# View and Policy about enforcement and protection of Plant breeders 'rights

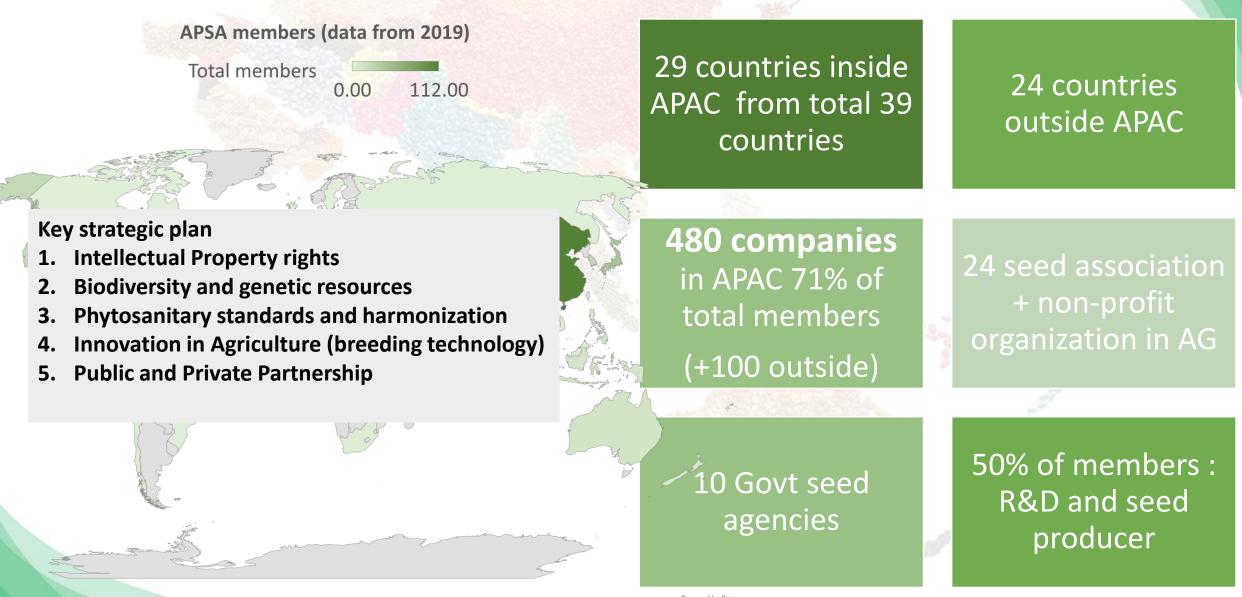
Dr. May Kanokwan Chodchoey
APSA Executive Director (may@apsaseed.org)
EAPVP : Seminar on the Enforcement of Plant Breeders 'rights
12 January 2022



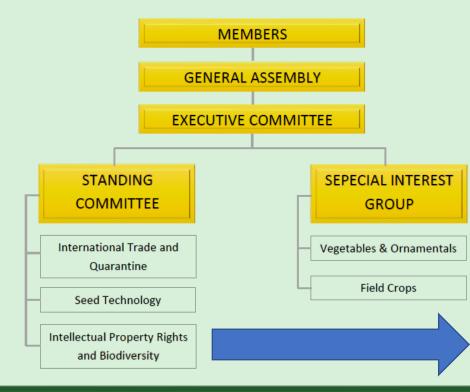
**Our mission** 

# "Sustainable agriculture through the production and trade of quality seeds for the WORLd"

# **Asia and Pacific Seed Association**



#### APSA STRUCTURE



#### APSA SECRETARIAT

#### **SC IPR&Biodiversity members**

AP)

