

Working Group on Essentially Derived Varieties (WG-EDV)

UPOV/WG-EDV/3/2

**Third Meeting
Geneva, April 27, 2021****Original:** English
Date: March 30, 2021**PRELIMINARY DRAFT TEXT FOR THE REVISION OF THE EXPLANATORY NOTES ON ESSENTIALLY DERIVED VARIETIES UNDER THE 1991 ACT OF THE UPOV CONVENTION***Document prepared by the Office of the Union**Disclaimer: this document does not represent UPOV policies or guidance*

1. The Working Group on Essentially Derived Varieties (WG-EDV), at its second meeting, held on February 4, 2021 via electronic means, agreed to request the Office of the Union to prepare a preliminary draft text for a revision of document UPOV/EXN/EDV/2 for consideration by the WG-EDV at its third meeting, on the basis of the proposals presented in the joint presentation by the international breeders' organizations, taking into account the points raised during the meeting by the Delegations of Argentina, Kenya and Sweden and the clarifications provided by the representatives of the breeders' organizations (see document UPOV/WG-EDV/2/3 "Report", paragraph 15).

2. The preliminary draft text for a revision of document UPOV/EXN/EDV/2 for consideration by the WG-EDV, at its third meeting, is provided in Annex I to this document.

3. Annex II to this document provides a compared version between document UPOV/EXN/EDV/2 "Explanatory Notes on Essentially Derived Varieties under the 1991 Act of the UPOV Convention" adopted by the Council and the preliminary draft text for a revision of document UPOV/EXN/EDV/2 provided in Annex I.

4. The WG-EDV is invited to consider the preliminary draft text for a revision of document UPOV/EXN/EDV/2 provided in Annex I to this document.

[Annexes follow]

ANNEX I

PRELIMINARY DRAFT TEXT FOR THE REVISION OF THE EXPLANATORY NOTES
ON ESSENTIALLY DERIVED VARIETIES UNDER THE 1991 ACT OF THE UPOV CONVENTION

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PREAMBLE

1. The Diplomatic Conference for the Revision of the International Convention for the Protection of New Varieties of Plants, held in Geneva from March 4 to 19, 1991 (Diplomatic Conference), adopted the following resolution:

“Resolution on Article 14(5)¹

“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.”

2. These Explanatory Notes provide guidance on “Essentially Derived Varieties” under the 1991 Act of the International Convention for the Protection of New Varieties of Plants (UPOV Convention). The purpose of this guidance is to assist members of the Union and relevant stakeholders in their considerations in matters concerning essentially derived varieties. The only binding obligations on members of the Union are those contained in the text of the UPOV Convention itself, and these Explanatory Notes must not be interpreted in a way that is inconsistent with the relevant Act for the member of the Union concerned.

3. These Explanatory Notes are divided into the following four sections: Section I Provisions of essentially derived varieties; Section II Assessment of essentially derived varieties; Section III Options for the enforcement of breeders’ rights in relation to essentially derived varieties; and Section IV Facilitating EDV understanding and implementation.

¹ This Resolution was published as “Final Draft” in document DC/91/140 (see Records of the Diplomatic Conference for the Revision of the International Convention for the Protection of New Varieties of Plants, UPOV Publication No. 346 (E) “Further instruments adopted by the Conference”, page 63.

SECTION I: PROVISIONS OF ESSENTIALLY DERIVED VARIETIES

(a) *Relevant provisions of the 1991 Act of the UPOV Convention*

THE RIGHTS OF THE BREEDER

Article 14

Scope of the Breeder's Right

[...]

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

(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.

(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.

(c) Essentially derived varieties may be obtained for example by the selection of a natural or induced mutant, or of a somaclonal variant, the selection of a variant individual from plants of the initial variety, backcrossing, or transformation by genetic engineering.

* The provisions in Article 14(1) to (4) of the 1991 Act of the UPOV Convention are as follows:

(1) [*Acts in respect of the propagating material*] (a) Subject to Articles 15 and 16, the following acts in respect of the propagating material of the protected variety shall require the authorization of the breeder:

- (i) production or reproduction (multiplication),
- (ii) conditioning for the purpose of propagation,
- (iii) offering for sale,
- (iv) selling or other marketing,
- (v) exporting,
- (vi) importing,
- (vii) stocking for any of the purposes mentioned in (i) to (vi), above.

