Seminar on Awareness Raising on the UPOV System of Plant Variety Protection

Basic Principles of the UPOV Convention and Benefits of UPOV membership

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Improved Varieties

Hot pepper

Development of disease resistant variety





Dok-Ya-Cheong-Cheong
Resistant to phytophthora blight/virus

Phytophthora blight (Fungal disease):

- above : Resistant variety

- below: Susceptible variety

PREVIEW

- 1. About UPOV and Plant Variety Protection
- 2. Key Provisions of the 1991 Act of the UPOV Convention
- 3. Benefits of UPOV membership

UPOV: INDEPENDENT INTERGOVERNMENTAL ORGANIZATION

The International Convention for the Protection of New Varieties of Plants established in 1961

The International **Union** for the Protection of New Varieties of Plants

Union internationale pour la protection des obtentions végétales

Act of 1961

"The Contracting States, Convinced of the importance attaching to the protection of new varieties of plants not only for the development of agriculture in their territory but also for safeguarding the interests of breeders, [...]"

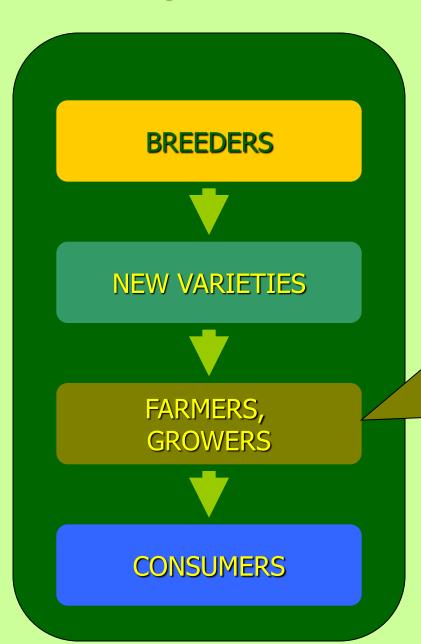
UPOV

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"



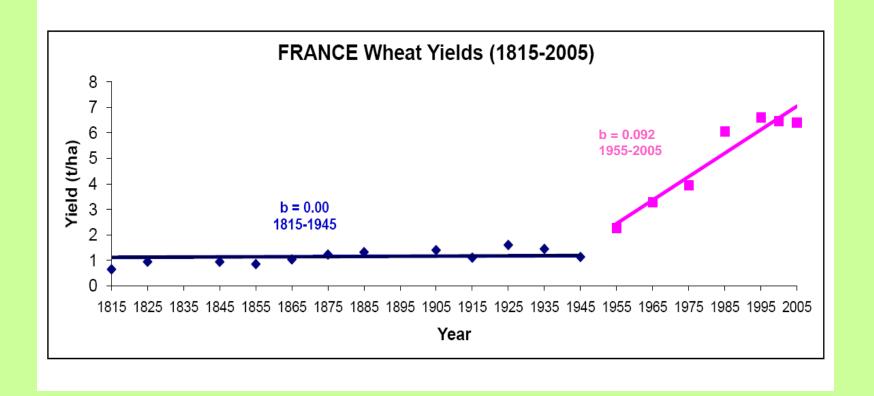
Impact of Plant Variety Protection



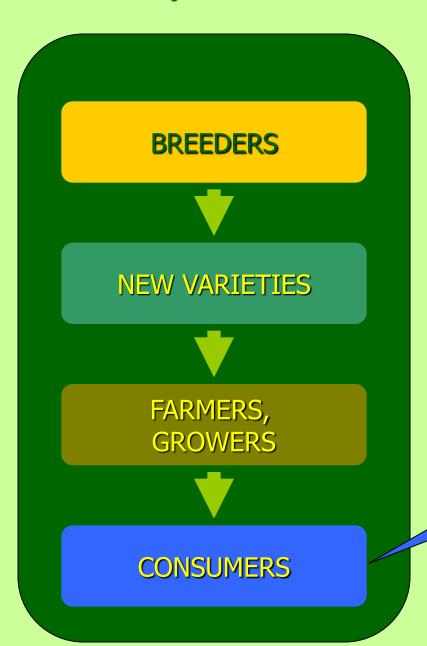
- Yield
- Profitability
- Resistance to pests and diseases
- Stress tolerance
- Harvestability
- Crop quality
- Input efficiency
- Variety diversity
- New markets ...etc.

