Plant Variety cooperation in the CARIFORUM Region

Plant Variety Protection under the UPOV Convention

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UPOV



Program

- √ Importance of new varieties of plants
- ✓ The role of UPOV to promote the development of new varieties of plants
- ✓ Efficient ways to implement the UPOV system (e-PVP)



Importance of plant breeding and new varieties of plants

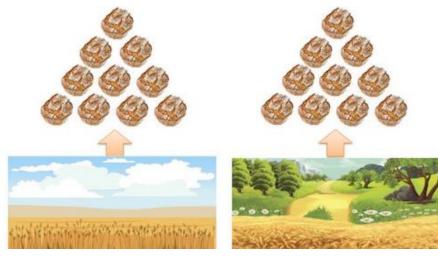






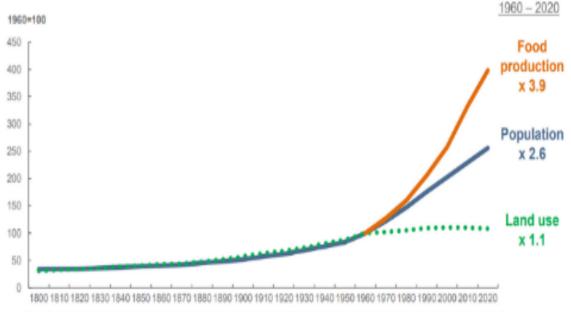
Producing more... with less

And in more challenging conditions





Historically, greater food production meant greater land use; but there has been a "decoupling" since about 1960



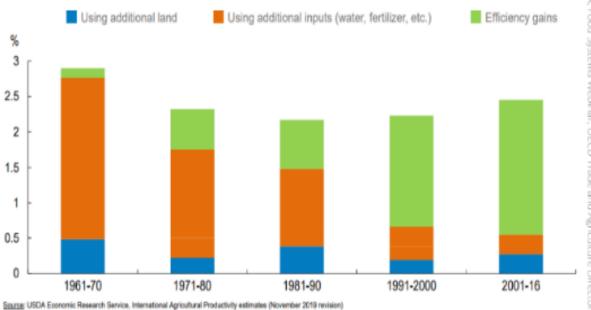
Source: Population data from Maddleotis historical statistics for 1825-1940; UN Population Division for 1955-2030; 1880 and 1816-extrapolated from Maddleon. Agricultural (orope and pasture) land data for 1880-2910 from the History Database of the Global Environment (HYDE 3.2), Klein Goldewijk et al. (2017), Global agricultural production data for 1860-2910 from FACSTAT (Net Agricultural Production Index), 2020 value from the OECD/FAO Agricultural Outlook.

www.cecd.org/food-systems



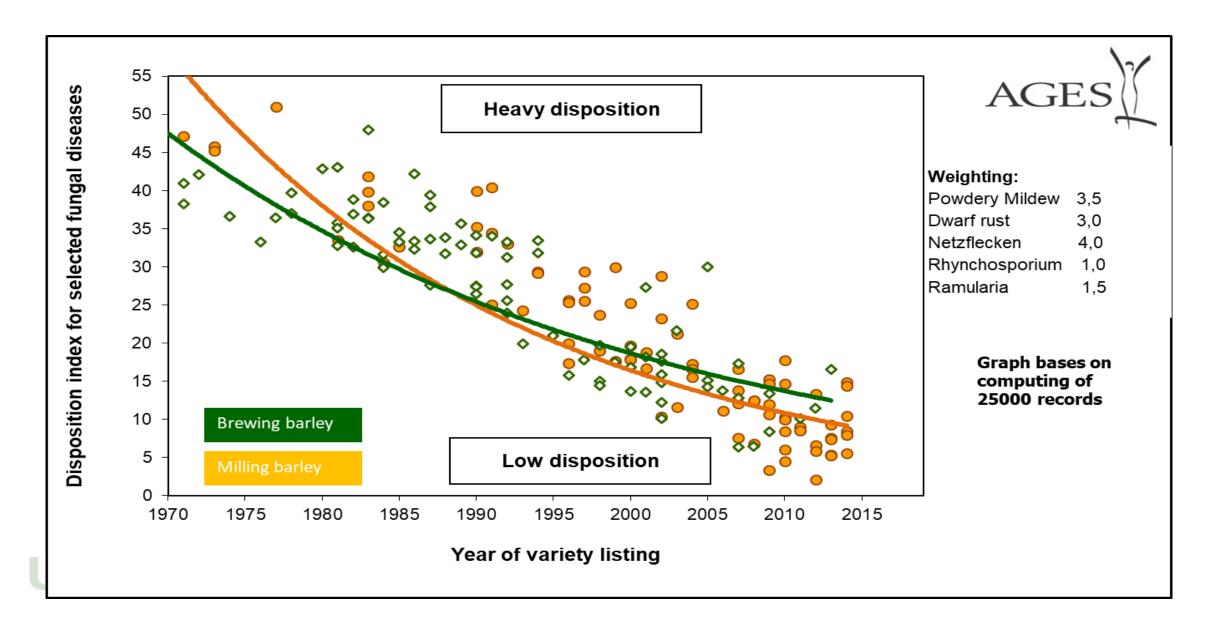
This "decoupling" was initially driven by greater use of inputs, but production growth increasingly comes from efficiency gains

