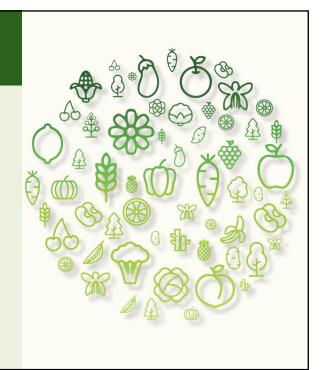
# **Benefits of the UPOV Plant Variety Protection System**

Manabu Suzuki Technical/Regional Officer (Asia), UPOV

> February 28, 2023 Geneva, Switzerland



# Why is effective PVP and UPOV membership important?



**UP@V** 

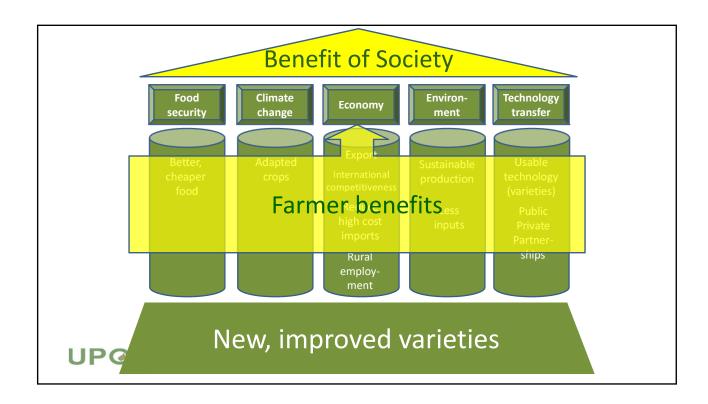


### **MISSION STATEMENT**

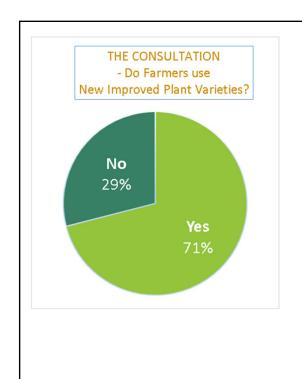
"To provide and promote an effective system of plant variety protection, with the aim of encouraging the development of new varieties of plants, for the benefit of society"

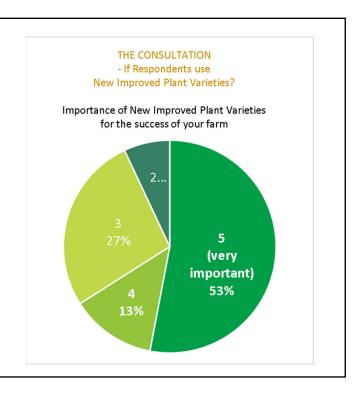
**UPOV** 

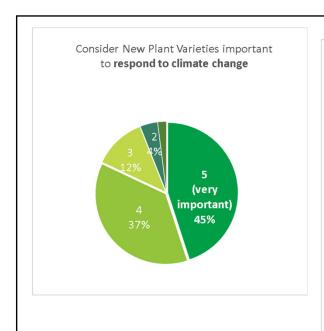
3

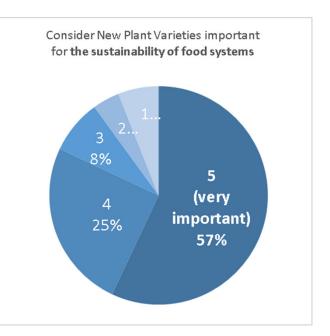












### **STUDY in VIET NAM\***

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

- **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 %





\* "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

#### Annual value added:

Arable farming \$2.3 billion
Horticulture \$1.0 billion
Floriculture \$0.2 billion

GDP added upstream/downstream (value chains)

