

10th EAPVP forum meeting

REPORT ON DEVELOPMENTS IN UPOV

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Technical/Regional Officer (Asia), UPOV
September 11, 2017 (Nay Pyi Taw, Myanmar)



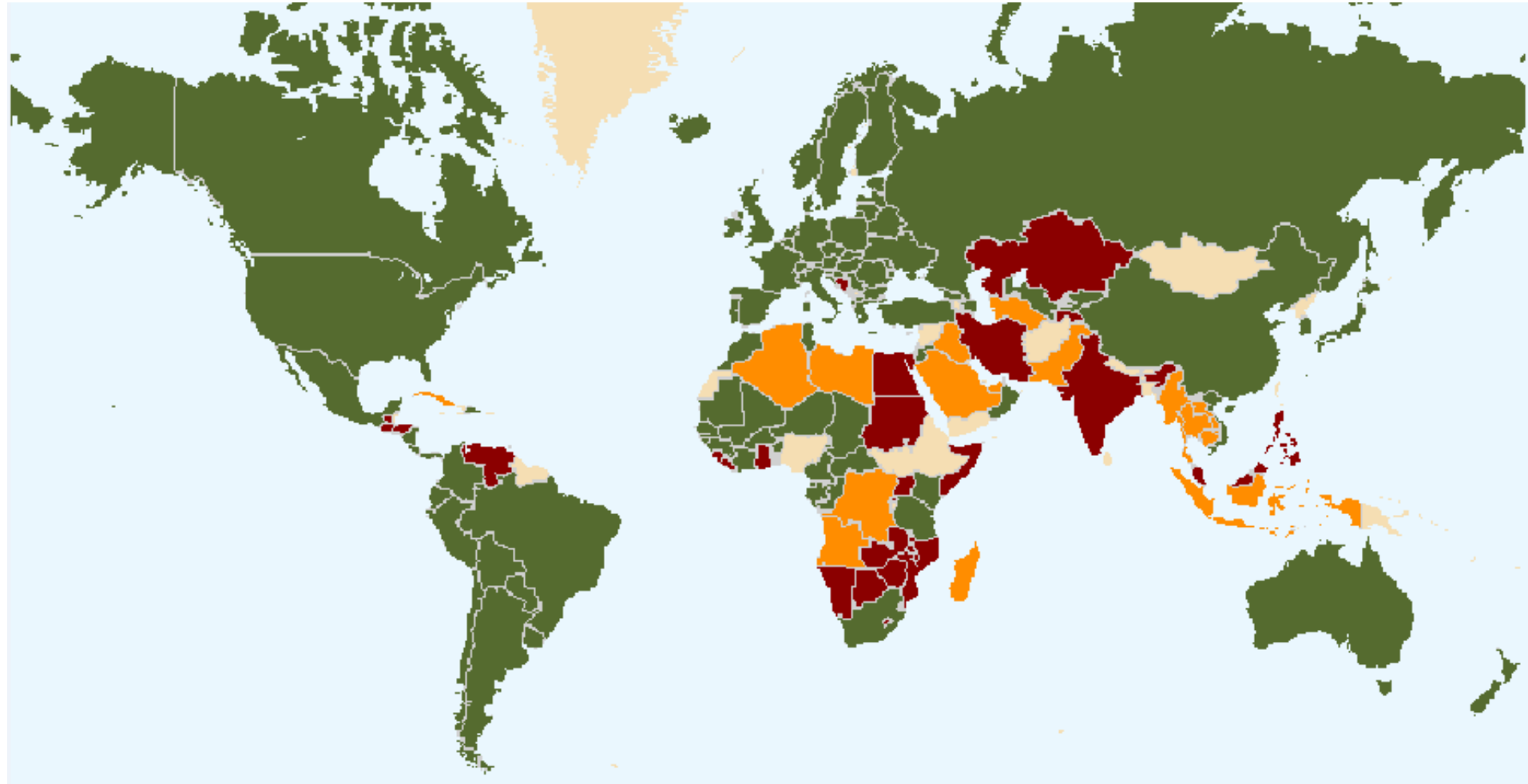
OVERVIEW

- Situation in UPOV
- New UPOV material
- PBR Application Tool (EAF)

OVERVIEW

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UPOV status



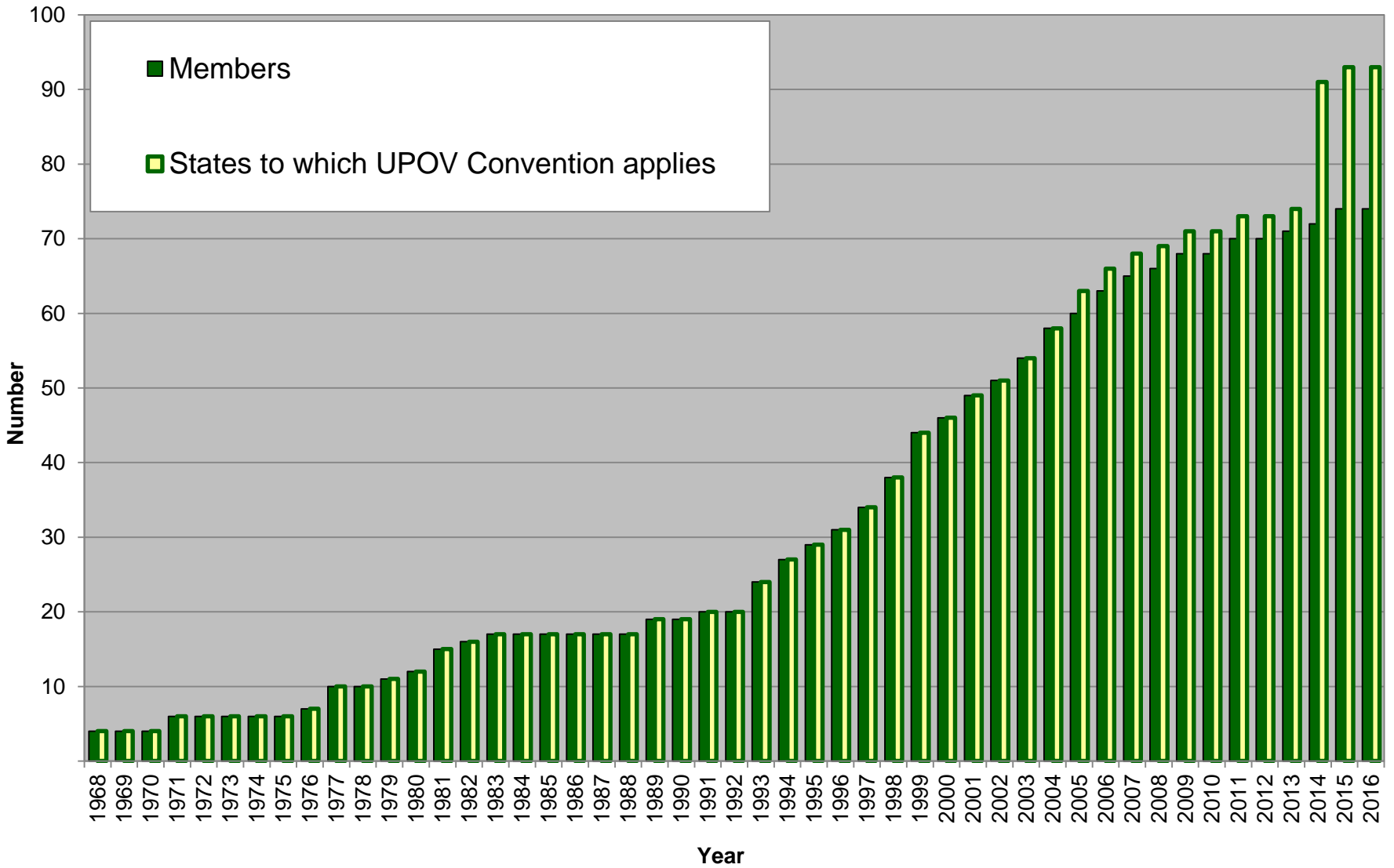
Members of UPOV (74) covering 93 States

Initiating States (16) and Organization (1)

