

#### **Meeting on Electronic Applications**

Fifth meeting Geneva, March 17, 2025

#### **EAM/5/3**

Original: English Date: July 1 2025

#### **REPORT**

#### prepared by the Office of the Union

Disclaimer: this document does not represent UPOV policies or guidance

#### WELCOME AND OPENING

- 1. The fifth meeting on electronic applications (EAM/5 meeting), which was held as a virtual meeting, was opened and chaired by Mr. Martin Ekvad, Director of Legal Affairs of UPOV, who welcomed the participants.
- 2. The list of participants is reproduced in Annex I to this report.

#### APPROVAL OF THE AGENDA

3. The meeting adopted the draft agenda as proposed in document UPOV/EAM/5/1.

#### **DEVELOPMENTS CONCERNING UPOV E-PVP**

- 4. The meeting considered document UPOV/EAM/5/2 "Development concerning UPOV e-PVP" and received a presentation by the Office of the Union on:
  - The current and future use of UPOV e-PVP.
  - Developments concerning UPOV PRISMA since the fourth Meeting on Electronic Applications ("EAM/4 meeting").
  - Developments concerning UPOV e-PVP Admin module since the fourth Meeting on Electronic Applications ("EAM/4 meeting").
  - Developments concerning UPOV e-PVP DUS Exchange module since the fourth Meeting on Electronic Applications ("EAM/4 meeting").
- 5. A copy of the presentation is reproduced in Annex II to this document.

#### USE OF UPOV E-PVP

6. The EAM noted the information on the use of UPOV e-PVP Admin module, UPOV e-PVP DUS Exchange module and UPOV PRISMA as of February 28,2025, as reported in Annex II of this report.

#### **UPOV PRISMA**

Launch of Version 2.10- Phase 2 (November 2024)

- 7. The EAM noted that the second part of UPOV PRISMA Version 2.10 was deployed on November 18, 2024, with the following updates:
  - Addition of 9 new crops for China
  - · Bulk invoice

8. The EAM noted the ongoing work with Japan and Armenia as follows:

#### Japan

- Addition of 144 crops using national technical questionnaires.
- Testing the machine-to-machine communication between UPOV PRISMA and VIPS (the national Japanese system).

#### **Armenia**

- Implementation of Armenian as a navigation language.
- o Armenia is interested to use UPOV PRISMA for PBR and NLI.
- Pilot crops: Pepper, Tomato, Rose.

#### Launch of Version 3.0 (December 2025)

- 9. The EAM noted that UPOV PRISMA Version 3.0 will be deployed in 2025, with the following updates:
  - Move to the cloud
  - New user interfaces
  - Improvement of user management
  - Improvement of bulk upload
  - · Accessibility of ??
  - · Morocco: 1 new crop (tomato rootstocks)
  - Serbia: 1 new crop (sunflower)
  - Türkiye: national listing

#### Other developments

#### Improvement of user-friendliness of UPOV PRISMA

- 10. The EAM noted that the results of the user management workshops held on December 4 and 7, 2023, are being implemented and will be evaluated in June 2025. The new version will simplify user roles in Applicant and Agent, providing flexibility to assign permissions to either of these roles.
- 11. The EAM noted that the participating authorities have been requested to provide information about their national fees and whether those fees are subsidized.
- 12. The EAM noted that during UPOV PRISMA Task Force meeting held on November 19, 2024, the Office of the Union gave an update on the developments concerning UPOV PRISMA.

#### Promotion and training

13. The EAM noted that webinars on how to make applications using UPOV PRISMA were cohosted by UPOV and members. Participation was open to the public.

Webinars	Participants	Date
How to make applications to the United States of America	56	November 25, 2024
How to make applications to Türkiye	102	November 27, 2024
How to make applications to Australia and New Zealand	52	February 17, 2025

14. The EAM noted that in February 2025, the Office of the Union requested all the participating authorities to review the current PVP Office Procedure. 20 authorities have proposed to update their PVP Office Procedure.

#### Form synchronization

15. The EAM noted the importance of maintaining up-to-date synchronization between the PVP Offices and their most recent forms. The participating authorities are invited to inform UPOV PRISMA team of changes in application forms or national technical questionnaires promptly. Moreover, PVP Offices are encouraged to verify at least annually, with UPOV PRISMA focal points, that the mentioned forms used in UPOV PRISMA are up to date.

- 16. The EAM noted that the following forms have been updated, implemented and the UPOV PRISMA users have been notified:
  - United Kingdom Application Form in December 2025
  - CPVO Application Form in January 2025
- 17. The EAM noted that the CPVO and UPOV are discussing the timelines in relation to the completion of synchronization projects, considering the available resources.
- 18. The EAM noted that fruitful discussions on the alignment of questions in forms were conducted with representatives from Morocco and China.
- 19. The EAM noted the presentation of ISF on "Harmonization of PVP application through UPOV PRISMA", including Purdy's notation and API, a copy of which is reproduced in Annex II to this document.
- 20. The EAM noted the invitation from ISF to UPOV PRISMA participating members, to inform users on UPOV PRISMA and add a link from their websites to UPOV PRISMA until the next EAM in October 2025.