Importance of Plant Breeding

Evolution of Wheat yield in France



Impact of Plant Variety Protection



- Reduced food cost
- Efficient land use
- Nutritional quality, taste etc.
- Storage quality
- Diversity of products

SEMINAR ON
PLANT VARIETY PROTECTION AND
TECHNOLOGY TRANSFER:
THE BENEFITS OF PUBLIC-PRIVATE
PARTNERSHIP

Yves Lespinasse



Glucosinolate content

from 100 µmoles ('Jetneuf') to 12 µmoles ('Samouraï')

LEAR: Low Erucic Acid





HOLLI: High Oleic and Low Linolenic



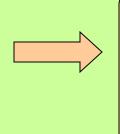




UPOV

UPOV MISSION STATEMENT

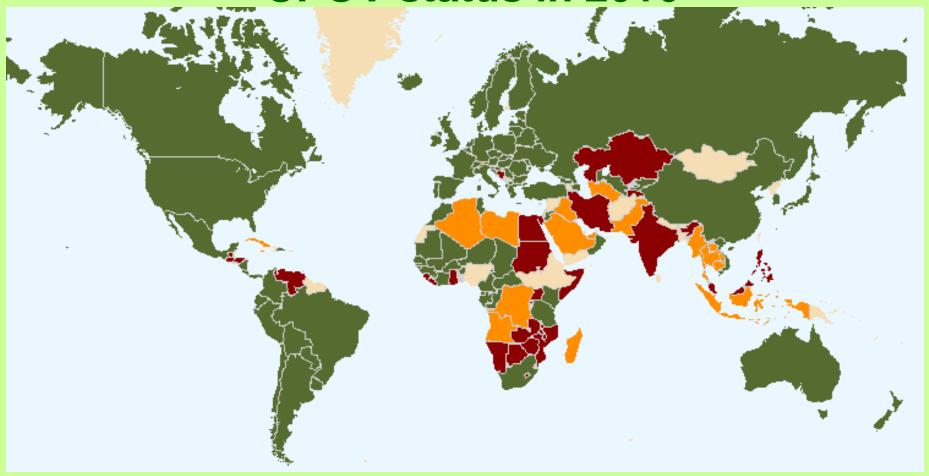
"To provide and promote an effective system of plant variety protection (PVP), [...]"



Plant Breeder's Right (PBR)



UPOV status in 2016



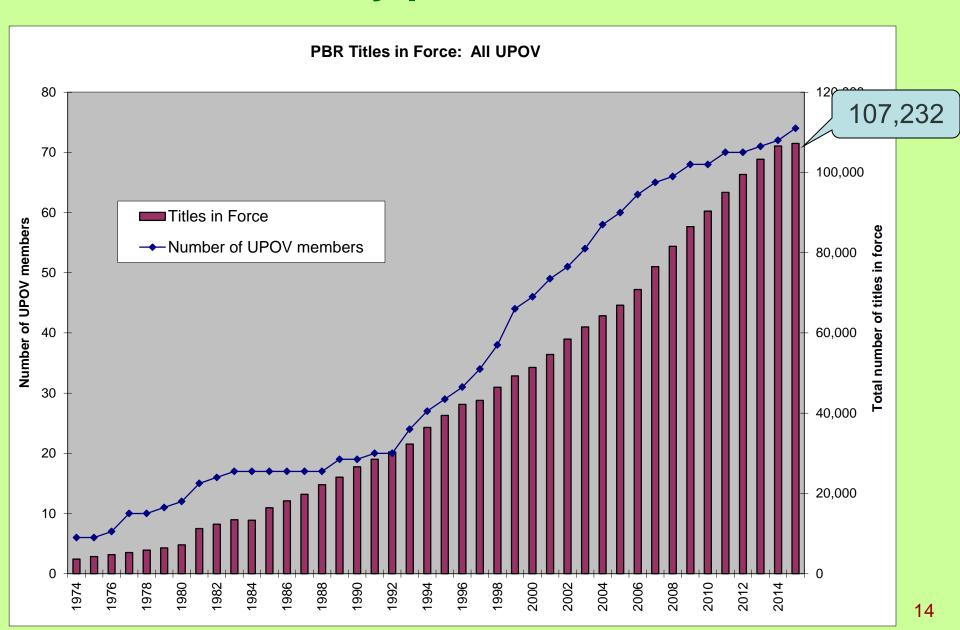
The boundaries shown on this map do not imply the expression of any opinion whatsoever on the part of UPOV concerning the legal status of any country or territory

