

Workshop on Plant Variety Protection Plant Breeders' Rights and Farmers' Benefits Cambodia, 28 February 2022



Development of PVP System in Myanmar

Pa Pa Win (Ph.D)

papawin08@gmail.com

Senior Research Officer, PVPO

Department of Agricultural Research (DAR)

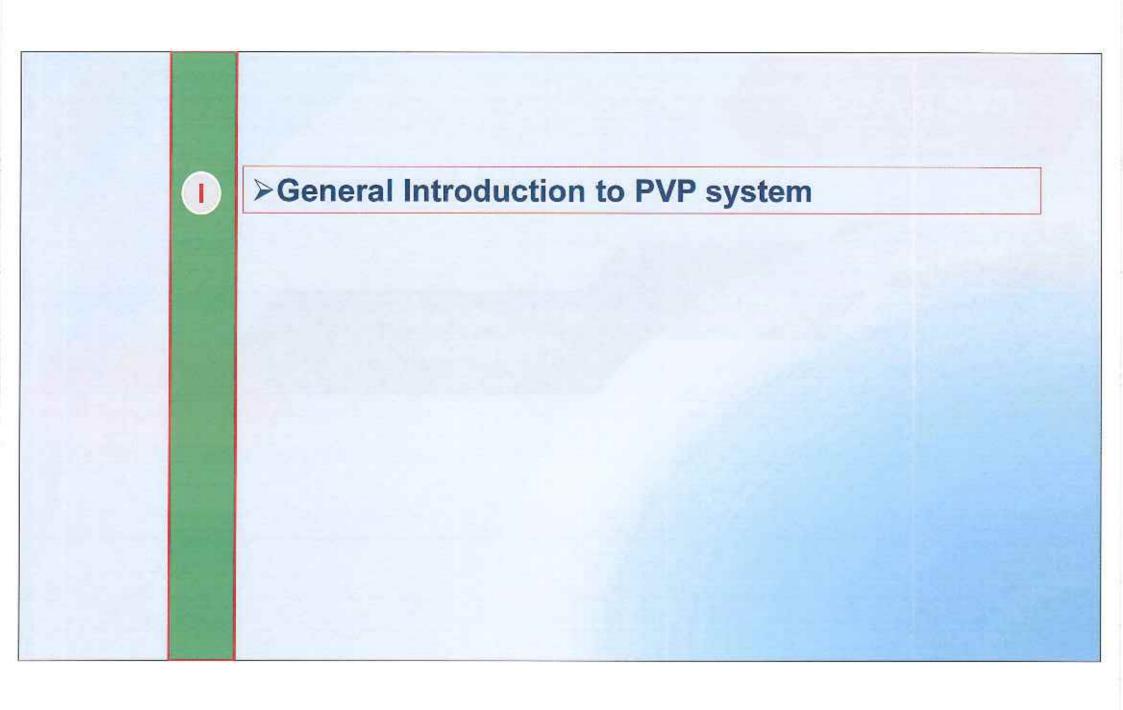
Ministry of Agriculture, Livestock and Irrigation