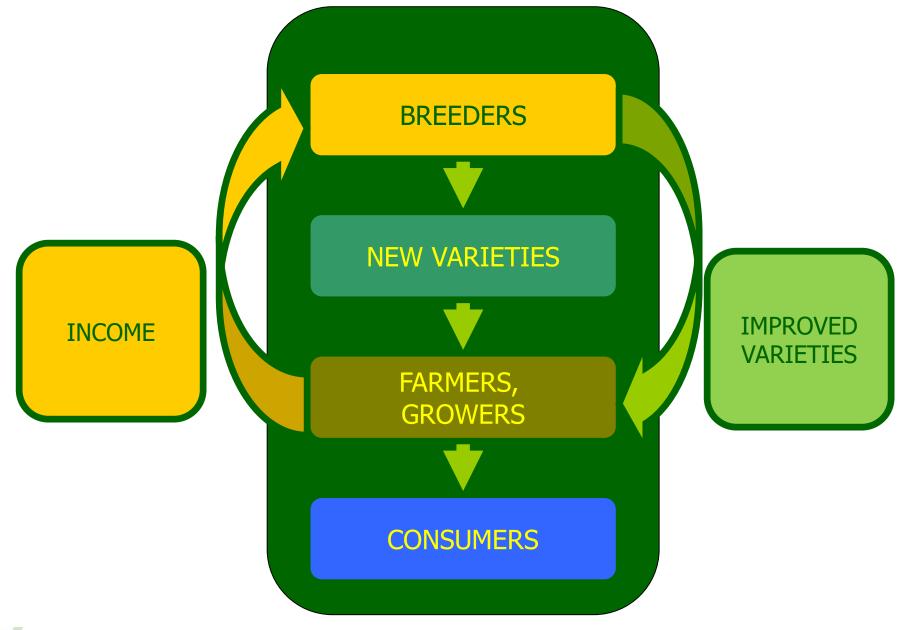
Growth of global agricultural output, by source





Importance of improved new varieties for brewing and animal feed industries





UPOV

MISSION STATEMENT

"To provide and promote an effective system of plant variety protection, with the aim of encouraging the development of new varieties of plants, for the benefit of society"