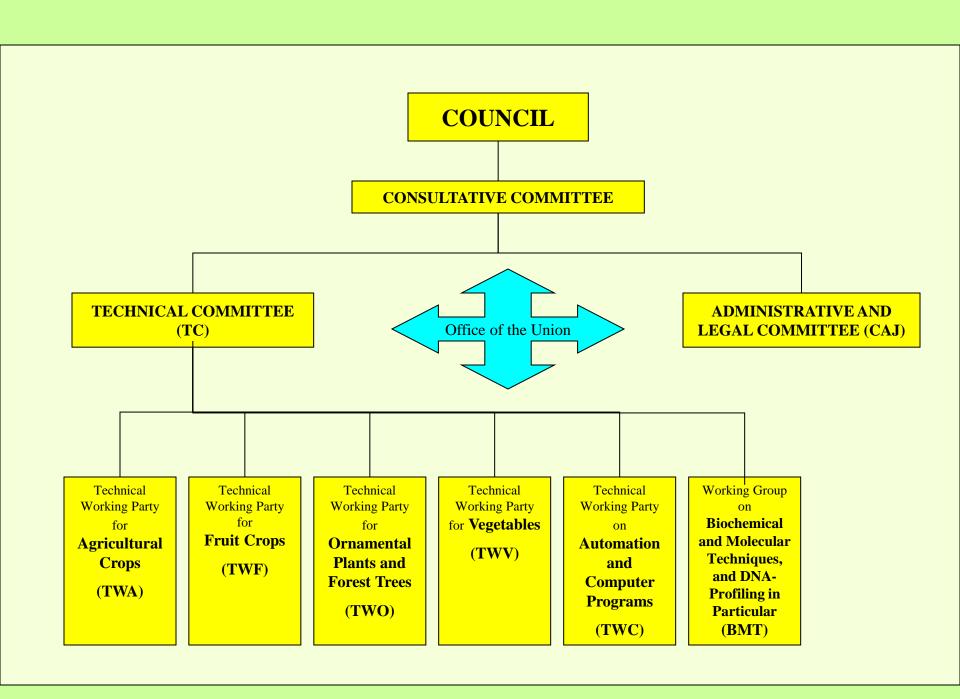
Members of UPOV (74) covering 93 States

Initiating States (15) and Organization (1)

States (25) and Organization (1) in contact with the UPOV Office

Plant variety protection statistics





PREVIEW

- 1. About UPOV and Plant Variety Protection
- 2. Key Provisions of the 1991 Act of the UPOV Convention
- 3. Further information about UPOV

SOME KEY PROVISIONS OF THE UPOV CONVENTION (1991 Act)

- (a) Breeders and varieties
- (b) Genera and species
- (c) National treatment
- (d) Conditions of protection
- (e) Breeder's right and exceptions









BREEDER

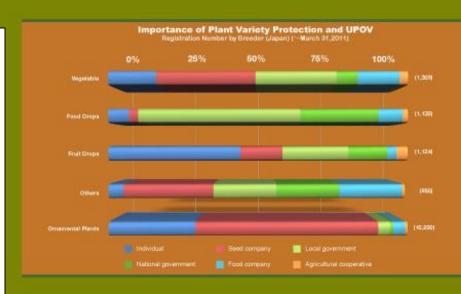
- the person who bred, or discovered and developed, a variety
- the person who is the employer of the aforementioned person or who has commissioned the latter's work, where the laws of the relevant Contracting Party so provide, or
- the successor in title of the first or second aforementioned person.

BREEDER

The person who bred, or discovered and developed, a variety

Who can protect a plant variety?

There are no restrictions on who can be considered to be a breeder under the UPOV system: a breeder might be an individual, a farmer, a researcher, a public institute, a private company etc.



Japan Registration Case Study

(click to see full view)



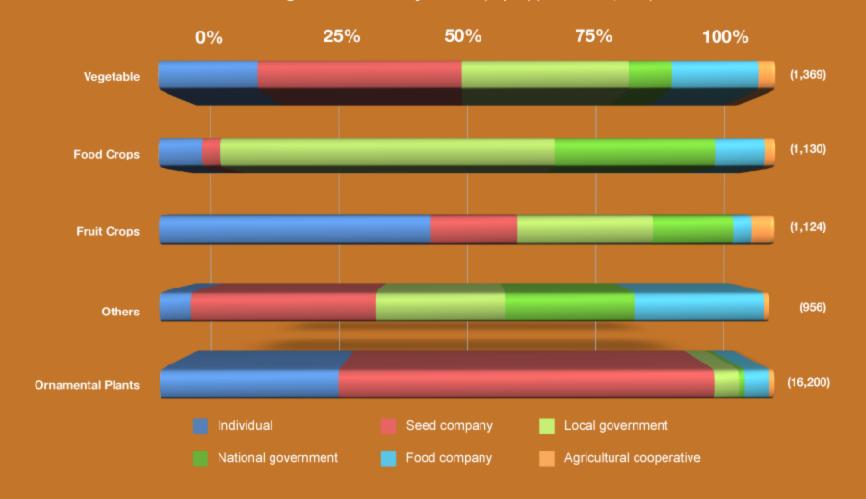








Registration Number by Breeder (Japan) (~March 31,2011)



The situation in Japan illustrates that the UPOV system is used by all types of breeders (e.g. individuals, private companies, public institutes, cooperatives etc...) and for all types of plants and crops.

BREEDER

The person who bred, or discovered and developed, a variety





DEVELOPMENT IS NECESSARY

BREEDER

The person who bred, or discovered and developed, a variety



UPOV Website

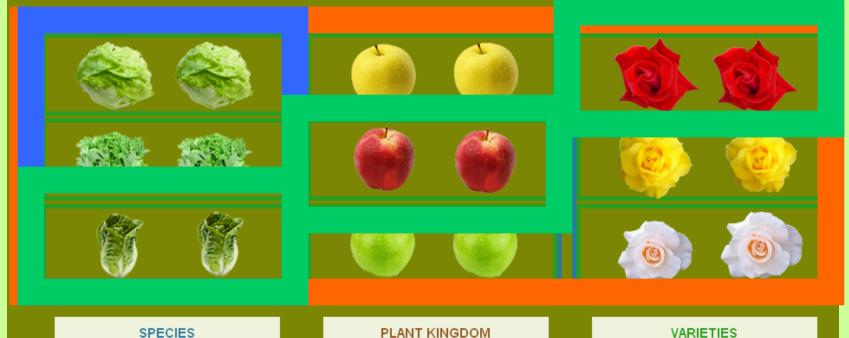
Contacts

What is a Plant Variety?

