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| **Meeting on Electronic Applications** | **EAM/1/2** |
| **First meeting**<br>**Geneva, March 15, 2023** | **Original:** English<br>**Date:** March 8, 2023 |

## OVERVIEW OF UPOV E-PVP

*Document prepared by the Office of the Union*

*Disclaimer: this document does not represent UPOV policies or guidance*

EXECUTIVE SUMMARY

1. This document presents:

    (a) the tools of UPOV e-PVP, as set out in paragraph 4 of this document,;

    (b) the options for using UPOV e-PVP, as set out in paragraph 5 of this document.

A presentation of e-PVP Asia wil be made at the EAM/1 meeting.

2. The structure of this document is as follows:

OVERVIEW OF UPOV E-PVP

3. The aim of UPOV e-PVP is to provide coherent and comprehensive assistance in the implementation of the UPOV system of plant variety protection, some or all of the components of which can be used by members of the Union, as considered appropriate. UPOV e-PVP comprises the following package of compatible tools:

- UPOV PRISMA: online application tool

- UPOV e-PVP Administration Module: for PVP offices to manage and publish PVP applications, including communication with applicants and transmission of data to the PLUTO database (see Document EAM/01/04)

- UPOV e-PVP DUS Report Exchange Module: platform for PVP offices to exchange DUS reports

- PLUTO database

- Member Cooperation Platforms: platform for UPOV member cooperation in the administration and examination of applications. The first platform will be e-PVP Asia.

UPOV E-PVP OPTIONS FOR USE

4.      UPOV members have the following options:

(a)      Standard options

| Module | Components | Hosting costs* | Training | Maintenance costs | Ongoing development |
|---|---|---|---|---|---|
| UPOV PRISMA Application tool | Use of UPOV TQ | UPOV | UPOV | UPOV | UPOV |
| PVP Office Administration Module (e-PVP Admin Module) | Standard APIs | PVP Office | n/a | UPOV | UPOV |
| | Standard Workflow | PVP Office | n/a | UPOV | UPOV |
| | Standard User interface | PVP Office | UPOV | UPOV | UPOV |
| Communication Module (Applicant Monitoring Module) | Standard APIs | UPOV | n/a | UPOV | UPOV |
| | Standard interface | UPOV | UPOV | UPOV | UPOV |
| DUS Exchange Module | Standard APIs | UPOV | n/a | UPOV | UPOV |
| | Standard interface | UPOV | UPOV | UPOV | UPOV |
| Publication | Publish to Pluto DB | UPOV | n/a | UPOV | UPOV |
| | Standard Gazette template | UPOV | n/a | UPOV | UPOV |

*      Each PVP office will have their own server (Blockchain node) to run the PVP office Admin Module and store data. This server can be hosted on their own site (managed by the PVP office) or in the cloud (managed by the PVP office or by UPOV, if delegated). In all cases, hosting costs are covered by the PVP office.

Typical annual cost of hosting is currently estimated at 1800 USD (50-100 applications per year and less than 1,000 titles in force) or 2400 USD (1,000-2,000 applications per year and less than 10,000 titles in force). This is calculated based on the current Amazon Web Service pricing scheme, which is subject to change.

(b)      Customized options using UPOV PRISMA application tool

| Module | Components | Hosting costs* | Training | Maintenance costs | Ongoing development |
|---|---|---|---|---|---|
| UPOV PRISMA Application tool | Use of National TQ | UPOV | UPOV | UPOV** and PVP Office | UPOV** and PVP Office |
| PVP Office Administration Module (e-PVP Admin Module) | Standard APIs | PVP Office | n/a | UPOV | UPOV |
| | Customized Workflow | PVP Office | n/a | PVP Office | PVP Office |
| | Customized User interface | PVP Office | PVP Office | PVP Office | PVP Office |

**      Implementation is subject to the available resources of the UPOV office (staff time and other costs).

(c)      Customized options with PVP Office's own electronic application system

| Module | Components | Hosting costs* | Training | Maintenance costs | Ongoing development |
|---|---|---|---|---|---|
| Application tool | Integration with Standard APIs (application data exchange in both directions) | UPOV | UPOV | UPOV*** and PVP Office | UPOV*** and PVP Office |
| | Data processing | PVP Office | n/a | PVP Office | PVP Office |
| | Customer identification | PVP Office | n/a | PVP Office | PVP Office |
| | Client interface | PVP Office | PVP Office | PVP Office | PVP Office |
| PVP Office Administration Module (e-PVP Admin Module) | Standard APIs | UPOV | n/a | UPOV | UPOV |
| | Customized Workflow | PVP Office | n/a | PVP Office | PVP Office |
| | Customized User interface | PVP Office | PVP Office | PVP Office | PVP Office |

*** Testing should be done jointly by the PVP Office and UPOV office.

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