(b) The breeder may make his authorization subject to conditions and limitations.

(2) [*Acts in respect of the harvested material*] Subject to Articles 15 and 16, the acts referred to in items (i) to (vii) of paragraph (1)(a) in respect of harvested material, including entire plants and parts of plants, obtained through the unauthorized use of propagating material of the protected variety shall require the authorization of the breeder, unless the breeder has had reasonable opportunity to exercise his right in relation to the said propagating material.

(3) [*Acts in respect of certain products*] Each Contracting Party may provide that, subject to Articles 15 and 16, the acts referred to in items (i) to (vii) of paragraph (1)(a) in respect of products made directly from harvested material of the protected variety falling within the provisions of paragraph (2) through the unauthorized use of the said harvested material shall require the authorization of the breeder, unless the breeder has had reasonable opportunity to exercise his right in relation to the said harvested material.

(4) [*Possible additional acts*] Each Contracting Party may provide that, subject to Articles 15 and 16, acts other than those referred to in items (i) to (vii) of paragraph (1)(a) shall also require the authorization of the breeder.

(b) *Defining an essentially derived variety*

Article 14(5)(b) of the 1991 Act of the UPOV Convention

(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.

Predominantly derived from the initial variety (Article 14(5)(b)(i))

4. Predominant derivation concerns the genetic source of the essentially derived variety. The requirement of predominant derivation from an initial variety, or from a variety that is itself predominantly derived from the initial variety, is the key requirement for a variety to be considered an EDV. Predominant derivation means that a variety can only be derived from one initial variety.

5. "Predominant" derivation means that more of the genome of the initial variety is retained than would be retained by normal crossing and selection with different parents. A variety should only be considered predominantly derived from the initial variety if it retains almost the whole genome of its initial variety. However, a high degree of genetic conformity alone does not automatically mean that a variety has been predominantly derived. For example, sister lines from the same cross may have a high degree of genetic conformity but neither of the sister lines should be considered as the initial variety of the other nor as predominantly derived from the other. Convergent breeding may also result in a high degree of genetic conformity between two varieties that were developed from different parents without either of the varieties being an initial variety from which the other had been predominantly derived.

In that respect,

(a) Varieties with a single parent ("mono-parental" varieties) resulting, for example, from mutations, genetic modification or genome editing are *per se* predominantly derived from their initial variety.

(b) Varieties involving the use of two or more parents ("multi-parental" varieties) may be predominantly derived from one parent (the initial variety) by selectively retaining the genome of the initial variety, for example through repeated backcrossing. In this case, crop-specific genetic conformity thresholds might be defined in order to determine predominant derivation, i.e. beyond a level that would be obtained by normal crossing and selection with the initial variety.

Clearly distinguishable from the initial variety (Article 14(5)(b)(ii))

6. The phrase “it is clearly distinguishable from the initial variety” establishes that essential derivation is concerned only with varieties that are distinct, in accordance with Article 7, from the initial variety.

Conformity in the expression of the essential characteristics of an EDV with its initial variety (Article 14(5)(b)(iii))

7. An essential characteristic is a characteristic that results from the expression of one or more genes or other heritable determinants and includes, but is not limited to, morphological, physiological, agronomic, industrial and/or biochemical characteristics.

8. An “essential characteristic” is a characteristic that:

- (i) contributes to the principal features, performance or value of the variety; and/or
- (ii) is relevant for the producer, seller, supplier, buyer, recipient, or user of the propagating material and/or of the harvested material and/or of the directly obtained products; and/or
- (iii) is essential for the variety as a whole.

9. An essential characteristic may or may not be a characteristic used for the examination of distinctness, uniformity or stability (DUS) and/or value for cultivated use (VCU).

10. Essential characteristics are specific to each crop or species and may evolve over time.

11. A predominantly derived variety typically retains the expression of essential characteristics of the variety from which it is derived, except for those differences resulting from act(s) of derivation, which may also include differences in essential characteristics.