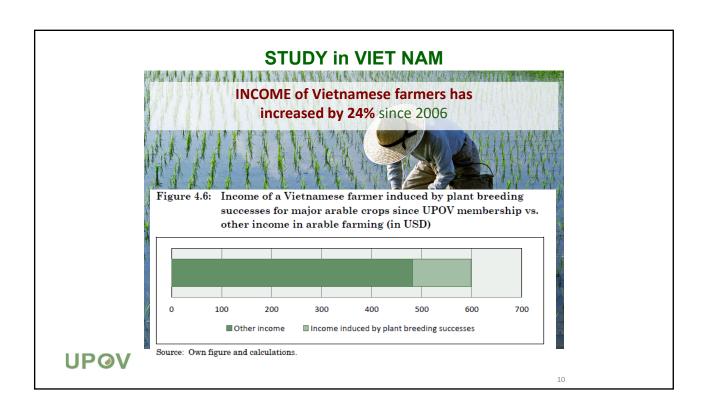
\$1.5 billion

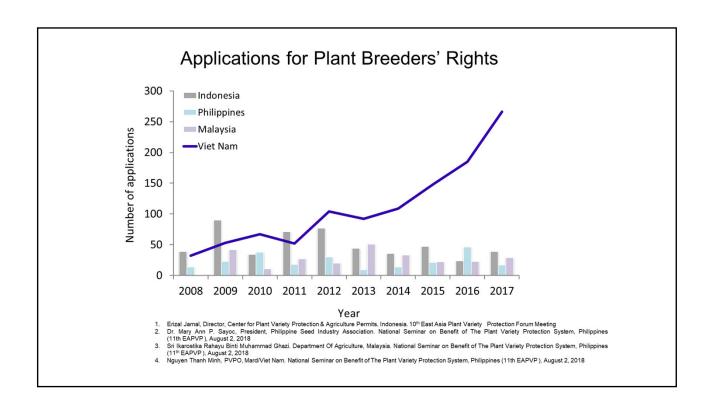
**TOTAL ADDED: \$5 billion** 

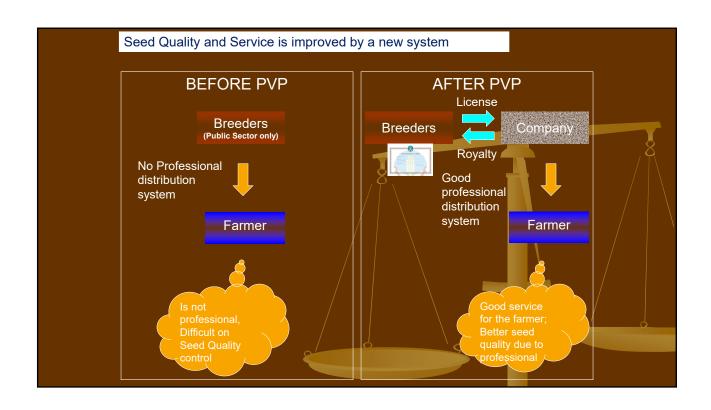
(> 2.5% GDP)

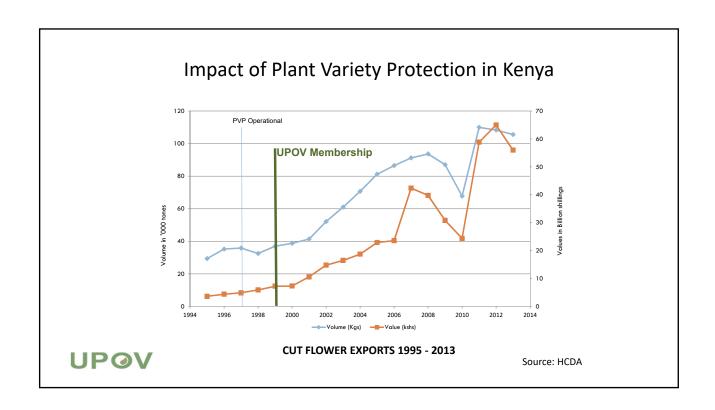
**UPOV** 

9











# Impact of PVP in Kenya

# **Employment creation**

 It is estimated that the floriculture industry employs over 150,000 people directly and more than 500,000 indirectly who supply goods and services