The term "species" is a familiar unit of botanical classification within the plant kingdom. However, it is clear that within a species there can be a wide range of different types of plant. Farmers and growers need plants with particular characteristics and that are adapted to their environment and their cultivation practices.

(Click to display)

A plant variety represents a more precisely defined group of plants, selected from within a species, with a common set of characteristics.



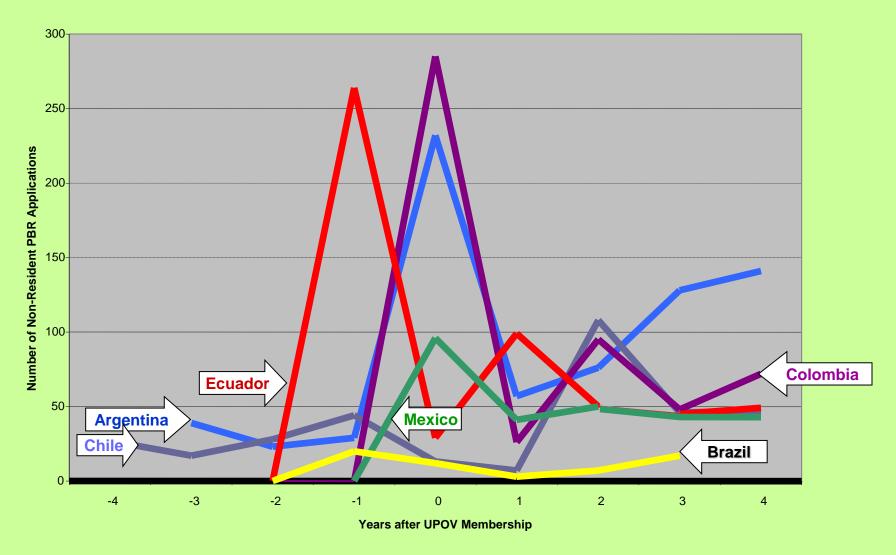
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SOME KEY PROVISIONS OF THE UPOV CONVENTION (1991 Act)

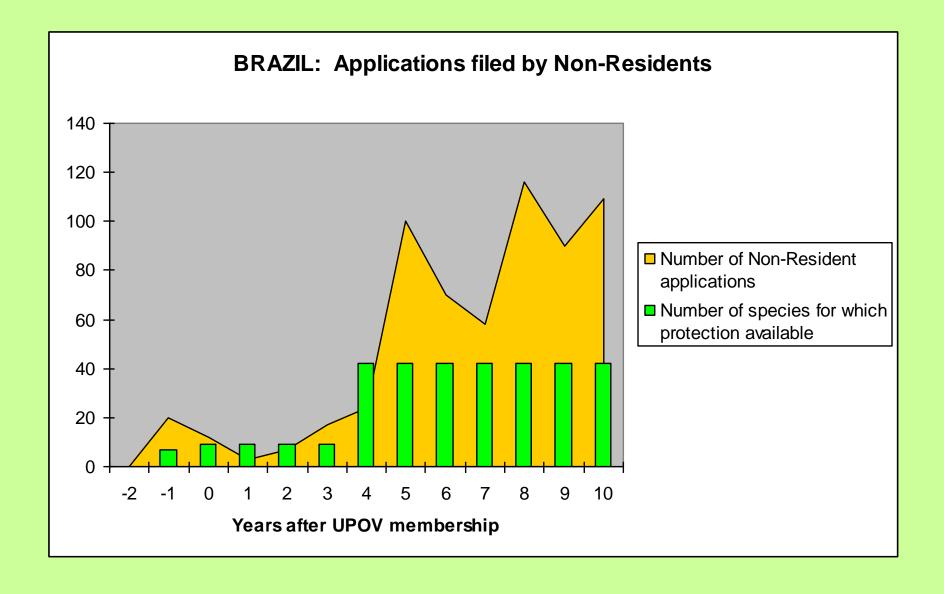
- (a) Breeders and varieties
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NON-RESIDENT PBR APPLICATIONS (Selected Countries in Latin America)



Argentina, Chile, Colombia, Ecuador and Mexico provide protection for all genera and species of the plant kingdom.

28



MEETING the CHALLENGE

- Cooperation between Authorities can involve:
 - purchase of DUS Test Reports from other Authorities
 - bilateral arrangements to remove the need for duplication of DUS Tests
 - centralized DUS testing at regional or global level
- Cooperation with Breeders
- Support from UPOV
 - other members of the Union
 - UPOV Office

SOME KEY PROVISIONS OF THE UPOV CONVENTION (1991 Act)

- (a) Breeders and varieties
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NATIONAL TREATMENT

 National treatment, within the territory of a member of the Union, for nationals and residents of any other members of the Union

SOME KEY PROVISIONS OF THE UPOV CONVENTION (1991 Act)

- (a) Breeders and varieties
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CONDITIONS FOR GRANTING A BREEDER'S RIGHT

