

UPOV EAPVP Forum

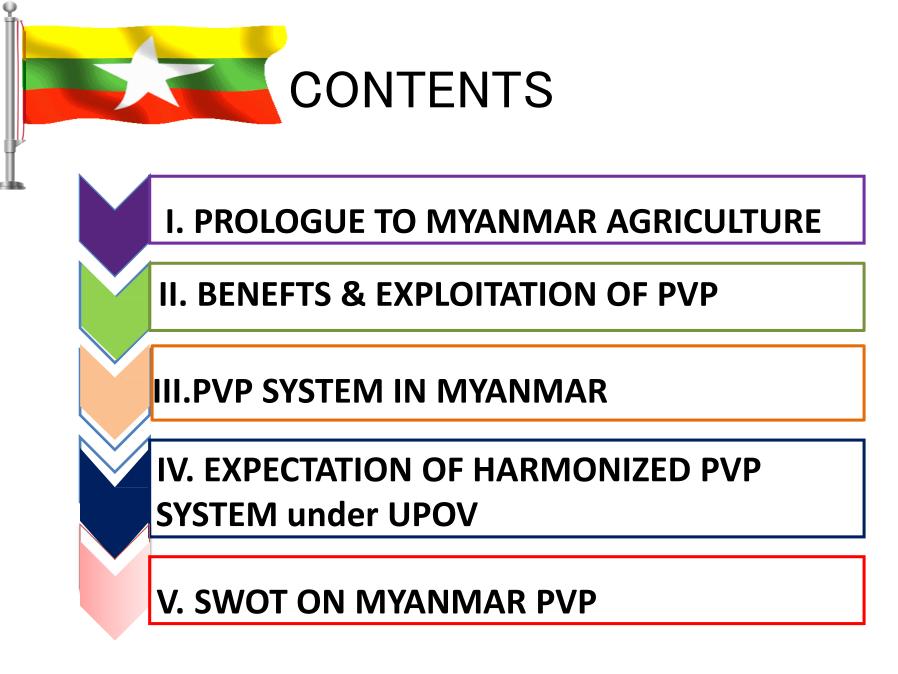


Awareness workshop on Plant Variety Protection under the UPOV Convention

Expectation of PVP in line with UPOV system

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Jointly organized by DOA, MAF (Laos), UPOV, EAPVP Forum and MAFF (Japan) 19-20 December 2018, Vientiane Plaza Hotel, Lao PDR



I. PROLOGUE TO MYANMAR AGRICULTURE



Country's Profile

Area Total 676,578 km² (261,228 sq mi) ,

land/water Land - 96.94%, Water - 3.06%

resources 40th largest country by area & 24th most populous country in the world, estimated population of 53.86 million (70% live in rural area) Myanmar has full control over most of its water resources; more than 19,000 m2 per capita each year, which is about 9 times the available levels in China, 16 times India and 16 times Bangladesh.

Coastline 1,930 km

Climate tropical monsoon; cloudy, rainy, hot, humid

Coordinates

22° 00'N 98° 00'E (different ecology favorable for several kinds of crops)

Myanmar has a huge potential to become a **credible global** food supplier Due to her ecology and resources



Agriculture-based country (as other developing countries)

- Agriculture plays a crucial role in Myanmar Economy
- **Statistics:**
- **Agriculture** in
 - GDP: 37
 - Total exp



- Employs www. w.w. 70%
 - -To attain economic potential, Myanmar is seeking the ways/ -Ware paring the nage as ary only cy, Law, R & R to intensify its
 - Agricultural financing transition period.
 Agricultural Mechanization and Input Policy

 - Cooperative Enterprise and Cooperative System Development Policy
 - Rural Infrastructure Development Policy
 - Research, Development and Extension Policy
 - Marketing, Value-added Processing and Export Policy
 - Governance, Institutional and Human Resource Development Policy
 - Environmental Conservation and Climate Change Resilience Policy
 - SEED POLICY
 - PVP POLICY (not confirm)
 - Agriculture Research Policy (not confirm)

