

# **PVP AND DUS SYSTEM IN VIETNAM**

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Ha Noi, 25<sup>th</sup> February, 2021

# CONTENT

- PVP System in Vietnam
- DUS system in Vietnam
- International cooperation
- Pictures of DUS test in Vietnam

# **PVP SYSTEM IN VIETNAM**

## **BACKGROUND OF PVP**

#### **Basic information of PVP**

-Vietnam is a agricultural country, population is about 93 millions (70% of population are agricultural workers). So plant variety is extremely important. - Vietnam became 63rd member of UPOV on December 24th 2006  $\rightarrow$  protect all species up to now  $\rightarrow$  opportunities and challenges

- We have a total of 1849 applications by the end of 2020, 838 of which are certificated



## **HISTORY OF PVP**



- Organizations were established: PVPO, DUS test agencies
- Drafting Legislation Documents (Law, Decree...)

## 1995-2000

# 2000-2006

- Dispatching staffs to overseas
  - Invite experts from experienced UPOV member

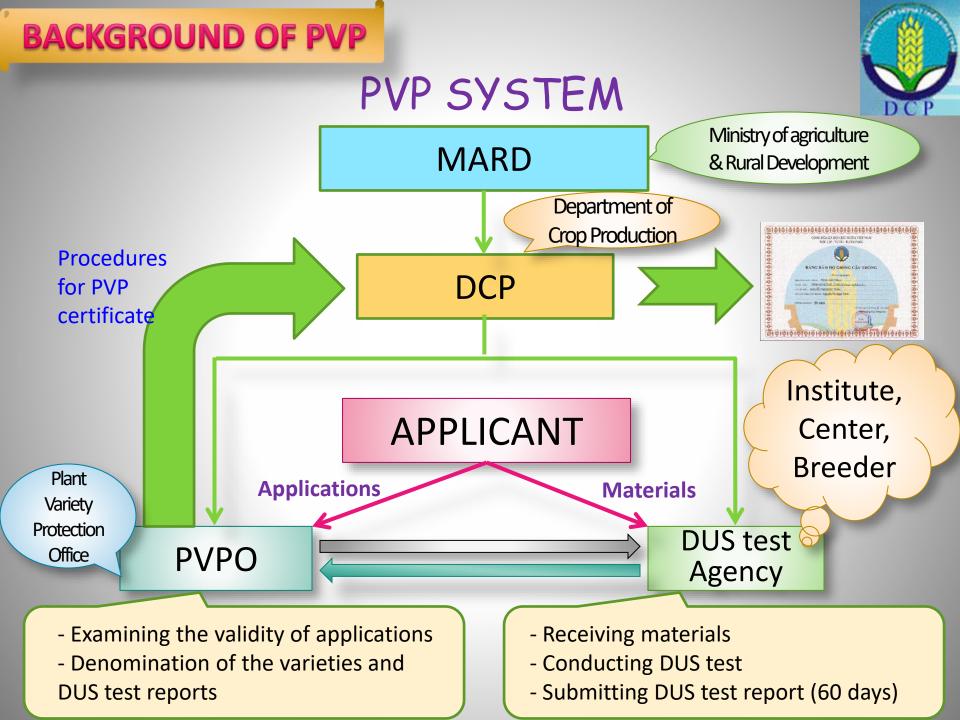
 Implementing PVP system under UPOV convention