Criteria to be satisfied

NOVELTY

DISTINCTNESS
 UNIFORMITY
 STABILITY

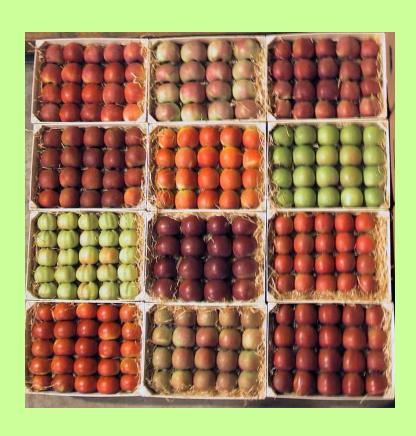
CONDITIONS FOR GRANTING A BREEDER'S RIGHT

- Novelty: No sale or disposal earlier than
 - 1 year own territory
 - 4 years other territories (6 years trees/vine) from the filing date

 Exception for varieties of recent creation (new members / extension of protection to additional genera or species)

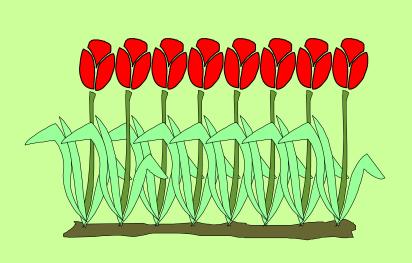
DISTINCTNESS

Apple: Fruit color Apple: Flower bud color

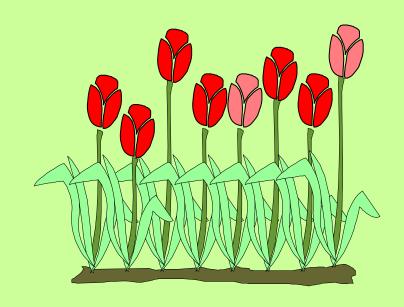




UNIFORMITY





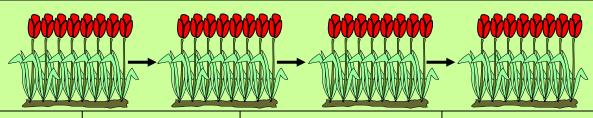


A variety lacking uniformity

STABILITY

Stable variety

The relevant characteristics of the variety do not change through the generations.



Original material

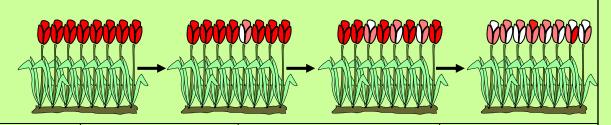
Generation 1

Generation 2

Generation N

Variety not stable / Variété non stable

The relevant characteristics of the variety <u>change</u> through the generations. The plant grouping no longer retains the expression of the relevant characteristics of the original variety.



Original material

Generation 1

Generation 2

Generation N

Nature of the DUS Examination

The "DUS Test" (field trial)



CONDITIONS FOR GRANTING A BREEDER'S RIGHT

... Other requirements

- VARIETY DENOMINATION
- FORMALITIES
- PAYMENT OF FEES

NO OTHER CONDITIONS!

DENOMINATION

- denomination must enable the variety to be identified
- must be used when offering for sale or marketing propagating material of the variety
- same denomination in all UPOV members, unless unsuitable
- must not be liable to mislead or to cause confusion (variety denomination classes)
- prior rights of third persons shall not be affected

SOME KEY PROVISIONS OF THE UPOV CONVENTION (1991 Act)

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MINIMUM DURATION OF PROTECTION

TREES and VINES 25 years

OTHER PLANTS 20 years

To be counted from the date of grant

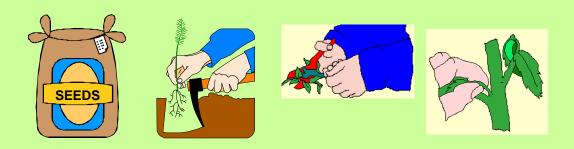
Authorization of breeder required for:

- Production or reproduction (multiplication)
- Conditioning for the purpose of propagation
- Offering for sale
- Selling or marketing
- Exporting
- Importing
- Stocking for any of the above purposes

.... for any protected variety

MATERIAL COVERED

All propagating material

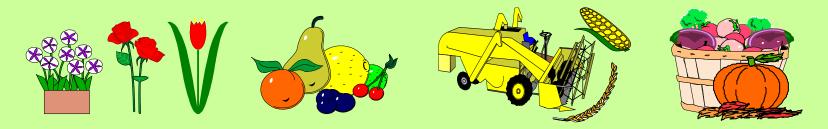


 Harvested material under certain conditions

Certain products (optional)

MATERIAL COVERED

- All propagating material
- Harvested material



if obtained through **unauthorized use** of propagating material **unless**, reasonable **opportunity** for breeder to **exercise his right**

Certain products (optional)

VARIETIES COVERED

VARIETIES:

- not clearly distinguishable from the protected variety
- whose production requires the repeated use of the protected variety
 e.g. hybrids
- which are essentially derived from the protected variety