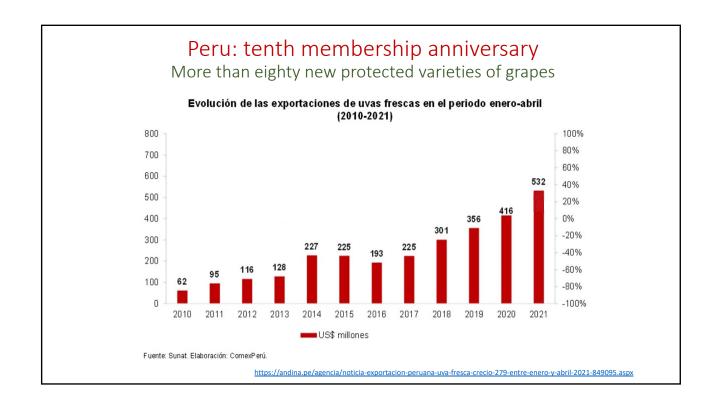


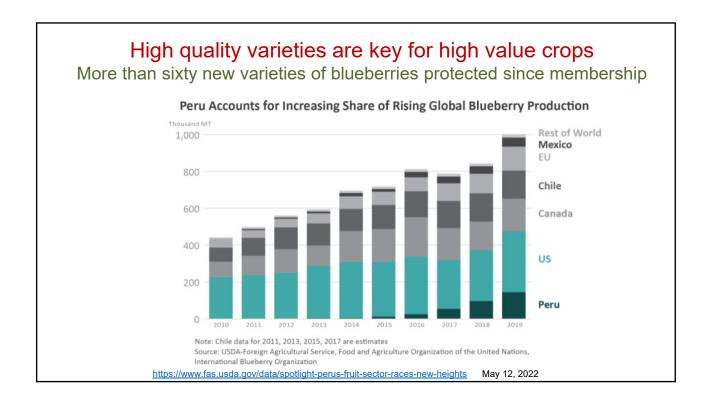
## Impact of PVP in Kenya

# **Cut Flower Industry**

- The Kenyan floriculture market was valued at USD 861.6 million in 2018, and is projected to register an annual growth of 4.7% during the forecast period (2020-2025).
- In the year 2020, 142,477.8 MT of fresh flowers valued at USD 1.09 billion was produced in Kenya.











### Rice variety "Tsuyahime"

- High quality variety (good taste)
- Yamagata prefectural government holds the plant breeder's right
- Royalty free for Yamagata farmers, royalty paid by other farmers
- Location and agronomy (less fertilizer and pesticide)
   controlled to maintain quality (= high market price)
- Increased farmers' income

19

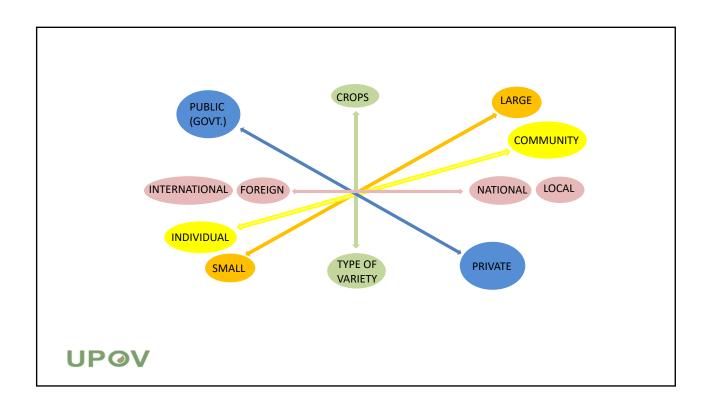
### Farmers: income is increased

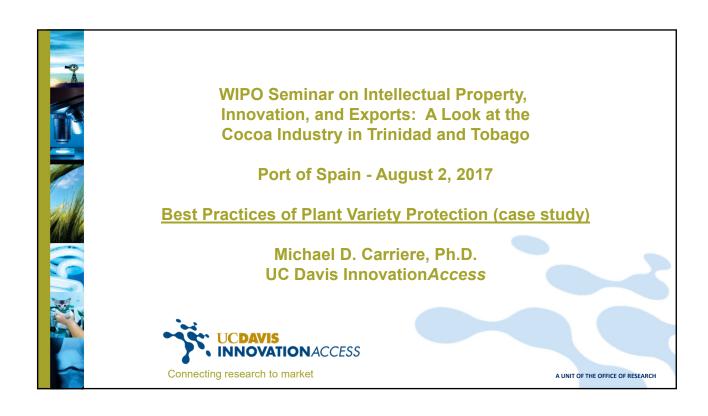
### Example on benefits of Protected Varieties