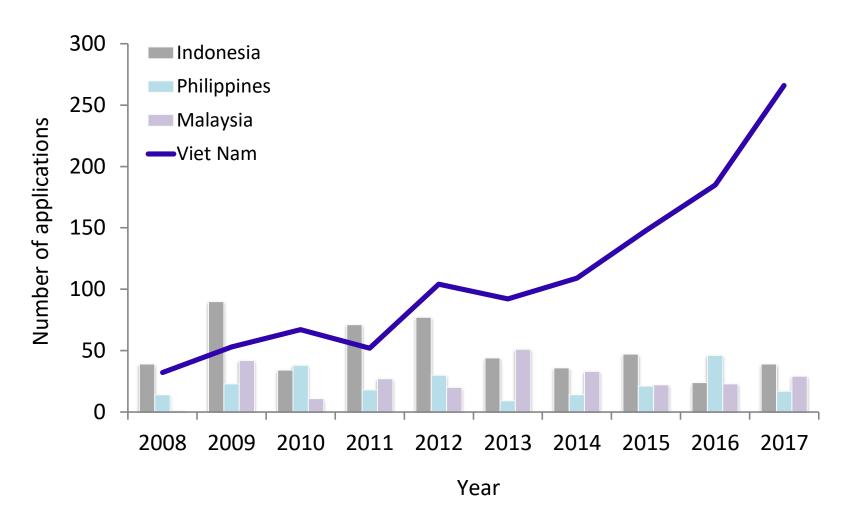


UPOV membership is associated with...

- (a) increased plant breeding activities and diversification of types of breeders (e.g. private breeders, researchers);
- (b) greater availability of improved varieties for farmers;
- (c) improved access to foreign plant varieties and enhanced domestic breeding programs;
- (d) encouraging the development of a new industry competitiveness on foreign markets.



Applications for Plant Breeders' Rights



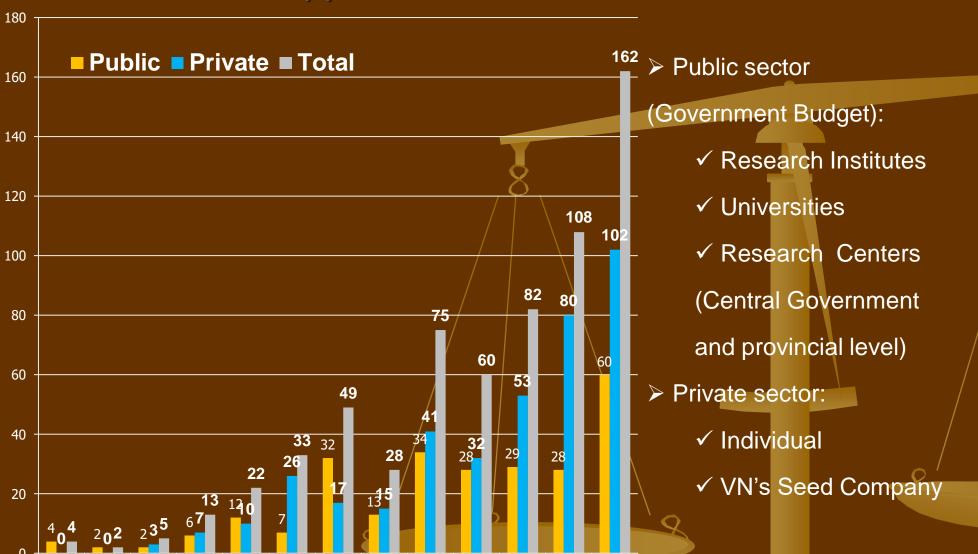
- 1. Erizal Jamal, Director, Center for Plant Variety Protection & Agriculture Permits, Indonesia. 10th East Asia Plant Variety Protection Forum Meeting
- 2. Dr. Mary Ann P. Sayoc, President, Philippine Seed Industry Association. National Seminar on Benefit of The Plant Variety Protection System, Philippines (11th EAPVP), August 2, 2018
- 3. Sri Ikarostika Rahayu Binti Muhammad Ghazi. Department Of Agriculture, Malaysia. National Seminar on Benefit of The Plant Variety Protection System, Philippines (11th EAPVP), August 2, 2018
- 4. Nguyen Thanh Minh, PVPO, Mard/Viet Nam. National Seminar on Benefit of The Plant Variety Protection System, Philippines (11th EAPVP), August 2, 2018

IMPACT OF PVP/UPOV SYSTEM ON VN'S AGRICULTURE

NGUYEN THANH MINH, PVPO, MARD/VIETNAM
PHILLIPINES, August - 2018

Encourage of breeding and investment from Private Sector

Vietnam's applications: Private and Public sectors



ABOUT UPOV

- Mission Statement
- Overview
- Organigram
- Office of UPOV
- Officers
- # UPOV Convention
- ## Benefits of UPOV System
- Key Issues
- # FAQs
- Publications