12. The degree of conformity in the expression of essential characteristics should be assessed on the basis of the expression of the essential characteristics which result from the genotype of the initial variety. The conformity to the initial variety excludes the differences which result from the act(s) of derivation. Changes in the expression of multiple characteristics can result from different successive acts of derivation or may be obtained simultaneously. For example, predominant derivation may result from multiple backcrosses or may be achieved by fewer backcrosses, combined with targeted selection methods.

13. Article 14(5)(b)(iii) does not set a limit as to the number of differences which may exist where a variety is still considered to be essentially derived. The number of differences between an EDV and the initial variety is therefore not limited to one or very few differences but may vary taking into account different methods of derivation. The differences may also include essential characteristics.

14. Differences resulting from act(s) of derivation are disregarded for the purpose of determining the EDV status of a variety. In that regard, the following clarification is provided:

- (a) In the case of mono-parental varieties, all differences necessarily result from the act(s) of derivation, meaning that all differences are excluded from consideration of the EDV status.
- (b) In the case of a multi-parental variety, the differences between that variety and any of its parent varieties may result from normal crossing and selection or from one or more of the methods of derivation described in paragraphs 15 and 16.

When determining the EDV status of such a multi-parental variety in relation to one of its parent varieties, it is therefore important to establish whether there have been one or several acts of derivation. If so, all differences resulting from such act(s) are disregarded for the purpose of determining the EDV status of a variety.

Examples of methods by which an essentially derived variety may be obtained (Article 14(5)(c))

15. The Convention provides the following examples of methods by which an essentially derived variety may be obtained:

- selection of a natural or induced mutant, or of a somaclonal variant;
- selection of a variant individual from plants of the initial variety;
- backcrossing;
- transformation by genetic engineering.

In the case of “backcrossing”, it is understood that this means repeated backcrossing to the initial variety.

16. The use of the words “for example” in Article 14(5)(c) clarifies that the list of methods is not exhaustive. The examples of methods provided in Article 14(5)(c) correspond to the methods known in 1991. Since then, further breeding methods, such as genome editing, have emerged and other breeding methods that could lead to the development of essentially derived varieties may be developed. Such methods should be considered, as appropriate.

17. The exclusive use of one or more of the methods in paragraphs 15 and 16 would typically result in essentially derived varieties.

Direct and indirect derivation

18. The wording of Article 14(5)(b)(i) explains that essentially derived varieties can be predominantly derived from a variety that is itself predominantly derived from the initial variety, thereby indicating that essentially derived varieties can be obtained, either directly or indirectly, from the “initial variety”. Varieties can be predominantly derived from the initial variety “A”, either directly, or indirectly via varieties “B”, “C”, “D”, or “E” ... etc., and will still be considered essentially derived varieties from variety “A” if they fulfill the definition stated in Article 14(5)(b).

19. In the example in Figure 1, variety B is an essentially derived variety from variety A and is predominantly derived from variety A.

20. Essentially derived varieties can also be indirectly obtained from an initial variety. Article 14(5)(b)(i) provides that an essentially derived variety can be “predominantly derived from the initial variety, or from a variety that is itself predominantly derived from the initial variety.” In the example in Figure 2, Variety C has been predominantly derived from variety B, variety B being itself predominantly derived from variety A (the initial variety). Variety C is essentially derived from initial variety A, but is predominantly derived from variety B.

21. Irrespective of whether variety C has been obtained directly from the initial variety A or not, it is an essentially derived variety from variety A if it fulfills the definition stated in Article 14(5)(b).

(c) *Scope of the breeder's right with respect to initial varieties and essentially derived varieties*

1991 Act of the UPOV Convention

Article 14 (5) (a) (i)

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

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

22. The relationship between the initial variety (variety A) and an essentially derived variety (varieties B, C, etc.) is irrespective of whether a plant breeder's right has been granted to those varieties. Variety A will always be the initial variety for varieties B, C, etc., and varieties B, C, etc., will always be essentially derived varieties from variety A. However, only if the initial variety is protected, will the essentially derived varieties B, C, etc., fall within the scope of protection of the initial variety.