Setting up the laws to support Agricultural Development

Plant Pest Quarantine Law	1993
Farmers' Right Protection and Enhancement of their	2013
Benefit Law	
The Law Amending the Seed Law & The Seed Law	2015
The Law Amending the Fertilizer Law & The Fertilizer	2015
Law	

Pesticide Law

New Plant Variety Protectic



2016



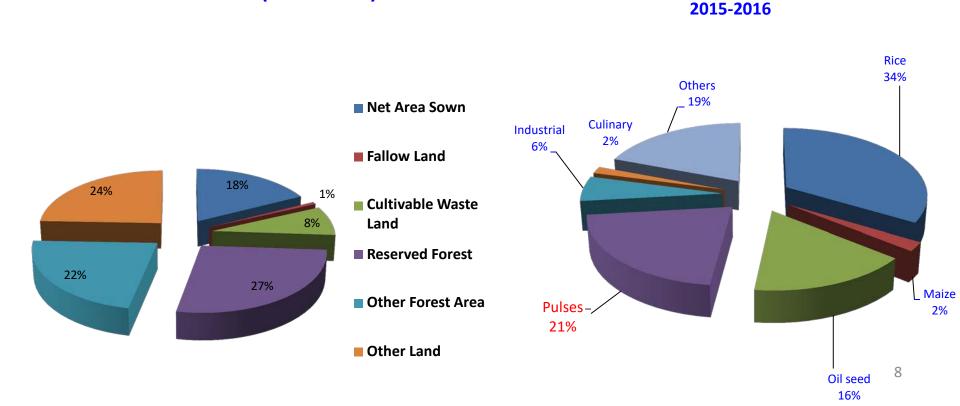
Structure of Crop Industry in Agri-business

•Total land area 67.66 million hectare, virgin soil are still a lot.

2015-2016 (Million Ha)

• Potential to go on with expansion of agricultural activities organic like agriculture

Sown area of Crop Groups in



Major crops

- Rice
- Maize
- Peas & Beans
- Oil Seed Crops
- Industrial Crops
- Horticulture/ Ornamental Crops