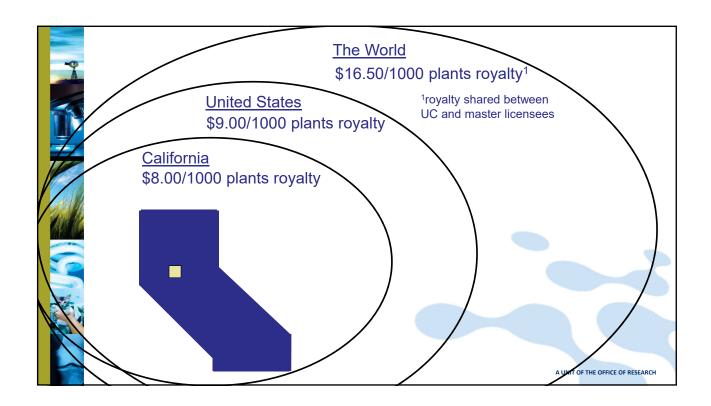
Items	Protected Varieties	Non protected varieties
Price of Seed (rice, USD/1 kg)	1.39	0.64
Price of commercial grain is sold by farmer (rice,USD/Ton)	<u>292</u>	236
Average income in 1 ha for farmer (rice); USD	1897	1298
Benefits from seed of protected varieties	<ul><li>✓ Better quality, productivity</li><li>✓ Better tolerance in bad climate and diseases, insect</li></ul>	?
* Source: VINA Seed Corporation (	report on Nov. 2020) : for production	?

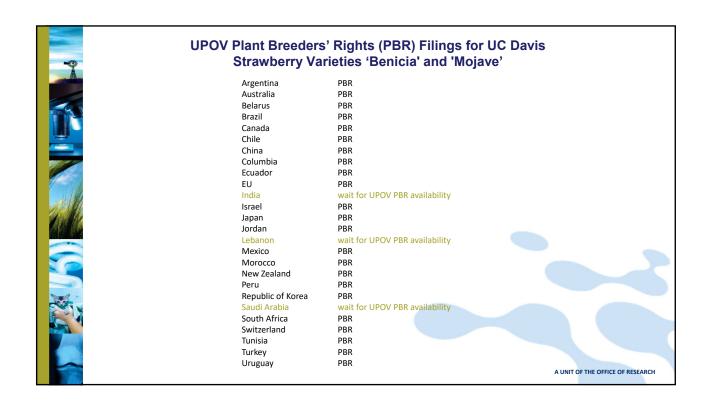
UPOV = more choice for farmers...

