variety such as Rices, Maizes, Casavas, Soy beans, Horticulture crops...
- Information sharing.
- Capacity building in the area of DUS testing.
- Awareness on Plant Variety Protection (PVP) under the UPOV Convention for:
 - Managing level: Central and local authority
 - Regional level.
 - Farm level.

THANK YOU
For your kind attention