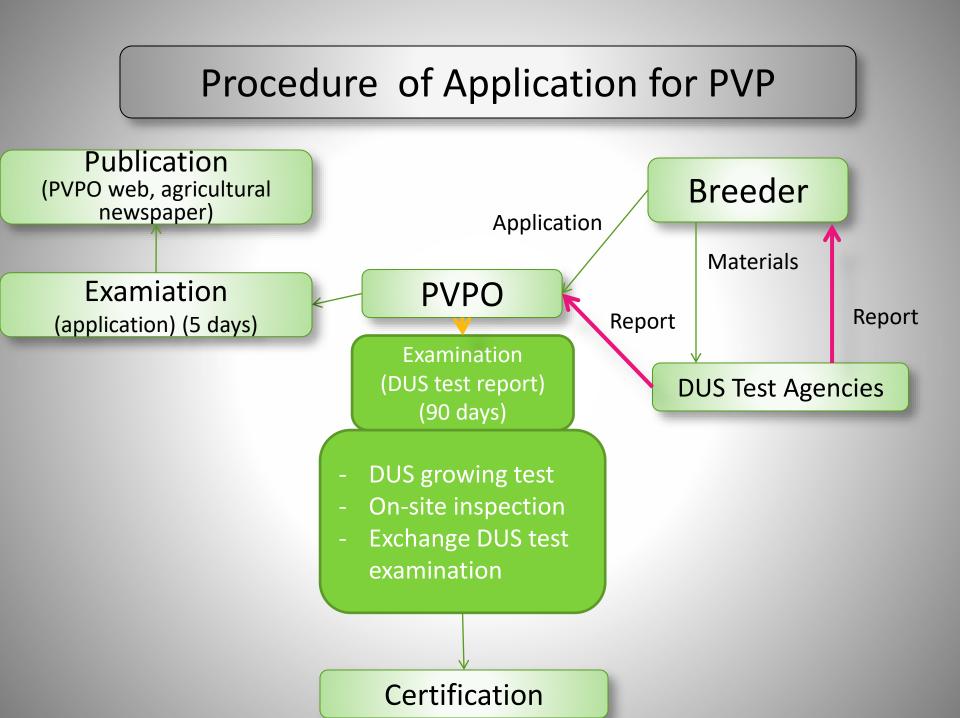
2007-now



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

Fully UPOV member since 24<sup>th</sup> December 2016
 Protect all species and genera → opportunities and challenges

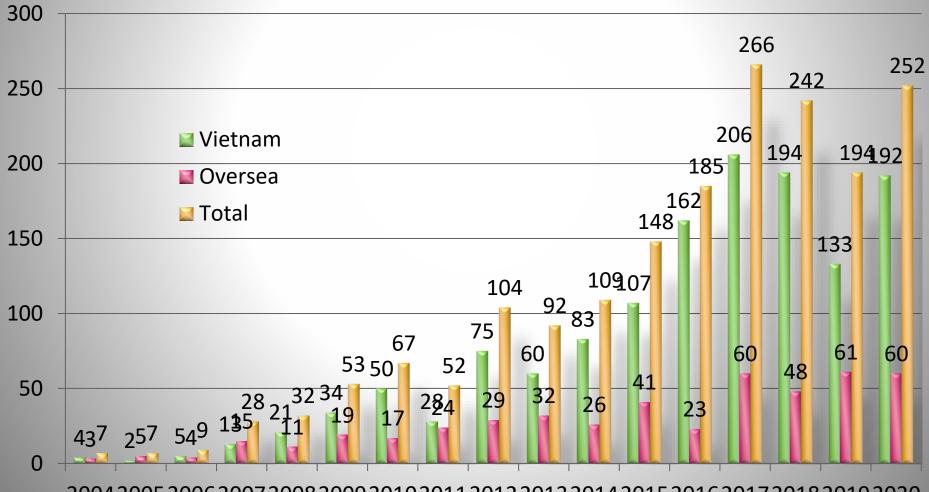




**BACKGROUND OF PVP** 



## Applications from 2004 to 2020



 $2004\,2005\,2006\,2007\,2008\,2009\,2010\,2011\,2012\,2013\,2014\,2015\,2016\,2017\,2018\,2019\,2020$ 

