

# **Digitalization to enhance cooperation in UPOV: e-PVP Asia**

**East Asia Plant Variety Protection Forum  
International Seminar on Plant Variety Protection  
Japan (by electronic means)  
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1. Digitalization in UPOV
2. What is e-PVP Asia?
3. e-PVP Asia Application tool  
e-PVP Administration Module

# Digitalization in UPOV

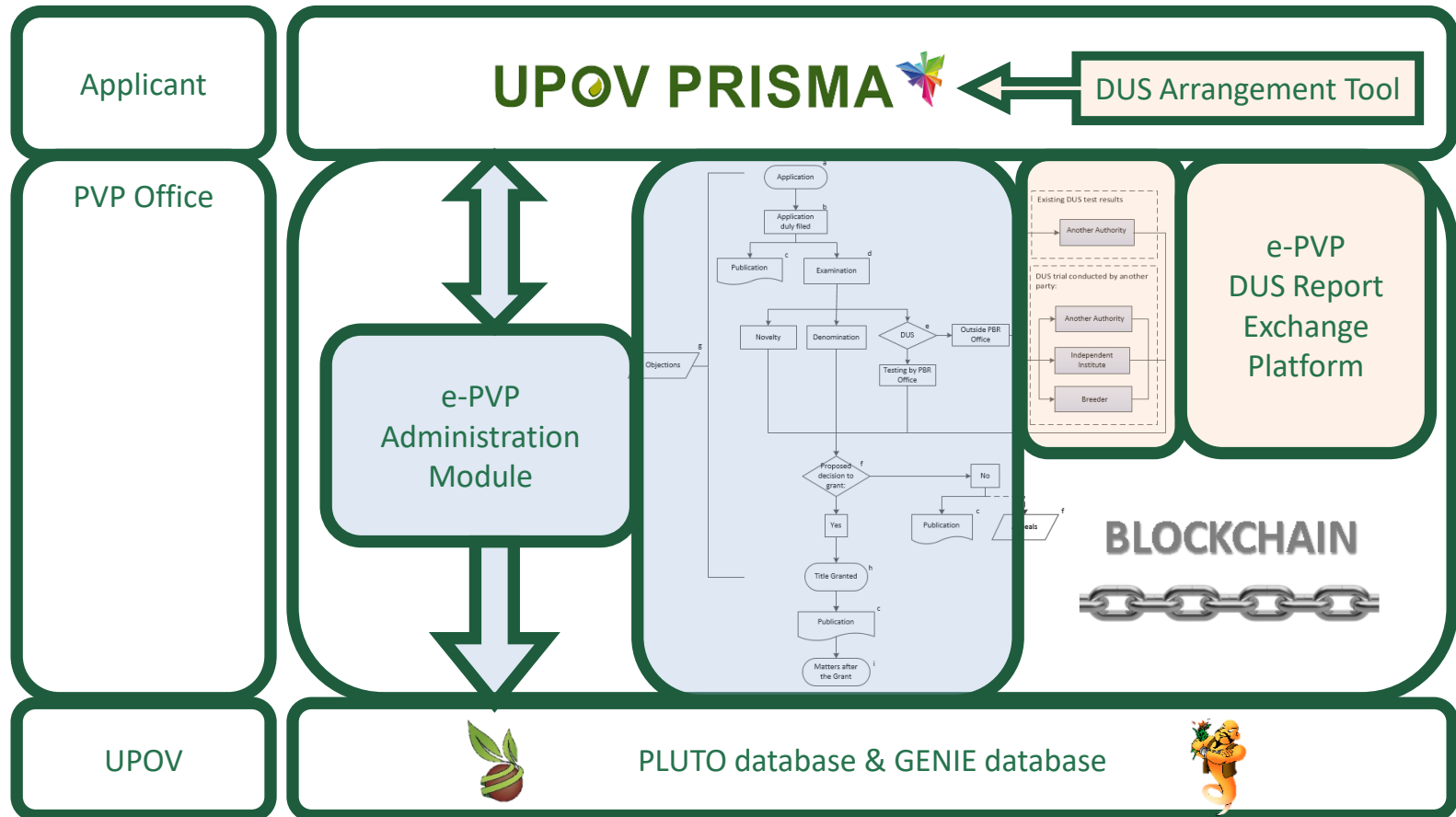
- **Current UPOV tools**
  - ✓ UPOV PRISMA – online application
  - ✓ GENIE – database for DUS examination (cooperation/experience/DUS-TG)
  - ✓ PLUTO – PVP database (applications/titles)
- **Opportunities for digitalization**
  1. Streamline the task of UPOV members by a package of compatible IT tools
  2. Easy to apply in multiple countries online
  3. Facilitate cooperation in DUS examination