HOME & AROUTTIDON &

HFFA Research GmbH

The socio-economic benefits of UPOV membership in Viet Nam:

An ex-post assessment on plant breeding and agricultural productivity after ten years

Corresponding author: Steffen Noleppa

of Agronomy of the 'Universidad de la Republica' of Uruguay

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otection for Farmers and Growers (2012)

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Ashiro Rindo Story



Introduction to UPOV

UPG

STUDY in VIET NAM*

Annual land productivity developments since Viet Nam joined UPOV in 2006 in

Rice, Corn (maize) and Sweet Potatoes

- 1995-2005: increase in yield mainly through increased level of inputs no detectable increase due to plant breeding
- 2006-2016: <u>annual</u> land productivity increase due to plant breeding

- Rice 1.7 %

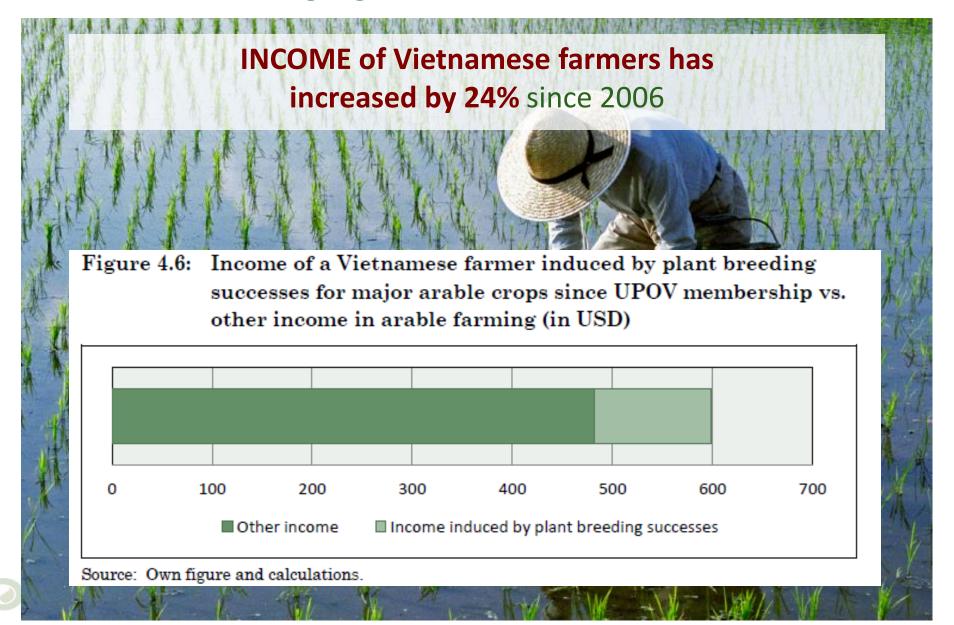
- Corn 2.1 %

Sweet potatoes 3.1 %



^{* &}quot;The socio-economic benefits of UPOV membership in Viet Nam; An ex post assessment on plant breeding and agricultural productivity after 10 years" (Corresponding author: Steffen Noleppa) by HFFA Research GmbH

STUDY in VIET NAM



STUDY in VIET NAM

Annual value added:

Arable farming \$2.3 billion

Horticulture \$1.0 billion

Floriculture \$ 0.2 billion

GDP added upstream/downstream (value chains)