Name	Organization	Position
Dr Arvind Kapur	Acsen Hyveg Private Limited	Chair
Mr Liam Gimon	AIB	Co-Chair
Ms Anke van den Hurk	Plantum	Member
Mr Francois Burgaud	Groupement National Interprofessionnel Des Semences Et Plants(GNIS)	Member
Mr Viet Anh Khuat	Syngenta Asia Pacific Pte. Ltd.	Member
Mr Michael Leader	Bayer (South East Asia) Pte Ltd.	Member
Ms Rosa Natividad P. Villanueva	East West Seed Co.,Ltd.	Member
Mr Fabrice Mattei	Rouse & Co. International (Thailand) Ltd.	Member
	Dr Arvind Kapur Mr Liam Gimon Ms Anke van den Hurk Mr Francois Burgaud Mr Viet Anh Khuat Mr Michael Leader Ms Rosa Natividad P. Villanueva	Dr Arvind KapurAcsen Hyveg Private LimitedMr Liam GimonAIBMs Anke van den HurkPlantumMr Francois BurgaudGroupement National Interprofessionnel Des Semences Et Plants(GNIS)Mr Viet Anh KhuatSyngenta Asia Pacific Pte. Ltd.Mr Michael LeaderBayer (South East Asia) Pte Ltd.Ms Rosa Natividad P. VillanuevaEast West Seed Co.,Ltd.Mr Fabrice MatteiRouse & Co. International

#### APSA **Our key stakeholders** APAARI CropL **UPOV** FOOD AND AGRICULTURE ORGANIZATION **OF THE UNITED NATIONS** american asta seed trade AFSTA association LA sociality Reed Trade Association The Att Can Seed Trade Association Trade Association and the du Commerce des SEED IS LIFE EED TES International Seed Federation uroseeds . Embracing Nature orld Vegetable Center Seed Association of the Americas

# Plant breeders 'rights

- Plant variety rights (PVR)
- Rights granted to breeders to protect new varieties of plants that are distinguishable, uniform and stable.
- Legally enforceable
- Authorization is required for multiplication, propagation, offering for sale, selling or other marketing, exporting, importing and stocking for commercialization or propagation or multiplication (Article 14 of UPOV 1991)



**UPOV** 

#### DEVELOPMENT IS NECESSARY

# Seed production or seed multiplication

#### Intellectual property right protection (germplasm security)



- ✓ Seed producers
- ✓ Growers
- ✓ Tollers
- ✓ Nursery
- ✓ Breeders
- ✓ Inventory, seed lab, operation, etc
- Retailer/trader inside or across country/region

# **Key Challenges ??**



#### **IP INFRINGEMENT** = THE NON – RESPECT OF IP RIGHTS HELD BY THE RIGHT HOLDER

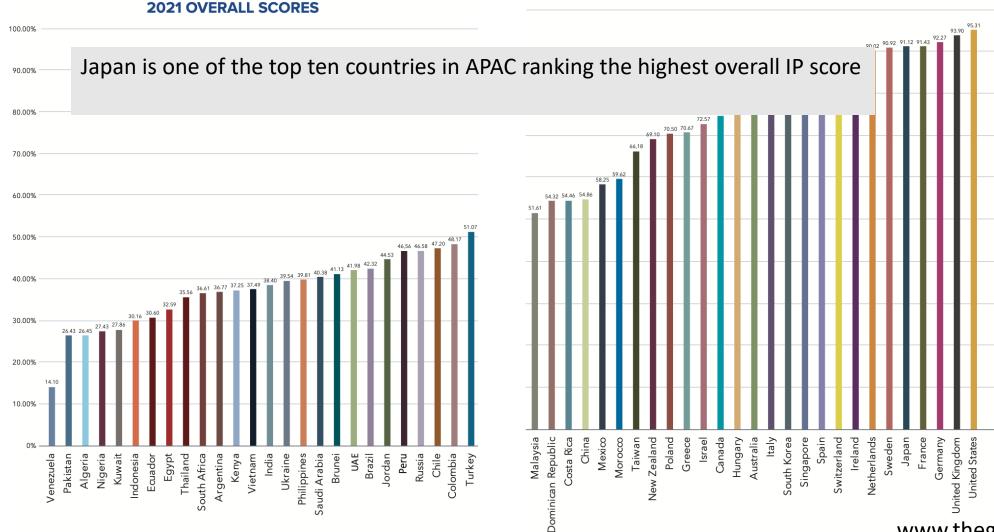
- Can be : accidental
  - ignorance
  - to legally challenge existing IP rights