# Digitalization in UPOV

## Facilitating cooperation in DUS examination

- a) Exchanging existing DUS reports for:
  - (1) **UPOV members to post and receive existing DUS reports** and arrange payment
  - (2) **PVP applicants to request use of existing DUS reports** and make payments
- b) **Tool to provide information on cooperation in DUS examination** between UPOV members **to PVP applicants** in a user-friendly form, using information contained in the GENIE database

# e-PVP



# Digitalization in UPOV

## Function and features of e-PVP

1. **Administration Module** - web based management tool to assist PVP office tasks (application/examination/grant of titles/after grant)
2. **Support DUS cooperation between UPOV members** (DUS report exchange module/DUS Arrangement Tool)
3. **A single online combined Application Form applicable** for multi UPOV members as a basis of UPOV PRISMA
4. **Blockchain technology** – Secure, flexible adaptation to each member's existing system

2. Sup

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# EAPVP Pilot Project to develop e-PVP Asia

- ✓ Proposal by Japan and Viet Nam adopted at the 11<sup>th</sup> EAPVP Forum (2018)

## ***“Pilot project for building regional harmonized PVP mechanism”***

*“Develop a model procedure from filing to the grant of plant breeders’ right as a foundation of regional harmonized mechanism in line with the UPOV Convention”*

- *a unified application form*
- *harmonized DUS test proceedings with Test Guidelines*
- *mutual acceptance of the DUS Test results and administrative proceedings*

## ✓ Timeline of the PP

- Phase 1 (2018 – 2021): Develop and test a model platform
- Phase 2 (from 2022): Operational (officially receive applications)



# 10-Year Strategic Plan

- adopted at the 11<sup>th</sup> EAPVPF annual meeting -

## *Long-term Direction*

*Establish effective PVP systems consistent with the UPOV Convention among Forum members towards **achieving all Forum members' membership of UPOV**, as a basis for **further PVP harmonization and cooperation in the region** in order to contribute to developing sustainable agriculture and achieving food security*

## *Objective 1:*

*Strengthen national PVP system consistent with the UPOV Convention to encourage investment in plant breeding*