#### UPOV e-PVP Administration Module

#### Developments since EAM/4

- 21. The EAM noted that as of September 30, 2024, four application data were transferred to the Admin Module in one member using UPOV PRISMA, from 3 companies for 4 different crops.
- 22. The EAM noted that on August 23, 2024, the United Kingdom signed the terms of use. The United Kingdom will be using UPOV e-PVP Customized Admin module in 2025.
- 23. The EAM noted the presentation of the United Kingdom on UPOV e-PVP Project: Customisation for the United Kingdom, a copy of which is reproduced in Annex II to this document.
- 24. The EAM noted that following the approval of the trial period for eligible authorities that are not yet UPOV members, the Office of the Union received a request from the African Regional Intellectual Property Organization (ARIPO) to begin using the Admin module, as well as UPOV PRISMA, as mandatory.

#### Future developments

- 25. The EAM noted that in 2025, Viet Nam will migrate all their data to UPOV e-PVP Admin Module.
- 26. The EAM noted that in 2025, the United Kingdom will migrate all their data to UPOV e-PVP Admin module in April 2025 and will start using the existing and customized functionalities.

#### **DUS Exchange Module**

#### UPOV e-PVP DUS Report Exchange Module Features

#### Developments since EAM/4

- 27. The EAM noted that 7 DUS reports have been exchanged between Netherlands (Kingdom of) and Viet Nam since September 30, 2024.
- 28. The EAM noted that since EAM/4, nine more UPOV members signed up to use the DUS Report Exchange Module, increasing the number of members to 13:
  - Brazil
  - Canada
  - European Union
  - Georgia
  - Ghana
  - Japan
  - Morocco
  - Netherlands (Kingdom of the)
  - New Zealand
  - Türkiye

- United Kingdom
- United States of America
- Viet Nam
- 29. The EAM noted that the actual use of the DUS Report Exchange Module is expected to increase when a new version is deployed in April 2025.

#### Future developments

30. The EAM noted that customization is needed for European Union and the United Kingdom.

#### FINANCING UPOV E-PVP

31. The EAM noted the current funding sources and the proposed strategy to sustain the support of the standard module.

#### DATE OF NEXT MEETING

32. The next meeting of the EAM was agreed to be held as a hybrid meeting on Tuesday October 21, 2025.

[Annex I follows]

#### EAM/5/3

#### ANNEXE I / ANNEX I / ANEXO I

#### LISTE DES PARTICIPANTS / LIST OF PARTICIPANTS / LISTA DE PARTICIPANTES

(dans l'ordre alphabétique des noms français des membres / in the alphabetical order of the French names of the members / por orden alfabético de los nombres en francés de los miembros)

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#### EAM/5/3 Annexe I / Annex I / Anexo I page2 / página 2

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#### EAM/5/3 Annexe I / Annex I / Anexo I page3 / página 3

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#### EAM/5/3 Annexe I / Annex I / Anexo I page4 / página 4

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Hend MADHOUR (Ms.), IT Officer
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Kasumi FALQUET (Ms.), Associate Services Support Officer

[L'annexe II suit/ Annex II follows/ Sigue el Anexo II

# Meeting on electronic applications

EAM/5

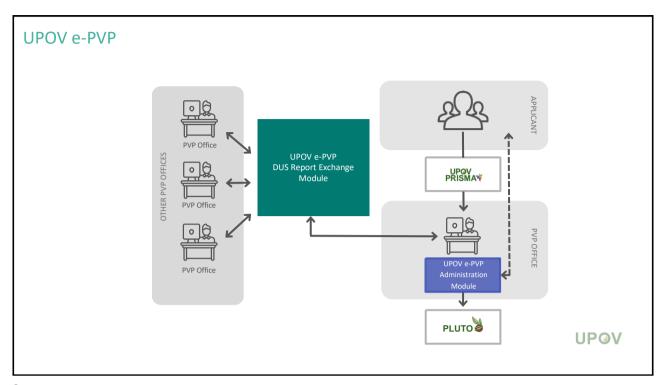
Geneva, March 17, 2025



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Document EAM/5/2
'Developments concerning UPOV
e-PVP'









## **PREVIEW**

- Use of UPOV PRISMA
- Plans 2024-2026
- Other developments

**UPOV** 

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## Use of UPOV PRISMA in 2024

Number of authorities using/committed to use UPOV PRISMA

Number of applications transferred through UPOV PRISMA

Number of authorities in which UPOV PRISMA was used to transfer application data

37 (+1)

1964 (+6%)

20 (+25%)

1. Tanzania (republic of) (since Sept.24)

1873 : 2023

16:2023

## Use of UPOV PRISMA in 2025 (as of Feb.25)

Number of authorities using/committed to use UPOV PRISMA

Number of applications transferred through UPOV **PRISMA** 

Number of active users

Number of authorities in which UPOV PRISMA was used to transfer application data

40 (+3) 259 (-27%)

Armenia (in 2025)

Ghana (as from April 2025) ARIPO (in 2025)

357 : Jan.24 to Feb.24

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## **PREVIEW**

- Use of UPOV PRISMA
- Plans 2024-2026
- Other developments

#### Plans 2024-2026

Version	When	What
Version 2.10 (second part)	November 2024	China: 9 new crops     Bulk invoice
Version 2.10 (third part)	April 2025	1. Ghana: new participating authority
Version 3.0	December 2025	<ol> <li>Move to the cloud</li> <li>New user interfaces</li> <li>Improvement of user management</li> <li>Improvement of bulk upload</li> <li>Accessibility</li> <li>Morocco: 1 new crop</li> <li>Serbia: 1 new crop</li> <li>Türkiye: national listing</li> </ol>