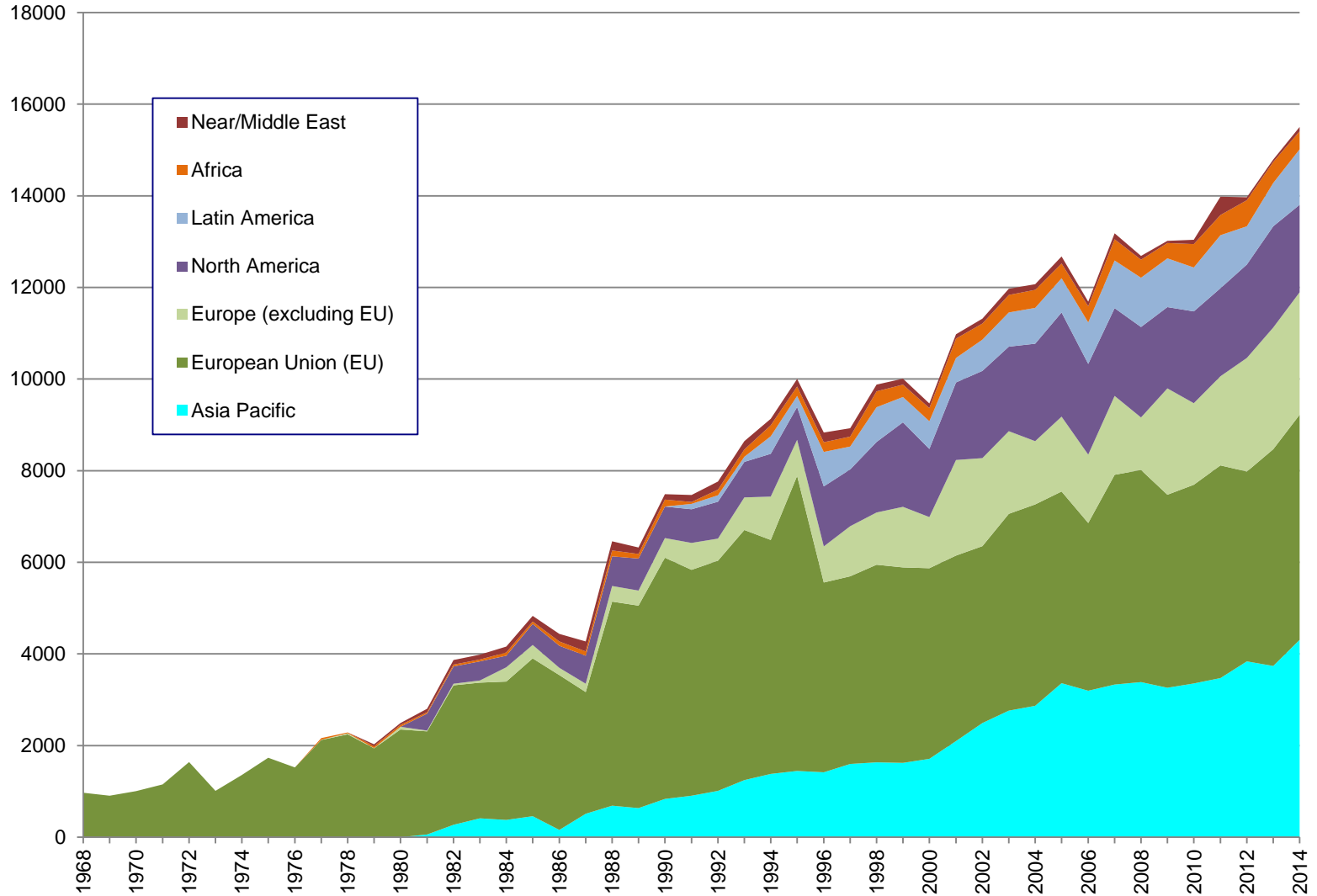
States (24) and Organization (1) in contact with the UPOV Office

The boundaries shown on this map do not imply the expression of any opinion whatsoever on the part of UPOV concerning the legal status of any country or territory