## **PVP** Fees

No	Title	Unit	Fee (vnd)
1	Application form appraisal	01 time	2,000,000 (89\$)
2	Re - Application form appraisal	01 time	1,000,000 (45\$)
3	Maintainance		
	- From 1 to 3 <sup>th</sup> (year)	01 var/01 year	3,000,000 (133\$)
	- From 3 to 6 <sup>th</sup> (year)	01 var/01 year	5,000,000 (222\$)
	- From 7 to 9 <sup>th</sup> (year)	01 var/01 year	7,000,000 (311\$)
	- From 10 to 15 <sup>th</sup> (year)	01 var/01 year	10,000,000 (444\$)
	- From 16to the end (year)	01 var/01 year	20,000,000 (888\$)
4	Reinstatement of the effectiveness of plant variety protection certificate	Time	1,200,000 (53\$)
5	DUS test for seasonal crops	01 variety	8,300,000 (369\$)
6	DUS test for yearly crops	01 variety	11,000,000 (489\$)
7	DUS test for perennial crops	01 variety	24,000,000 (1066\$)
8	Breeder conduct DUS test		50% fee

## **INTERNATIONAL COOPERATION**

#### Donors and activities

Country/ Organization	Activities	Time
UPOV, USA, EU, Japan, France	Training in abroad, Workshop (VN and oversea)	2000 - 2005
Denmark, Japan, France	Equipments, training, workshop/seminars	2004 - 2008
EAPVP, the Netherlands Australia	Training (Oversea and Viet Nam), equipment, Seminar/workshop	2008 - 2011
Japan (JICA), GNIS (France)	Training (Oversea and Viet Nam), equipment, Seminar/workshop	2010 - 2014
UPOV, Japan (EAPVP)	Training (Oversea and Viet Nam), Seminar/Workshop	2014 - now

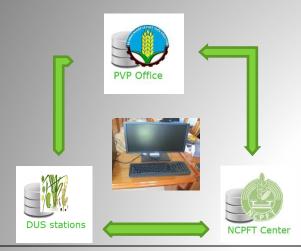
#### **COOPERATION ON DUS EXAMINATION**

Country	Time	Photos
Japan	August, 2007 April, 2016 (free of charge)	
France	January 2011	
The Netherlands	March, 2011	
EU	May 2011	
Singapore	2016 VN provide DUS Testing service	<ul> <li>✓ Negotiation: Email</li> <li>✓ Signing by each side then exchange through Post mail.</li> </ul>
Korea		

#### JICA Project (7.2010 – 7.2014)

Out put	Activities
<ul> <li>Administrative procedures for examination of applied plant varieties are improved</li> <li>Strengthen the capacity of DUS examiners all over the country</li> <li>The awareness of breeders, seed companies and extension staffs on PVP is improved</li> </ul>	<ul> <li>✓ Training courses in Viet Nam, Japan and the Netherlands</li> <li>✓ Support implementation of DUS Test in DUS test Agencies</li> <li>✓ Revise and develop TGs</li> <li>✓ Suggest better administrative procedure</li> <li>✓ Hold seminars and workshops for all stakeholders</li> <li>✓ Develop brochure</li> </ul>

#### JICA Project (7.2010 – 7.2014)



#### Database Management System (software)





#### Manual for DUS test for rice









•	-		HUMAN RESOURCE
	Equipment	Beneficiary	- 39 persons trained in Thai
1	Net-house	Tu Liem; Baria Vungtau	Land, Korea and Japan
2	Tractor and other tool for soil	Tu Liem; Van Lam; Baria Vungtau	- All DUS Testers in National
	preparation		Center attended the training
	Equipment for DUS: Camera,	PVPO; NCPFT, Tu Liem Station, Van Lam	from Basic – Intensive –
3	RHS color chart, Ruler, Color	Station, Baria-Vungtau Station	Oversea
	printer, Computer		- DUS Testers are equipped
		Tu Liem	basic skills of DUS Test.
4	Cold storage	Van Lam	- Approximate 350 persons
		Baria – Vungtau	understood basic conception of
5	Car (Prado)	Department of Crop Production (DCP)	PVP in generally.

# DUS SYSTEM IN VIETNAM





Distinctness: The candidate variety must be clearly distinguishable from any other varieties in common knowledge (nation list).