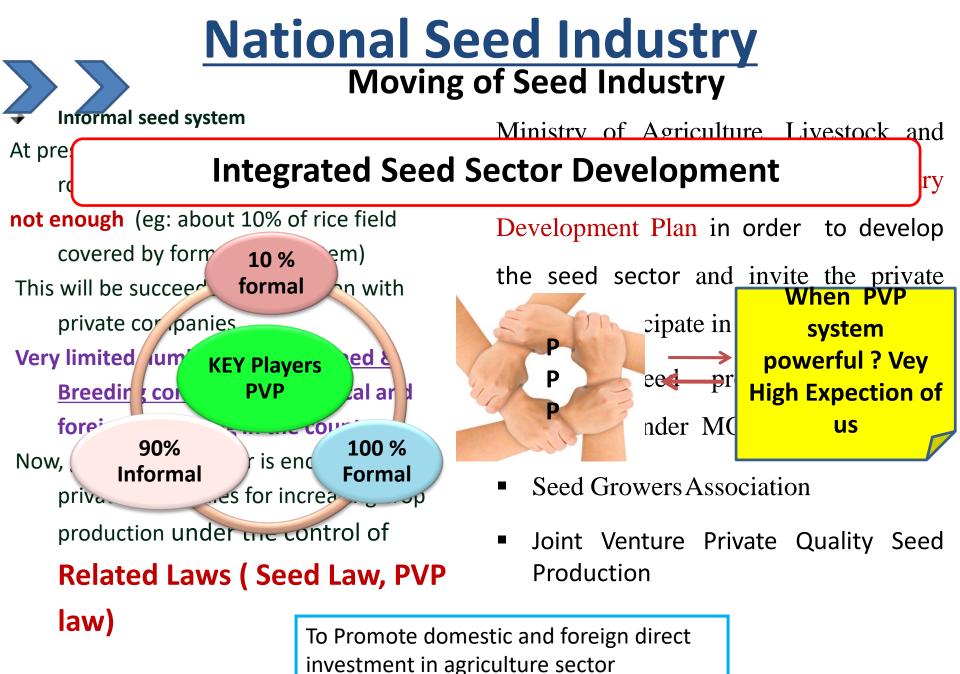




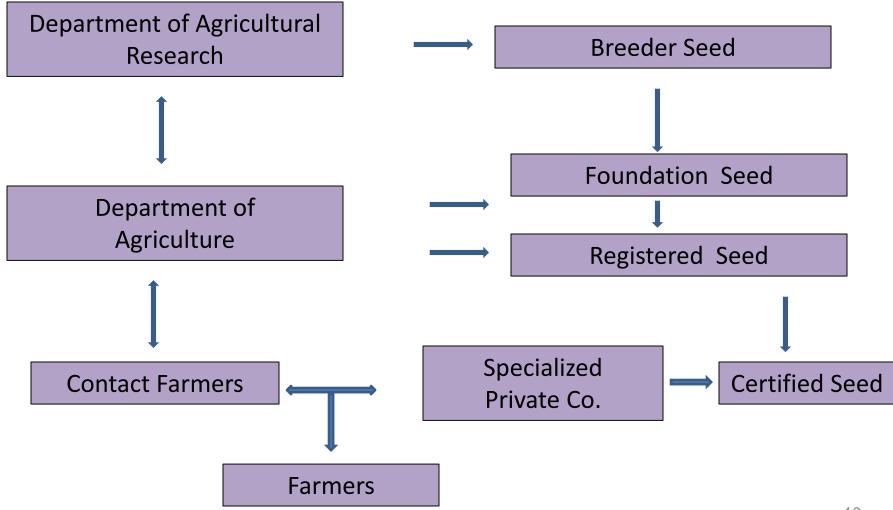




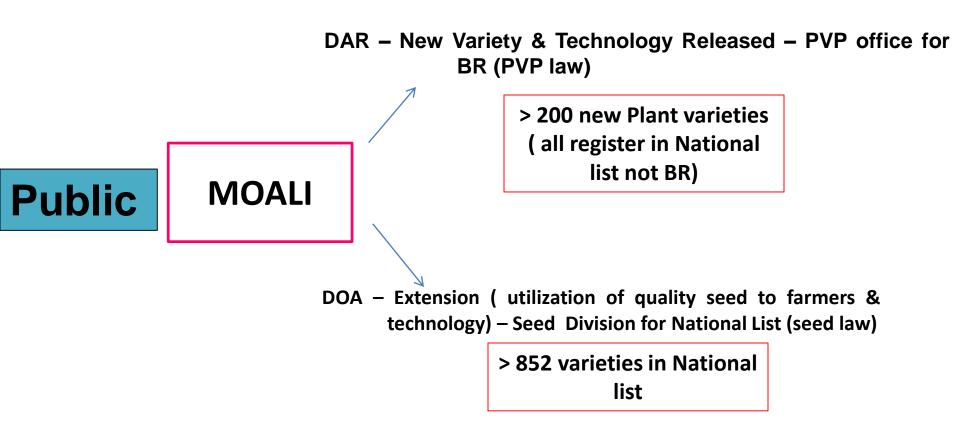




Current model - Seed Industry (Private - Public – Partnership)