Symposium on the Benefits of Plant Variety Protection for Farmers and Growers



Vuyisile Phehane



 Delivering high performance varieties to subsistence/smallholder farmers

- Local licensing agreement with a South African company
 - for the commercialization of some of the ARC's citrus varieties.
 - A condition of the license: ensure the participation of smallholder citrus producers in the commercialization value-chain.
- Facilitated partnership with the Citrus Growers' Association to access ARC__



EXCEPTIONS TO THE BREEDER'S RIGHT

Compulsory

Acts done:

- privately and for non-commercial purposes
- for experimental purposes
- breeding other varieties (breeder's exemption")

<u>Optional</u>

Farm-saved seed

EXCEPTIONS TO THE BREEDER'S RIGHT

Compulsory

- (i) Acts done privately and for non-commercial purposes
- propagation of a variety by a farmer exclusively for the production of a food crop to be consumed entirely by that farmer and the dependents of the farmer living on that holding

therefore

"subsistence farming" where these constitute acts done privately and for non-commercial purposes, may be considered by a UPOV member to be excluded from the scope of the breeder's right

Acts Possibly falling within the scope of the exception



Breeder's Exemption

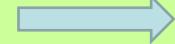
Utilizing protected varieties for breeding new varieties (Rep. of Korea)

'Daniela' tomato



Long shelf life

Segregation



Cross & selection

'Duessra' tomato



Long shelf life + more uniform fruit

HOW TO BECOME A MEMBER OF UPOV

see documents UPOV/INF/13/1 and UPOV/INF/6/4 at

http://www.upov.int/members/en/upov_membership.html

State/Intergovernmental Organization must:

- Have a law which conforms to the UPOV Convention
- Ask advice of the Council of UPOV
- If advice positive: deposit instrument of accession

PREVIEW

- 1. About UPOV and Plant Variety Protection
- 2. Key elements of the 1991 Act of the UPOV Convention
- 3. Benefits of UPOV membership

BENEFITS OF PVP SYSTEM AND UPOV MEMBERSHIP

(a) Breeders

- Diversity of breeders
- Number of breeders
- Investment in breeding

(b) Improved varieties

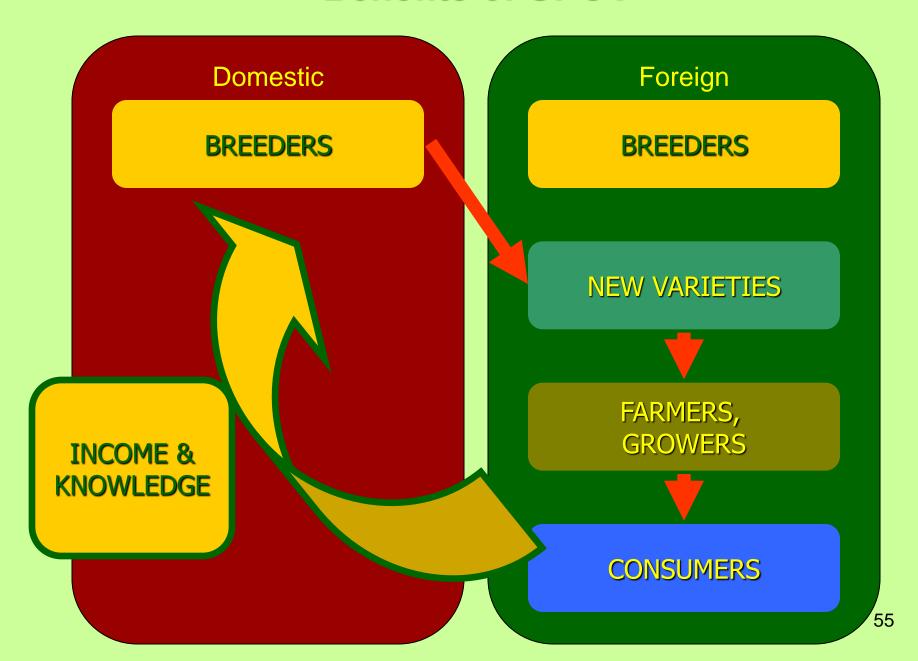
(c) Farmers, Growers, Consumers

- Delivering improved varieties to farmers growers
- Delivering added value to consumers
- Income and Knowledge

(d) International dimension

- Development of new industry on foreign markets
- Access to foreign varieties and enhanced domestic programs