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## Work in progress (2025)

## Japan

- Addition of 144 crops (national TQs)
- Testing the M2M communication : UPOV PRISMA -> VIPS

#### Armenia

- Support of Armenia as navigation language
- Support of PBR and NLI
- Pilot crops: Pepper, Tomato, Rose

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## **PREVIEW**

- Use of UPOV PRISMA
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  - User-friendliness of UPOV PRISMA
  - Form synchronization/Harmonization
  - Update from breeders

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# User-friendliness of UPOV PRISMA: continuous feedback collection from the stakeholders



UPOV PRISMA Task Force meeting on November 19, 2024 Next TF meeting: May 13, 2025



Annual request to update the PVP office procedure:
20 authorities responded



Three webinars organized with Australia, New Zealand, Türkiye, United states of America

## **UPOV PRISMA Webinars series**

Webinars	Participants	Date
How to make applications to the United States of America	56	November 25, 2024
How to make applications to Türkiye	102	November 27, 2024
How to make applications to Australia and New Zealand	52	February 17, 2025

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## **PREVIEW**

- Use of UPOV PRISMA
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## Form synchronization/Harmonization



Ensure synchronization between PVP Offices and latest forms

United Kingdom - Application Form in December 2025

CPVO - Application Form in January 2025



CPVO and UPOV discussing timelines for projects



Harmonization

Fruitful discussions on the alignment of questions in forms were conducted with representatives from Morocco and China

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## **PREVIEW**

- Use of UPOV PRISMA
- Plans 2024-2025
- Other developments
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  - Form synchronization/Harmonization
  - Update from breeders



# Harmonization of PVP application through **UPOV PRISMA**, including Purdy's notation and API

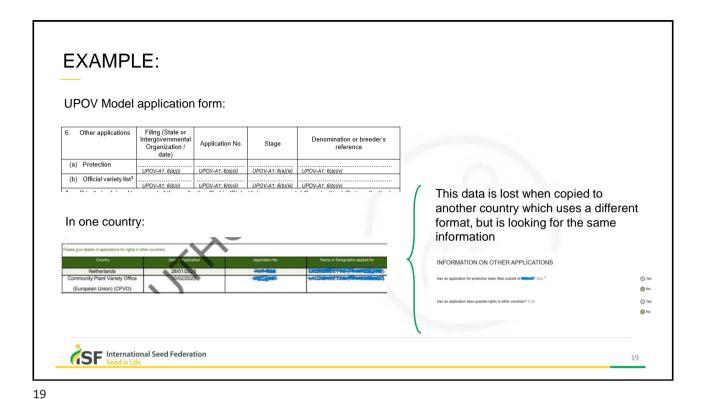
Emerson Limberger EAM/5 March 17, 2025

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#### Harmonization of PVP application through UPOV PRISMA

- UPOV PRISMA simplifies PVP applications by harmonizing
- The Purdy notation for formulas enables better database architecture
- UPOV already supplies API which are in accordance with TG and current references
- Authorities can benefit from those implementations but
  - need to support breeders by promoting the link to the tool in their respective websites
  - need to review their forms and see which answers they require. They might well receive the same
    answers when using the questions in the UPOV model application forms. Being able to copy data
    from one application to another, will give the added value for breeders to use PRISMA and will
    make the system easier to maintain and therefore cost efficient. Breeders are also familiar with
    these questions and therefore know which answers are expected.





UPOV PRISMA: Symbols, attributes and dependencies

Systematic and methodological application of the TQ
This presentation is a continuation of TWP/8/3

• Database

• Symbols

• Attributes

• Dependencies

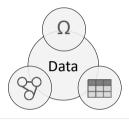
Data

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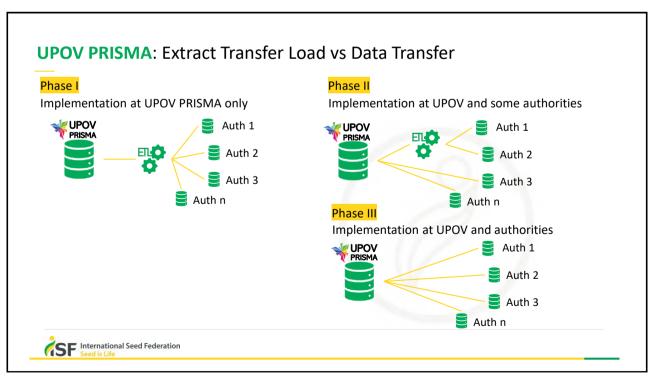
Data

#### **UPOV PRISMA**: Symbols, attributes and dependencies

- The implementation is part of UPOV PRISMA architecture enhancement
- There is no detrimental impact downstream, ie, to member states enjoying the benefits of UPOV PRISMA in its current state and not changes for users (breeders)
- There is no requirement in development from any member state who uses UPOV PRISMA as sole or alternative electronic application tool