**<u>IP PIRACY</u>** = UNAUTHORIZED COPYING, DISTRIBUTION AND SELLING OF IP PROTECTED PRODUCTS

- for a significant period of time,
- intentionally committed
- to financial gain,
- on a commercial basis

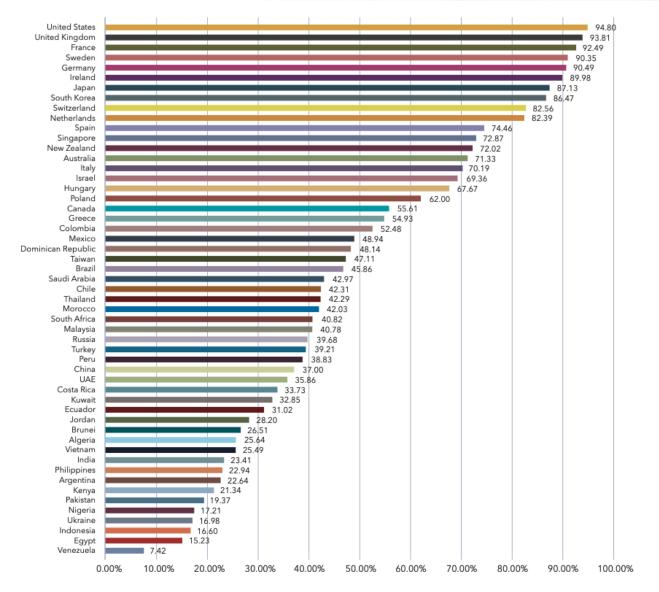
#### THE MAIN IP IN THE VEGETABLE SEED SECTOR CONCERN <u>PLANT VARIETY RIGHTS</u> (PVR) AND TRADEMARKS

## US. Chamber International IP index in 2021

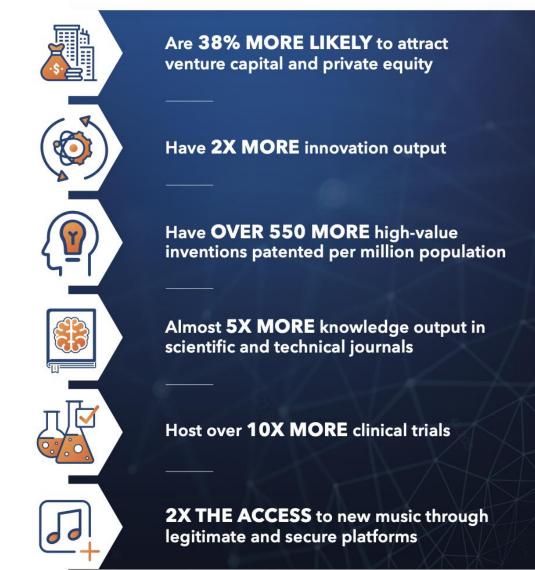


www.theglobalipcenter.com

## Enforcement score



#### ECONOMIES WITH EFFECTIVE IP SYSTEMS



# Learning from the FAO report on status of seed legislation and policies in the APAC region

Food and Agriculture Organization of the United Nations

> Status of seed legislation and policies in the Asia-Pacific region



"more-developed" seed sector	"less-developed" seed sector
• Japan	• Iran (no private sector resp.)
<ul> <li>Australia (no private sector resp.)</li> </ul>	• Kazakhstan (no private sector resp.)
New Zealand	• Kyrgyzstan (no private sector resp.)
• Republic of Korea	• Myanmar
o Thailand	• Nepal
<ul> <li>India (no public sector resp.)</li> </ul>	• Sri Lanka
o China	• Afghanistan (no private sector resp.)
Bangladesh	• Bhutan (no private sector resp.)
Indonesia	• Cambodia
Pakistan	<ul> <li>Lao PDR (no response)</li> </ul>
Philippines	o Malaysia
Vietnam	Total 23 countries

