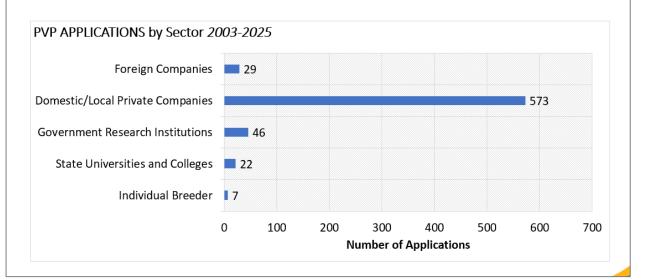
III. PVP Statistics as of July 2025



SINGAPORE

PVP Regime in Singapore



1 July 2004

Singapore became

2014

July 014

- Commencement of PVP Act in Singapore
- 15 plant genera and species available for protection

 Singapore became a member of the UPOV

30 July

2004

 Protection extended to all plant genera and species

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Recent Developments in PVP

Change in submission method for PVP application from December 2023:





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Challenges



Limited land resources resulting in a low level of local agricultural activity and corresponding low volume of PVP applications.

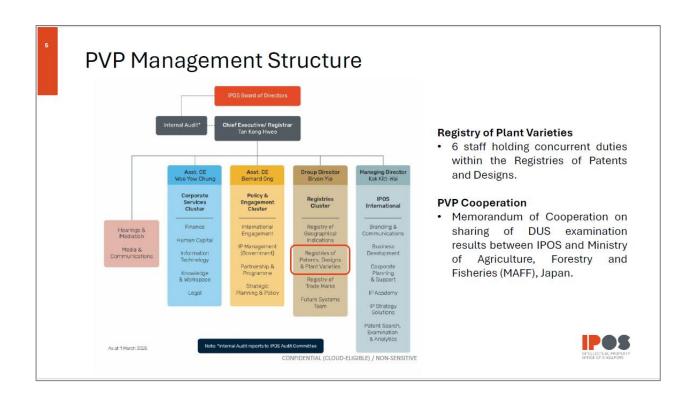


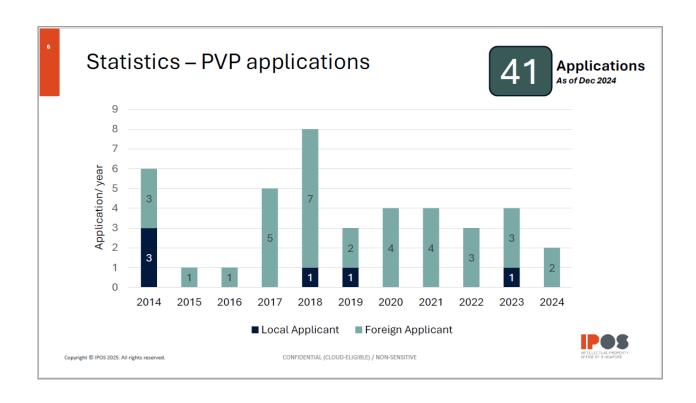
Maintaining a cost effective PVP regime and system to support low volume of PVP applications.

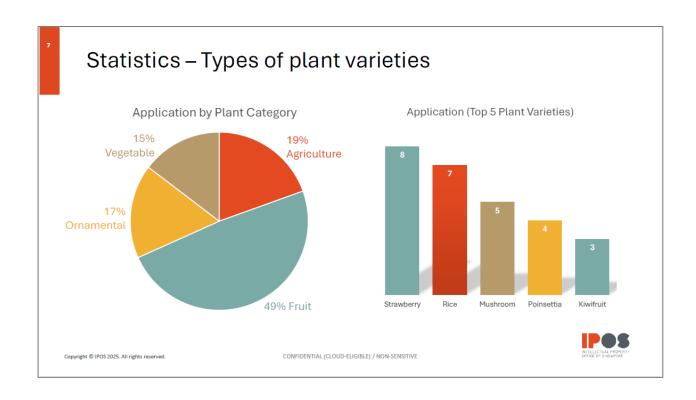
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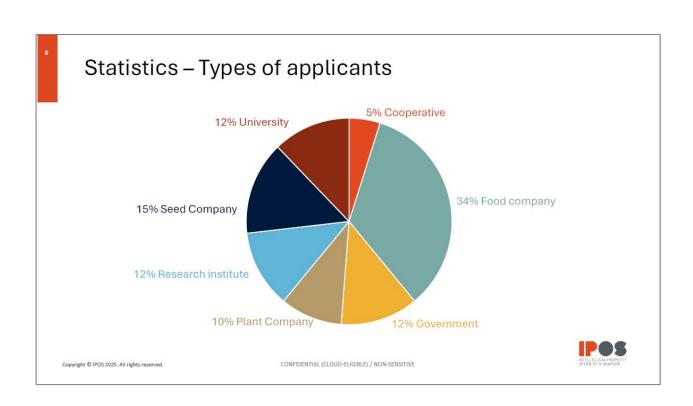
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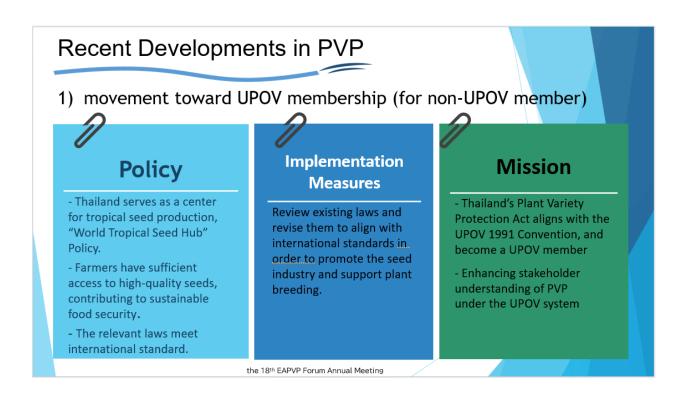