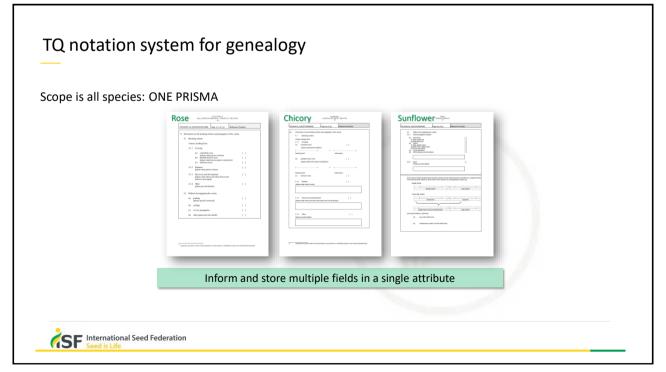
#### Functional dependency

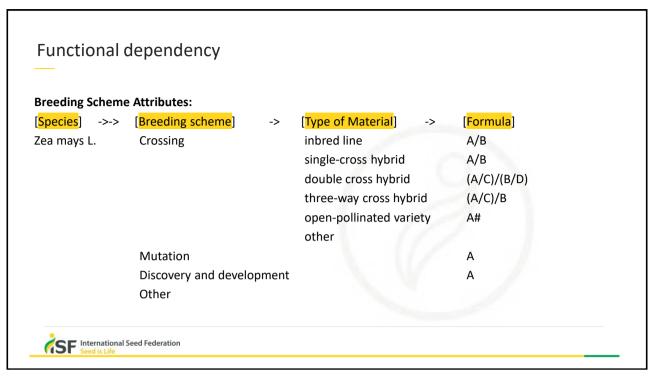
#### Interdependent attributes:

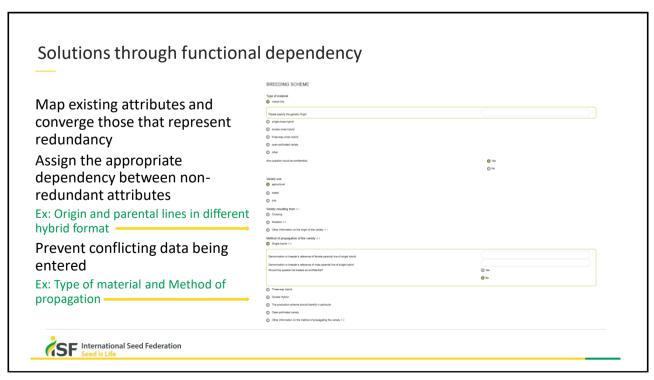
The implementation of adapted Purdy's pedigree notation enables the adoption of functional dependencies.

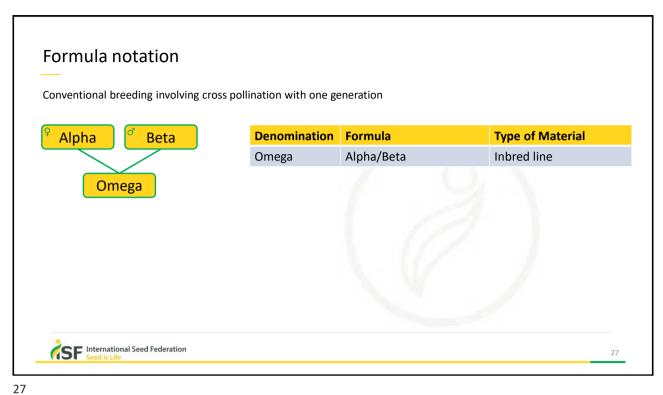
Dependencies help in organizing and normalizing databases to reduce redundancy and improve data integrity.