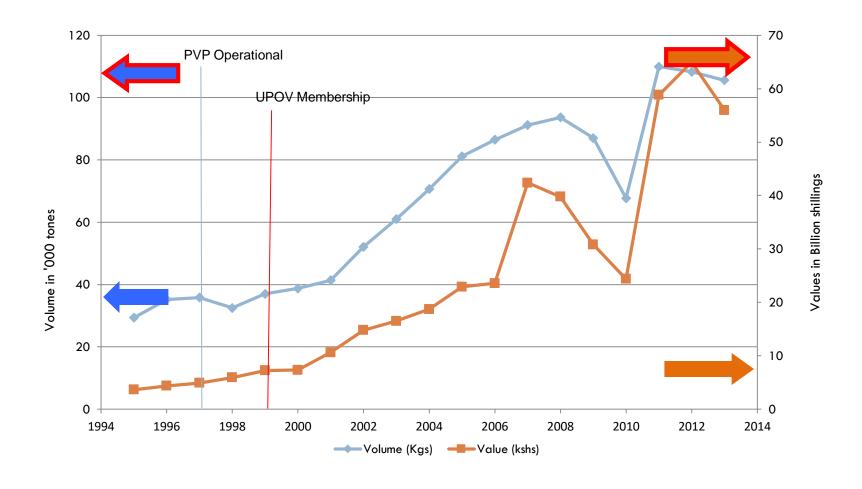
\$1.5 billion

TOTAL ADDED: \$5 billion

(> 2.5% GDP)



Impact of Plant Variety Protection in Kenya





CUT FLOWER EXPORTS 1995 - 2013

Source: HCDA



Successes/Impact Resulting from PVP cont'

Employment creation

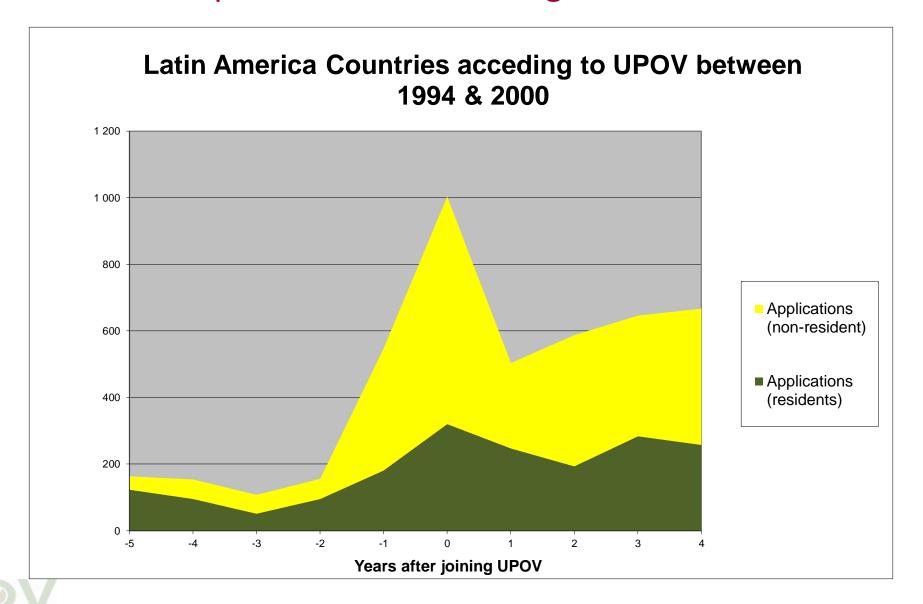
 It is estimated that over 500,000 people (including over 90,000 flower farm employees) depend on the floriculture industry.