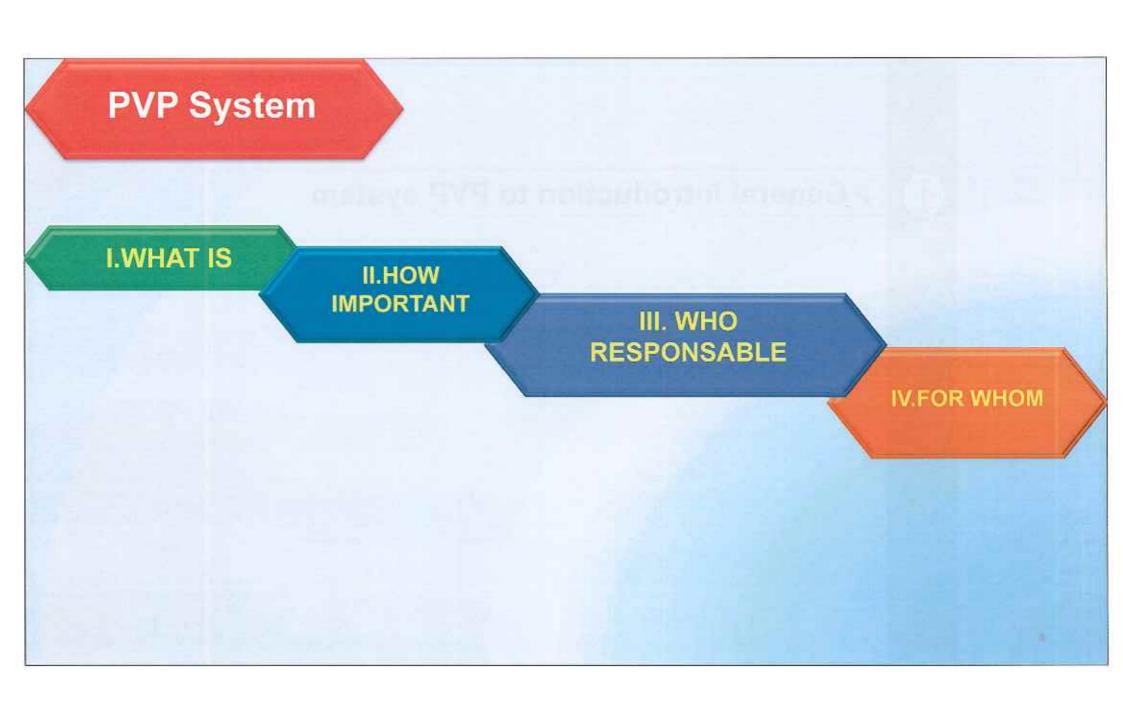


▶ Past &Present of PVP in Myanmar

III >Introduction to Some Articles of Myanmar PVP Law

► Forward- moving/ Future of Myanmar PVP





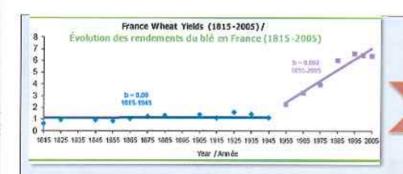
I.WHAT IS PVP SYSTEM?

- ➤ 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).
- Provision of plant breeder's rights would encourage private investment in plant breeding to develop new plant variety for society.

II.HOW MANY IMPORTANT FOR SOCIETY?

BENEFITS OF PLANT VARIETY PROTECTION (PLANT BREDEER'S RIGHT) – General / Specific View





General View

Economic Benefits

such as varieties with improved yields which lead to reductions in the price of end-products for consumers, or improved quality leading to higher value products with increased marketability;



Health Benefits

for example through varieties with improved nutritional content,



Environmental Benefits

such as varieties with improved disease resistance or stress tolerance; and



Pleasure

such as that afforded by ornamental plants.



- ✓ Promotion of Breeding
 - ✓ Introducing Foreign Varieties
 - ✓ Production for Export
 - ✓ Political consideration







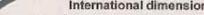
The International Union for the Protection Of New Varieties of Plants

- Adopted in 1961
- Entered into force in 1968
- Amended in 1972,1978,1991

UPOV Member Countries



Benefits of UPOV Membership



- farmers and breeders
- *Access to foreign varieties and enhanced domestic programs

Headquarters - Geneva, Switzerland

Key people - Francis Gurry

(Secretary General)

- Peter Button

(Vice Secretary General)

Website - www.upov.int

ASEAN + 3

International dimension

III. WHO RESPON:

*Development of new foreign markets for

Singapore Vietnam China Japan Replubic of Korea eration in DUS Trial

Appettention CRACK Trent pront Pole Cite

Farmers, Consumers

- Improved varieties for farmers and
- Added value for farmers and growers
- Better food quality, choice
- and price for consumers

Congention of examination

- -Minimize time and cost of examination
- efficient arrangements for oldering protection for all plant genera and species

EAPVP Forum (East Asia Plant Variety Protection Forum)





History

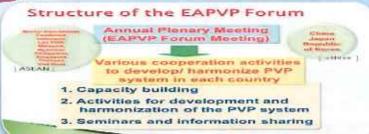
- Endorsed at ASEAN +3 Ministers of Agriculture and Forestry (AMAF +3) Meeting in 2007
- ❖ Regional cooperation Activities to develop/harmonize PVP System in each country.

Objective

Framework to promote mutual cooperation for members to develop and implement PVP Systems based on the UPOV system, on the overall goal of achieving food security and other benefits to the society, through sustainable plant breeding activities.



