

Farm-saved seed

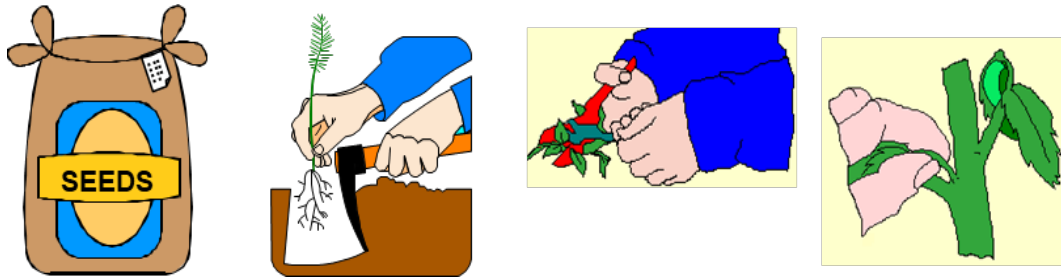


UPOV PVP System encourage innovation in plant breeding

- Plant breeding is long and expensive

BUT

- Plant varieties can be easily and quickly reproduced



❖ Breeders need effective protection and enforcement measures to recover an investment

OVERVIEW

1. UPOV

2. UPOV Convention

**3. Socio-Economic Impact of the
UPOV Plant Variety Protection
System**

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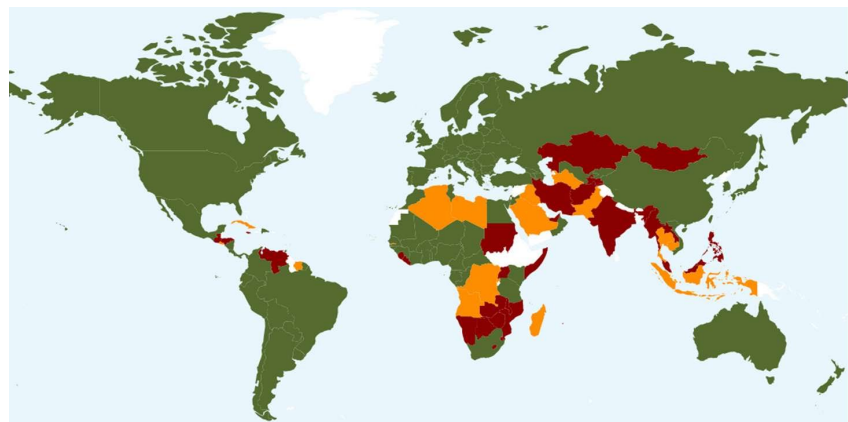
Incentivize innovation in plant breeding



**How to produce more and better
with less water, less land, less
inputs**

Breeding plant varieties with
improved yield, more efficient use of
nutrients, resistance to plant pests
and diseases, salt and drought
tolerance and better adaptation to
climatic stress





**Expansion of UPOV membership:
Nigeria, joined UPOV in March.
UPOV now has 80 members covering 99 States**

By 2050, the global population is projected to reach 9.1 billion

As food demand rises, providing farmers with access to high-quality varieties is crucial to ensuring food security.