UPG

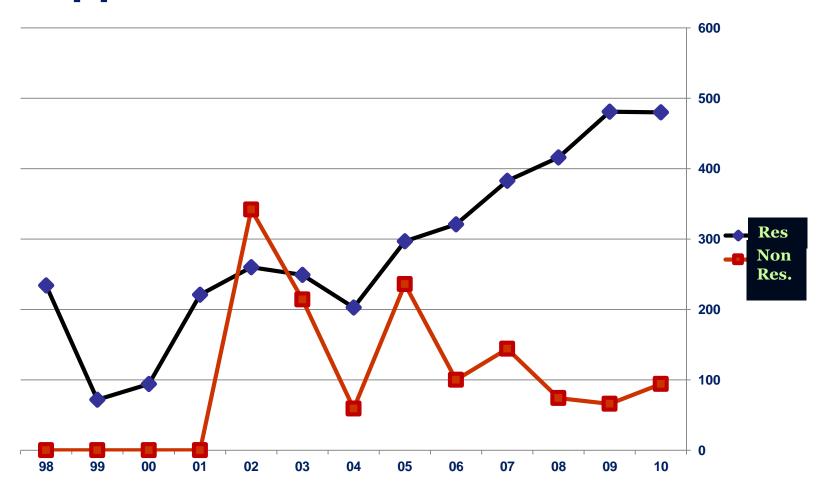
Source: KEPHIS

Improved access to foreign varieties



Enhanced domestic breeding programs

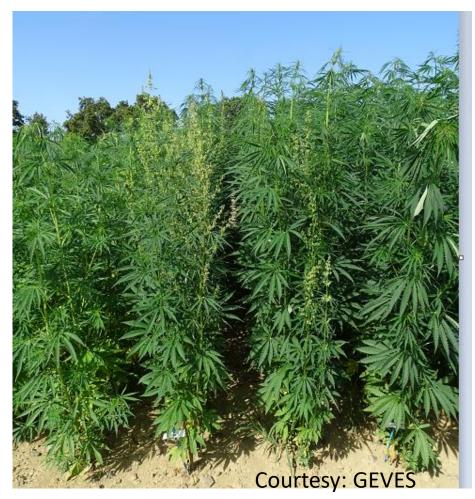
Republic of Korea Application Ratio of Residents/Non Res.





Dr. CHO, II Ho (Symposium on Plant Variety Protection - Future Strategy for Enhancing the Effectiveness of the PVP System, Seoul July 13, 2011)

Developing New Industries









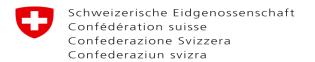
Competitiveness in Foreign Markets



"New varieties would be developed here in British Columbia and would go all over the world. They would actually be used to compete against our BC growers. Our growers would be competing against varieties they paid to develop here."







Swiss Confederation



How to organize DUS examination and international cooperation Experience in Switzerland