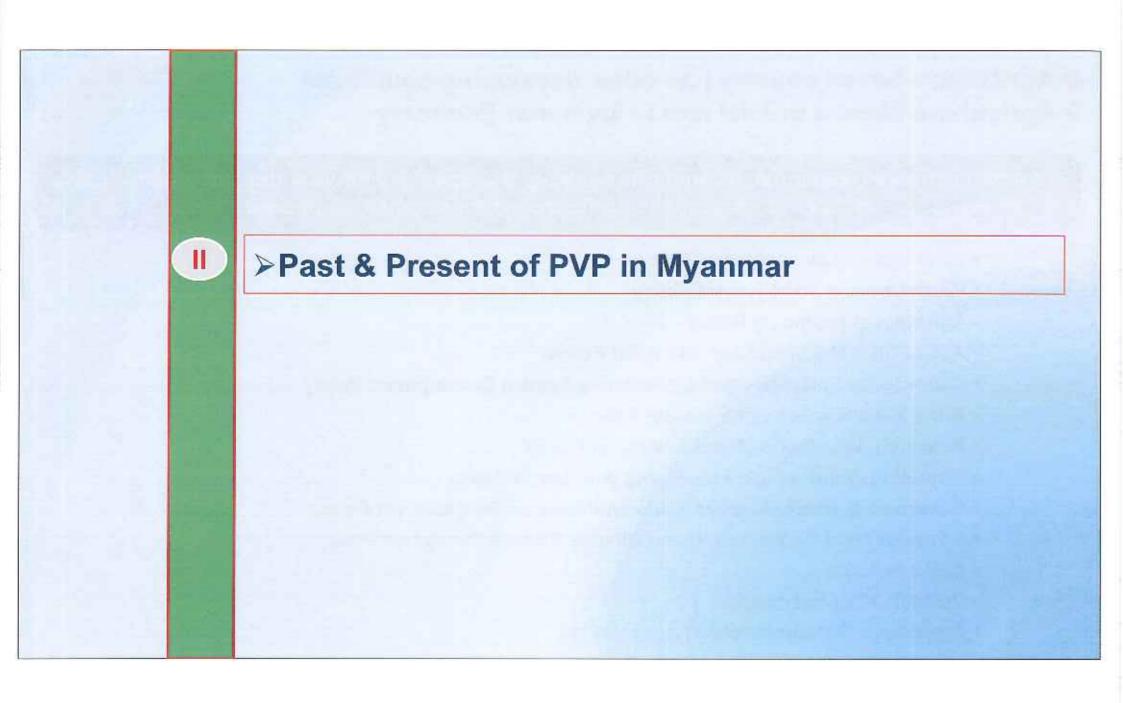












- Agriculture-based country (as other developing countries)
- Agriculture plays a crucial role in Myanmar Economy

To attain economic potential, Myanmar is seeking the ways (lay down & develop policy , Law, R &R) to intensify its agriculture during transition period.

- Land Use and Management Policy
- Water Use and Management Policy
- Agricultural Financing Policy
- 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 Sector Development

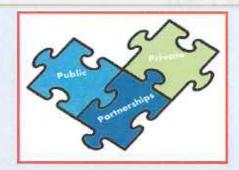
	&2019
New Plant Variety Protection Law	2016
Pesticide Law	2016
The Law Amending the Fertilizer Law & The Fertilizer Law	2015
The Law Amending the Seed Law & The Seed Law	2015
Farmers' Right Protection and Enhancement of their Benefit Law	2013
Plant Pest Quarantine Law	1993

LAW

Plant Variety Protection System in MM

- **♣** So, limited number of private <u>Seed & Breeding companies</u> (both local and foreign) operating in the country.
- ♣ At present, the seed industry is leading role in government sector.
- ♣ Not enough (eg: about 20% of rice growing fields covered by formal seed system) (Mostly Informal seed system)

Now, government sector is encouraging private companies for increasing crop production through the control of systematic approach under Related Laws (Seed Law, PVP law)