UPOV Membership

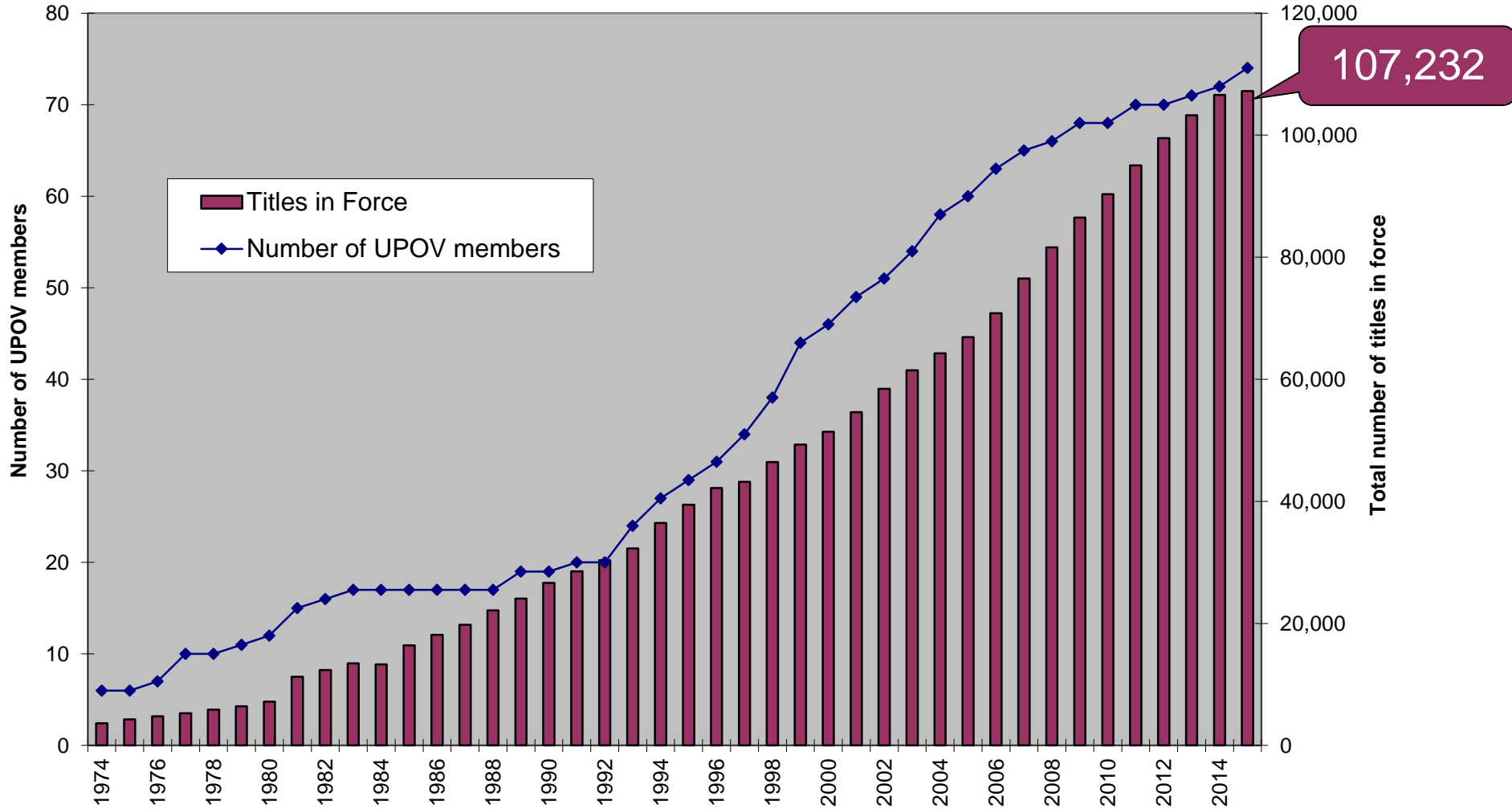


Applications for Plant Breeders' Rights



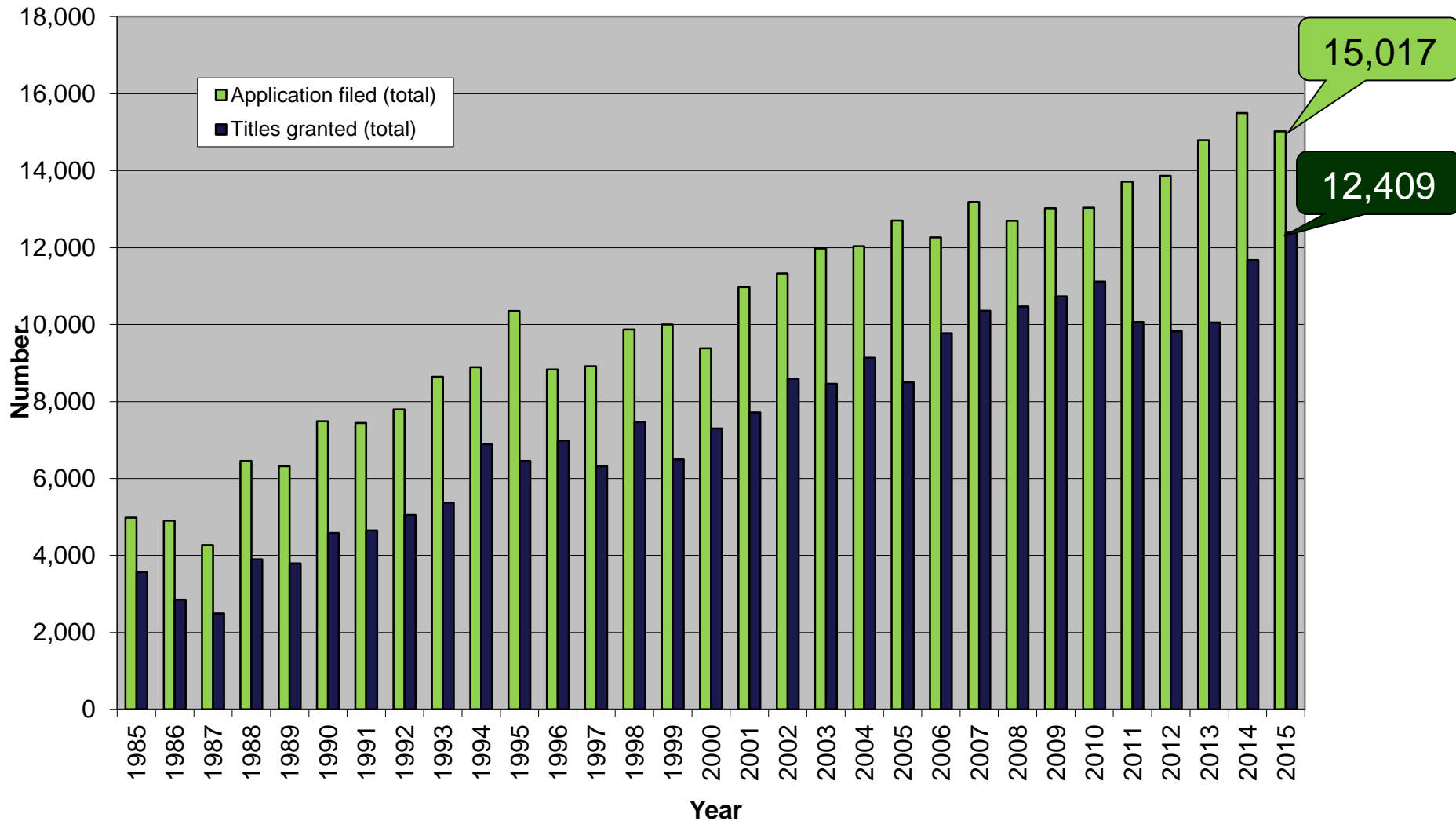
Plant variety protection statistics (C/50/7)