Status of seed legislation and policies in the Asia-Pacific region (apsaseed.org)

# Learning from the FAO report on status of seed legislation and policies in the APAC region

- 1. There is a wide variation in seed sector laws and regulations in the Asia and Pacific region
- There has been a clear shift in seed production from the public to the private sector – particularly for vegetables and hybrid field crops
- 3. Still, the informal sector remains the default source of seed for selfpollinating cereals, legumes and oilseeds
- Variety testing systems established long ago for staple food crops are no longer appropriate (e.g. stringent DUS and VCU testing requirements for vegetables found in some countries.)

Status of seed legislation and policies in the Asia-Pacific region (apsaseed.org) Learning from the FAO report on status of seed legislation and policies in the APAC region

**Important key learning :** 

There is a need to regulate the seed industry to prevent malpractice, but overregulation may actually increase malpractice.

Laws and regulations should be framed in a way that encourages compliance.

Status of seed legislation and policies in the Asia-Pacific region (apsaseed.org)

## Study on PVP laws in APAC by APSA in 2019

- This study was implemented in consultation with the APSA Standing Committee on Intellectual Property Rights and Biodiversity and was carried out from August to October 2019.
- Questionnaires were sent to the office responsible for plant variety protection (PVPO) in 16 countries/territories to collect information on the current status of the law and its implementation. This was mostly to obtain <u>factual information</u> about their PVP system.
- A separate questionnaire was sent to the National Seed Association or other private sector representatives to seek their <u>opinions</u> on how well the PVP system is working in practice.
- Contact was also made with some multi-national companies in the region to learn their experience of using PVP in different countries.

https://www.apsaseed.org/storage/2020/09/PVP%20law%20in%20APAC-%20executive%20summary-31%20Aug\_83030.pdf

#### Current usage of the PVP system

Number of rights granted in 2018 and % partition between domestic/foreign applicants

UPOV members	5		Non-UPOV me	mbers
China	1990	( <b>60</b> :40 approx)	India	477 ( <b>99</b> :1)
Japan	758	( <b>62</b> : 38)	Indonesia	449 ( <b>94</b> :6)
Korea	574	( <b>78</b> : 22)	Chinese Taipei	60 ( <b>85</b> :15)
Australia	222	(43 : <b>57</b> )	Malaysia	48 (37: <b>63</b> )
New Zealand	76	(49 : <b>51</b> )	Thailand	35 ( <b>100</b> :0)
Vietnam	128	( <b>73</b> : 27)	Philippines	17 ( <b>82</b> :18)

Most PVP offices receive the majority of their applications from domestic breeders; exceptions are Australia, Malaysia and New Zealand.

#### Total rights granted for different crops (%)



	Cereals/grains	Vegetables	Ornamentals	Others*
Australia	17	3	54	26
China	82	6	6	6
India	78	4	-	18
Indonesia	34	45	2	19
Japan	6	7	78	9
Когеа	14	20	55	11
Malaysia	10	5	59	26
New Zealand	10	5	25	60
Philippines	68	24	-	8
Chinese Taipei	2	8	80	10
Thailand	87	-	6	7
Vietnam	58	5	17	20

\* Includes forages, roots and tubers, fruits and nuts, industrial crops, trees and fungi; the mix varies widely depending on the focus of breeding activities

#### Main reasons for seeking PVP\*



	Assert ownership	Protect against theft	Collect royalties	
Australia	$\checkmark$	$\checkmark$		
China	$\checkmark$	$\checkmark$	$\checkmark$	
India	$\checkmark$	$\checkmark$		
Indonesia	$\checkmark$	$\checkmark$	$\checkmark$	
Japan		$\checkmark$		
Korea	$\checkmark$			
Malaysia	$\checkmark$	$\checkmark$		
New Zealand	$\checkmark$	$\checkmark$	$\checkmark$	
Philippines	$\checkmark$			
Chinese Taipei		$\checkmark$	$\checkmark$	
Thailand				
Vietnam	$\checkmark$			

\* Reasons will also vary between crops, depending on the perceived risks and opportunities.