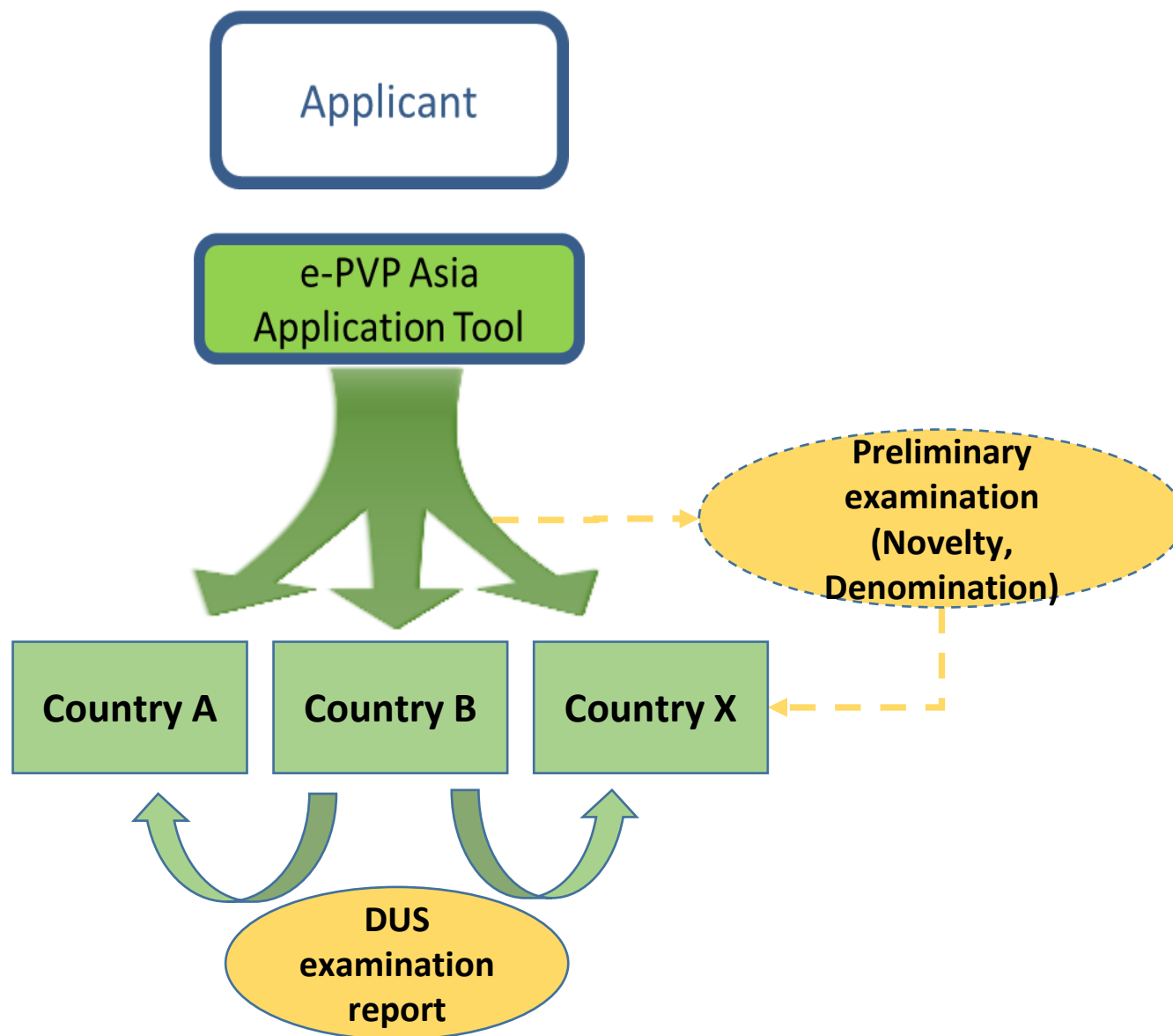
## *Objective 2:*

*Contribute to support achievement of UPOV membership, **to facilitate harmonization of application and examination procedures**, and to **enhance efficient PVP cooperation in the region***

# Who can participate in the Pilot Project (PP) and e-PVP Asia after launch?

- ✓ **E-PVP Asia Participating countries** must be a UPOV member
- ✓ **PP Participating countries** must be UPOV members:
  - Japan and Viet Nam
- ✓ **PP Provisional Participating countries:**
  - EAPVPF countries which have initiated the procedure to become a UPOV member
  - Brunei Darussalam, Malaysia, Myanmar
- ✓ **PP Observer countries:**
  - Other EAPVPF countries
- ✓ **PP Resource partner:**
  - UPOV Office