PBR Titles in Force: All UPOV



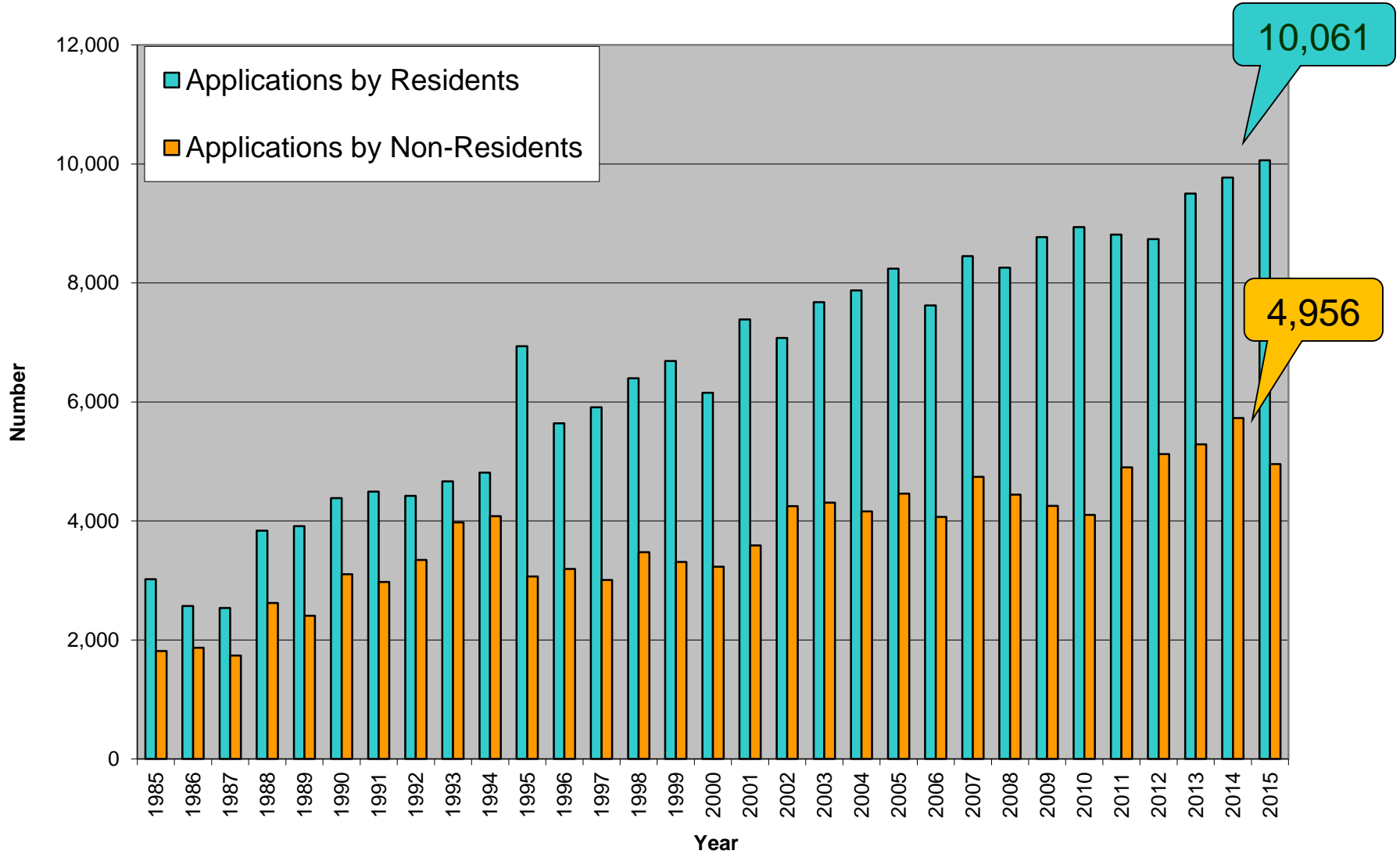
Plant variety protection statistics (C/50/7)

Applications filed and Titles granted (total = Resident and Non-Resident)



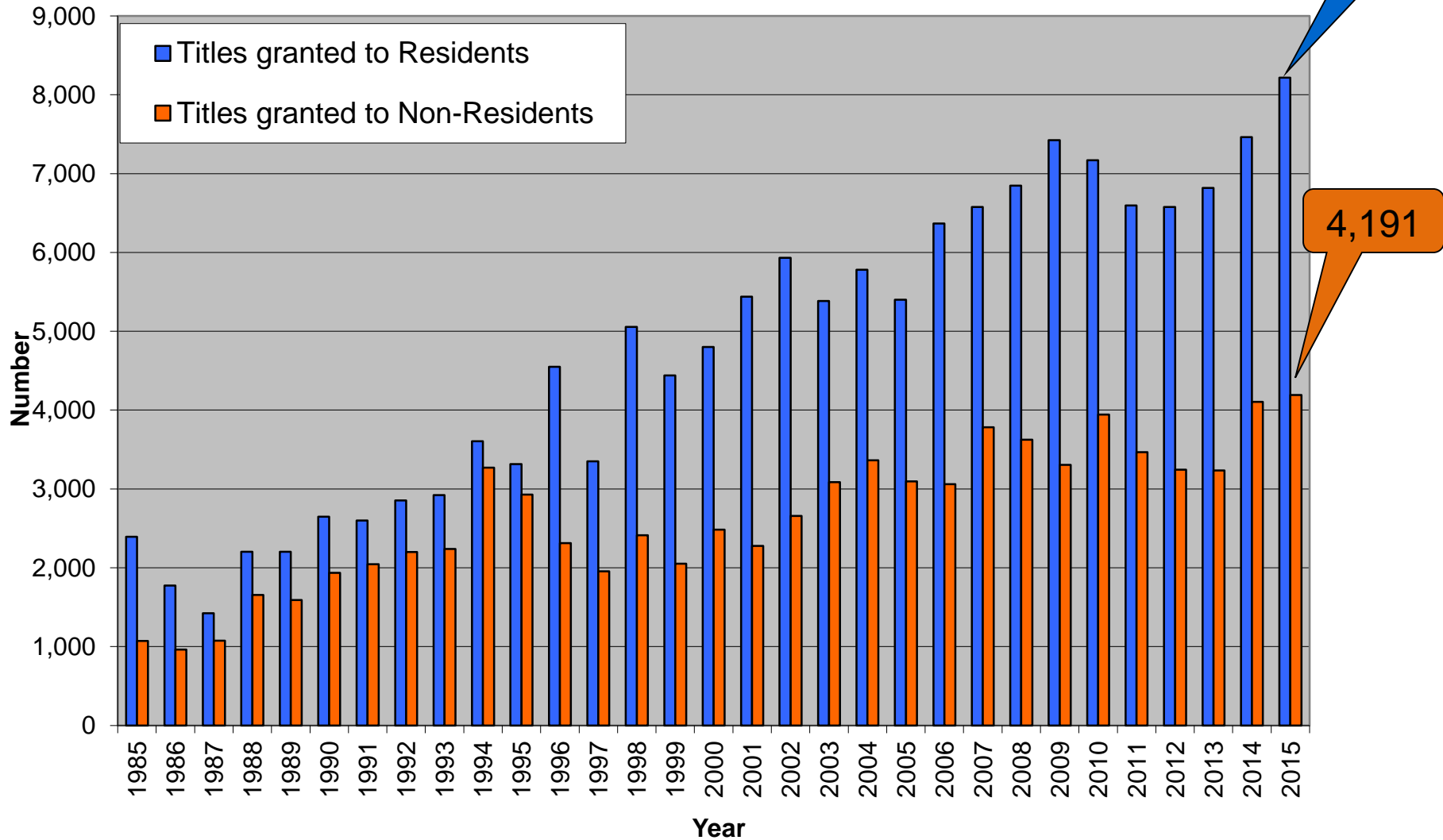
Plant variety protection statistics (C/50/7)