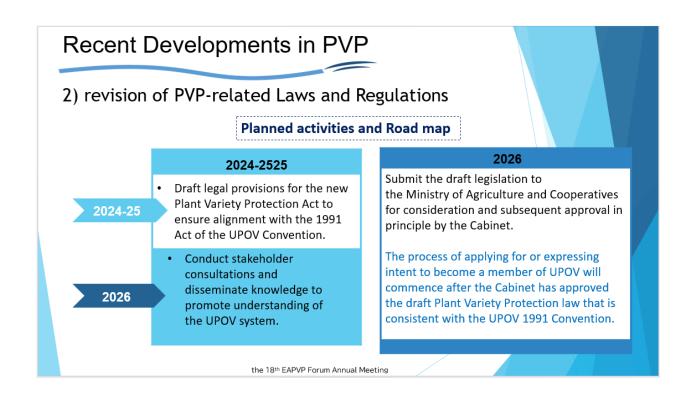




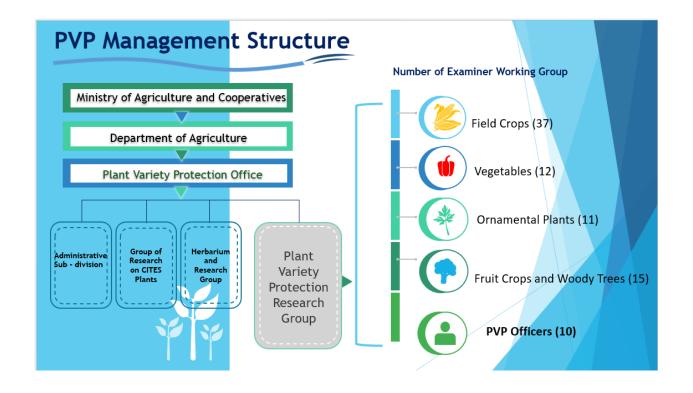


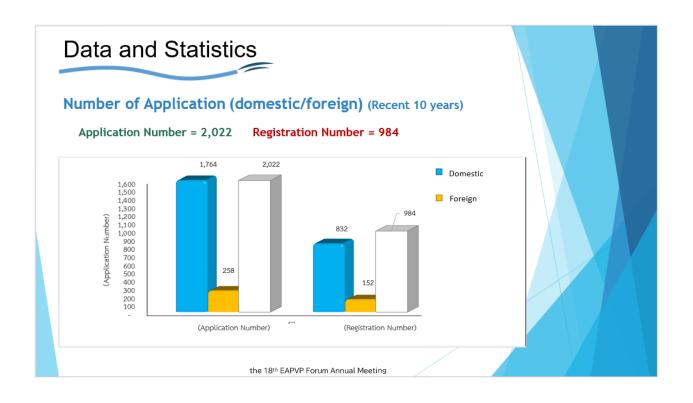
THAILAND

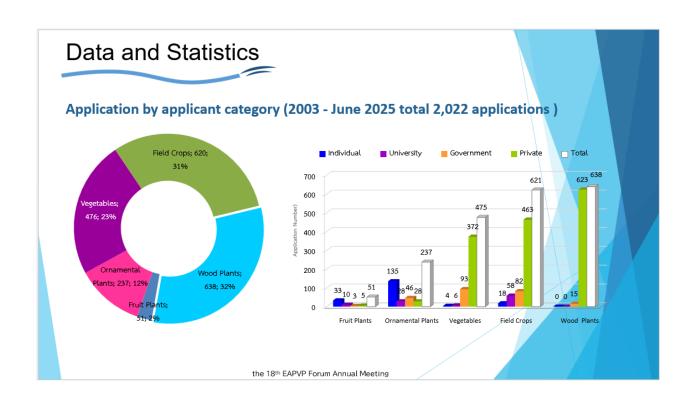




Recent Developments in PVP 3) challenges and countermeasures How to address them? What are your country's challenges? Cleary understanding in-deep knowledge of the Organizing meetings/seminars/workshops, both in public requirements details under the UPOV1991 Convention. and focus groups, on the UPOV 1991 Convention, focusing on crucial issues such as the scope of breeders' rights, farmers' privileges, essentially derived varieties (EDV), Thailand's Plant Variety Protection law covers many and suggestions for amending the law, with English-Thai types of plants, which makes legal amendments interpretation. complex. The process takes time and requires Invite experts in intellectual property law and biodiversity specialized knowledge in intellectual property law to participate in the legal amendment process. and biodiversity conservation. the 18th EAPVP Forum Annual Meeting







VIET NAM

How did Viet Nam become UPOV member?

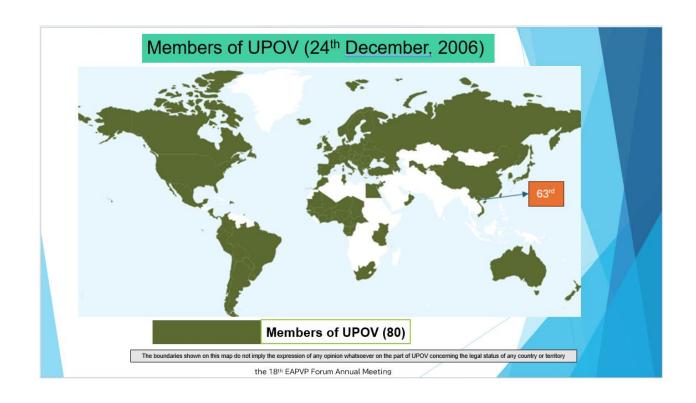
2 main stages

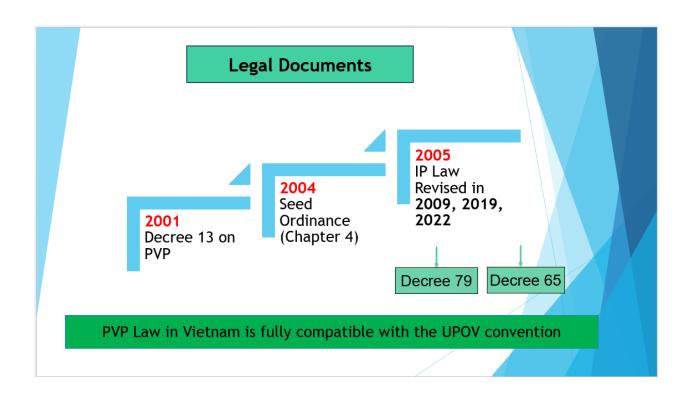
1995 - 2000: Research on PVP

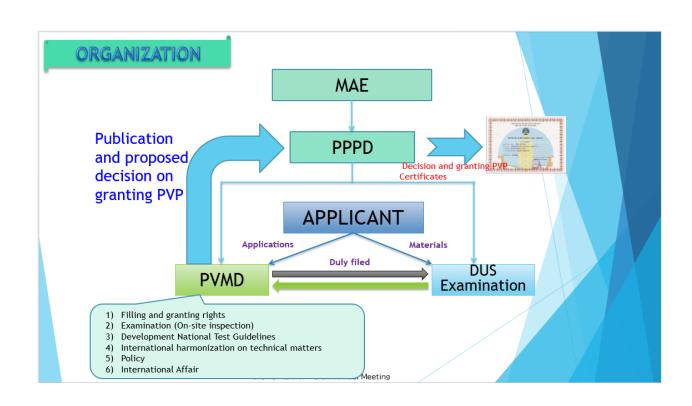
- Government officials and staffs were sent abroad for training on PVP.
- Experts from countries with experience in PVP, as well as legal advisors from UPOV, were invited for consultation and knowledge sharing.