Figure 1: Essentially Derived Variety "B"

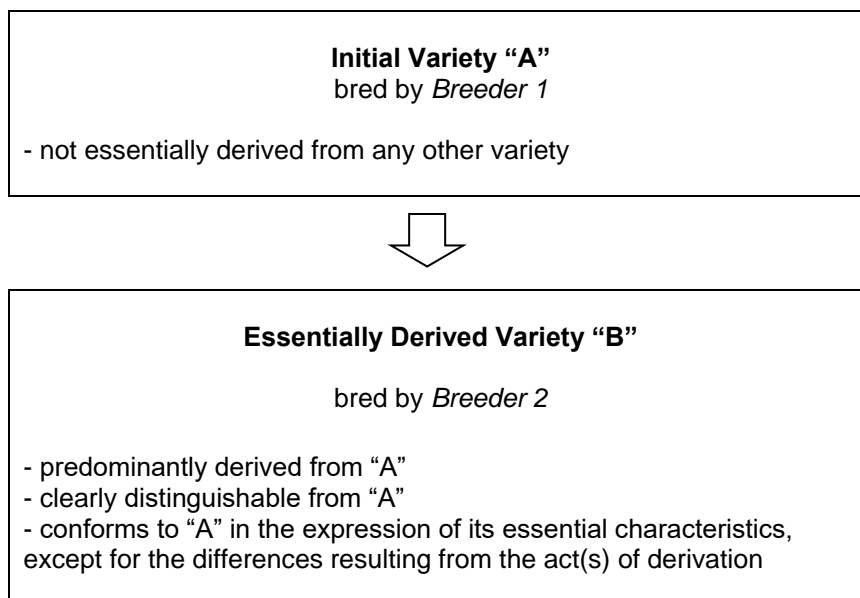