National Seed Industry





Very limited

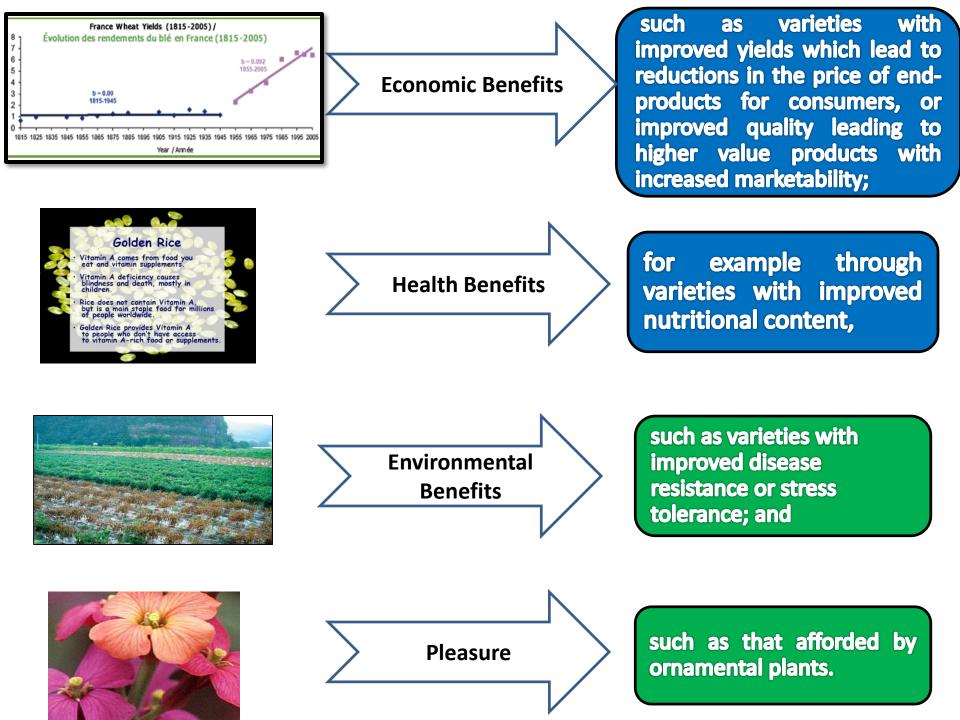




What is PVP? How to relate with the development & utilization of New Plant Variety for our society.

➢ PVP System is a system to protect the new plant variety which developed by the plant breeder by giving exclusive right to him to exploit it under the control of the related law (PVP law).





1. Promotion of Breeding

- PVP provides breeder of new plant variety with the <u>exclusive</u> <u>right</u> to exploit it.
- Increase of investment in breeding efforts such as number of studies/ researches was proven with the adoption of PVPin some countries (Van Wijk, 1995)
- PVP creates incentive for R&D





2. Introducing Foreign Varieties

- Breeders from abroad wish to be able to protect their long-term investment by expanding their market of new variety.
- PVP encourages influx of foreign varieties with superior characteristics into the country to boost the national agriculture, horticulture & forestry.
- For country with smaller domestic breeding sector and seed market,
 - farmers: able to obtain good varieties, PVP provides more choices
 - local breeders: obtainable good sources of germplasm for the use of breeding to advance local breeding program.

- Foreign varieties can be used for further breeding with local varieties.
 - using protected var. for breeding is allowed under PVP
 - enables technology transfer and effective utilization of genetic resources
- Expand genetic diversity

 accessible of foreign superior varieties will create more crossing possibilities between foreign and local varieties and subsequently lead to the increase of new varieties, thereby expanding the biodiversity /gene bank



3.Production for Export

- New variety to be exported must meet the needs of foreign markets e.g. ornamental plants
- Access to valuable foreign-bred varieties enables domestic growers and producers more scope to improve production and also more scope to export their products. This incentive will strengthen the competitiveness of our agriculture sector.

→ PVP redirect the focus of local breeder in developing potential variety for export purposes

e.g. Imaginary example:

Before being rose exporter

Myanmar: Blue rose is not popular, breeder works on breeding more popular colour such as pink and red.

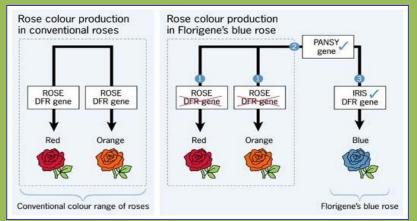
European: In favor to have natural but not "artificial" dark colour rose e.g. black rose and blue rose.

After being rose exporter to European countries

Myanmar: would like to expand her market to European to introduce more variety choices to importing country, breeder now concerntrates on creating dark colour rose.



Genetically modified blue rose in Japan



4. Political consideration

- PVP is complied with other international treaties e.g. Convention on Biological Diversity (CBD), International Treaties on Plant Genetic Resources for Food and Agriculture (IT-PGRFA)
- Removing barriers to trade in varieties → increasing domestic and international market scope
- Having an effective PVP, the country will be treated as a reliable partner in various international forum e.g. APSA, East Asia PVP Forum etc.