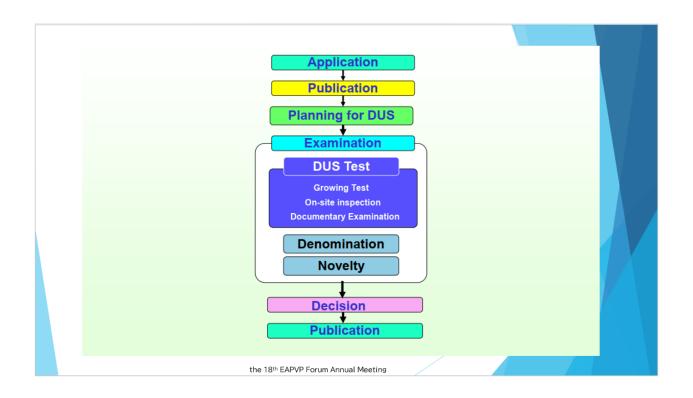
2000 – 2006: Establish a national PVP system and join UPOV

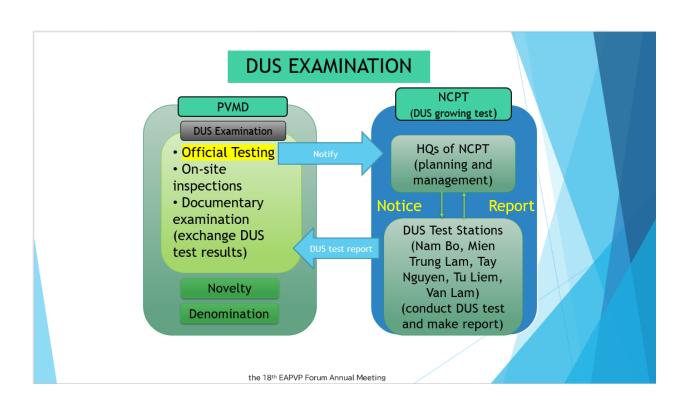
- Establish PVPO, set up DUS testing system.
- In 2005, Vietnam's IP Law was in force and Viet Nam became a member of UPOV on 24th December 2006.