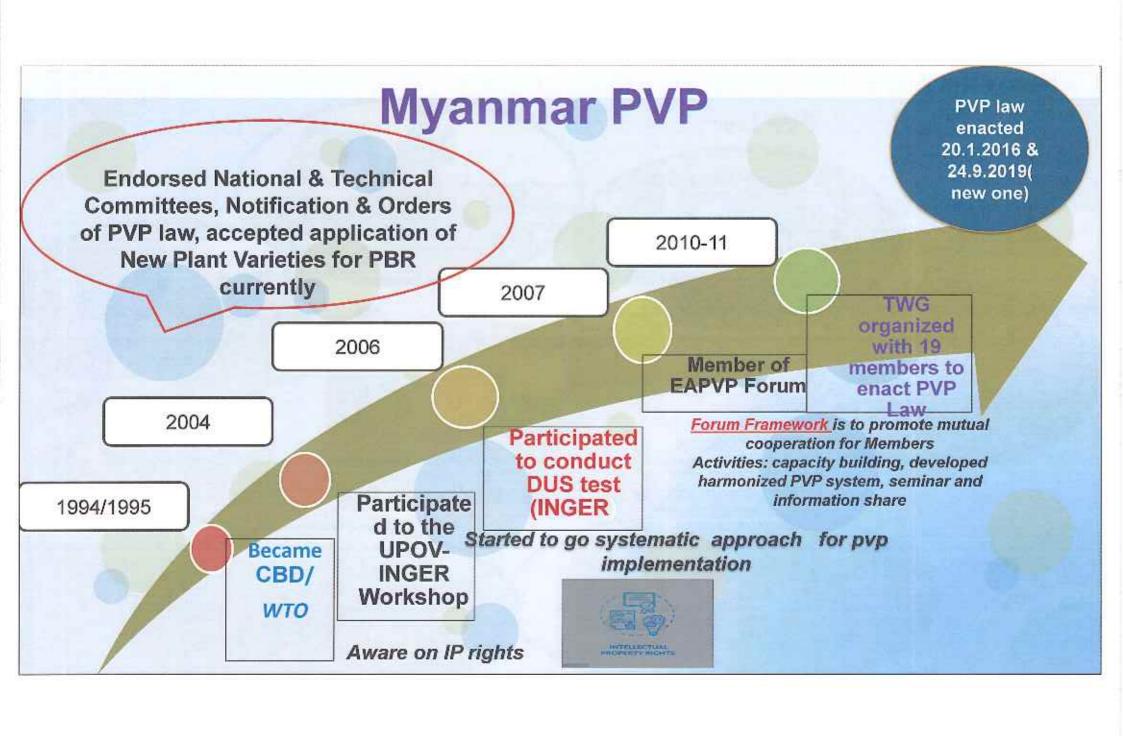




Myanmar Adopted on why PVP is important!!!!

- 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</u> progress in improving the performance of traditional plant varieties over the centuries







PVPO under DAR, MOALI was set at 10.5.2016

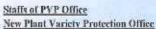
VISSION

To support the adoption of New Plant Variety Protection System for the development of new plant varieties that will benefit the society.



MISSION

To establish internationally harmonized New Plant Variety Protection System through the implementation of the harmonized PVP System in ASEAN + 3 countries.

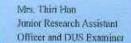






Dr. Pa Pa Win Research Officer Section Head





Ms. Phyu Phwe Junior Rescarch Assistant Officer and DUS Examiner

OBJECTIVE

To support administrative and technical areas of PVP system implementation when a new plant variety is applied to grant a plant breeder's right by a plant breeder to NPVPC.

Collaboration with International/ Regional Organizations





EAPVP Forum





Have a move

PVP Awareness Seminar before/after 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)





nak/tuinbouw



Plant Variety Protection (PVP) Training 16 – 27 January 2017, Yezin, Nay Pyi Taw (Myanmar) In-country Training Course on TG for Maize organized by
Department of Agricultural Research (DAR), (MOALI), Myanmari n cooperation with
Ministry of Agriculture, Forestry and Fisheries (MAFF) of Japan
23.1. 2018, Nay Pyi Taw, Myanmar



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





Workshop for raising the inclusive awareness of stakeholders on PVP-Moving forward in Myanmar jointly organized by DAR & Singenta foundation (12.03.2019)





"Webinar on Awareness of Plant Variety Protection System" 3.12.2020









Participating EAPVP Annual Forum Meeting



Host 10th EAPVP Forum Meeting in 2017







EAPVP Forum Participate in EAPVP Forum Pilot Project



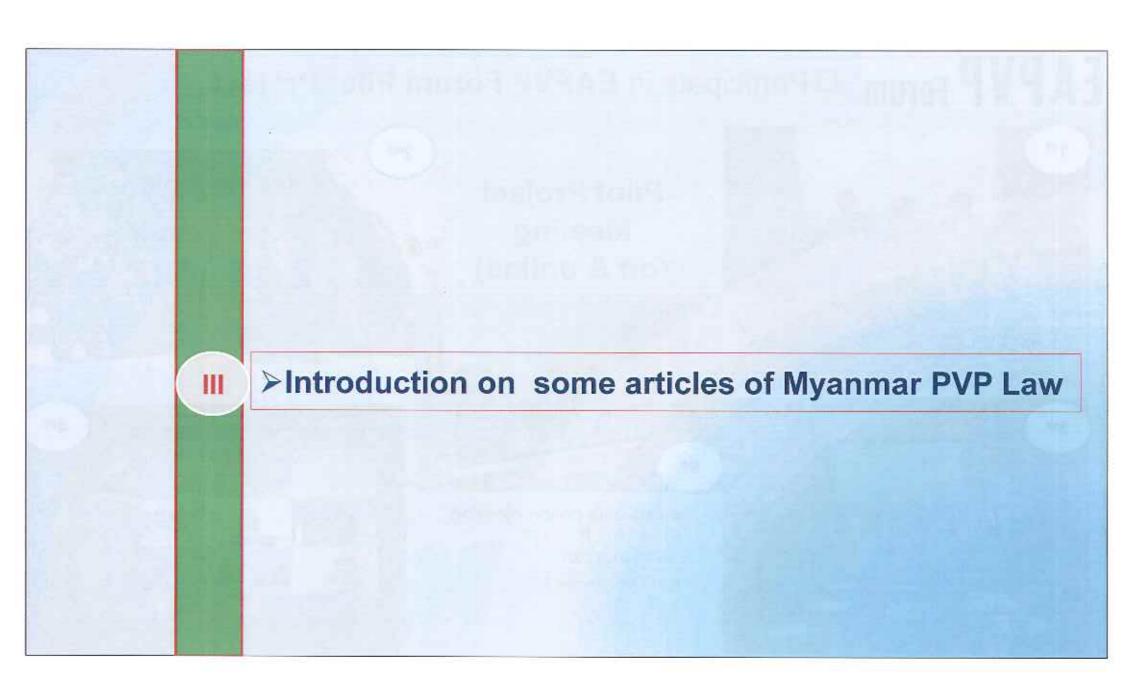
Pilot Project Meeting (off & online)