Applications by Resident/Non-Resident

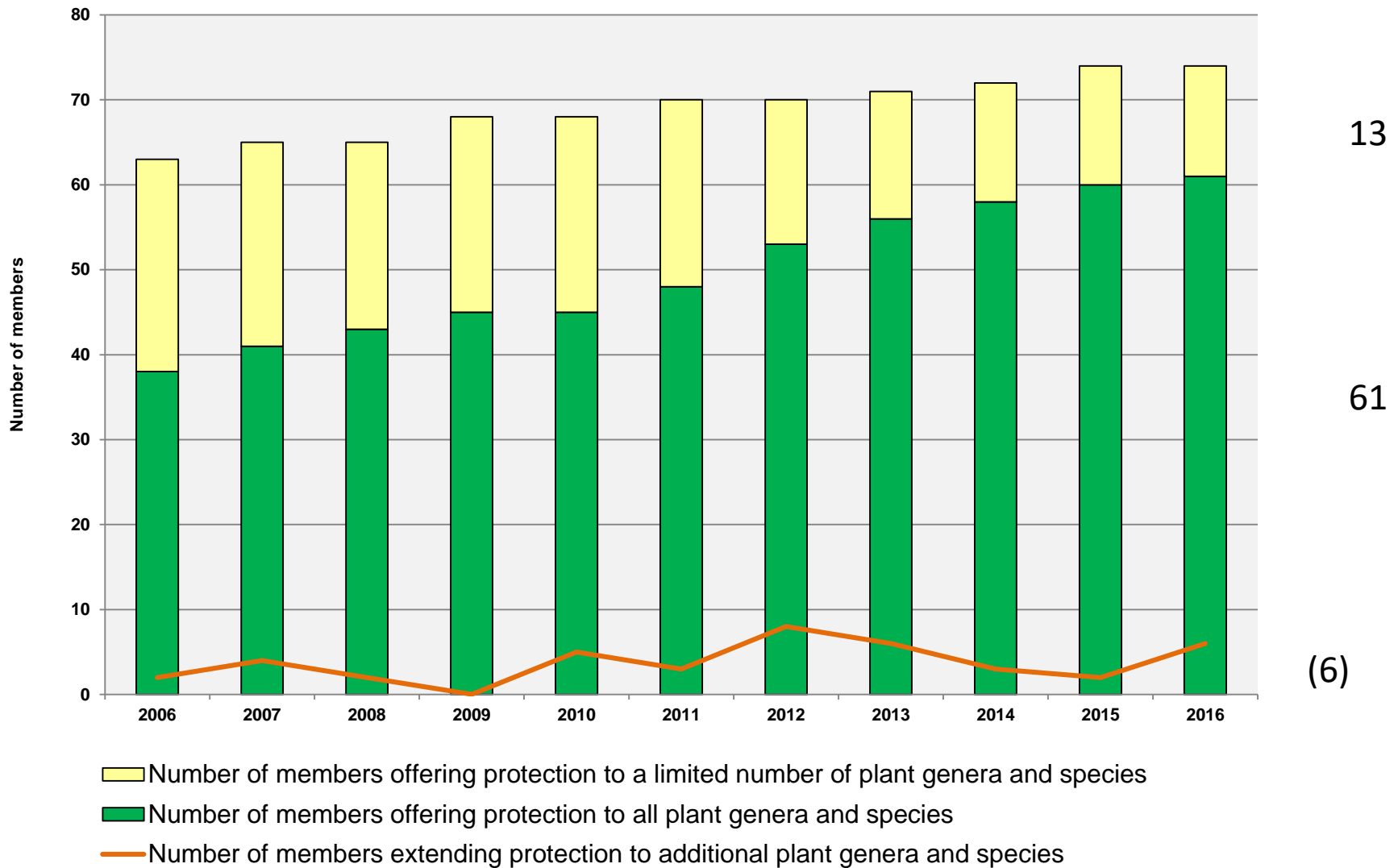


Plant variety protection statistics (C/50/7)

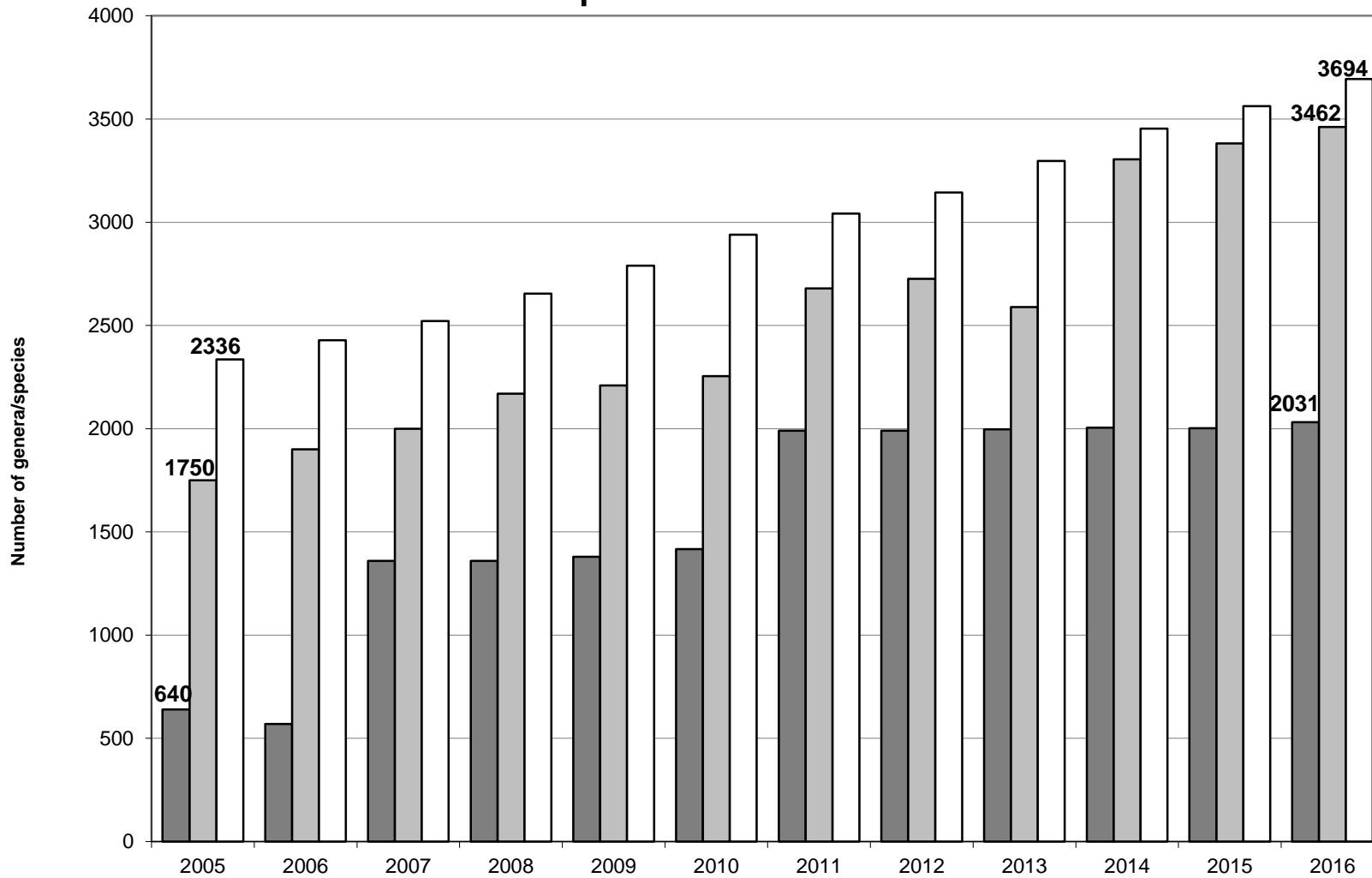
Titles Granted: Resident/Non-Resident



Taxa protected by the members of the Union (C/50/6)