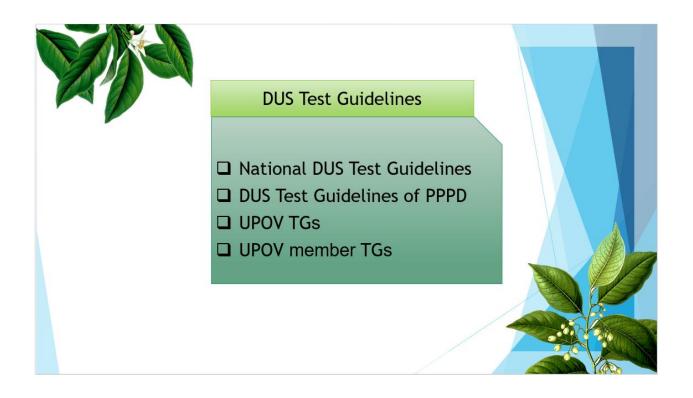


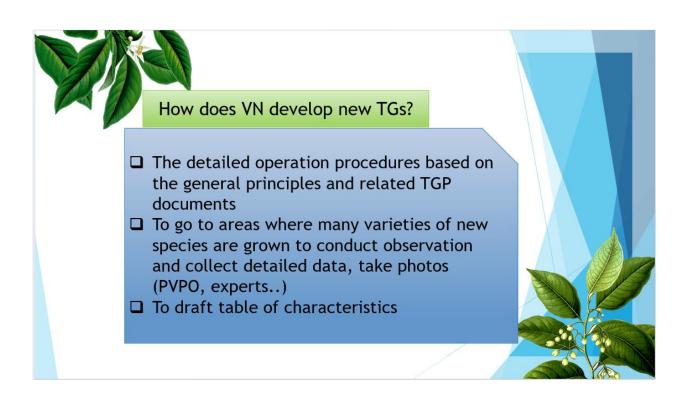




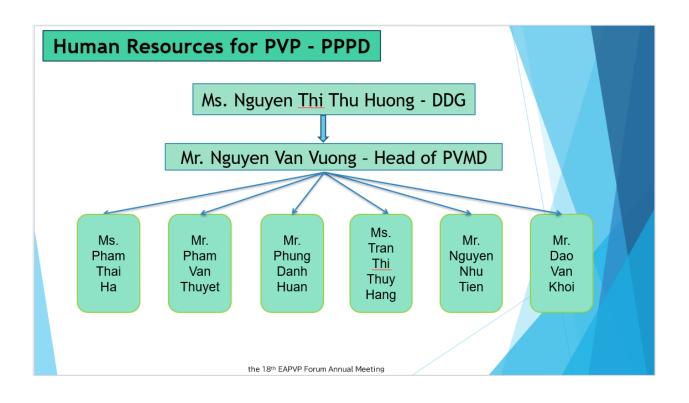






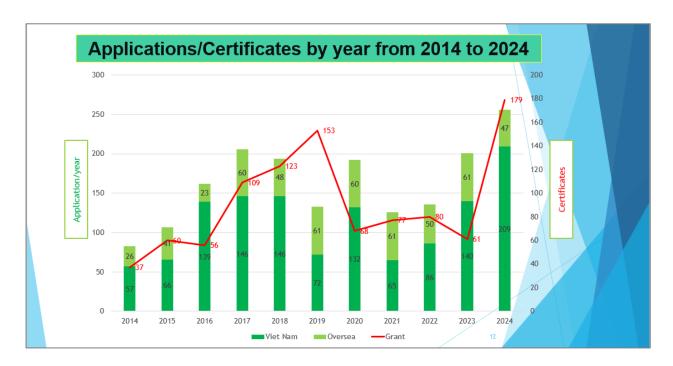


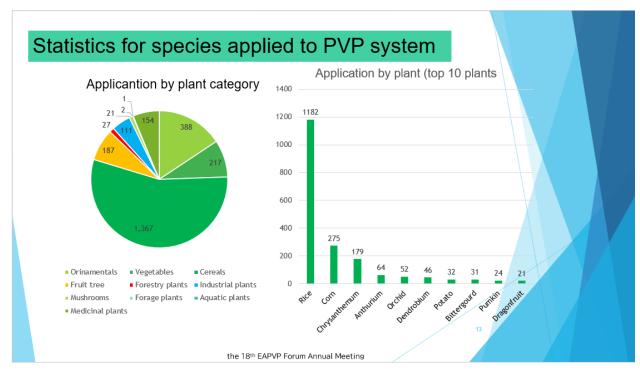


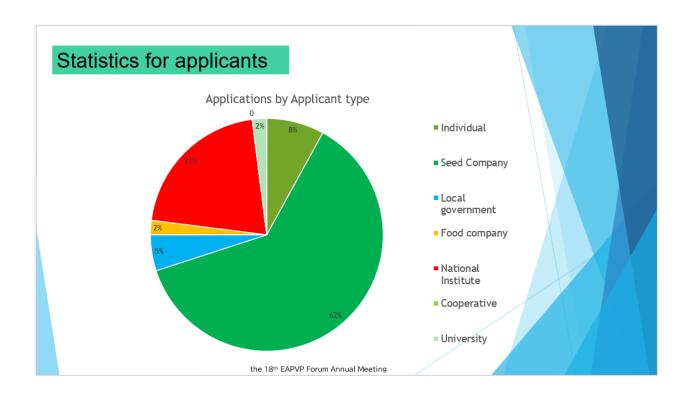


Human Resources for PVP - NCPT

- National Center For Plant Testing: 28 DUS Testers
 - + 10 Msc
 - + 8 Bachelors
 - + The rest are technical workers (10)







Proposal of Cooperation Activity

Proposal of Cooperation Activity

- Capacity Building on DUS Testing for PVP Officers and stakeholders
- Development of National Test Guidelines for new genus and species

Expected outcome of the proposed program

- Enhance technical knowledge and practical skills of PVP officers and relevant stakeholders in conducting DUS testing.
- Strengthen capacity of national institutions to implement and manage DUS testing efficiently and consistently.
 - Release of DUS Test Guidelines for 5 new genus or species.

the 18th EAPVP Forum Annual Meeting

[Annex IV follows]

Annex IV

LIST OF COOPERATION ACTIVITIES IN 2025-2026

The cooperation activities in 2025-2026 were proposed by Forum members. As agreed in the 16th Annual Meeting in 2023 in Vientiane, Lao PDR, these proposals were submitted by two months before the 18th Annual Meeting.