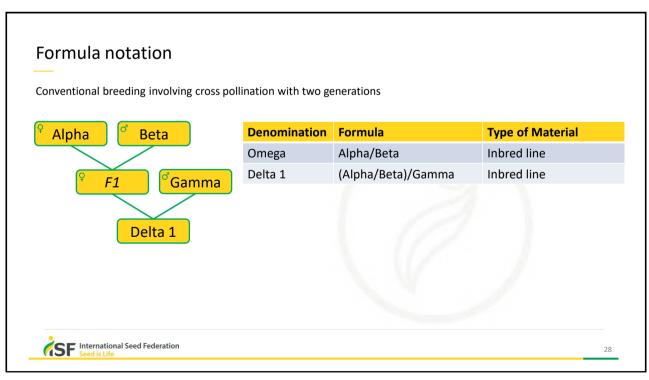


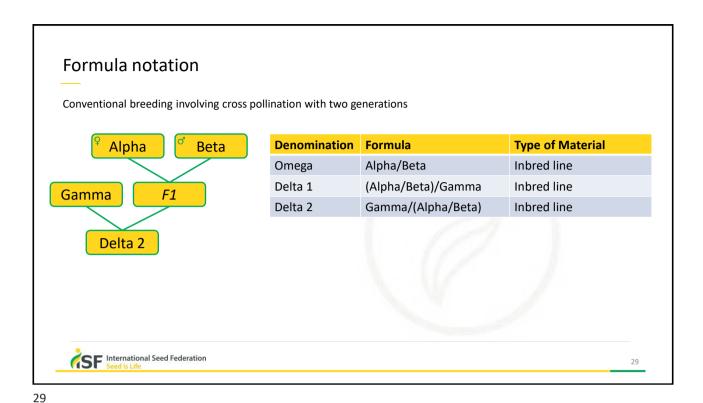


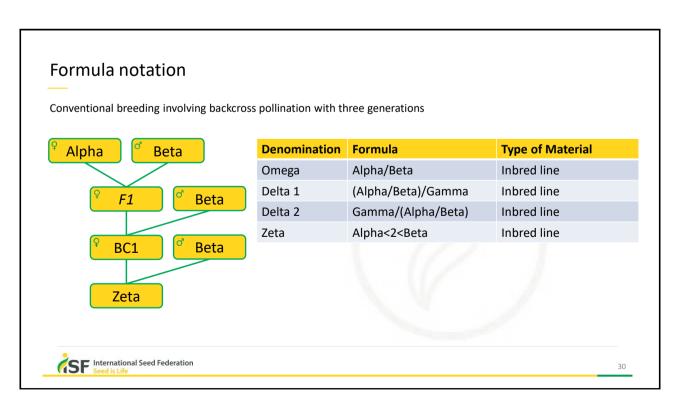


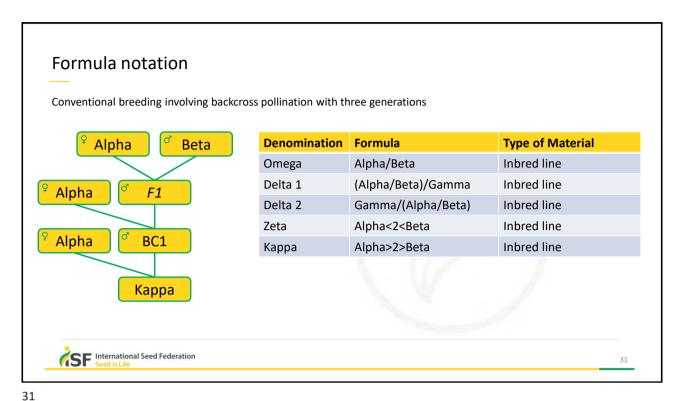


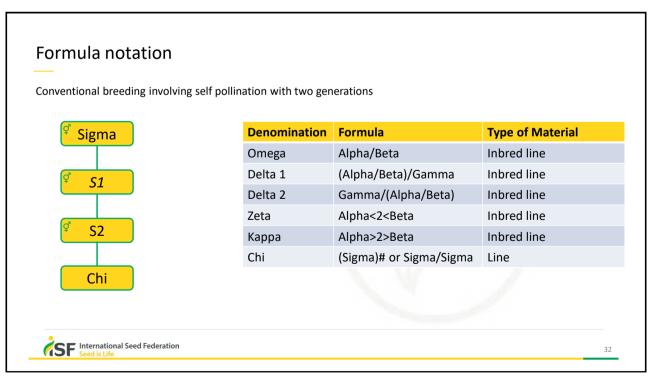


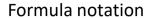












Breeding derived from non-gametic variation



Denomination	Formula	Type of Material
Omega	Alpha/Beta	Inbred line
Delta 1	(Alpha/Beta)/Gamma	Inbred line
Delta 2	Gamma/(Alpha/Beta)	Inbred line
Zeta	Alpha<2 <beta< td=""><td>Inbred line</td></beta<>	Inbred line
Карра	Alpha>2>Beta	Inbred line
Chi	(Sigma)#	Line
Psi	(Phi)\$	Inbred line



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#### Formula notation

Breeding derived from non-gametic variation



Denomination	Formula	Type of Material
Omega	Alpha/Beta	Inbred line
Delta 1	(Alpha/Beta)/Gamma	Inbred line
Delta 2	Gamma/(Alpha/Beta)	Inbred line
Zeta	Alpha<2 <beta< td=""><td>Inbred line</td></beta<>	Inbred line
Карра	Alpha>2>Beta	Inbred line
Chi	(Sigma)#	Line
Psi	(Phi)\$	Inbred line
Phi X	(Phi)!	Inbred line



"()"

#### Functional dependency mapping

#### **Breeding Scheme Attributes:**

Species	Breeding Scheme	Relationship
А	1	True
А	2	True
А	3	True
В	1	True
С	1	True



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## Symbol

**Breeding scheme Formula Notation** Cross Generation divider Self pollination

"#" Backcross: female is the recurrent parent ">>" "<<" Backcross: male is the recurrent parent "\$" Mutation

"&" Discovery and development



#### **Outcomes**

#### Formula:

- Variety Denomination = Female Parent Denomination/Male Parent Denomination
- Dependencies prevent errors in application by the user and simplify database structure and storage.
- The structure can support subsequent field fillings, or gathering data for application requirements such as DUS identification and exchange.



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#### Conclusion

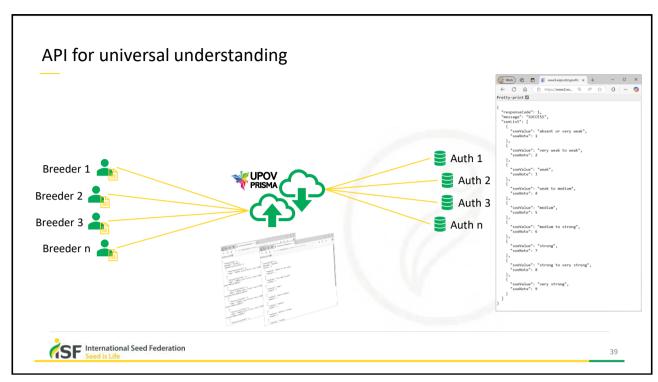
The Purdy notation for pedigree notation is a set of rules that allows for consistency in data filling for PVP applications. This document presents the symbols required to cover the different pedigree types.