Benefits of the UPOV System in UPOV website

🗸 In Japan

Tsuyahime, A new rice variety bringing increased income for farmers

🗸 In Kenya

Rose industry blooming in Kenya

Discover how the UPOV system enabled Kenya to develop a \$500 million cut-flower industry that employs 500,000 Kenyans

🗸 In Canada

Canadian cherry growers benefit from government policy

✓ In Colombia

See how the UPOV system is supporting agriculture and promoting rural development through new improved varieties, with examples of sugar beet and ornamentals

✓ Argentina

Using the UPOV system to benefit custodians of native wild germplasm in Argentina

✓ Ecuador

The role of PVP in the development of a new blackberry variety that improves farmers' working conditions.

✓ Uruguay

How PVP enabled a public breeder to ensure a supply of high quality onion seed to farmers

Cooperation between UPOV members is a key benefit of UPOV membership



To implement PVP in Myanmar collaboration with UPOV, EAPVP & Naktuinbouw, the Netherlands

- ⇒ 1994 /1995 CBD, WTO's member Aware of importance of PVP system and IP Rights
- ⇒ 2004 Participated to the UPOV- INGER Workshop
- ⇒ 2006 Participated to conduct DUS test (INGER)
- ⇒ 2007 Member of EAPVP Forum
- ⇒ 2009 PVP TWG started to organize with 10 participants in DAR
- ⇒ 2003 to date joined/ organized PVP related Trainings, Workshops and

Seminars

⇒ 2016 - Enacted PVP law

PVP Awareness Seminar before PVP Law Enacted



1st time PVP system awareness seminar jointly organized by UPOV, MAFF Japan, MOAI Myanmar (19.12.2012)

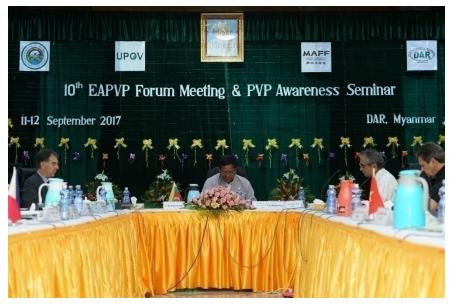


2nd time PVP system awareness seminar jointly organized by UPOV, MAFF Japan, USPTO, MOALI Myanmar at (5.12.2016)