Benefits of UPOV



HOW TO BECOME A MEMBER OF UPOV

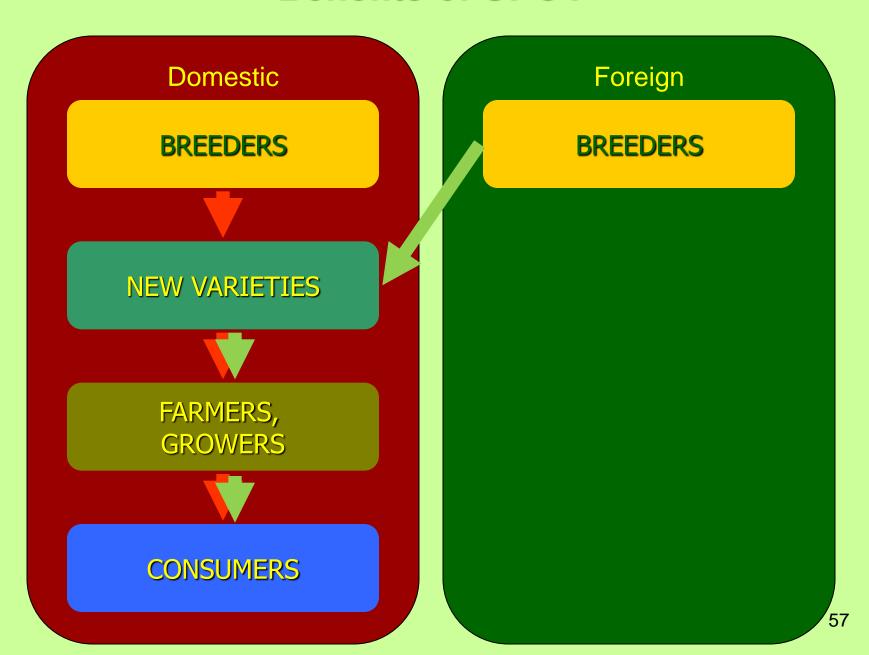
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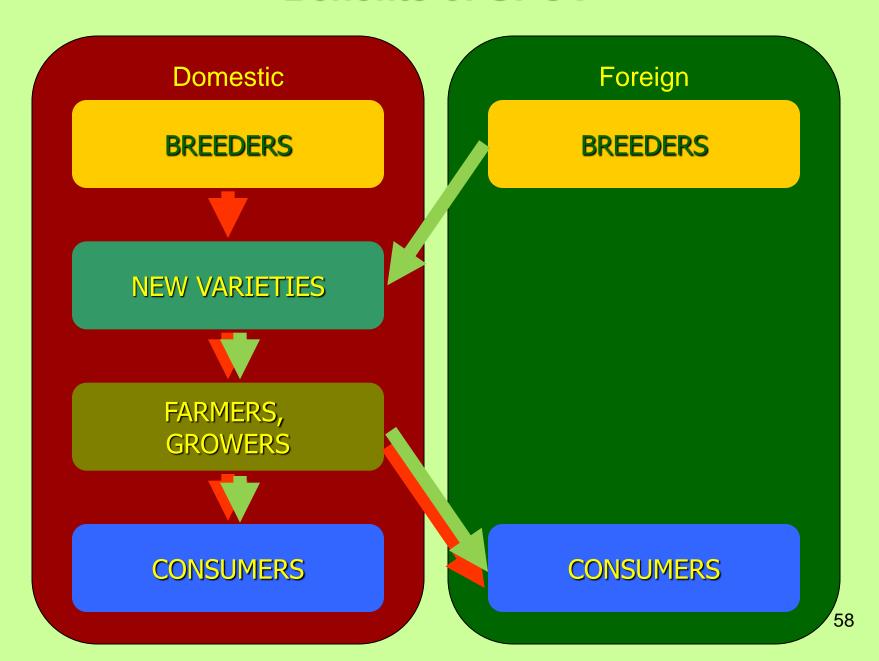
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Benefits of UPOV