e-pvp asia online meeting 8th 15 16 December 2021







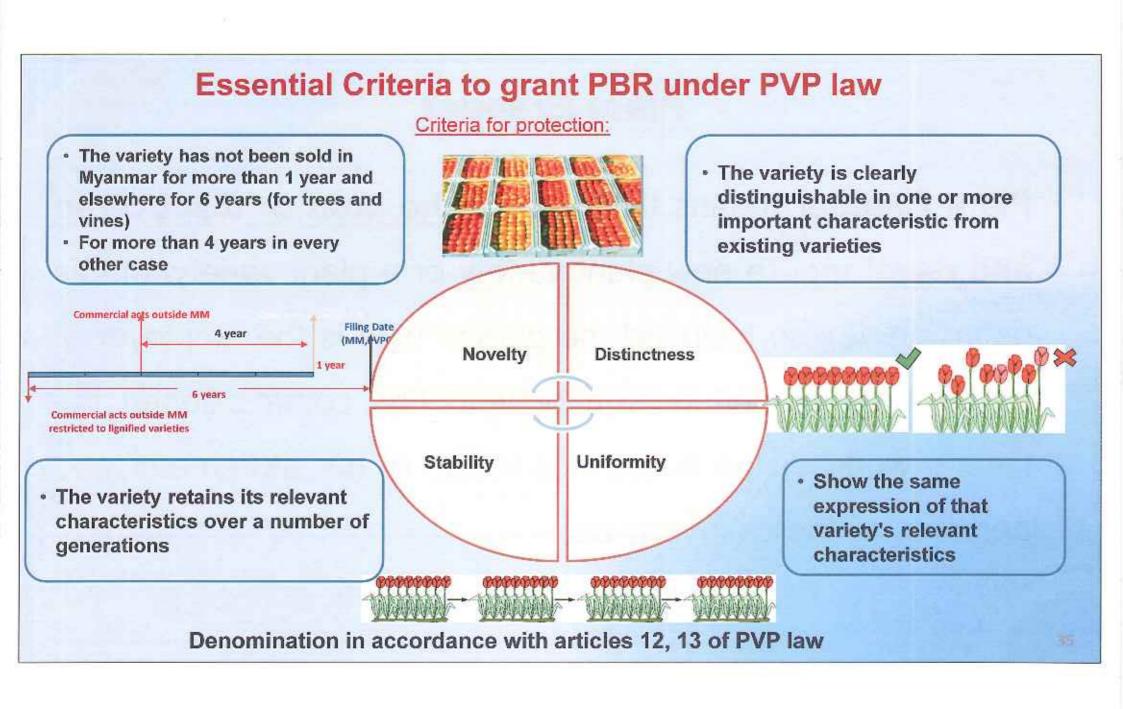
Objectives of Myanmar PVP Law (enacted at 24.09.2019)

- >to protect the rights of plant breeders;
- >to develop the plant breeding activity;
- ➤ to promote local and foreign investment in the plant breeding activity;
- ➤ to support the development of the national economy through utilization of new plant varieties for production.

The essential requirements to protect as New Plant Variety

The breeder's right shall be granted where the proposed variety for granting of breeder's right is completed with

- ❖new
- uniform
- stable and
- appropriate denomination in accordance with existing law



Plant Breeder

 Plant Breeder means the person who bred or discovered and developed a new plant variety or a plant variety. In this definition, it also included the person who is the employer of the aforementioned person or who has commissioned the latter's work, or the successor in title of the aforementioned persons, as the case may be;

A person who can apply for Breeder's Right

This Law shall be applied to grant the plant breeder right to

- (a) Myanmar nationals;
- (b) foreigners who have permanently residence in under existing Law and their organizations and
- (c) nationals from foreign countries and intergovernmental organizations which have entered into agreements on new plant variety protection with Myanmar and foreigners who have permanent residence in those countries and their organizations.

Scope of the Breeder's Right

The following acts in respect of the propagating material of the protected variety shall require the authorization of the breeder:

- > production or reproduction,
- >conditioning for the purpose of propagation,
- >offering for sale,
- >Exporting to local and foreign markets,
- > importing,
- > storing for the activities of above

Right of Priority

shall enjoy the right of priority for a period of twelve months from the day after the date of filing of the first application if he/she applies a subsequent application for the same new plant variety after applying the right of protection in any foreign country or intergovernmental organization which has entered into agreements on plant variety protection with Myanmar;

Provisional Right

The plant breeder shall enjoy provisional protection to safeguard the interests of the breeder during the period between the publication of the application by the Central Committee and the grant of that right.