The cooperation activities need to be in line with the Common Direction of the 10-Year Strategic Plan of the EAPVP Forum with a view to streamlining the Forum's cooperation activities toward further harmonization of the PVP system in the region. In order to maximize the effect of Member countries' efforts and available resources in progressing in line with the 10-YEAR STRATEGIC PLAN OF THE EAPVP FORUM (2018-2027), the Forum office previously consulted with some Forum members bilaterally based on the checkpoints below for assessing cooperation activity proposals submitted by member countries and accepted the revision of the proposals.

These checkpoints will increase transparency to the following description in the Rule of Procedure (EAPVPF/12/07)

The Forum's cooperation activities proposed by the members each year, which require financial support in particular, need to be in line with the Common Direction of the 10-Year Strategic Plan with a view to streamlining the Forum's cooperation activities toward further harmonization of the PVP system in East Asian region.

Checkpoints

- (1) The proposed activities are in line with establishing or promoting PVP systems consistent with the UPOV Convention.
- (2) The proposed activities address the key challenge of the proponent in progressing the Common Direction of the 10-Year Strategic Plan (i.e. joining UPOV or further PVP harmonization and cooperation)
- (3) The proposed activities do not promote implementation of systems not in line with UPOV.

The Forum is invited to consider and adopt following cooperation activities.

The cooperation activities will be conducted within the limits of the EAPVP Forum budget.