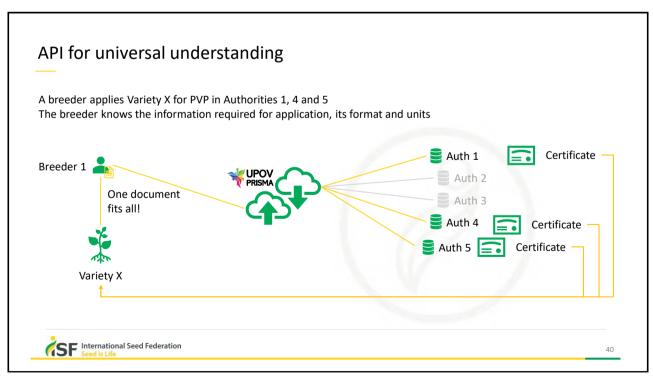
The notation is suitable for all species and existing breeding methods, but can be expended if needed.

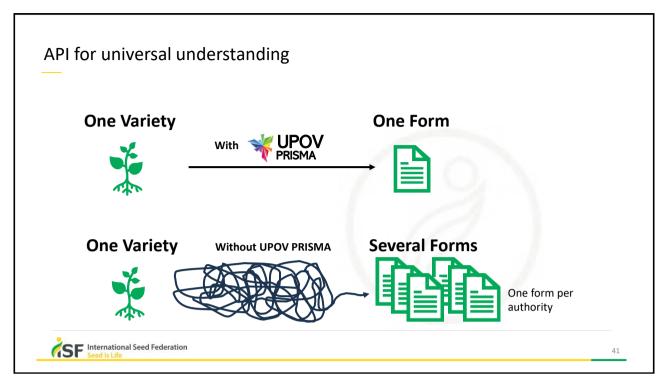
Its implementation allows for improvement in UPOV PRISMA data architecture by establishing dependencies between attributes, reducing errors and data storage.

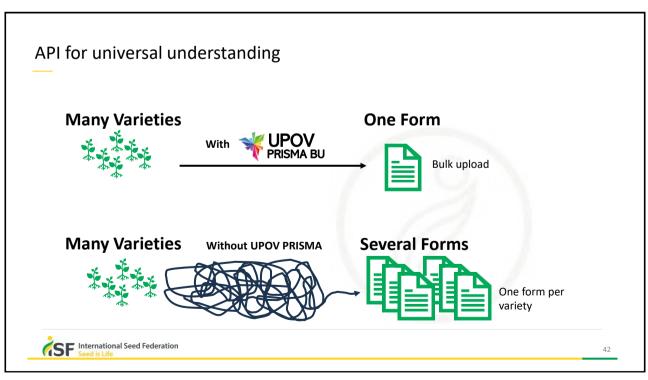
- The implementation phase I doesn't affect any member state database or software.
- It doesn't change anything in the Technical Questionnaire. It is exclusively part of UPOV PRISMA architecture enhancement.