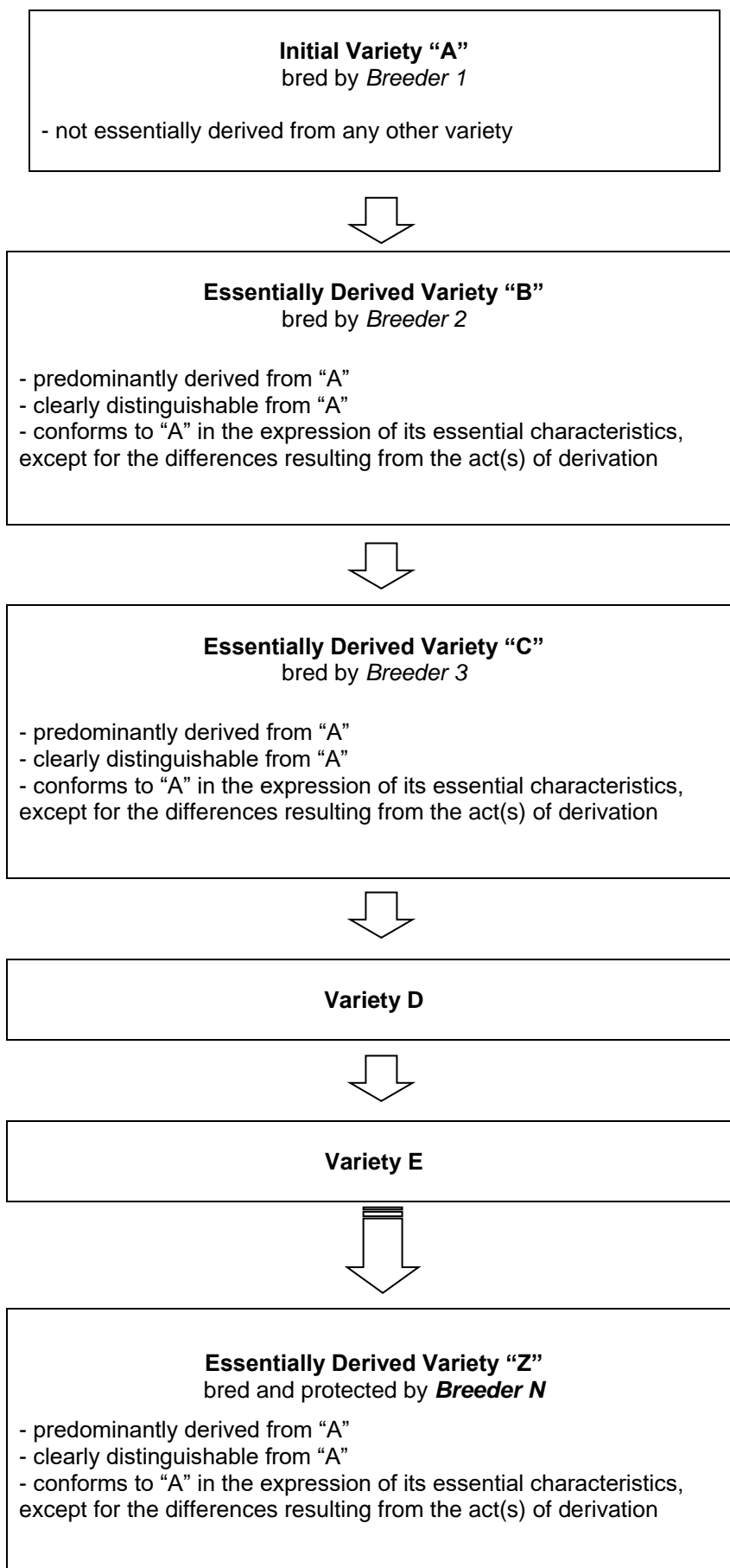