1. Cambodia

- 1-1. Title of program: To develop and translate for documenting the DUS examination guideline for some potential crops such as Ginger, Bottle Gourd,

 Papaya and Tobacco aligned with International UPOV guideline
- 1-2. Proposed date: January March, 2026
- 1-3. Proposed venue: General Directorate of Agriculture, Phnom Penh, Cambodia
- 1-4. Note: Subject to be implemented within budget

2. Indonesia

- 2-1-1. Title of program: Advanced Training for Indonesia PVP Examiner
- 2-1-2. Proposed date: Online: Jan 2026, On site: Feb 2026
- 2-1-3. Proposed venue: On site: KPS PVT Mojosari, East Java, Indonesia
- 2-1-4. Expected participants: experts from JP/KR/CN/VN, Director of CPVP office, PVP officers and examiners of Indonesia, plant breeders from seed companies
- 2-1-5. Note: Subject to revision in line with the long-term direction of the 10-year-strategic plan (i.e. becoming UPOV member).
- 2-2-1. Title of program: **Legal Analysis in Strengthening the Plan of Indonesia UPOV**Membership
- 2-2-2. Proposed date: Aug Dec 2025 (online and in person)
- 2-2-3. Proposed venue: On site: CPVPAP office, Indonesia
- 2-2-4. Note: Subject to clarify UPOV involvement.

3. Japan

- 3-1. Title of program: Technical training on DUS test reports
- 3-2. Proposed date: TBC
- 3-3. Proposed means: Online hosted by Japan
- 3-4. Expected target groups: PVP staff members, examiners, other related staff members and management persons of EAPVP Forum member countries
- 3-5. Note: Subject to be implemented online.

4. Lao PDR

- 4-1-1. Title of program: Workshop on DUS Testing
- 4-1-2. Proposed date: Oct-Dec 2025
- 4-1-3. Proposed venue: Lao PDR
- 4-1-4. Expected participants: PVP staff, relevant stakeholders, public and private sectors, breeders
- 4-1-5. Note: Subject to revision in line with the long-term direction of the 10-year-strategic plan (i.e. becoming UPOV member) without duplication among Program 4-1, 4-2 and 4-3.
- 4-2-1. Title of program: Establishing PVP database and creating DUS testing guidelines for Lao PDR
- 4-2-2. Proposed date: Jan-Mar 2026
- 4-2-3. Proposed venue: Lao PDR
- 4-2-4. Expected participants: PVP staff, relevant sectors, potential testing centers
- 4-2-5. Note: Subject to revision in line with the long-term direction of the 10-year-strategic plan (i.e. becoming UPOV member) without duplication among Program 4-1, 4-2 and 4-3.

- 4-3-1. Title of program: Raising awareness of Laos's PVP, update on legislation
- 4-3-2. Proposed date: Apr-May 2026
- 4-3-3. Proposed venue: Lao PDR
- 4-3-4. Expected participants: PVP staff, relevant stakeholders, public and private sectors
- 4-3-5. Note: Subject to clarify plan details, including identification of target stakeholders. To be conducted in next fiscal year.
- 4-4-1. Title of program: Workshop on PVP administration, DUS examination
- 4-4-2. Proposed date: May 2026
- 4-4-3. Proposed venue: Lao PDR
- 4-4-4. Expected participants: PVP staff, relevant stakeholders, public and private sectors
- 4-4-5. Note: Subject to revision in line with the long-term direction of the 10-year-strategic plan (i.e. becoming UPOV member) without duplication among Program 4-1, 4-2 and 4-3. To be conducted in next fiscal year.

5. Myanmar

- 5-1-1 Title of program: Enhancing PVP Awareness and UPOV Compliance through Multi-Stakeholder Workshops
- 5-1-2 Proposed date: November 2025
- 5-1-3 Proposed venue: Department of Agricultural Research (DAR), Ministry of Agriculture, Livestock and Irrigation, Naypyitaw, Myanmar
- 5-1-4 Expected participants: 100 participants including the representatives from EAPVP forum members
- 5-1-5. Note: Subject to online participation due to budget and administrative constraints if applicable workshop is to be held in a member country and explaining target audience.
- 5-2-1. Title of program: Participating of Myanmar PVP examiners (who are the members of Technical and Sub- technical Plant Variety Protection Committee of Myanmar) in DUS test training, Development of National TG trainings and Database trainings to be held among the region
- 5-2-2 Proposed date: 2025-2026
- 5-2-3. Proposed venue: Any EAPVP forum member country
- 5-2-4. Expected participants: 2 or 3 participants from Myanmar in one time
- 5-2-5. Note: Subject to online participation due to budget and administrative constraints if applicable training is to be held in a member country.