Uniformity: All of the plants of the variety in the same propagation stage must be sufficiently similar in all of their characteristics (There are acceptable number of off-types within the growing test field).

Stability: The features of the variety will inherit through generations
 Novelty
 Denomination

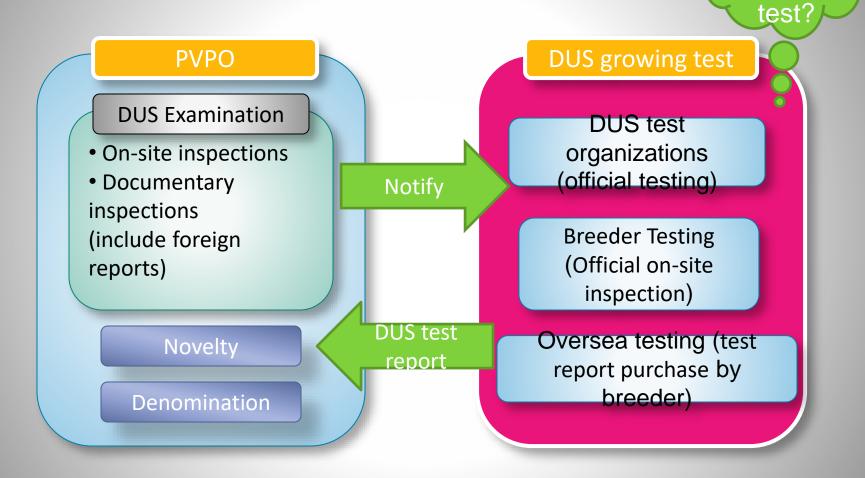
# **OVERVIEW**

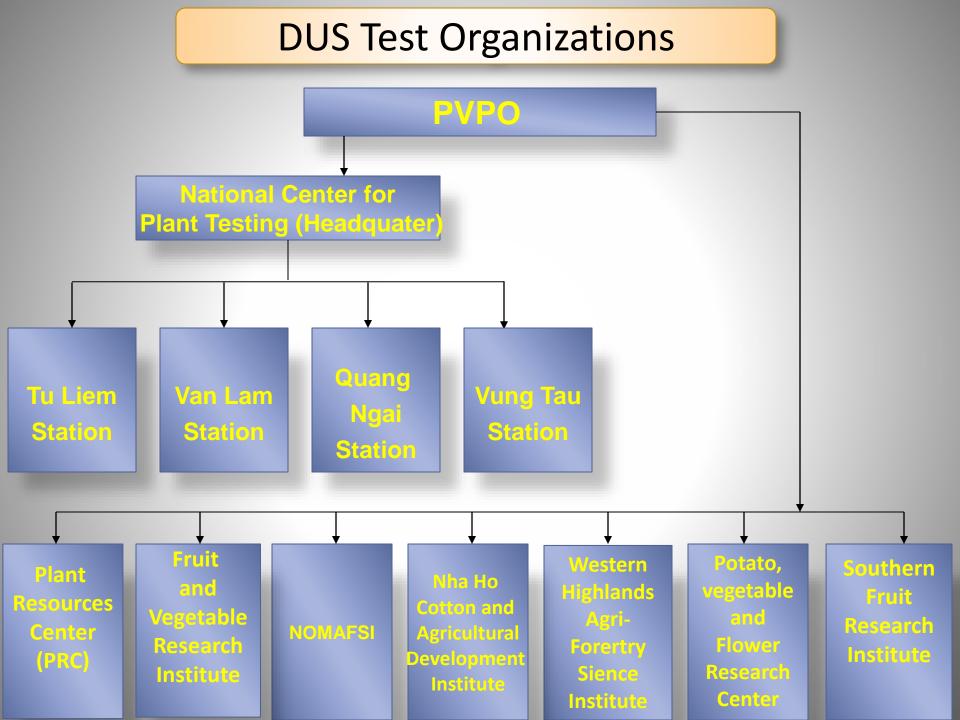
Who

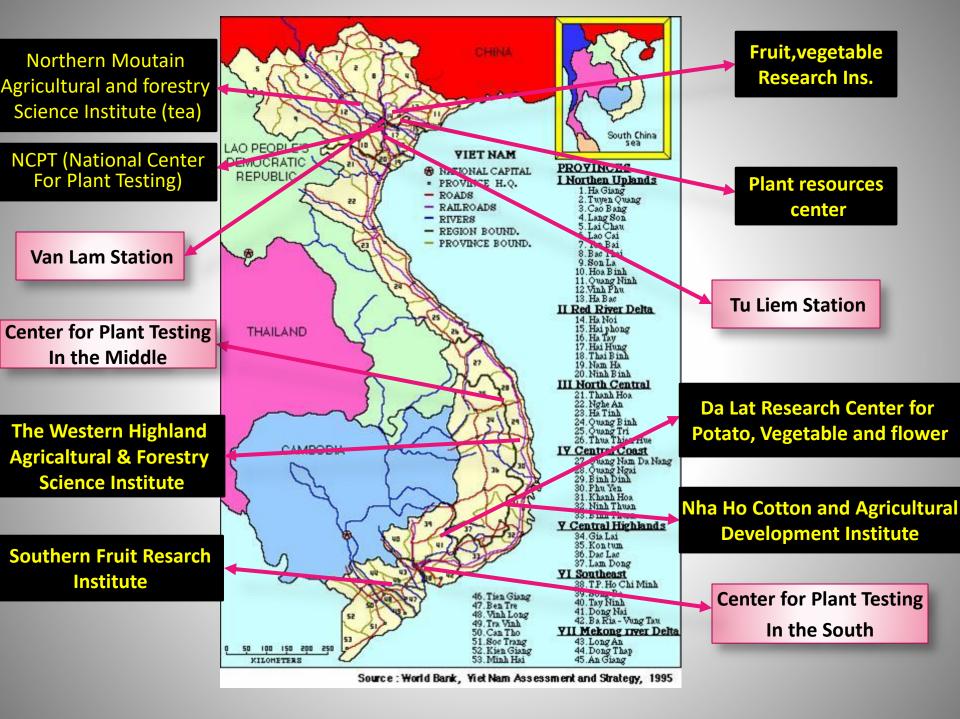
can

carry

out DUS







How to carry out DUS testing (in National Center For Plant Testing – NCPT)

**DUS testing technical supports** 

**DUS testing procedure** 

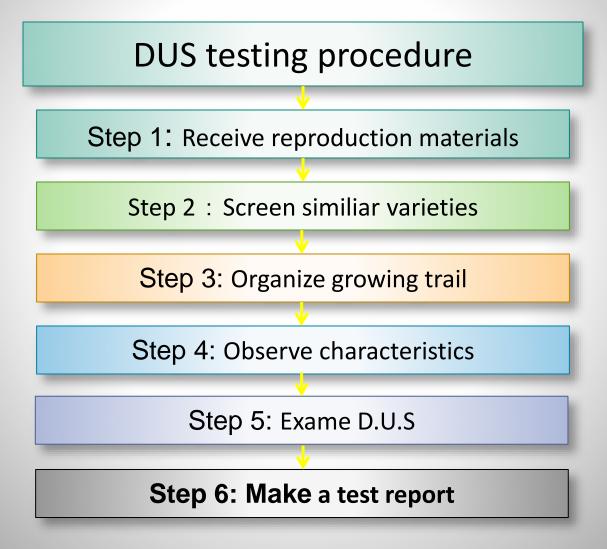
**DUS** evaluation

How to carry out DUS testing (in National Center For Plant Testing – NCPT)

**DUS testing technical supports** 

- **UPOV** documents.
- UPOV TGs
- UPOV member TGs
- Official TG for new species
  - (drafted by PVPO and NCPT)

# How to carry out DUS testing (in National Center For Plant Testing – NCPT)





# **International cooperation**

Assistance Technical Cooperation by Member countries:

- Japan (JICA, MAFF, EAPVP...)
- Denmark (DANIDA)
- The Netherlands
- Australia
- USA

Technical assistance from experienced Members: training in Vietnam and in oversea; Experts dispatching
Funding equipment for examination of application (Japan – JICA project and IP Australia, the Netherlands...)