Dr. Folarin Sunday Okelola
Registrar, Nigerian Plant Variety Protection Office

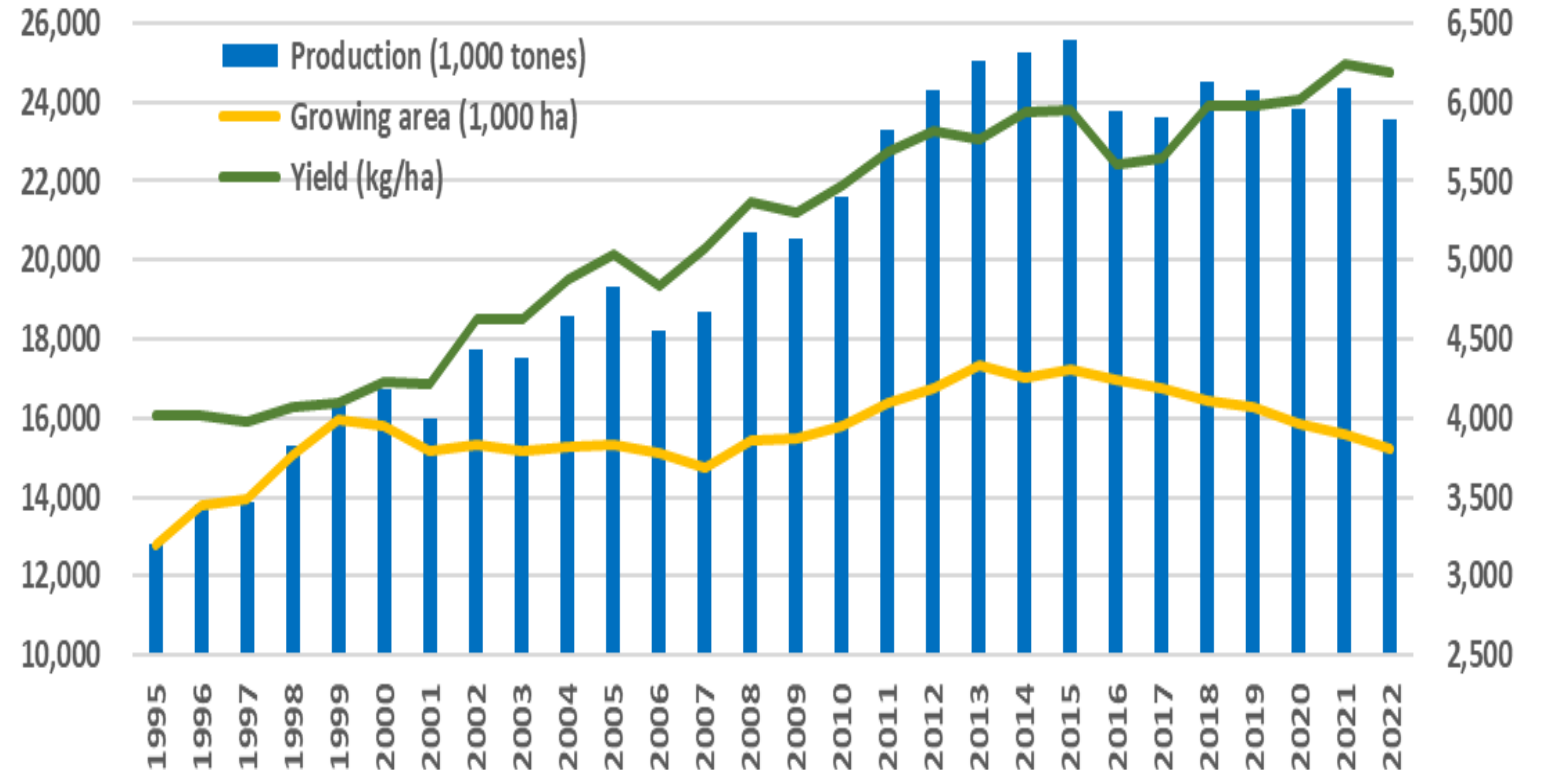
Rice Production in the Mekong Delta of Vietnam

Production (1,000 tonnes)

Growing area (1,000 ha)/Yield (kg/ha)

Facts:

- Population: 17.5 M
- Rice land: 1.78 M ha
- Rice grow. area: 3.82 M ha
 - Winter –Spring Crop: 1.50 M ha
 - Summer- Autumn Crop: 1.60 M ha
 - Autumn- Winter Crop: 0.72 M ha



- The Mekong Delta accounts for over 50% of Vietnam's total rice production and an impressive 90% of its rice exports.

Access to new plant varieties from UPOV members promotes horticultural trade

- Kenya is a leading exporter in cut flowers
- **breeders of roses feel confident** to have their new varieties being protected and commercial exploited in Kenya
- the altitude is very important, you get larger rose heads, better quality flowers because the relevant locations in **Kenya are at 2400** meters above sea level.



Economic benefits: impact study in Viet Nam*

A Study on the impact of plant variety protection in Viet Nam after its tenth anniversary of UPOV membership in 2017

provides that the Gross Domestic Product (GDP) added upstream and downstream (value chains) amounts to USD1.5 billion

total added value to the economy of Viet Nam amounts annually to USD5 billion (>2.5 percent GDP)

- **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 %

- “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
- https://www.upov.int/about/en/benefits_upov_system.html

HFFA Research GmbH

The socio-economic benefits of UPOV membership in Viet Nam:

An ex-post assessment on plant breeding and agricultural productivity after ten years