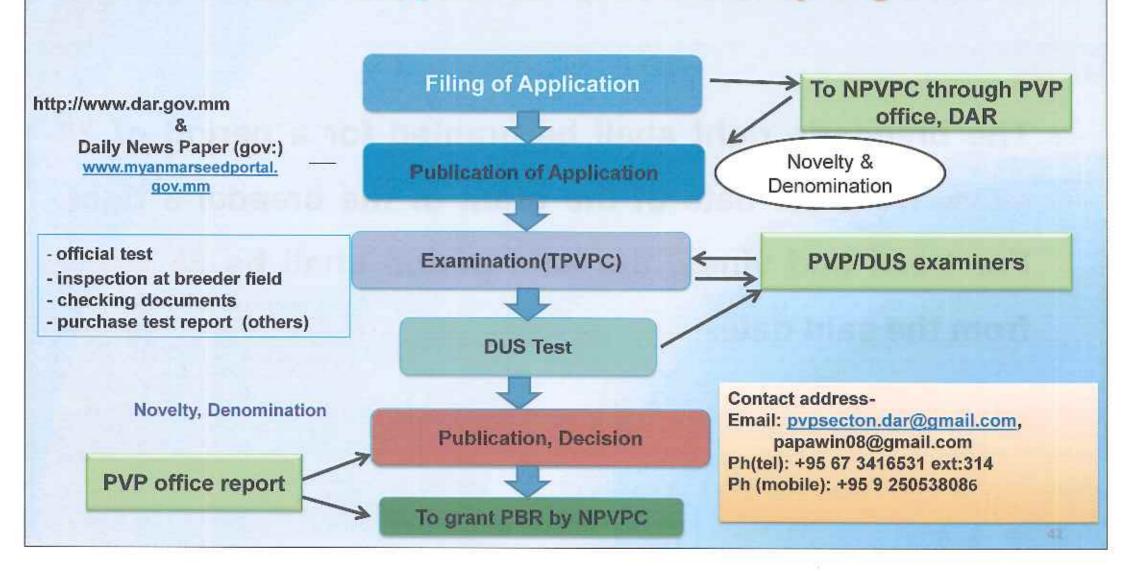
Exceptions to the Breeder's Right

- · (i) acts done privately and for non-commercial purposes;
- · (ii) acts done for experimental purposes and
- (iii) acts done for the purpose of breeding other varieties, and, except where the
 provisions of section 26 apply, acts referred to in sections 23, 24 and 25 in respect of
 such other varieties.
- Farmers shall not be considered that they infringe the breeder's right, if they use, for
 propagating purposes, on their own holdings, only for their home consumption, the
 product of the harvest which they have obtained by planting, on their own holdings,
 the protected variety or a variety covered by sub-section (a) or (b) of section 26 of this
 Law.
- Varieties of fruits, ornamentals, vegetables and forest plants are excluded from the exception under sub-section (b).

Duration of the Breeder's Right

The breeder's right shall be granted for a period of 20 years from the date of the grant of the breeder's right.
 For trees and vines, the said period shall be 25 years from the said date.

Procedure for application of new variety to get BR









NPVPC & TPVPC Meetings Photo Record





Conducting DUS Testing on some applied varieties, (total 18 varieties) Total Number of Breeder Right Grant (8 varieties)

Official growing test

Blackgram

1.Mape Yezin-7



At DAR

Rice

- 1. De You- 8
- 2. De You -12
- De You 16







Document test (from Vietnam)

Asparagus-bean

Akari 111 (NAMGANG)



National Center for Plant Variety Testing central South Vietnam

Purchase test report (from Korea)

Strawberry

- 1. Muha
- 2. Goseul

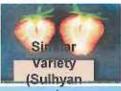
Avocado

1. Tamoeout Baby













Breeder field test



ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော် အမျိုးသားအပင်မျိုးသစ်အကာအကွယ်ပေးရေးဆိုင်ရာဗဟိုကော်မတီ

ရက်စွဲ -၁၁ - ၆ ၂၁၂၁

အပင်မျိုးသစ်ကို ကာကွယ်ခွင့်ရရှိရေးအတွက် အပင်မျိုးမွေးမြူသူ၏ ရဝိုင်ခွင့် အခွင့်အရေးဆိုင်ရာ အသိအမှတ်ပြုလက်မှတ်