After PVP law enacted



10th EAPVP Forum Meeting (10.9.2017) at DAR, Myanmar





PVP Awareness Seminar (11.9.2017) at DAR, Myanmar

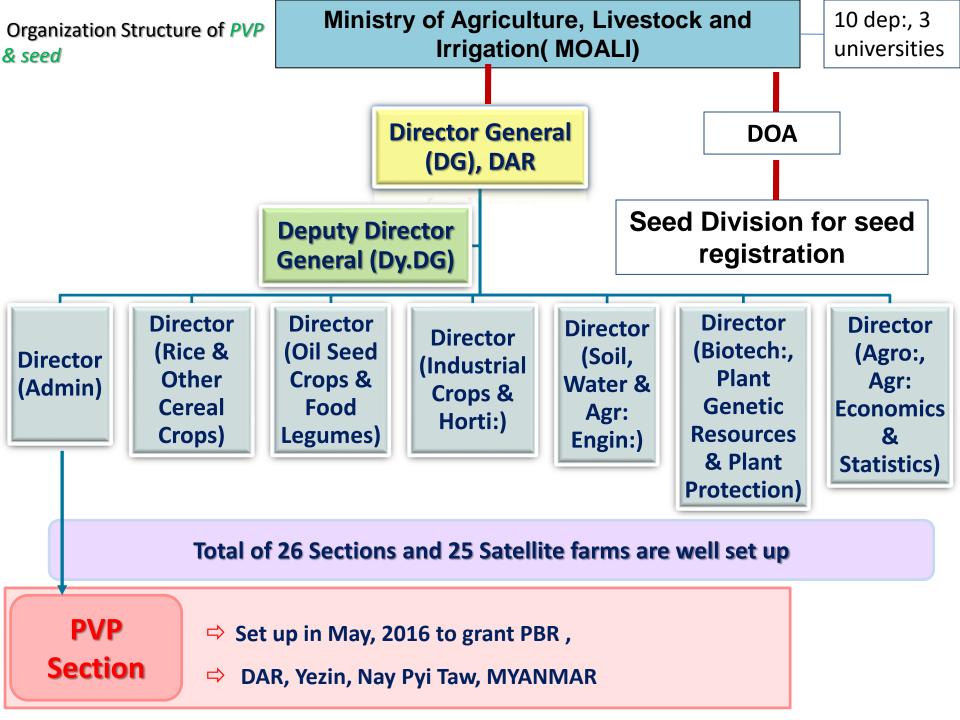


1. In country training for PVP system implementation jointly organized by Naktuinbouw and Wageningen University, the Netherlands and DAR, MOALI, Myanmar at January 2017

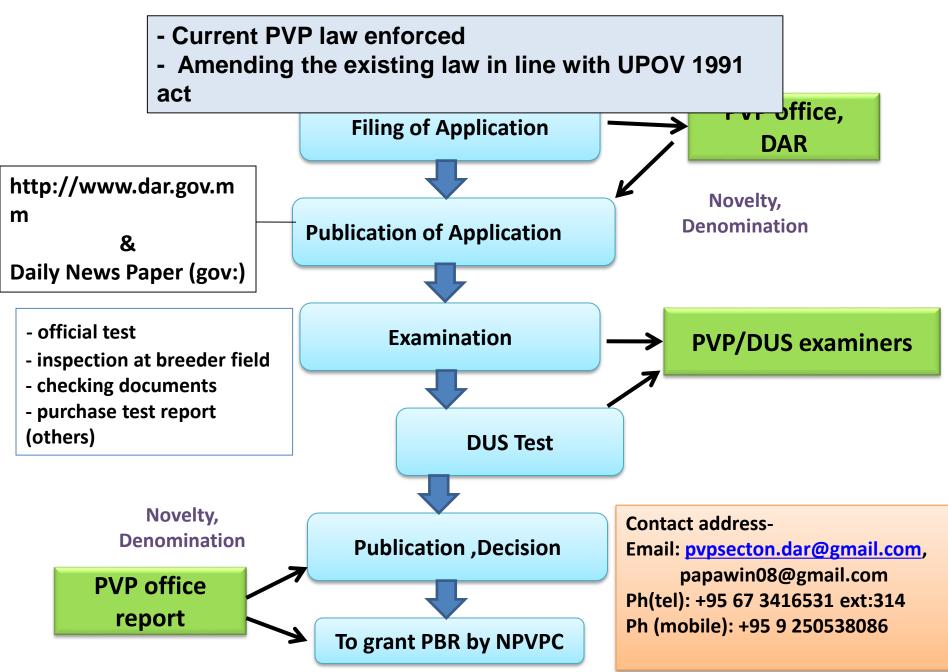
2. "In-country Training Course on Test Guideline for Maize" jointly organized by EAPVP and DAR, Myanmar January 22 to 26, 2018.

3. In-country Training Course on "Assistance in Drafting Rice Own TG Protocol" jointly organized by Naktuinbouw, the Netherlands and DAR, MOALI, Myanmar at November 6-9, 2018





iii. Procedure for application of new variety to get BR





IV. EXPECTATION OF HARMONIZED PVP SYSTEM under UPOV

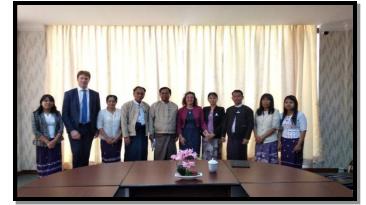
Myanmar Adopted on why PVP is important!!!!