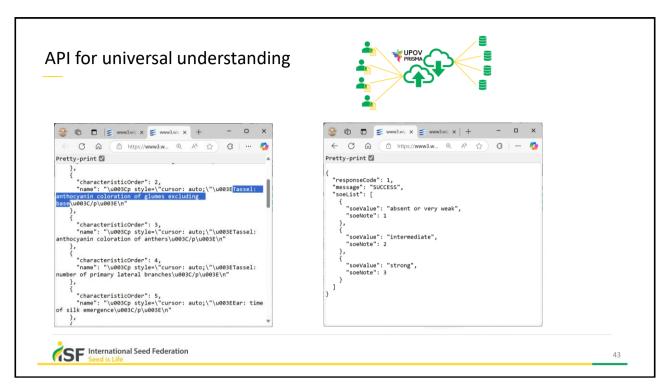


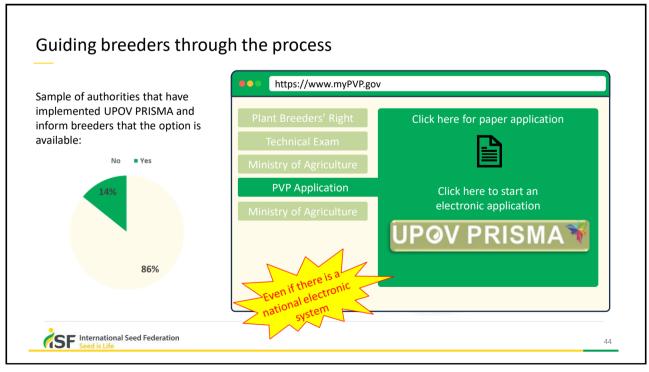


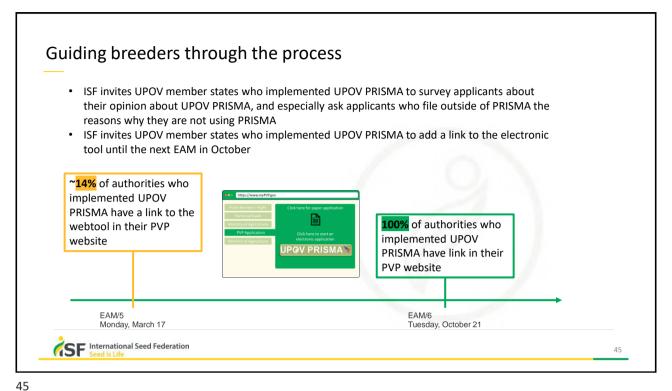




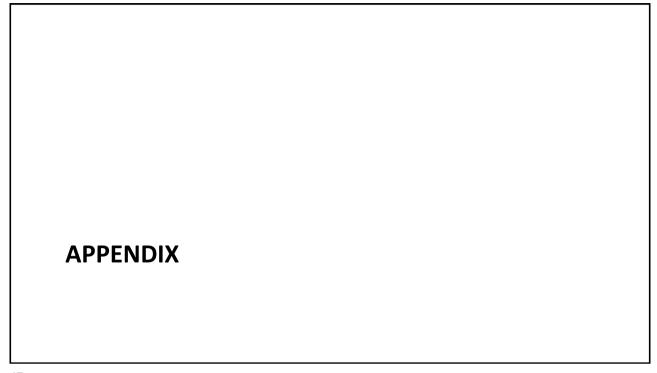


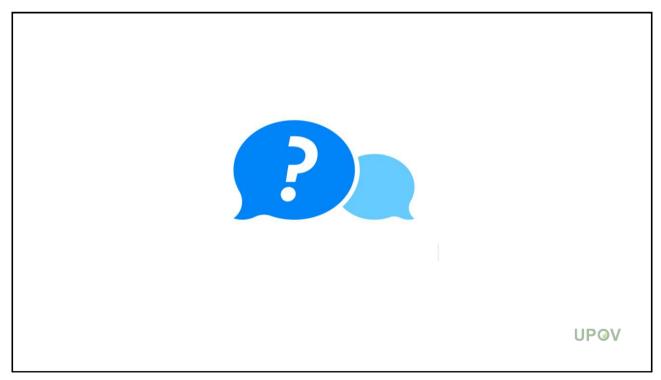


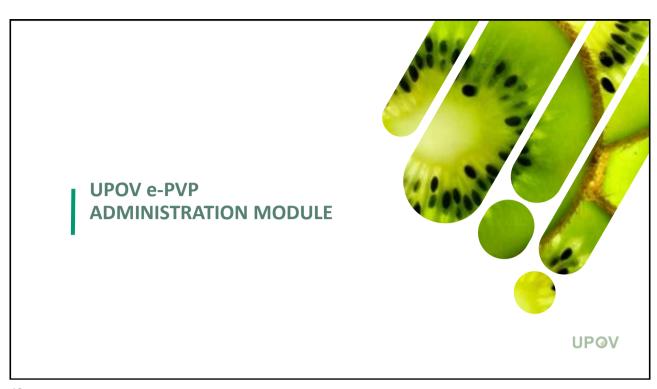






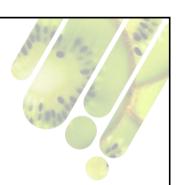






## **PREVIEW**

- Use of UPOV e-PVP Administration Module
- Future developments



## Current Use of UPOV e-PVP Admin

Number of authorities using UPOV e-PVP Admin

Number of applications transferred from UPOV PRISMA to UPOV e-PVP Admin

1

4

1. Viet Nam (since Sep.23)

From 3 companies
4 different crops

UPOV

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## Future Use of UPOV e-PVP Admin

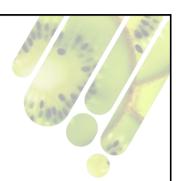
Number of authorities using/committed to use UPOV e-PVP Admin

4 (+3)

- 1. Viet Nam (as from Sep. 2023)
- 2. Ghana (April 2025)
- 3. United Kingdom (April 2025)
- 4. ARIPO (2025)

#### **PREVIEW**

- Use of UPOV e-PVP Administration Module
- Future developments



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## **Future developments**

#### Viet Nam: (2025)

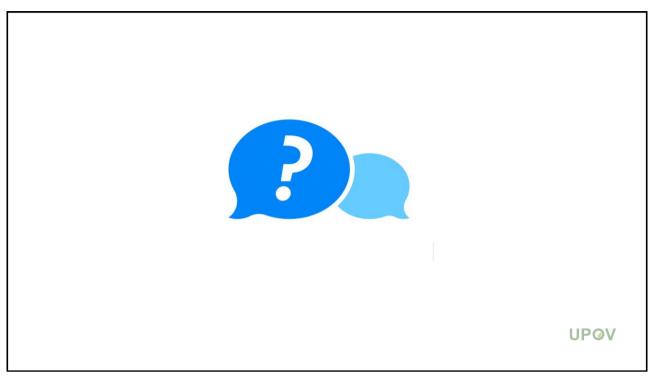
- · Migration of all data
- · Start using the UPOV e-PVP admin for all applications

#### United Kingdom (April 2025)

- · Migration of all data
- · Customization project

#### ARIPO (2025)

· Trial period of three years







In 2023, as part of APHA's Plant and Bee Health Transformation Programme a discovery into Plant Varieties & Seeds Services was completed. As an outcome, UPOV e-PVP was recommended as a solution that will streamline processes, improve customer service delivering effectively and efficiently.