Cooperation in Examination



STUDY in VIET NAM*

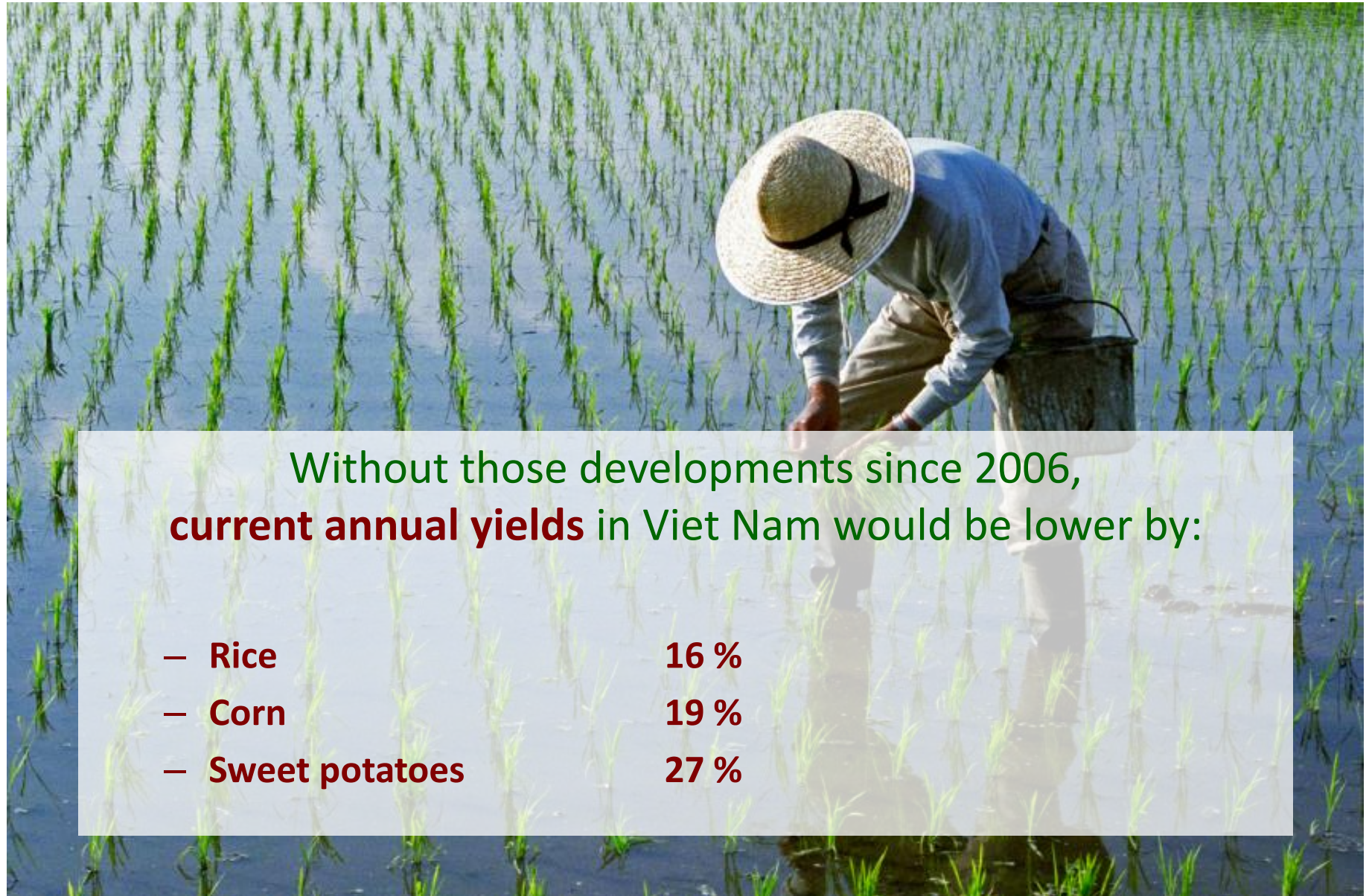
Annual land productivity developments since Viet Nam joined
UPOV in 2006 in

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:** annual land productivity increase due to plant breeding
 - Rice 1.7 %
 - Corn 2.1 %
 - Sweet potatoes 3.1 %

* “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



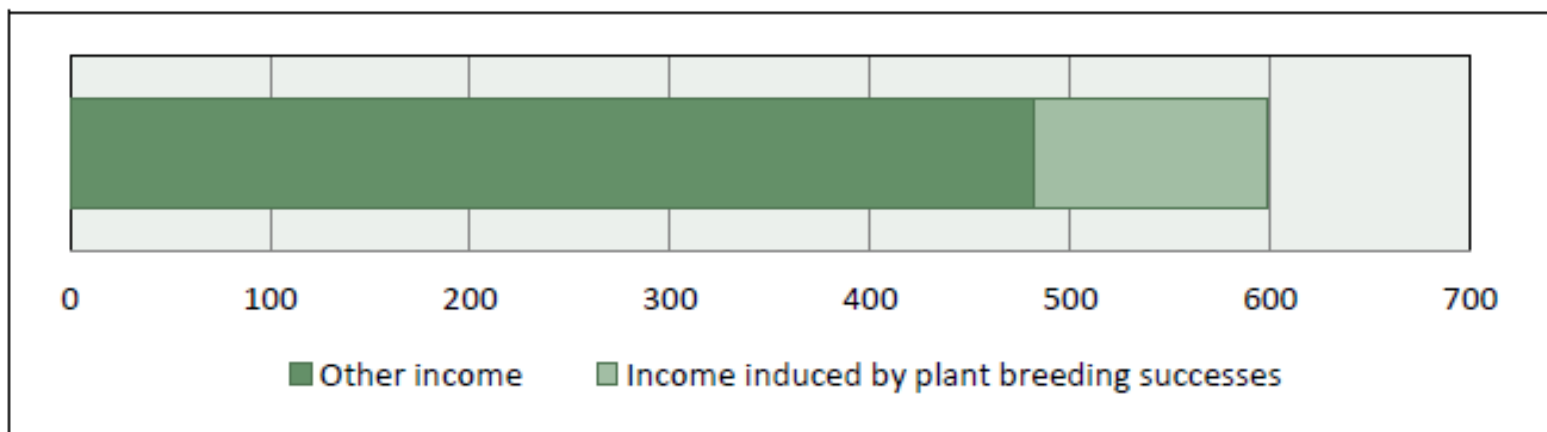
Without those developments since 2006,
current annual yields in Viet Nam would be lower by:

- **Rice** **16 %**
- **Corn** **19 %**
- **Sweet potatoes** **27 %**

STUDY in VIET NAM

INCOME of Vietnamese farmers has increased by 24% since 2006

Figure 4.6: Income of a Vietnamese farmer induced by plant breeding successes for major arable crops since UPOV membership vs. other income in arable farming (in USD)



Source: Own figure and calculations.