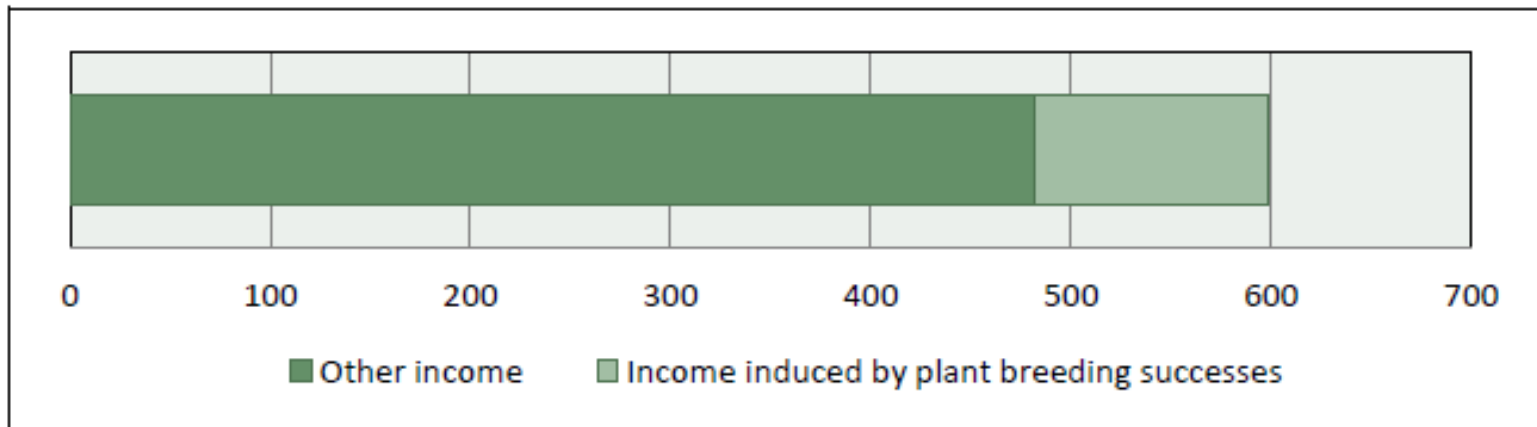
Corresponding author: Steffen Noleppa

Study in Viet Nam

INCOME of Vietnamese farmers has
increased by 24% since 2006

Photo: iStock / Rawpixel

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.

Example Rice Breeder from Viet Nam on impact of improved rice varieties: transforming lives, promoting sustainability & building brand

- Over a 15-year period (2002 - 2017) , farmers saw a **COMBINED PROFIT INCREASE OF OVER \$400 MILLION FROM CULTIVATING ST3 AND ST5 RICE VARIETIES.**
- Up to 200,000 hectares of ST25 are being cultivated in the Mekong Delta region alone.
- Farmers income increased up to 50%** in main season comparing vs. other soft texture varieties thanks to **higher yield, disease resistant and high market demand.**
- Transforming **Vietnamese rice brand** from low-quality to **high quality with premium export price.**

Agricultural Sustainability



Meet Dr. Mary Mgonja a Tanzanian plant breeder using the UPOV system as a force for good

In her words: “Plant variety protection helps me ensure that farmers I’m working with receive the authentic varieties they pay for, safeguarding them from counterfeit seeds. This protection not only preserves the integrity of my work but also guarantees that farmers benefit from the high-quality, resilient crops they rely on.”



[@International Union for the Protection of New Varieties of Plants](#)



[@UPOVint](#)

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.

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

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.





UPOV plays a key role in **setting the international standards** for plant variety protection in the legal, technical, digital and training areas

The shorter breeding time and commercial cycle of some new varieties encourage UPOV members to find faster, cost-effective ways to grant titles

Role of UPOV Technical Working Parties for DUS standards and Cooperation

(Ornamental Plants/ Forest Trees) March 31 - April 3

**Innovating DUS Testing in Ornamentals:
Highlights from TWO's 57th Session in
the Kingdom of the Netherlands**



https://www.upov.int/meetings/en/details.jsp?meeting_id=85858

(Testing Methods and Techniques) April 28 - May 1

**3rd Session of TWM Advances Tools
for Smarter DUS Testing in Beijing**



https://www.upov.int/meetings/en/details.jsp?meeting_id=85856

(Agricultural Crops) May 19 - 22

**TWA Explores Innovation and
Tradition at 54th Session in Arusha**



https://www.upov.int/meetings/en/details.jsp?meeting_id=85859

Communication strategy on UPOV/PVP benefits

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What is the Plant Breeders' Exemption?

Did you know breeders can use protected plant varieties to develop new ...more

UPOV Plant Breeders' Exemption • 3 pages

What is the Plant Breeders' Exemption?

The plant breeder's exemption in the UPOV Convention is a rule that allows breeders to use protected plant varieties to create new varieties without needing permission from the breeder of a protected variety.

In simple terms, it promotes innovation by enabling plant diversity to be available for further breeding of new improved varieties as acts done for breeding other varieties are not subject to any restriction by the breeder.



Marlène Borlant and 74 others

11 reports

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"I became a breeder because of the real life needs of my community. Most of the local farmers need a [#NewPlantVariety](#) that delivers high yields and supports the economic development of their families." ...more



Pham owns the **plant breeders' rights** to the new variety

You and 40 others

1 comment • 8 reposts

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Myth or Fact?

There's a lot of misinformation about plant breeding and plant variety ...more

Plant Breeding Myths • 6 pages

Debunking Plant Breeding Myths

Separating Fact from Fiction



and 103 others

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