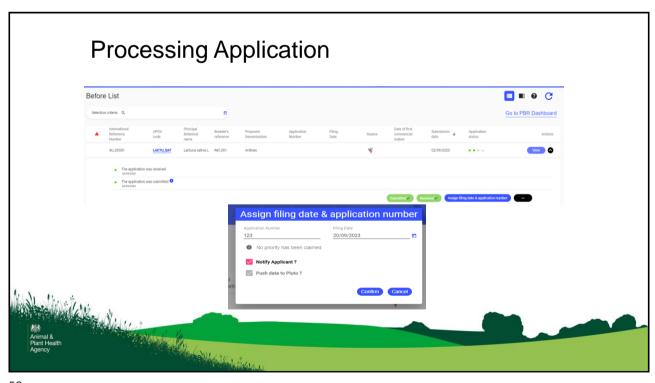
This project now being under the wider APHA Delivering Sustainable Futures Programme is aligning with the agency's strategic outcomes.

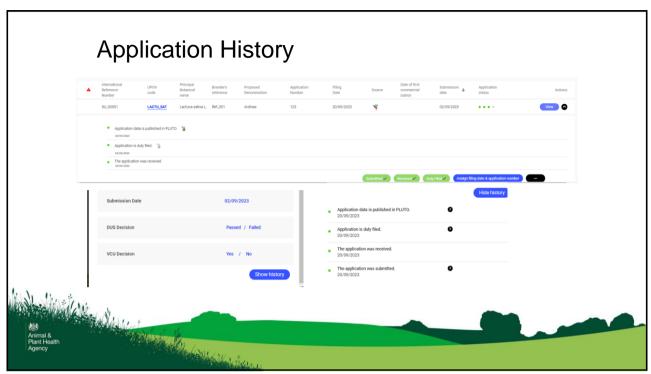
Progress updates / milestones:

- User testing
- Onboarding & training
- Summary of expected benefits



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#### **Highlights**

- Configuration to accommodate specific cases
- Publication of Gazette
- · Facilitating test & trial planning, sowing lists
- Language functions, inclusivity
- Integration
- Traceability, analytics show that users utilise the copy functionality, novelty and priority notifications for PBR

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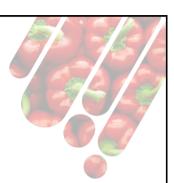
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UPOV e-PVP DUS Report Exchange MODULE



## **PREVIEW**

- Use of UPOV e-PVP DUS Exchange Module
- Future developments



**UPOV** 

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## Current Use of UPOV e-PVP DUS Exchange

Number of authorities using UPOV e-PVP DUS Exchange

Number of DUS reports exchanged using UPOV e-PVP DUS exchange

- Netherlands (Kingdom of the) Viet Nam (since Sep.23)

Between Netherlands (Kingdom of )

## Future Use of UPOV e-PVP DUS Exchange

Number of authorities using/committed to use UPOV e-PVP DUS Exchange

13 (+11)

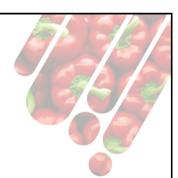
- Canada
- European Union Georgia
- Ghana
- Japan
- Morocco Netherlands (Kingdom of the) (since Dec.23)
- New Zealand
- 10. Türkiye
- 11. United Kingdom
- 12. United States of America13. Viet Nam (since Sep. 23)

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#### **PREVIEW**

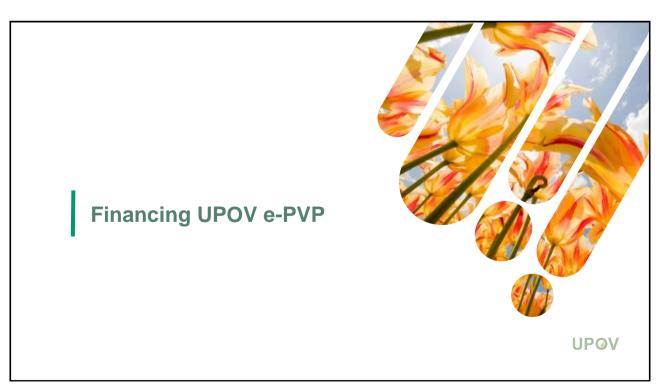
- Use of UPOV e-PVP DUS Exchange Module
- Future developments



## Future developments

- Customization is needed:
  - CPVO
  - United Kingdom

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## Financing UPOV e-PVP

- Document CC/104/04 outlines financing options for UPOV e-PVP
- Current funding sources:
  - Fees from UPOV PRISMA and PLUTO users
  - Special funds from Japan and the Kingdom of the Netherlands
  - UPOV regular budget
- Strategy to sustain standard module support:
  - · Liaise with PVP Offices and users
  - Explore the venue of generating extra-budgetary funds through a multi-donor fund for the sustainable development of UPOV services (e.g. UPOV e-PVP).
  - Raise awareness of potential users of the UPOV services the benefits of the services provided.

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## Next EAM/6 Meeting:

➤ Tuesday October 21, 2025

> Hybrid

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For further information on UPOV e-PVP:



upovepvp@upov.int



https://www.upov.int/upovepvp



International Union for the Protection of New Varieties of Plants