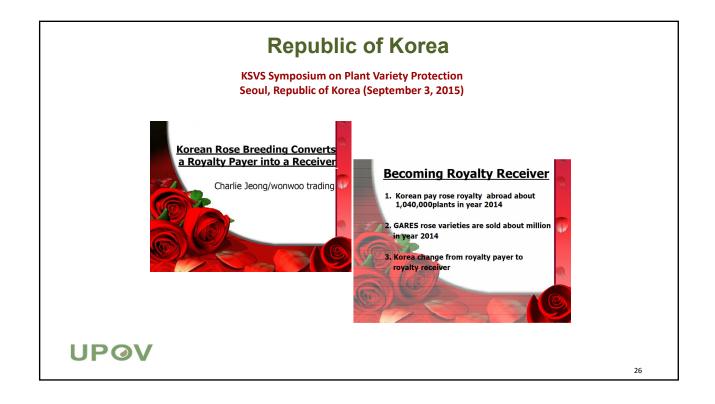
**UP@V** 

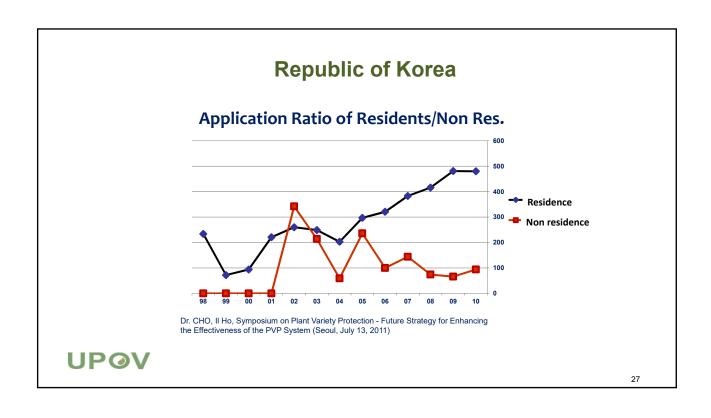




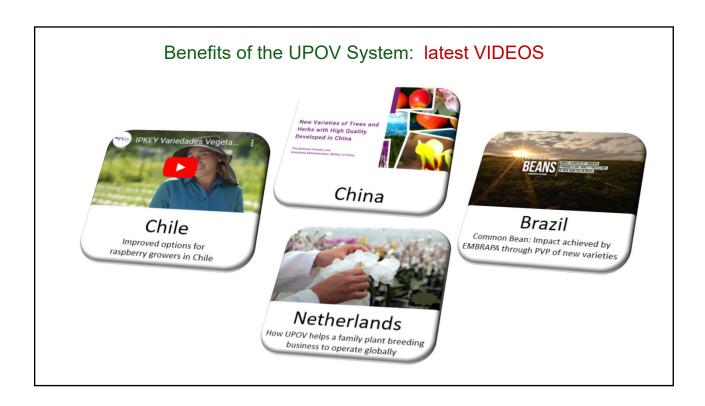












# **VIDEOS – Benefits of the UPOV system**



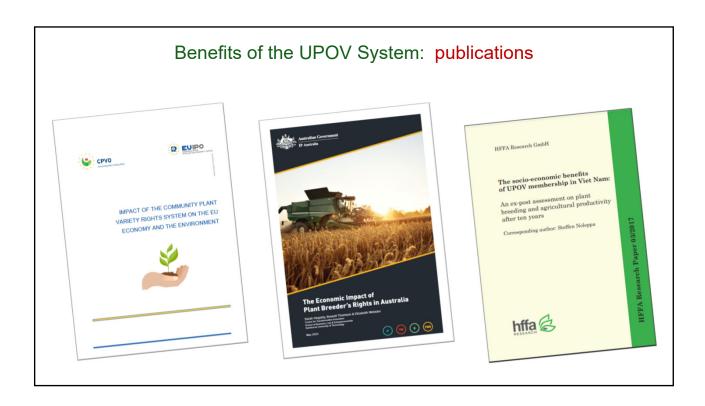
### New Release in 2023

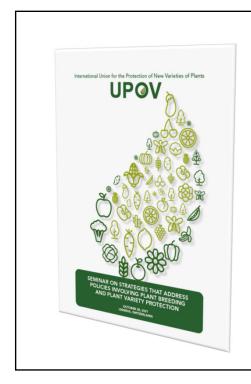


#### **DIVERSITY IN TOMATO**

How plant breeding has increased diversity in tomato.

**UPOV** 







International Union for the Protection of New Varieties of Plants

Seminar on the role of plant breeding and plant variety protection in enabling agriculture to mitigate and adapt to climate change

Geneva, October 11 and 12, 2022 (virtual meetings) and October 26, 2022 (hybrid meeting)



https://www.upov.int/meetings/en/details.jsp?meeting\_id=71391



Online PBR Application Tool



A tool to facilitate submission of **P**lant **B**reeders' **R**ights applications





### **UPØV PRISMA∜**

### Benefits of using UPOV PRISMA



Online service for PVP applications



70+ countries covered



Language choice to read forms



Translation of predefined responses



Copy data to other applications



Reminders for Novelty & Priority



Find all PVP Office procedures



Overview of all submissions

**UPOV** 