Figure 2: EDV “C”, “D” to “Z”



23. Essentially derived varieties are eligible for plant breeders' rights in the same way as for any variety, if they fulfill the conditions established in the Convention (see Article 5 of the 1991 Act of the UPOV Convention). If an essentially derived variety is protected, it is necessary to obtain the authorization of the breeder of the essentially derived variety as provided in Article 14(1) of the UPOV Convention. However, the provisions of Article 14(5)(a)(i) extend the scope of the right set out in Article 14(1) to (4) of the protected initial variety to essentially derived varieties. Therefore, if variety A is a protected initial variety, the acts included in Article 14(1) to (4) concerning essentially derived varieties require the authorization of the titleholder of variety A. In this document the term "commercialization" is used to cover the acts included in Article 14(1) to (4). Thus, when there is a plant breeder's right on both the initial variety (variety A) and an essentially derived variety (variety B), the authorization of both the breeder of the initial variety (variety A) and the breeder(s) of the essentially derived variety (variety B) is required for the commercialization of the essentially derived variety (variety B).

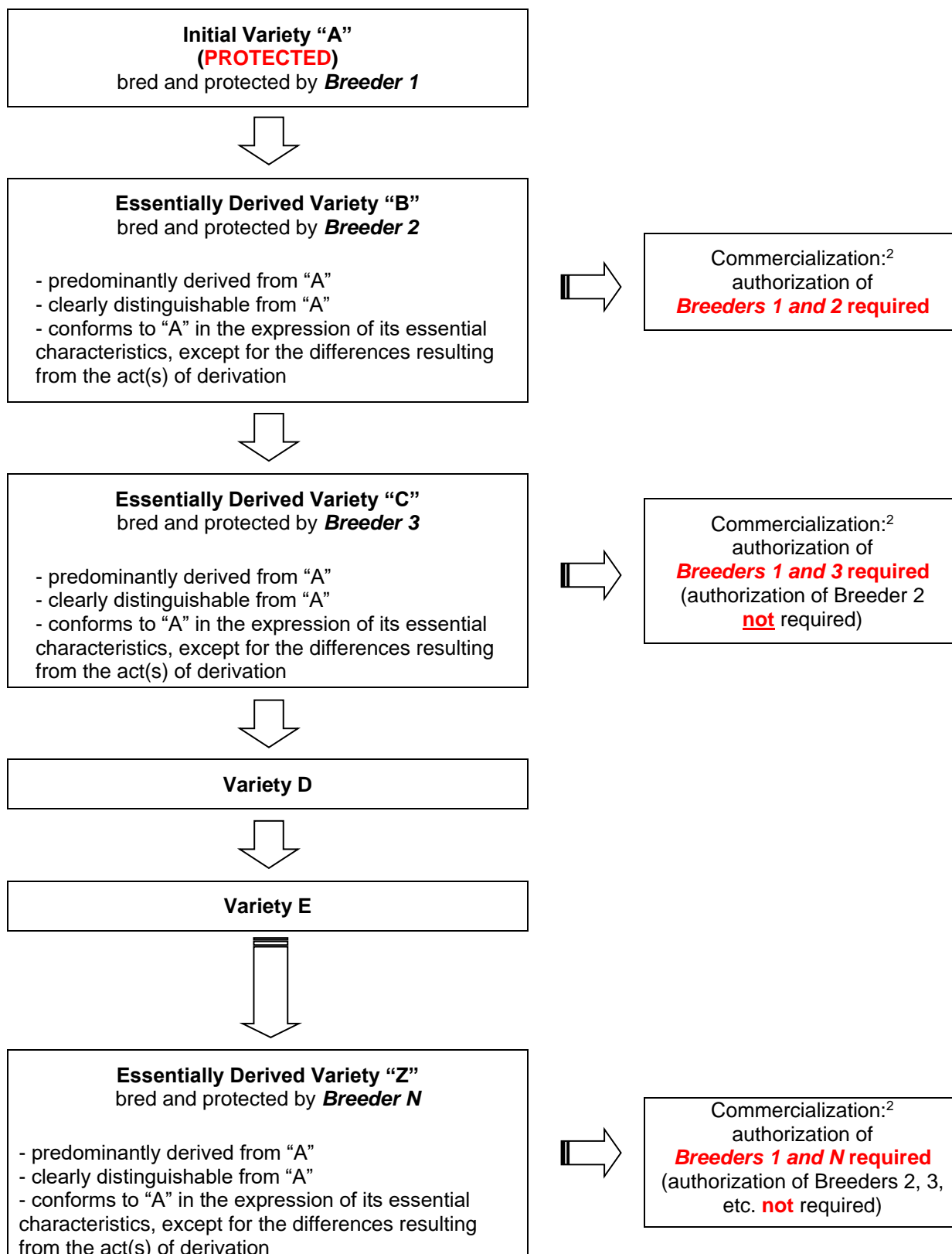
24. If an essentially derived variety (variety B) is not protected in its own right, the acts included in Article 14(1) to (4) concerning variety B undertaken by the breeder of variety B, or any third party, would require the authorization of the titleholder of variety A.

25. Once the plant breeder's right of the initial variety (variety A) has ceased, the authorization of the breeder of the initial variety is no longer required for the commercialization of variety B. In such a situation, and if the plant breeder's right of the essentially derived variety is still valid, only the authorization of the titleholder of the essentially derived variety would be required for the commercialization of variety B. Furthermore, if the initial variety was never protected, only the authorization of the titleholder of the essentially derived variety would be required for the commercialization of variety B.