6. Philippines

6-1 Title of program: **Development Of Plant-Specific Distinctness**, **Uniformity and Stability** (DUS) Test Guidelines, Calibration Manual, and Variety Database

- 6-2 Proposed date: November 26-27, 2025,
- 6-3 Proposed venue: Philippines (hybrid)
- 6-4 Expected participants: PVP Examiners, PVP Technical Staff, IT personnel involved in database developments, observers and representatives from forum member countries. Resource Person for each topic from EAPVP member countries will be invited to attend inperson
- 6-5. Note: Subject to revision in line with the long-term direction of the 10-year-strategic plan (i.e. becoming UPOV member). Online participation in trainings held in other member countries is possible

7. Thailand

- 7-1-1 Title of program: Stakeholder Consultation Meetings on the Protection of New Plant Varieties under the UPOV System
- 7-1-2 Proposed date: Sep-Oct, 2025
- 7-1-3 Proposed venue: Ubon Ratchathani and Khon Kaen, Thailand
- 7-1-4 Expected participants: Fifty people are divided into five groups, with each group consisting of 10 people from the following categories: Government agencies, Private sector representatives, Academic institutions, Farmers, Media representatives
- 7-1-5. Note: Subject to be implemented within budget
- 7-2-1 Title of program: Legal consultation among the DOA working group on the amendment of the Plant Varieties Protection Act B.E. 2542 (1999) and UPOV officer(s)
- 7-2-2 Proposed date: Sep-Oct, 2025,
- 7-2-3 Proposed venue: Bangkok, Thailand
- 7-2-4 Expected participants: Twenty people from DOA working group on the amendment of the Plant Varieties Protection Act B.E. 2542 (1999) and UPOV officer(s)
- 7-2-5. Note: Subject to be conducted in cooperation with UPOV

8. Viet Nam

- 8-1-1 Title of program: Capacity Building on DUS Testing for PVP Officers and stakeholders
- 8-1-2 Proposed date: TBC, 2026
- 8-1-3 Proposed venue: TBC
- 8-1-4 Expected participants: PVP officers and relevant stakeholders in Viet Nam
- Participants from other countries
- Experts from Japan, other countries in the region, and UPOV member countries
- 8-1-5. Note: Subject to be implemented within budget
- 8-2-1 Title of program: Development of National Test Guideline for new genera and species

8-2-2 Proposed date: TBC, 2026

8-2-3 Proposed venue: TBC

8-2-4 Expected participants: • PVP officers and relevant stakeholders in Viet Nam

· Participants from other countries

 \cdot Experts from Japan, other countries in the region, and UPOV

member countries

8-2-5. Note: UPOV's confirmation is needed. Subject to be implemented within budget depending on the level of need.

[Annex V follows]

Annex V

DISCUSSION SESSION IN GROUPS - RESULTS OF THE DISCUSSION

Topic: "Challenges and opportunities of PVP harmonization and cooperation"

Group 1

Topic to Harway / collabante 1) DUS + Guidelines + terminology + Regulation + reference varieties) message + atrategy communication) Corpacity building. (4) to Assistance to Formes / breaters Challenge a different level PUP in each catryes. 2) Language 3) Cost of registration Apprach 1) 3rd party link urov -xcocky 2 Regional Cooperation (ASEAN) 3) Experime shalf + training_courses + database +statistis record
New model + Virtual meeting

Topic to Harmony / collaborate

- 1) DUS + Guidelines + terminology +Regulation + reference Varieties
- 2) Message + strategy communication
- ③Capacity building
- (4) Assistance to farmers / breeders

Challenge

- 1)Different level PVP in each countries
- 2 Language
- (3)Cost of registration

Approach

- (1)3rd party link UPOV → country
- (2) Regional cooperation (ASEAN)
- ③Experience sharing + training courses + database + statistics record
 - new model + virtual meeting

I harmonization of DUS standard/will protect PBR. 2 harmonization among the region on genetic material exchange region on genetic material exchange 3. allows farmers to improved voi eties 4. capacity building to ensure the compliance to any decisions has compliance to any decisions the compliance to any decisions the compliance to any decisions wanaging the pup with the intendral standard formation the pup with the intendral standard better varieties 7. use of fechnology to shorten the time of apprication examination.

Opportunity

- 1.Harmonization of DUS standard / will protect PBR
- 2.Harmonization among the region on genetic material exchange
- 3. Allows farmers to access improved varieties
- 4.Capacity building to ensure compliance to any decisions
 - To make sure common implementation which adoption in meetings.
- 5.To share knowledge technical on managing the PVP with the international standard.
- 6.Promote breeding level. Breeders can afford better varieties
- 7.Use of high technology to shorten the time of application, examination.