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)

OVERVIEW

- Situation in UPOV
- **New UPOV material**
- PBR Application Tool (EAF)

Harmonization, Resources and Assistance

		Harmonization	Resources	Training & assistance
		<ul style="list-style-type: none"> • UPOV Convention • Explanatory Notes • Information materials 	<ul style="list-style-type: none"> • UPOV Lex 	<ul style="list-style-type: none"> • Distance Learning course • Trainers • UPOV events & activities • Assistance by individual UPOV members
IMPLEMENTATION	➤ Application	<ul style="list-style-type: none"> • Model Application Form 	<ul style="list-style-type: none"> • EAF project 	
	➤ Variety Denominations	<ul style="list-style-type: none"> • INF/12: “Explanatory Notes on Variety Denominations” • UPOV Code 	<ul style="list-style-type: none"> • PLUTO database 	
	➤ DUS Testing	<ul style="list-style-type: none"> • General Introduction • TGP Documents • Test Guidelines • Model Agreement (cooperation) 	<ul style="list-style-type: none"> • GENIE Database • Exchangeable software 	

Program for EXN/INF

<i>Reference</i>	<i>Explanatory Notes on:</i>	<i>Timetable</i>
UPOV/EXN/EDV/2 (revision)	Essentially Derived Varieties	Adopted by the Council in April 2017
UPOV/EXN/PPM/1	Propagating Material	Adopted by the Council in April 2017

UPOV website

- **New UPOV logo**
- **Stakeholder features**
- **UPOV Youtube channel**

UPOV

UPOV



Results of the Enforcement Seminar

Welcome

The International Union for the Protection of New Varieties of Plants (UPOV) is an intergovernmental organization with headquarters in Geneva (Switzerland).

UPOV was established by the International Convention for the Protection of New Varieties of Plants. The Convention was adopted in Paris in 1961 and it was revised in 1972, 1978 and 1991.

UPOV's mission is 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.

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Stakeholder features

- [Breeders](#)
- [Farmers and Growers](#)
- [Policy makers](#)
- [General Public](#)

[GENIE Database](#)



[UPOV Lex](#)



[Plant Variety Database \(PLUTO\)](#)

Quick Links

- [Introduction to UPOV](#)
- [Benefits of UPOV](#)
- [UPOV Collection](#)
- [Test Guidelines](#)
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BREEDERS

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⌵ Breeders

⌵ Farmers and Growers

⌵ Policy makers

⌵ General Public

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Breeders

UPOV Information

- ◆ [UPOV Membership](#)
- ◆ [UPOV Observers](#)
- ◆ [UPOV Collection \(guidance & information materials\)](#)
- ◆ [List of taxa protected by members of the Union](#)
- ◆ [Cooperation in Examination](#)
- ◆ [Calendar of meetings](#)
- ◆ [Full list of FAQs](#)

Resources

- ◆ [Databases \(see below\)](#)
- ◆ [Test Guidelines](#)
- ◆ [Directory PVP Offices](#)
- ◆ [UPOV Distance Learning Courses](#)
- ◆ [UPOV Youtube channel](#)

Key Topics

- ◆ [PBR and contracts](#)
- ◆ [Essentially derived varieties](#)
- ◆ [Notion of breeder](#)

Databases



PLUTO:
information on plant varieties, particularly variety denominations



GENIE:
information on GENera/specIEs protected by members and information related to DUS examination

UPOV Lex:

UPOV Lex contains the legislation of members of the Union

FAQs for breeders

- [Where do I apply for protection of a variety?](#)
- [Can I obtain protection for more than one country from a single application?](#)
- [Who is responsible for enforcing plant breeders' rights?](#)
- [Can I protect an existing plant or variety that I discover?](#)
- [Does the UPOV Convention allow a variety to be refused protection because it is genetically modified?](#)
- [Can I use plant variety protection to protect the following:
-a trait \(e.g. disease resistance, flower color\)
-a chemical or other substance \(e.g. oil, DNA\)
-a plant breeding technology \(e.g. tissue culture\)?](#)
- [Can I protect a hybrid variety under the UPOV system?](#)
- [Does UPOV allow molecular techniques \(DNA profiles\) in the examination of Distinctness, Uniformity and Stability \("DUS"\)?](#)

FARMERS AND GROWERS

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Farmers and Growers

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Resources

- ◆ [PLUTO database](#)
- ◆ [Benefits of UPOV \(videos & publications\)](#)
- ◆ [UPOV Youtube channel](#)

Key Topics

- ◆ [PBR and Contracts](#)
- ◆ [Symposium on the Benefits of Plant Variety Protection for Farmers and Growers \(2012\)](#)
- ◆ [All Seminars & Symposia](#)

Farmer perspectives



FAQs for farmers

- ◆ [Why do farmers and growers need new plant varieties?](#)
- ◆ [Can a farmer sell seed of a protected variety without the authorization of the breeder?](#)
- ◆ [Can a farmer replant seed of a protected variety without the authorization of the breeder?](#)
- ◆ [What is the effect of plant variety protection on varieties that are not protected \(e.g. traditional varieties, landraces, etc.\)?](#)
- ◆ [How do I know if a variety is protected?](#)
- ◆ [Is it possible for subsistence farmers to exchange propagating material of protected varieties against other vital goods within the local community?](#)
- ◆ [Under the UPOV system, breeders decide the conditions and limitations under which they authorize the exploitation of their protected varieties. Can farmers, for instance, be allowed to exchange seeds of protected varieties freely within the local community?](#)

POLICY MAKERS

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Policy makers

UPOV Information

- ◆ [UPOV – what it is, what it does](#)
- ◆ [UPOV membership](#)
- ◆ [UPOV Observers](#)
- ◆ [Guidance on How to Become a Member of UPOV](#)
- ◆ [Guidance for members of UPOV on how to ratify or accede to the 1991 Act of the UPOV Convention](#)
- ◆ [Guidance for Members of UPOV](#)
- ◆ [FAQs](#)

Resources

- ◆ [Introduction to UPOV \(Microsite\)](#)
- ◆ [UPOV Collection \(guidance & information materials\)](#)
- ◆ [UPOV Lex \(database of legislation of members\)](#)
- ◆ [Plant variety protection statistics](#)

Key Topics

- ◆ [Symposium on the Benefits of Plant Variety Protection for Farmers and Growers \(2012\)](#)
- ◆ [PVP and Technology Transfer: The Benefits of Public-Private Partnership \(2011\)](#)
- ◆ [Responding to the challenges of a changing world \(World Seed Conference\) \(2009\)](#)
- ◆ [Seminars & Symposium](#)
- ◆ [Key issues](#)

Situation in UPOV



[\(Click to enlarge\)](#)

Impact of plant variety protection(videos)

Viewpoints of:

- ◆ [policy makers](#)
- ◆ [research institutes](#)
- ◆ [breeder \(industry\) associations](#)
- ◆ [farmers and growers](#)

Importance of plant variety protection (videos)

Viewpoints of:

- ◆ [research institutes and public-private partnerships](#)
- ◆ [breeders](#)
- ◆ [examples of use of plant variety protection](#)

GENERAL PUBLIC

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General Public

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- ◆ [Full list of FAQs](#)

Resources

- ◆ [Impact study](#)
- ◆ [Plant variety protection statistics](#)
- ◆ [Benefits of UPOV \(videos & publications\)](#)
- ◆ [UPOV Youtube channel](#)

Key Topics

- ◆ [Symposium on the Benefits of Plant Variety Protection for Farmers and Growers \(2012\)](#)
- ◆ [Seminar on Plant Variety Protection and Technology Transfer: The Benefits of Public-Private Partnership \(2011\)](#)
- ◆ [Responding to the challenges of a changing world \(World Seed Conference\) \(2009\)](#)
- ◆ [Seminars & Symposia](#)

Examples of the use of plant variety protection



[Video: PVP in Uruguay](#)



[Video: PVP in Uruguay](#)



[Ashiro Rindo Story \(Japan\)](#)

Use of Plant Variety Protection by the Faculty of Agronomy of the 'Universidad de la República' of Uruguay
Transcriptions: [FR](#), [DE](#)



Welcome

The International Union for the Protection of New Varieties of Plants (UPOV) is the organization with the highest international reputation for protecting plant breeders' rights. Sign in now to see your channels and recommendations!