အသိအမှတ်ပြုလက်မှတ် အမှတ်စဉ် - ၄

အပင်မျိုးသစ်အကာအကွယ်ပေးရေးဥပဒေ (၂၀၁၉) အရ အပင်မျိုးသစ်ကို ကာကွယ်ခွင့်ရရှိရေးအတွက် အပင်မျိုးမွေးမြူသူ၏ ရပိုင်ခွင့် အခွင့်အရေးအား

(ကျေးလက်ဒေသဖွံ့ဖြိုးမှစီမံခန့်ခွဲရေး၊ ကိုရီးယားသမ္မတနိုင်ငံ)

စတော်<mark>ဘယ်ရီသီး</mark>နှံ၊ မူဟ(Muha) မျိုးအား

ကာ<mark>ကွယ်ခ</mark>ုင့် (<mark>၂၀) နှစ်</mark>ကို (သ-၆ ၂၃) ၁ ရက်နေ့မှစတင်၍ ပေးအပ်လိုက်သည်။

ome

5888

အမျိုးသားအပင်မျိုးသစ်အကာအကွယ်ပေးရေးဆိုင်ရာဗဟိုကော်မတီ စိုက်ပျိုးရေးမွေးမြူရေးနှင့်ဆည်မြောင်းဝန်ကြီးဌာန



ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော် အမျိုးသားအပင်မျိုးသစ်အကာအကွယ်ပေးရေးဆိုင်ရာဗဟိုကော်မတီ

ရက်ရှဲ - ၁၀ - န်-၂၀၂၁

အပင်မျိုးသစ်ကို ကာကွယ်ခွင့်ရရှိရေးအတွက် အပင်မျိုးမွေးမြူသူ၏

ရပိုင်ခွင့် အခွင့်အရေးဆိုင်ရာ အသိအမှတ်ပြုလက်မှတ်

အသိအမှတ်ပြုလက်မှတ် အမှတ်စဉ် - ၃

အပင်မျိုးသစ်အကာအကွယ်ပေးရေးဥပဒေ (၂၀၁၉) အရ အပင်မျိုးသစ်ကို ကာကွယ်ခွင့်ရရှိရေးအတွက် အပင်မျိုးမွေးမြူသူ၏ ရပိုင်ခွင့် အခွင့်အရေးဆား

(ကျေးလက်ဒေသဖွံ့ဖြိုးမှုစီမံခန့်ခွဲရေး၊ ကိုရီးယားသမ္မတနိုင်ငံ)

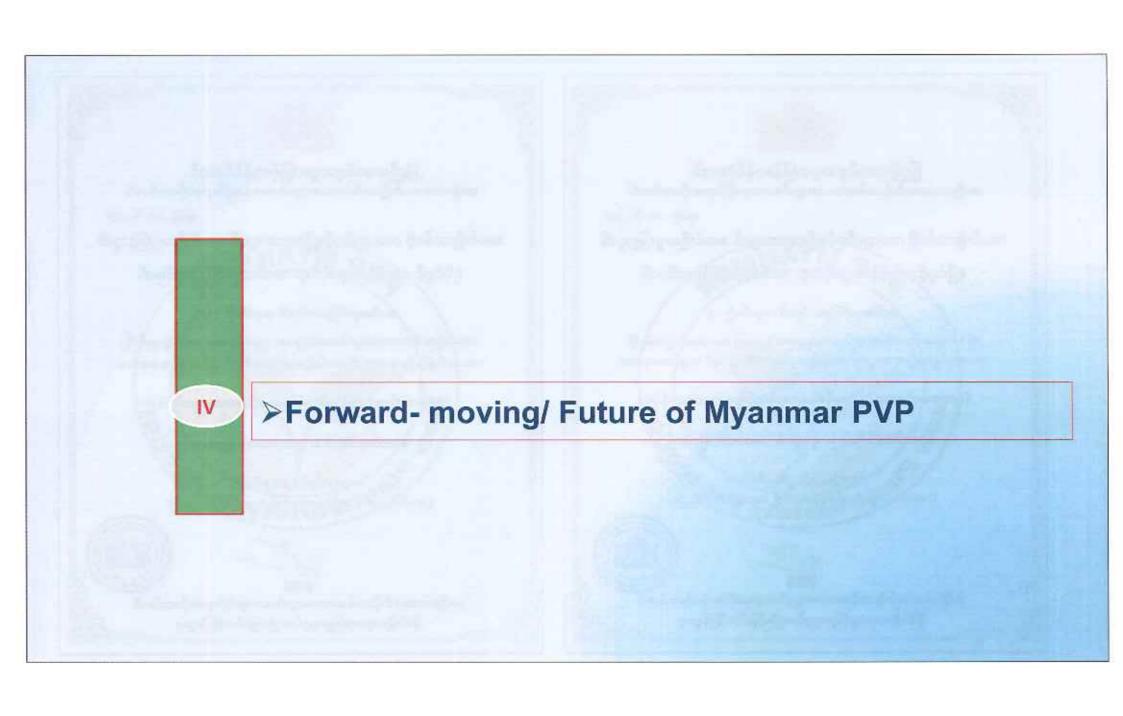
ဓေတာ်ဘ<mark>ယ်ရှိသီ</mark>းနှံ၊ ဂိုဆူးလ် (Goseul) မျိုးအသ

တာက<mark>ွယ်ခွင့် (၂၀) နှစ</mark>်ကို (၁၀ - ၂၀(၈) ရက်နေ့မှစတင်၍ ပေးအပ်လိုက်သည်။

acoc.