Opportunity (2)

- g. Harmonization / standards create trust, transporang, fairness, win-win for all stakeholdes and facilitate accessibility / predictability.
- Q. Cooperation through exchange of idea, knowledge, filling the gaps, upscaling such as molecular techiques, disease resistant, characteristics
- 8.Harmonization / standards create trust, transparency, fairness, win-win for all stakeholders and facilitate accessibility / predictability
- 9.Cooperation through exchange of idea, knowledge, filling the gaps, upscaling such as molecular techniques, disease resistant, characteristics

Challenges. 1. How to build trust? How to acknowledge 1. Different country, different system 2. Technical challenges in application of testing-phenotyping and genotyps: 3. Government policy and regulation which do not support PVP development a in agriculture development policy. 3. How to build, DUS testing standard. - Bio technique in DUS 4. Difference national interest such as formas/breeders benefits.

Challenges

1.How to build trust? How to acknowledge the trust?

Different country, different system

- 2.Technical challenges in application of testingphenotyping and genotyping
- Government policy and regulation which do not support PVP development in agriculture development policy.
- 2. How to build same DUS testing standard. --- Biotechnique in DUS
- 4.Difference national interest such as farmers / breeders benefits.

Challenges:

Lack of PVP awareness

Increasing demand on quality, cleaner Anew products

Increasing population

Shortage of facilities / intrastructure to improve & increase yield of plants

limited knowledge to improve product

high cost / increasing cost of production

competition from other countries

Qn1

Challenges:

- Lack of PVP awareness
- Increasing demand on quality, cleaner & new products
- Increasing population
- Shortage of facilities / infrastructure to improve & increase yield of plants
- Limited knowledge to improve product
- High cost / increasing cost of production
- Competition from other countries
- Different regulations in different markets / countries
- Climate change / natural disasters / drought

Opportunities of PVP/Roleof PVP

- climate change / natural disasters / drought

1. Research & development > develop new varieties

- different regulations in different markets/countries

- 2. DVP as a form of investment
 - better seeds / yield from a smaller area of land
 - Ly drought tolerant, resistant to disease/pests
 - Ly attract breeders who are willing to invest and bring new technology
- 3. Harmonisation of regulations & laws in different markets
- 4. Increase aparity building for stareholders
- 5. Development of common PVP platform

Opportunities of PVP / Role of PVP

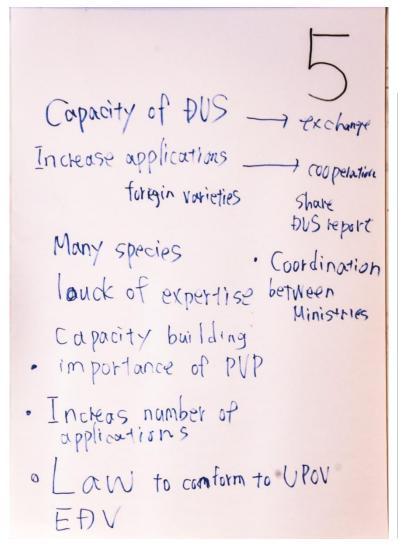
- Research & development → develop new varieties
- 2. PVP as a form of investment
- ightarrow better seeds / yield from a smaller area of land
- → drought tolerant, resistant to disease / pests
- → attract breeders who are willing to invest and bring new technology
- 3. Harmonization of PVP regulations & laws in different markets
- 4. Increase capacity building for stakeholders
- 5. Development of common PVP platform

PVP Challenges & () PP. /1
Challenge	Oppertunity
FSS.	Benefit sharing
Unfair Competition	Ly foreign material
Awarenes II Streetables	Steelthy competition
Inconsistant Policies	Bilutent & maltilutural Compensation at all lands
NBT-DUS	Coopension of lands Shaking Technical
Compacity -> Technical & 1	Importan encharge
Ly Opposition	FSS->deprinition
Regional Hermozietien	Grabal market Access
Local varieties protected PCD famer Emp	food leavity
PGR famer Emp La Conservation EDV	New Technologies for DUS Testing

Challenge	Opportunity
G	,
FSS ²	Benefit sharing
Unfair Competitions	→Access to GR
→International & Local	→foreign material
Awareness III	→Healthy competition
→Among all stakeholders	→more business
Inconsistent Policies	Bilateral & multilateral
→Regis. & PVP	Cooperation at all levels
$NBT \to DUS$	→Admin.
Capacity \rightarrow Technical & admin	→Technical
\downarrow	→Information exchange
DUS	→facility
Opposition	→Awareness
Opposition	$FSS \to definition$
Regional cooperation	Better seed quality
Harmonization	Global market Access
$\text{Local varieties} \rightarrow \text{not protected}$	Food security
Farmer Empowerment	

New Technologies for DUS Testing

 $\mathsf{PGR} \to \mathsf{conservation} \; \mathsf{EDV}$



Capacity of DUS → exchange Increase applications → cooperation Foreign varieties Share DUS report Many species Coordination Lack of expertise between Ministers Capacity building · Importance of PVP · Increase number of applications · Law to conform to UPOV **EDV**

[End of Annex V and of document]