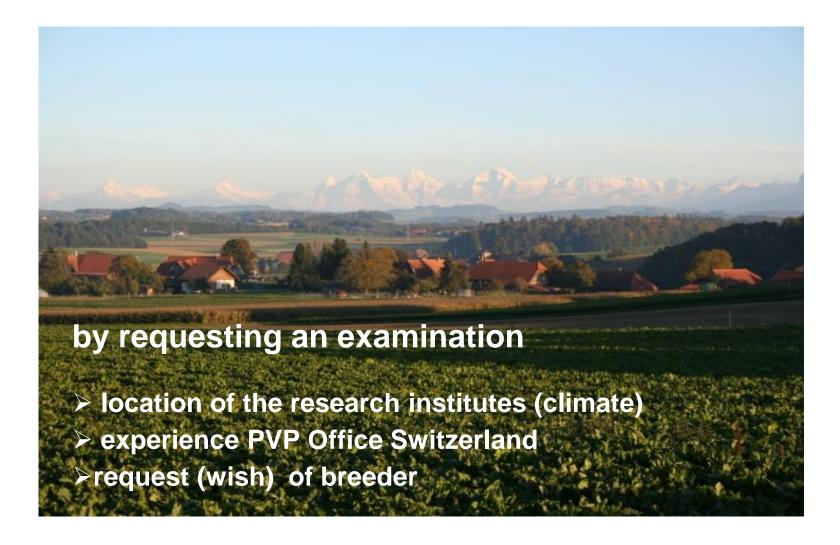


PVP in Switzerland in a nutshell

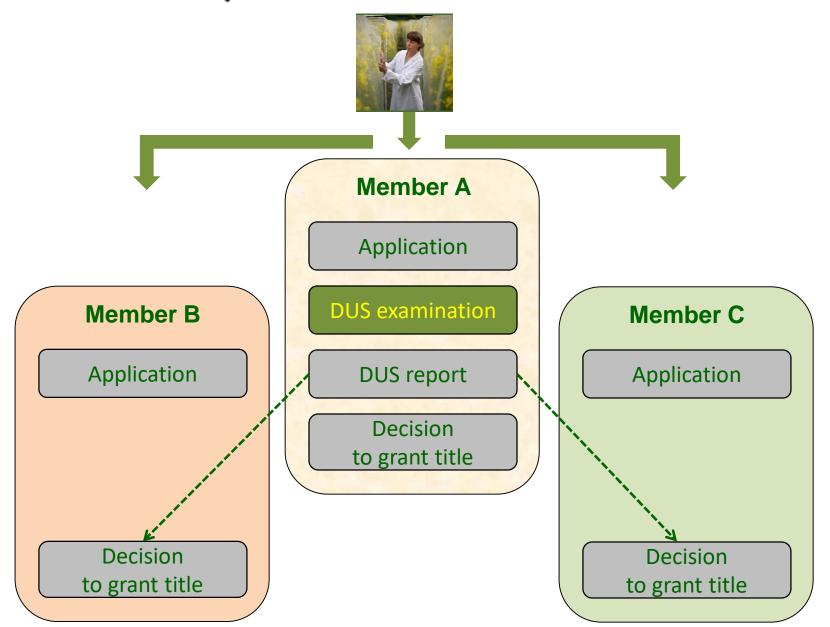




Selection of a testing place



COOPERATION, SOVEREIGNTY AND INDEPENDENCE



Plant Variety Protection under the UPOV Convention

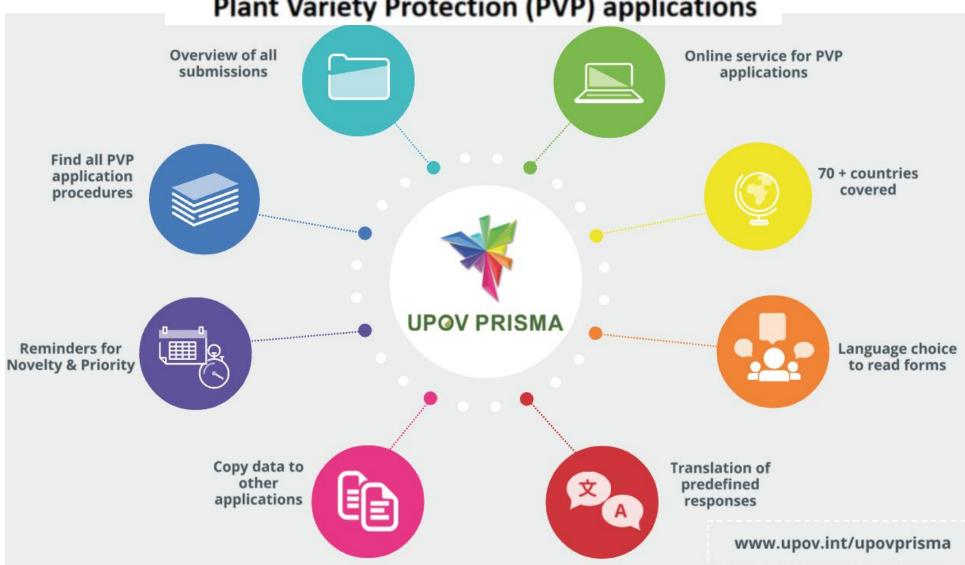
Support and resources for cooperation among UPOV members (e.g. online application system; databases; software)