UPOV was established in 1961. The Convention was signed in Paris in 1961.

UPOV's mission is to promote the protection of plant breeders' rights and to encourage the development of new plant varieties.

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Results of the Enforcement Seminar

Stakeholder features

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IMPACT OF PLANT VARIETY PROTECTION

Perspectives of policy makers

- Michel Cormier - Canadian Food Inspection Agency** UPOV 68 views • 3 days ago
- Enriqueta Molina Macias - SNICS, Mexico** UPOV 122 views • 3 days ago
- Keun-Jin Choi - Korea Seed & Variety Service, Republic of Korea** UPOV 52 views • 3 days ago

IMPACT OF PLANT VARIETY PROTECTION

Perspectives of research institutes

- Ruaraidh Sackville Hamilton - International Rice Research Institute** UPOV 53 views • 3 days ago
- Shadrack R. Moepli - Agricultural Research Council** UPOV 77 views • 3 days ago
- Yves Lespinasse - National Institute for Agricultural Research** UPOV 45 views • 3 days ago

ABOUT UPOV

Mission Statement

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Office of UPOV

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Benefits of the UPOV System



NEW [Video: PVP in Ecuador](#)



NEW [Video: PVP in Uruguay](#)
Use of Plant Variety Protection by the Faculty of Agronomy of the 'Universidad de la Republica' of Uruguay
Transcriptions: [FR](#), [DE](#)



NEW UPOV Trilogies Publication
● [Executive Summary](#)

[Symposium on Plant Breeding for the Future](#) (2011)
[Seminar on Plant Variety Protection and Technology Transfer: The Benefits of Public-Private Partnership](#) (2011)
[Symposium on the Benefits of Plant Variety Protection for Farmers and Growers](#) (2012)



[UPOV Report on the Impact of Plant Variety Protection](#)



[Ashiro Rindo Story](#)



[Introduction to UPOV](#)

Using the UPOV System to benefit custodians of native wild germplasm in Argentina



Coming soon
on UPOV website!

“The royalties derived from commercialization of the variety are shared between the breeder and **the provinces that contributed the native plant genetic resource.**”

Using the UPOV System to benefit custodians of native wild germplasm in Argentina



“A large part of the profits, basically, **50 per cent**, that are generated from the commercialization **return to those provinces.**”

Using the UPOV System to benefit custodians of native wild germplasm in Argentina

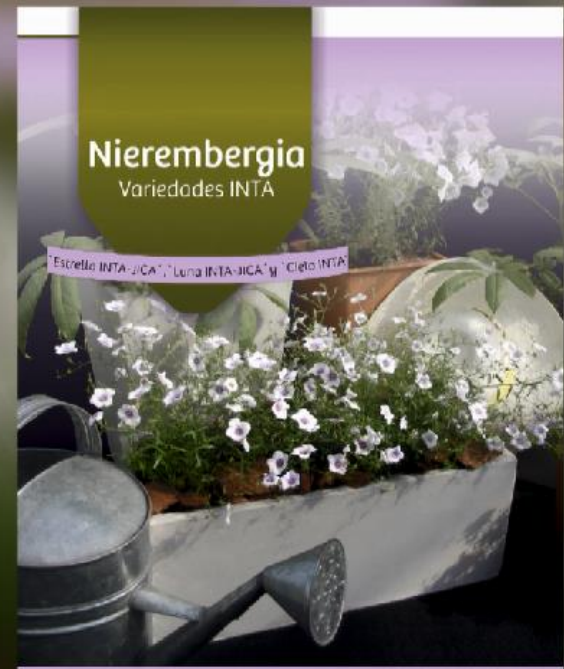


“the erosion/loss from their natural habitat is reduced and this is therefore our own contribution, working together with INTA, for the conservation of our native natural resources.””



the plant variety protection system, using property titles, under the seed law, which conforms to the UPOV Convention,

UPOV



and systems for access to plant genetic resources



OVERVIEW

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- **PBR Application Tool (EAF)**



UPOV

World-wide support systems for breeders

UPOV



Expansion of UPOV's PBR Application Tool (EAF)

Stakeholder features

- Breeders

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NEW!

PBR Application Tool (EAF)

GENIE Database



UPOV Lex



Plant Variety Database (PLUTO)

- Distance Learning Courses
- Seminars & Symposia
- FAQs

UPOV's PBR Application Tool

Quick and easy transmission
of application data
for Plant Breeders' Rights

www.upov.int

UPOV

UPOV- PBR Application Tool (Electronic Application Form (EAF))

- Easy way to transfer and re-use your PBR application data, using an efficient multi-lingual e-system available online for all participating countries worldwide



UPOV EAF

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- Tutorials
- User Guides
- PVP-XML
- Payment of fees
- Web Services
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PBR Application Tool (EAF)

What are the features of the EAF? [more details](#)

- An **online PBR application tool** that can be used to provide application data to all p system to system communication)
- Application forms can be displayed in a **range of languages** (note: answers must be
- **Information can be automatically re-used in subsequent application data**
- Different **user roles can be specified** (e.g. drafter, signatory, translator, agent, proc
- **Controlled access to all PBR application data**
- Secure and confidential

UPOV members and crops currently covered by EAF

AUTHORITY	APPLE FRUIT VARIETIES				
Argentina	✓				
Australia	✓				
Chile	✓				
China		✓		✓	
Colombia				✓	
France	✓	✓	✓	✓	✓
Kenya	✓	✓	✓	✓	✓
Netherlands	✓	✓	✓	✓	✓
New Zealand	✓	✓	✓	✓	
...					

English
 French
 German
 Spanish
 Chinese
 ...?

UPOV members (16) and crops (5) currently covered by PBR Application Tool (EAF)

AUTHORITY	APPLE FRUIT VARIETIES	LETTUCE	POTATO	ROSE	SOYBEAN
Argentina	√		√	√	√
Australia	√	√	√	√	√
Chile	√	√	√	√	√
China		√		√	
Colombia				√	
France	√	√	√	√	√
Kenya	√	√	√	√	√
Netherlands	√	√	√	√	√
New Zealand	√	√	√	√	
Norway	√	√	√	√	√
Republic of Moldova	√	√	√	√	√
Switzerland	√	√	√	√	√
Tunisia	√	√	√	√	√
Turkey	√	√	√	√	√
United States of America		√	√		√
Uruguay	√		√		√

UPOV - PBR Application Tool

Key benefits

- **Online PBR application tool** to provide application data to participating PVP Offices in required format (hard copy, e-mail notification, system-to-system)
- Application forms can be displayed in **range of languages** (answers must be provided in an acceptable language for the PVP Office)
- Variety data can be **re-used** in subsequent applications
- Different **user roles** can be specified (e.g. drafter, signatory, translator, agent, procedural representative)
- **Controlled access** to all PBR application data
- **Secure** and confidential
- **Easy access** to PVP application forms
- **Track** your applications...

Next developments

PBR Tool- EAF Version 2.0 (January 2018)

- Expansion
 - **members**
 - **languages**
 - **crops/species**

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