# **International cooperation**

- Under EAPVP Forum
   ✓ Seminar in Myanmar (2012) and Lao PDR (2013) funded by UPOV and Japan
   ✓ Rice DUS Training for ASEAN countries in Hanoi (2014)
   ✓ Subcommittee Meeting on harmonization of descriptive orchids morphology and terminology (2014)
- ✓ Training course for DUS of Tomato for ASEAN countries in Hanoi (2015)
- ✓ IP Program with Lao PDR (2011-2013) (Bilateral Cooperation)
- Sharing information on IP including PVP
- Exchanging experience on establishment of PVP System
- Workshop/Seminar in Hanoi and Vientiane
- Study-tour/training in Vietnam
- Establishment of filing PVP application system in Lao

# PICTURES OF DUS TEST IN VIETNAM

Van Lam Station

**Rice** 

# Cabage











Van Lam Station

## Cucumber

## **Kohlrabi**







## **Tu Liem Station**

#### Corn



#### Soybean



**Tu Liem Station** 

#### groundnut

#### tomato



## **Tu Liem Station**

# chrysanthemum **Small** Big

Medium

Diameter of disc.

# Center for plant testing of central region

## Watermelon











## Center for plant testing of central region

## Sugar cane



## **Southen East Station**

#### **Rice**



## **Southen East Station**

## Long bean



## **Southen East Station**

#### Chilli



## **Nha Ho Cotton and Agricultural Develop Science Institute**

#### Cotton

#### Grape

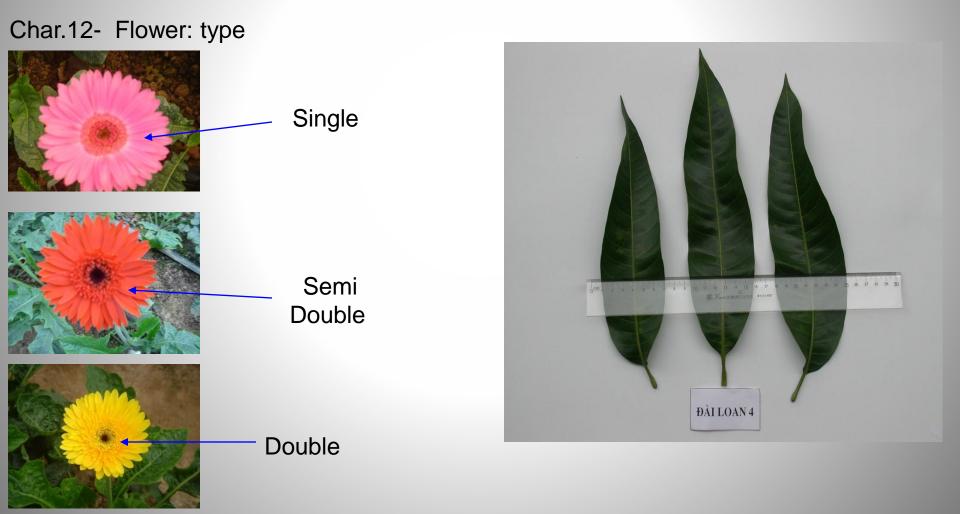




# Fruit, Vegetable Research Institute

Gerbera

Mango



## Nothern moutain Agricutural Forestry Science Institute

#### Tea



## **Potato, Vegetable and Flower Research Institute**

#### Potato



#### Rose



# **Plant Resourses Center**

#### cucurbita and ginger



# **Southern Fruit research Institute**

#### Manderin

#### Orange