5832

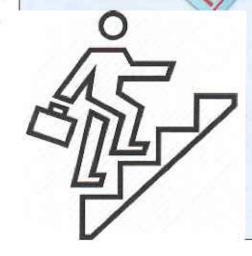
အမျိုးသားအပင်မျိုးသစ်အကာအကွယ်ပေးရေးဆိုင်ရာဗဟိုကော်မတီ စိုက်ပျိုးရေး၊မွေးဖြူရေးနှင့်ဆည်ဖြောင်းဝန်ကြီးဌာန



Work Flow Future PVP of Myanmar

eg. DUS Test PVP activities







To establish harmonize **UPOV PVP system & UPOV** member

Weakness



Having Transition period in policy No internal readiness (law enforcement ,R&R, N/TPVPC duty and function)

PVP Law enforcem ent Poor HR in PVP technical & administrati ve

Weak collaborat ion in the local

Low awareness on PVP system & Benefits of UPOV mem:

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

Threat



"-' Thinking on seed prize and end product benefit (unstable trade of Agri: product & poor food processing technology)

Deep channel to easily accept new improved varieties instead of planting of old / traditional varieties, indigenous & technology

No clear in PPP Seed Business model

No clear cut knowledge on seed, PVP, GI, PGR regulatory frame work and its' use & among some stakeholder

UPOV Membership fee Sustained Government support needed

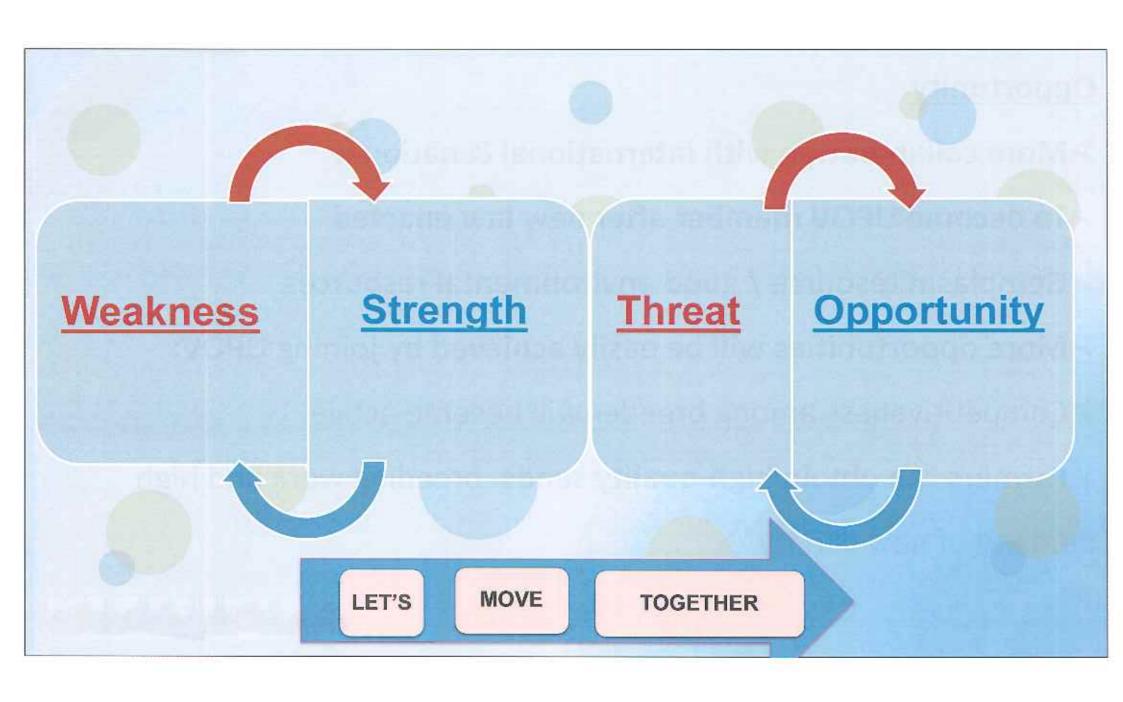
Too take a time for internal procedure especially with COVID -19New normal style

Opportunity

- >More collaboration with international & national
- >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





Thank You