#### Ranking of top five protected crops/genera\*

Australia	Prunus (all stone fruits), Potato, Rose, Wheat, Sugar cane
China	Rice, Maize, Wheat, Soybean, Cotton
India	Rice, Cotton, Maize, Wheat, Mustard
Indonesia	Rice, Maize, Yard-long bean, Cucumber, Sweet corn
Japan	Chrysanthemum, Rose, Carnation, Petunia, Hydrangea
Korea	Rose, Chrysanthemum, Rice, Pepper, Lily
Malaysia	Ornamentals, Forest trees, Rice, Fruits, Vegetables
New Zealand	Rose, Potato, Apple, Ryegrass, Tulip
Philippines	Maize, Rice, Eggplant, Bitter gourd, Papaya
Chinese Taipei	Phalanopsis, Poinsettia, Chrysanthemum, Oncidium, Rose
Thailand	Maize, Rice, Dendrobium, Sugar cane, Soybean
Vietnam	Rice, Maize, Chrysanthemum, Anthurium, Potato
* Total rights granted over multiple years	



#### Reasons for not obtaining protection

General comments from private sector were as follows:-

Protection is not sufficiently effective/lack of enforcement

Process is too slow/complicated

May cause delay in marketing

Concern about security of the testing system

## **Disputes and Enforcement**

- Most countries have a special procedure for handling disputes about PVP.
- Most say disputes rarely/never go to the civil courts it is too expensive and it may be difficult to explain the technical details
- It is almost always the breeder's responsibility to follow up on suspected infringements of rights but in some countries PVPO may assist e.g. India, Korea and Philippines

# APSA

# Key learnings from the survey

- 1. Although PVP laws exists widely across the region, implementation and the pattern of use varies depending on the needs and priorities of the domestic seed/plant breeding industry.
- 2. Domestic breeders provide the majority of applications the system is not as international as one might expect
- 3. The organization and administration of the PVP system also varies depending on government policies for 'service provision'.
- 4. The main reasons for obtaining PVP are to assert ownership of the variety and reduce the risk of theft, <u>not</u> to obtain royalties on sales. (This may be different for ornamental crops)





# Key learnings from the survey

9. The lack (or difficulty) of enforcement is a major concern and surely one of the reasons why PVP is not used as much as expected, especially in the vegetable seed community where there is a rapid turnover of varieties. Smaller companies may lack the resources to enforce their rights and prefer to concentrate on breeding intensively to keep ahead in the market.

10.Clearly PVP is not a routine activity for many companies, it is a matter of benefit and cost analysis.





# **Opportunities to improve PBR enforcement**

- DNA marker profiles should be accepted by the PVP offices for opposition.
- Collaborate with all stakholders in seed supply chain to educate on the value of PBR and IP protection practices.
- National PBR laws and regulations should be consistent with UPOV obligations and conditions.
- Promoting harmonization in testing procedures and sharing information between countries will make PVP more attractive to breeders. The UPOV 'PRISMA' system should facilitate this if it is widely adopted.
- Formation of PBR enforcement organization in the region (like SIPA and AIB)



Vegetable Seed Production Good Practice Guide

PREPARED BY APSA's Vegetables and Ornamentals Special Interest Group (SIG) and ISF Working Group Vegetable Seed Production