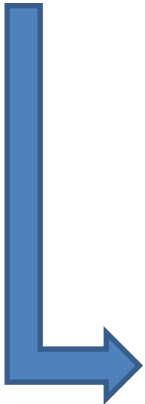
# e-PVP Asia – a platform



# Cooperation between e-PVP Asia participating countries (1)

- Efficient applications to multiple countries -

A single online combined Application Form (AF)



*For applicants:*

- **Easy to apply in multiple countries**
- **Save time and costs for application**

# Cooperation between e-PVP Asia participating countries (2)

## - Cooperation in DUS examination -

1. Accept/provide DUS test reports according to the agreed e-PVP Asia arrangements (ToU for participating countries and users)
2. Participating countries to make best endeavors to enhance cooperation in DUS examination (MOC)
3. DUS Arrangement Tool to enable for applicants to view DUS cooperation arrangement when filing applications
4. e-PVP DUS Report Exchange Platform



*For applicants:*

- **Minimize duplication** of DUS testing

*For Participating countries:*

- Regional DUS cooperation to **address capacity gaps** (e.g. human resources, infrastructure, agro-climatic conditions for growing trials)

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e-PVP Administration Module

- e-PVP Asia Application tool (applicant interface)
- Demonstration of e-PVP Administration Module

# ✓ Developments of Prototype of e-PVP Asia

## e-PVP Asia Application Tool (Applicant interface) – Complete the combined AF

### 1. Application Form

- APPLICANTS**
- REPRESENTATIVE(S)/AGENT(S)
- BREEDER(S)
- CORRESPONDENCE ADDRESS
- DENOMINATION
- OTHER APPLICATIONS
- PRIORITY CLAIM
- NOVELTY
- TECHNICAL EXAMINATION

### 2. Technical Questionnaire

- BREEDING SCHEME
- VARIETY CHARACTERISTICS
- VARIETY COMPARISON
- PLANT MATERIAL INFORMATION
- ADDITIONAL INFORMATION

### 3. Declaration And Signature

- DECLARATION AND SIGNATURE
- ATTACHMENTS

Export

Submit

Save

Cancel

### APPLICANT

Applicant(s) 1(a) \*\*

Name (Alphabetical notation) 1 (a)(i) \*\*

Name (Japanese notation) \*\*

Address (Alphabetical notation) \*\*

Address (Japanese notation) \*\*

Telephone No. 1(a)(iii) \*\*

Fax No. 1(a)(iv) \*\*

National Residence Identification Card (NRIC) No./ Company Reg. No. \*

E-mail address 1(a)(v) \*\*

Nationality 1(b) \*\*

Residence (State) 1(c) \*\*

Registered offices for legal entities (State) 1(d) \*\*

Please state the legal characteristics of juridical person, if the applicant is a juridical person of foreign national. \*\*

A procedural representative/agent/proxy will be used: 1(e) \*\*

☐ Yes 1(e)

☐ No 1(e)

Where the application is filed jointly, and if there is an agreement provided for in article 23, paragraph 2 of the plant variety protection and seed act, or a code of civil law, as applied mutatis mutandis pursuant to article 264 of the civil code (act. No 89 of April 27, 1986. Please so indicate below

Where the application is filed jointly and the applicants have an agreement on the portion of their respective shares. The total sum of shares shall be 100%.


Remove

+ Add Applicant

All images shown are for illustration purpose only.




# e-PVP Asia Application Tool (Applicant interface) – View DUS arrangements

 PVP office procedure

Welcome  
PERALS1  
PERALS1lastName



English

 Logout

Proposed Variety Denomination  
Breeder's Variety Reference  
Own reference


DEMO PP Strawberry


## TECHNICAL EXAMINATION

The technical examination of the variety 9(a) \*\*

### DUS Examination

in		S
	BRUNEI DARUSSALAM	▼
	JAPAN	▼
	MALAYSIA	▼
	MYANMAR	▼
	VIET NAM	▼
	AUSTRALIA	▼

 Add other UPOV member

 Optimize using Dart

I/We declare that the material provided with the first application is representative of the variety.  
Authorization is hereby given to the Authority to exchange with the competent authority.  
In case where the candidate variety is seed- or spawn- propagated \*\*  
Please indicate the method for submitting to the National Center for Seeds at