- in most developing countries including Myanmar- The agricultural sector is the backbone of the economy and employment
- (GDP) -- > 50 % & up to 80 % of the active population earn their living in agriculture.
- But in most of these countries, agricultural productivity is extremely low
- One of the reasons for poor agricultural performance in many developing countries is a <u>lack of progress in improving the performance</u> <u>of traditional plant varieties over the centuries</u>









1st time PVP law amendment meeting with UPOV lawyer in Myanmar at 2016

2nd time PVP law amendment meeting with UPOV lawyer in Myanmar at 2017

3rd time PVP law amendment meeting with UPOV lawyer in Myanmar at 2018 Law draft Passed at UPOV Council Meeting 94th session of the Consultative Committee &41st ordinary session of the Council (25/26.10.2017) to become UPOV member

 Already sent PVP law draft to UAGO to review

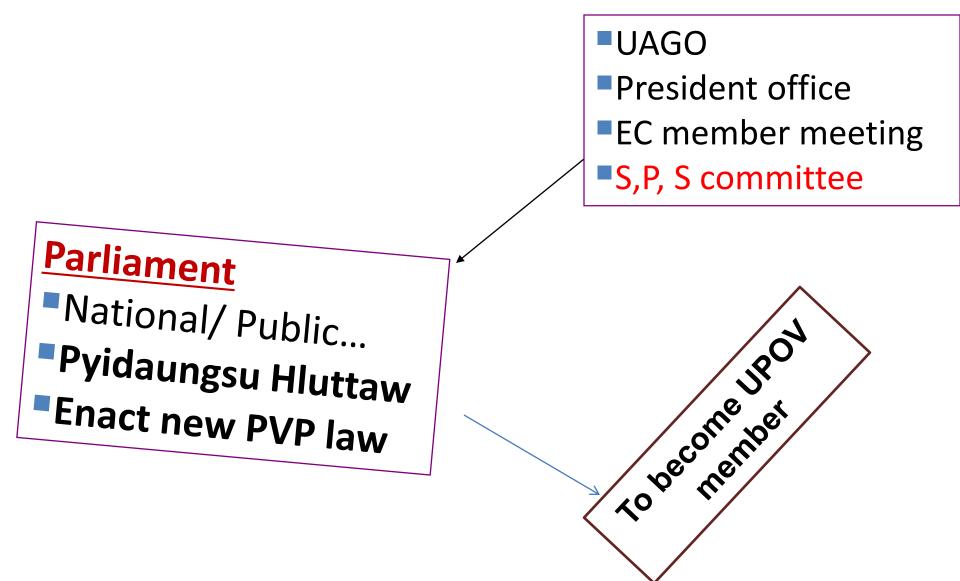
Moving to become UPOV membership

Information share about Vietnam (UPOV member since 2006)

- → Whereas approximately USD
 3.5 billion have been added to
 GDP when looking at rice, corn and sweet potatoes, ...
- → ... an additional GDP of at least USD 0.2-0.3 billion has been added by having invested ten years into plant breeding for flowers.
- → Indeed, Viet Nam has become one of the fastest growing flower markets.

Ref; Vietnam ppt at10th EAPVP meeting

Work Flow of New Law to Enact



V. SWOT ON MYANMAR PVP

Strength

- Agriculture based country
- Related law (PVP law) enacted
- More awareness among top management level
- PVP amending law accepted by UPOV 94 session meeting
- Initiate pilot project for PVP application to granting procedure in the region

<u>Weakness</u>

- > Weak awareness all stakeholders
- >No internal readiness (law enforcement ,

R&R, TPVPC)

Some articles of existing PVP law are not in line with

UPOV 1991 acts

Poor capacity building in PVP technical &

administrative

- weak collaboration in the local
- take a time (not limit) to enact new law

Opportunity

More collaboration w PPOR UNITY
 To become UPOV member after new law enacted
 Gemplasm resource / good environmental resources
 More opportunities will be easily achieved by joining
 UPOV;

 Competitiveness among breeder will become active.
 Farmers can obtain high-quality seeds- breeding work and high demand of new variety

<u>Threat</u>

Sustainable policy is important
UPOV Membership fee Sustained Government support
needed
Possible higher cost of seeds/planting materials
Obligation to comply with UPOV Regulations
important to maintain systematically existing genetic resources.







Looking to the way forwards

Future Collaboration Activities ?????

LET's KEEP in touch with each other to

construct together good PVP environment

for our society