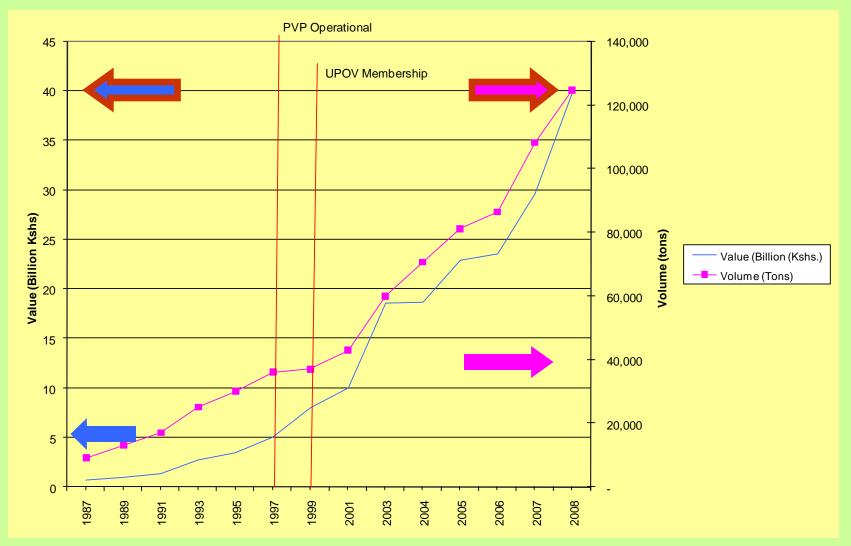


Benefits of UPOV

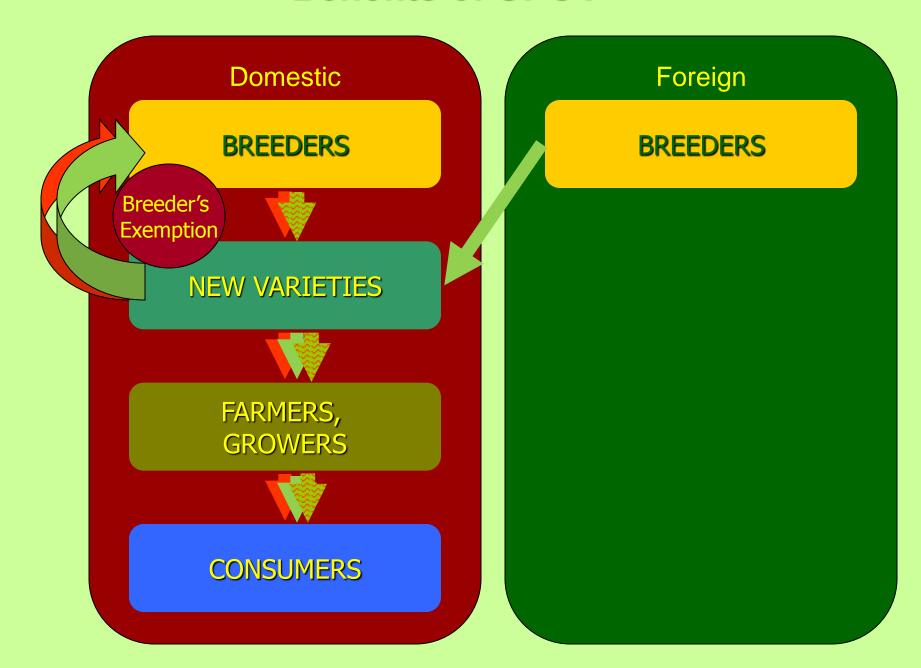


International Market Development

Export of Kenyan Cut Flowers

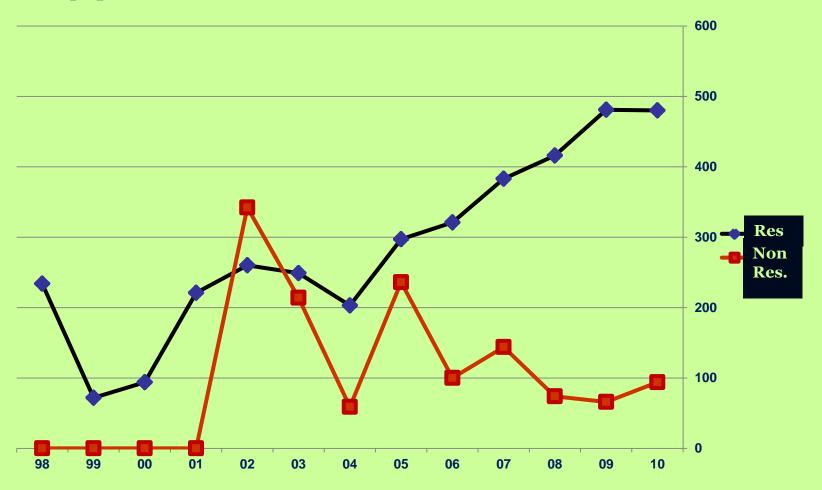


Benefits of UPOV



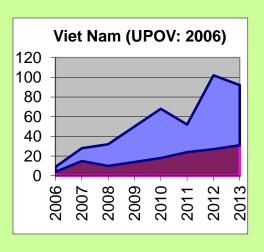
Republic of Korea

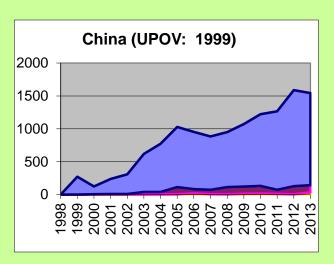
Application Ratio of Residents/Non Res.

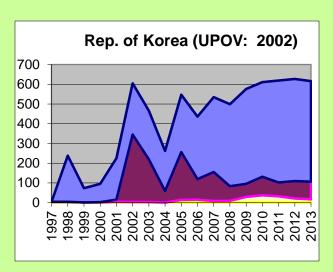


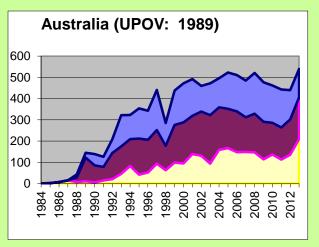
Dr. CHO, II Ho (Symposium on Plant Variety Protection - Future Strategy for Enhancing the Effectiveness of the PVP System, Seoul July 13, 2011)

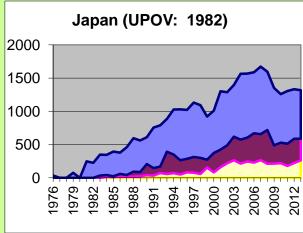
International Perspective

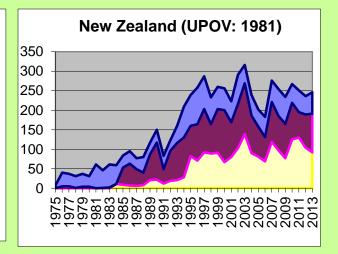














Benefits of UPOV