☐ Courier \*\*

## DUS Arrangement Tool (DART)

Sort by: Select ▼

Filter by: Conducting Authority ▼

### OPTION 1

Total number of DUS Examinations: 1

Total Cost: \$ 0



### OPTION 2

Total number of DUS Examinations: 2

Total Cost: \$ 558



- e-PVP Asia Application tool (applicant interface)
- **Demonstration of e-PVP Administration Module**

e-PVP Administration Module (PVP Office interface)

– Overview of applications (1)

Search box

Sort  
Application status ↑











PVP Office Dashboard

Search 🔍


International Reference Number	Botanical Name	Breeder's reference	Proposed Denomination	Application Number	Date of first commercialization	Submission date	Application status ↑	Action
XU_30202500232	Lactuca sativa L.	TEST170	Ardinas		22/06/2020	05/07/2021	×	View ⌵
XU_3020200001242	Fragaria L.	test 2 NL	KIMBERLY		22/06/2020	05/07/2021	● ● ● ●	View ⌵
XU_3020200001500	Lactuca sativa L.	TEST 1567	Ardinas	767888432	22/06/2020	05/07/2021	×	View ⌵
XU_3020200002552	Cucumis sativus L.	REF XXX333	BARALBO		22/06/2020	05/07/2021	×	View ⌵
XU_302020001242	Dianthus L.	test 234	WP04 ESTHER		22/06/2020	05/07/2021	×	View ⌵


# e-PVP Administration Module (PVP Office interface)


## – Overview of applications (2)

PVP Office Dashboard								
Search 								
International Reference Number	Botanical Name	Breeder's reference	Proposed Denomination	Application Number	Date of first commercialization	Submission date	Application status 	Action
XU_30202500232	Lactuca sativa L.	TEST170	Ardinas		22/06/2020	05/07/2021		<a href="#">View</a> 
XU_3020200001242	Fragaria L.	test 2 NL	KIMBERLY		22/06/2020	05/07/2021		<a href="#">View</a> 
XU_3020200001500	Lactuca sativa L.	TEST 1567	Ardinas	767888432	22/06/2020	05/07/2021		<a href="#">View</a> 
XU_3020200002552	Cucumis sativus L.	REF XXX333	BARALBO		22/06/2020	05/07/2021		
XU_302020001242	Dianthus L.	test 234	WP04 ESTHER		22/06/2020	05/07/2021		


Application status









REJECTED





## e-PVP Administration Module (PVP Office interface) – View each application

### PVP Office Dashboard

Search 

International Reference Number	Botanical Name	Breeder
XU_30202500232	Lactuca sativa L.	TEST1
XU_30202000001242	Fragaria L.	test 2 M
XU_30202000001500	Lactuca sativa L.	TEST 1
XU_30202000002552	Cucumis sativus L.	REF XX
XU_302020001242	Dianthus L.	test 23

### Details

International Reference Number

UPOV PRISMA


XU\_30202000001242

Application status

Application Number

Filing Date

Novelty Satisfied



Fees Paid

Proposed Denomination

KIMBERLY


Priority

05/07/2021

Formality requirements

Botanical Name


Fragaria L.

Application status 

Action


<

View




...

View




<

View




<

View



<

View



View

## e-PVP Administration Module (PVP Office interface) – View history

[Hide history](#)

**The application was refused**  
31/08/2021

**A request for revision was submitted.**  
31/08/2021

**Reasons**  
The technical questionnaire is incomplete  
Other

**Comments**  
Test

**Attachments**  
[Download](#)

**The novelty requirements were checked.**  
18/08/2021

**The application was received.**  
18/08/2021

**The application was submitted.**  
06/08/2021

**THANK YOU FOR YOUR ATTENTION**