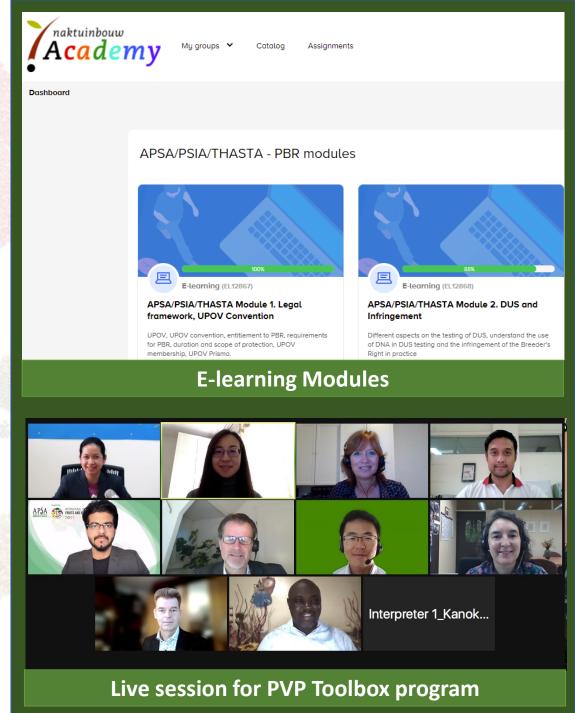
#### APSA PVP Toolbox program in collaboration with Naktuinbouw & UPOV E-learning Modules

#### **Objectives:**

- To create the awareness on the plant variety protection, plant breeders 'rights under UPOV1991 convention for key counterparts in the seed industry especially farmers.
- To build the capacity of national seed associations and their stakeholders on the importance of Plant Variety Protection and UPOV1991 convention through a tailer-made program specific for each target country.
- To create the awareness on the commercialization of new developed plant varieties for all departments (breeders, seed producers, sales, and regulatory affairs) related to PVP application and commercialization of the new developed variety.

#### Activities:

- 1. E-learning modules for 25 public and private sector's representatives from Philippines Seed Industry Association (PSIA) and Thai Seed Trade Association (ThaSTA)
- 2. Public Live session on October 8, 2021.



#### Seed Innovation and Protection Initiative (SIPI): update and proposal

# SIPI Vision and goal

#### Vision

To set up a Seed Innovation and Protection Initiative (SIPI) in the Vegetable Seed Sector focused on APAC region

SIPI would be a separate legal entity (independent from APSA) and work closely with APSA

#### Goal

The goal is the creation of a neutral and independent association\* ["The Bureau'], based on ownership and support from the major Asian and other international integrated vegetable seed companies

#### **SEED PIRACY HARMS BOTH FARMERS AND INNOVATORS**

SEED FROM A LEGAL SOURCE

By selling illegally reproduced seeds, you run the very real and immediate risk of violating PVP laws, but also putting at risk the profits of the farmer and the seed trade. Plant variety protection is a legal tool for innovators to protect their innovations and to stop seed piracy.

Together we can fight against seed piracy with our integrity!

SEED FROM AN ILLEGAL SOURCE



APSASEED.ORG



**References :** 

ISF-APSA Vegetable Seed Production Good Practice Guide <u>https://www.apsaseed.org/storage/2020/10/APSA%20ISF%20Vegetable%20S</u> <u>eed%20Production%20Best%20Practices%20Guidelines\_88437.pdf</u>

Euroseeds : IP Enforcement toolkit <u>16.0003-SVO-IP-enforcement-toolkit-1.pdf (euroseeds.eu)</u>

Explanatory note on the Enforcement of Breeders'rights under UPOV convention UPOV/INF/12/1 (E)

PVR summary report by Baker McKenzie baker-mckenzie-plant-variety-rights-summary.pdf (bakermckenzie.com)

FAO report : Status of Seed Legislation and policies in the Asia – Pacific region Status of seed legislation and policies in the Asia-Pacific region (apsaseed.org)

APSA

# Thank you

Standing Committee - Intellectual Property Rights and Biodiversity (IPR & BIO)



