Setting the Scene

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OVERVIEW

- The Context
- UPOV Convention
- UPOV guidance
The context

Historically, greater food production meant greater land use; but there has been a “decoupling” since about 1960.

Source: Koen Deconinck, Food Systems webinar, OECD Trade and Agriculture Directorate
How to produce more and better with less
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.
What are the challenges in encouraging investment in plant breeding?

• **identify** important variety characteristics
• **secure resources to breed** varieties with those characteristics
• **deliver** them to farmers and growers

**UPOV’s role:** Creating the space for policy dialogues for harmonization, enhancing cooperation, developing guidance on the UPOV Convention and its implementation, including enforcement
• Plant breeding is long and expensive

**BUT**

• Plant varieties can be easily and quickly reproduced

→ Breeders need effective protection and enforcement measures to recover investment

→ Increased role of use of biochemical and molecular techniques for variety identification and breeders’ rights enforcement
OVERVIEW

• The Context
• UPOV Convention
• UPOV Guidance
EXCEPTIONS TO THE BREEDER’S RIGHT (1991 Act)

Compulsory

Acts done:

• privately and for non-commercial purposes
• for experimental purposes
• breeding other varieties (breeder’s exemption”)

Optional

Farm-saved seed
Authorization for commercialization of newly bred varieties not required except for

(i) varieties which are essentially derived from the protected variety, where the protected variety is not itself an essentially derived variety,

(ii) varieties which are not clearly distinguishable in accordance with Article 7 from the protected variety and

(iii) varieties whose production requires the repeated use of the protected variety.
Scope of the Breeder’s Right (1991 Act)

Article 14

Scope of the Breeder’s Right

(1) [Acts in respect of the propagating material]
(2) [Acts in respect of the harvested material]
(3) [Acts in respect of certain products]
(4) [Possible additional acts]

(5) [Essentially derived and certain other varieties]
   (a) The provisions of paragraphs (1) to (4) shall also apply in relation to:
Essentially Derived Varieties

PURPOSE:

to ensure sustainable plant breeding development by:

– providing effective protection for the breeder

and

– encouraging cooperation between breeders and developers of new technologies such as genetic modification
Essentially Derived Varieties

Article 14
Scope of the Breeder’s Right

(5)[Essentially derived and certain other varieties]

(a) […]

(b) For the purposes of subparagraph (a)(i), a variety shall be deemed to be essentially derived from another variety (“the initial variety”) when

(i) it is *predominantly derived from the initial variety*, or from a variety that is itself predominantly derived from the initial variety, *while retaining the expression of the essential characteristics* that result from the genotype or combination of genotypes of the initial variety,

(ii) it is *clearly distinguishable* from the initial variety and

(iii) except for the differences which result from the act of derivation, it conforms to the initial variety in the expression of the essential characteristics that result from the genotype or combination of genotypes of the initial variety.
Essentially Derived Varieties

May be obtained for example by:

• **selection** of a natural or induced **mutant**
• **selection** of a **somaclonal variant**
• **selection** of a **variant individual** from plants of the initial variety
• **back-crossing**
• transformation by **genetic engineering**
OVERVIEW

• The Context
• UPOV Convention
• UPOV Guidance
Guidance on EDV

• Resolution of the 1991 Act Diplomatic Conference

Resolution on Article 14(5)*

The Diplomatic Conference for the Revision of the International Convention for the Protection of New Varieties of Plants held from March 4 to 19, 1991, requests the Secretary-General of UPOV to start work immediately after the Conference on the establishment of draft standard guidelines, for adoption by the Council of UPOV, on essentially derived varieties.

• EDV Explanatory Notes of 2009
• EDV Explanatory Notes of 2017
• Current Revision started in 2019
Seminar on the Impact of Policy on Essentially Derived Varieties (EDVs) on Breeding Strategy in 2019
2019 UPOV EDV Seminar - Summary

- Evidence that the current UPOV guidance does not reflect the practice amongst breeders in the understanding of essentially derived varieties (EDV).

- *Evolution of breeding techniques has created new opportunities/incentives for predominately deriving varieties from initial varieties, more rapidly and at a lower cost.*

- Clear indication from presentations and discussions that the understanding and implementation of the EDV concept influences breeding strategy – therefore, it is important that UPOV guidance is tuned to maximize benefits to society in terms of maximizing progress in breeding.