Summary

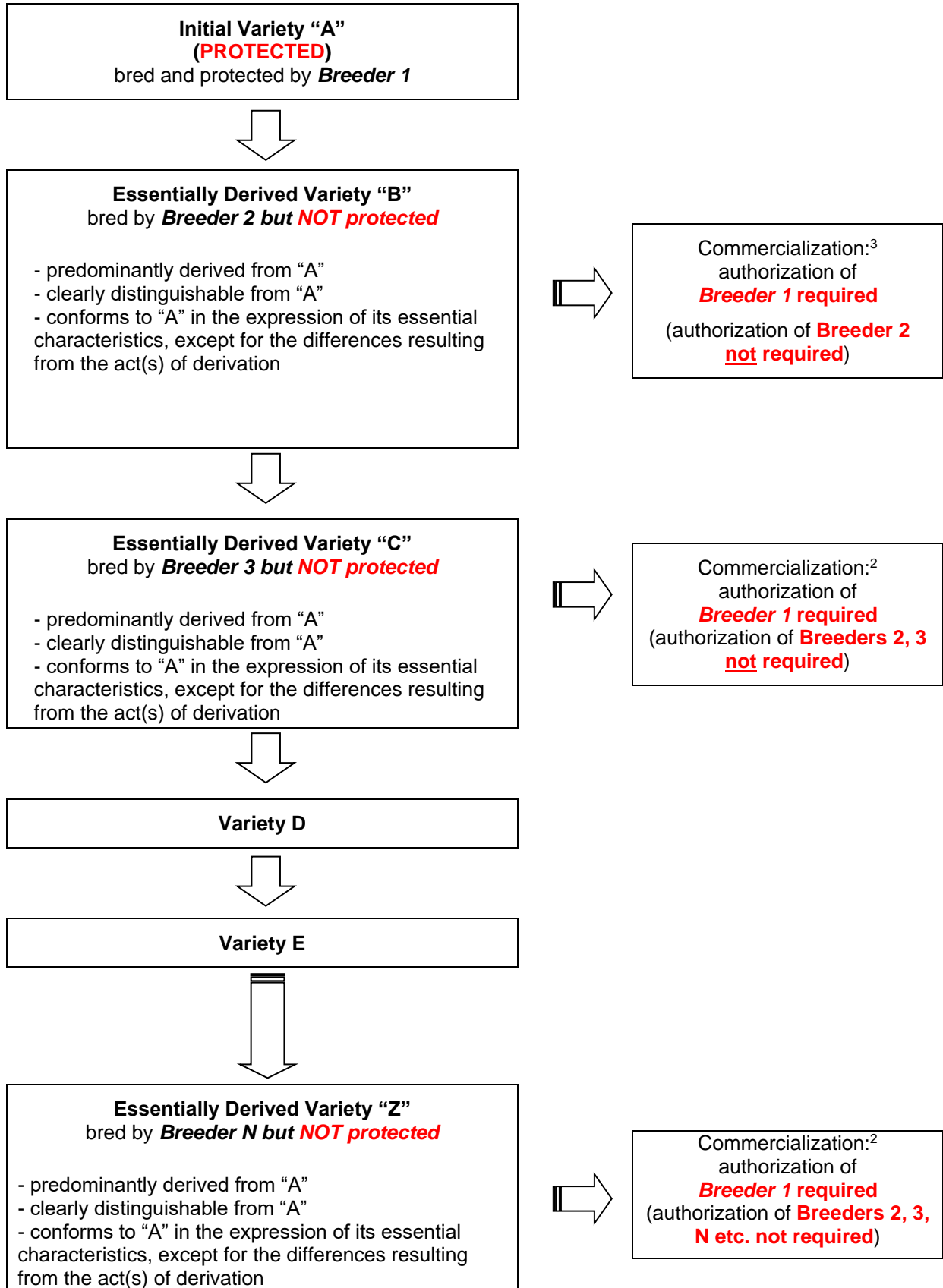
26. Figures 3, 4 and 5 provide a summary of the situations described above. It is important to note that the scope of the breeder's right is only extended to essentially derived varieties in respect of a protected initial variety. In that regard, it should also be noted that a variety which is essentially derived from another variety cannot be an initial variety (see Article 14(5)(a)(i)). Thus, in figure 3, the rights of Breeder 1 extend to EDV "B", EDV "C" and EDV "Z". However, although EDV "C" is predominantly derived from EDV "B", Breeder 2 has no rights as far as EDV "C" is concerned. In the same way, Breeders 2 and 3 have no rights as far as EDV "Z" is concerned. Another important aspect of the provision on essential derivation is that no rights extend to essentially derived varieties if the initial variety is not protected. Thus, in figure 4, if variety "A" was not protected or if variety "A" is no longer protected (e.g., because of expiration of the period of protection, or cancellation or nullification of the plant breeders' rights), the authorization of Breeder 1 would no longer be required to be able to commercialize varieties "B", "C" and "Z".