The on-line service for making

Plant Variety Protection (PVP) applications

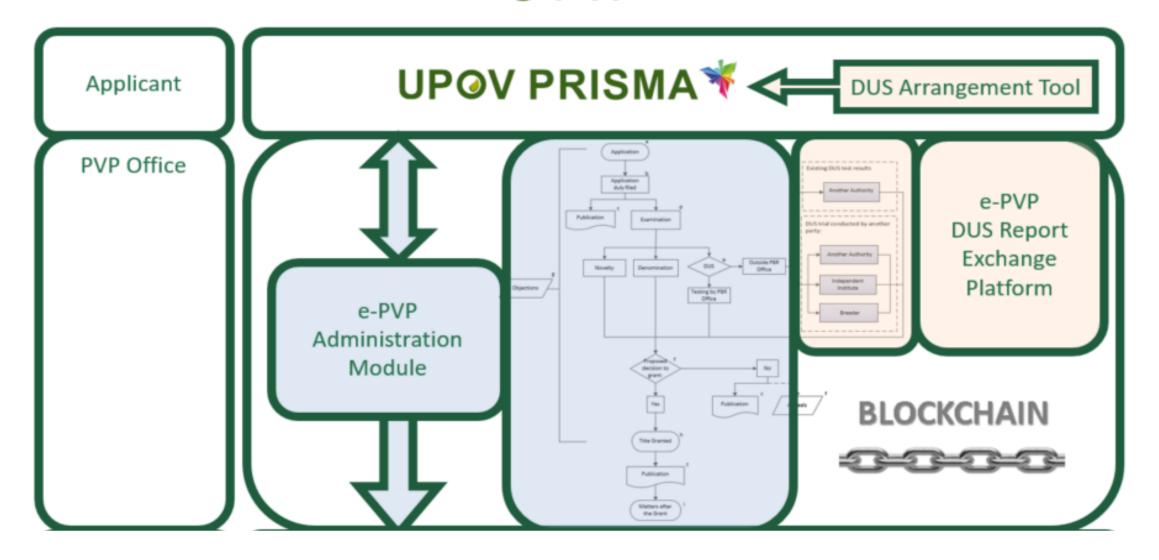


e-PVP

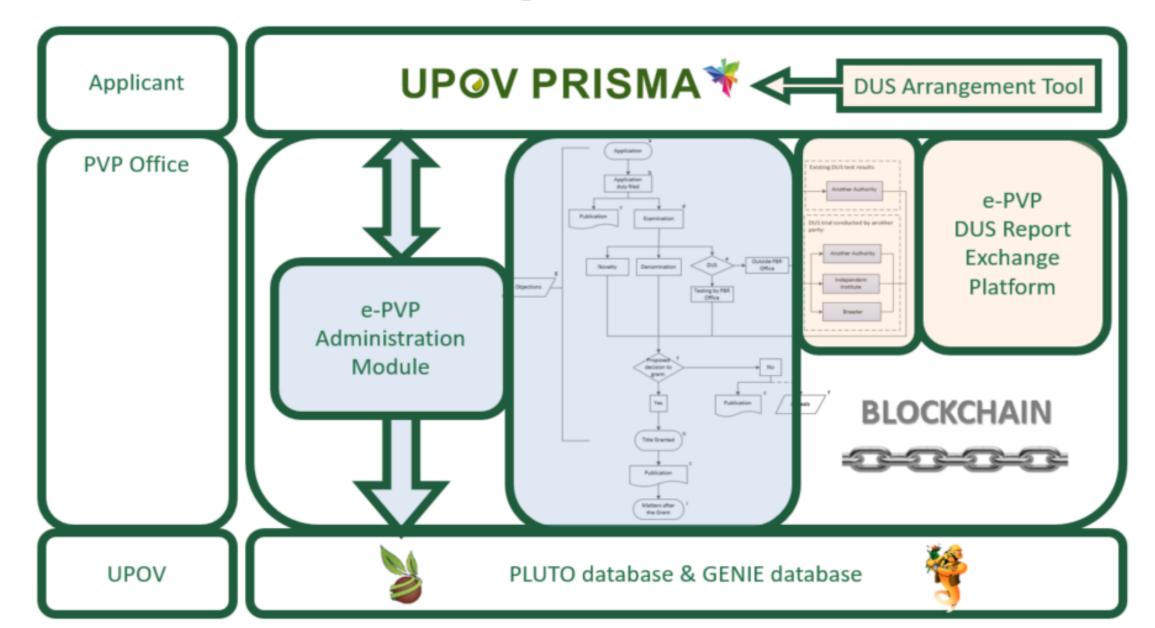
Applicant



e-PVP



e-PVP



UPOV MEMBERSHIP PROCESS

- Policy decision to draft legislation in accordance with the 1991 Act of the UPOV Convention
- Contact the Office of UPOV for assistance provision of the Drafting (Guidance in Document INF/6 and consultations)
- Finalize the Draft Law for its examination by the Council of UPOV
- Ask advice of the Council of UPOV
- If advice positive and Law in force deposit instrument of accession to become a UPOV member



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