Figure 3: Initial Variety protected and EDVs protected



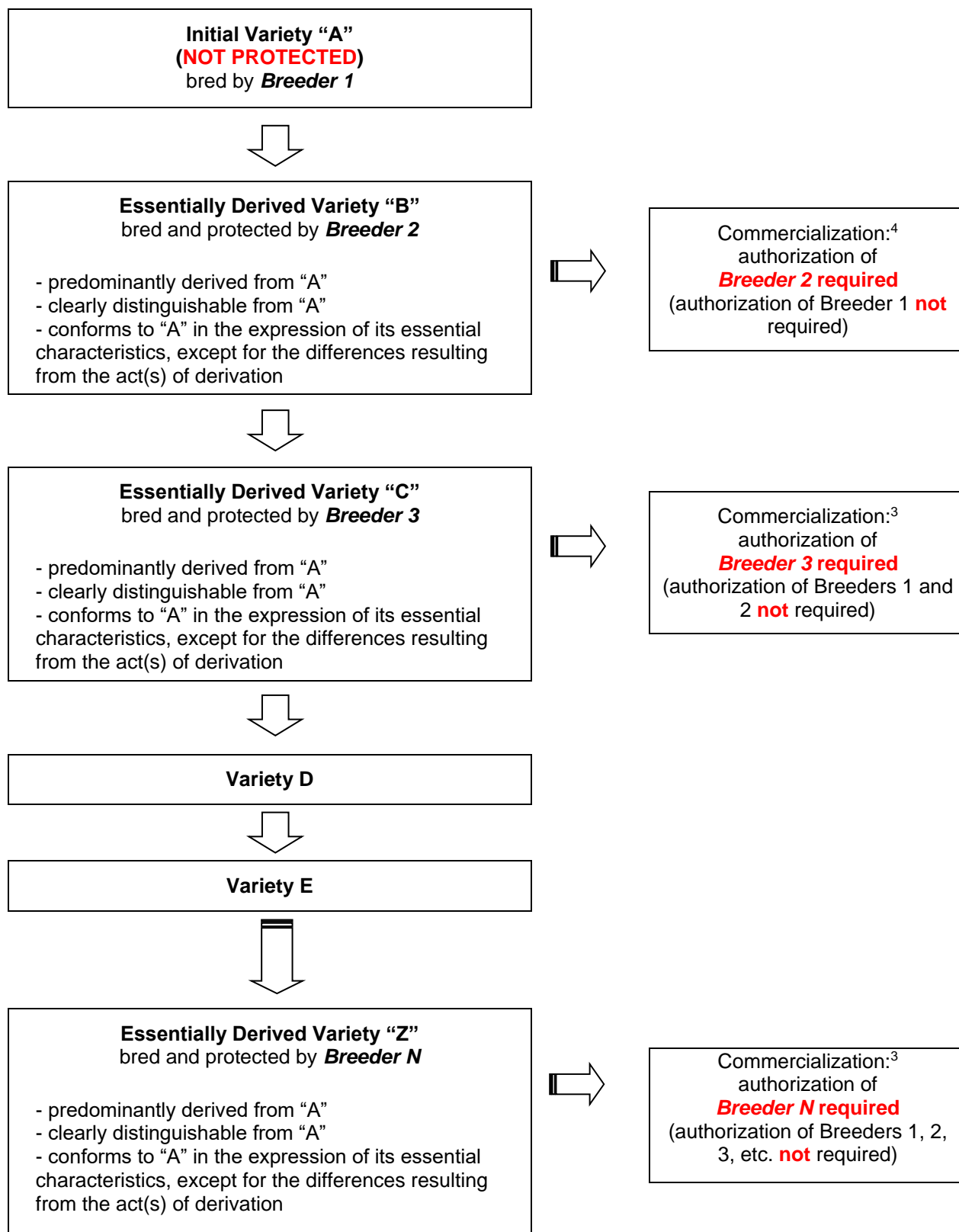
² "Commercialization" encompasses the acts concerning a protected variety which require the authorization of the breeder according to Article 14(1) to (4) of the 1991 Act of the UPOV Convention.

Figure 4: Initial Variety protected and EDVs NOT protected



³ "Commercialization" encompasses the acts concerning a protected variety which require the authorization of the breeder according to Article 14(1) to (4) of the 1991 Act of the UPOV Convention.

Figure 5: Initial Variety NOT protected and EDVs protected



⁴ "Commercialization" encompasses the acts concerning a protected variety which require the authorization of the breeder according to Article 14(1) to (4) of the 1991 Act of the UPOV Convention.

(d) *Territoriality of protection of initial varieties and essentially derived varieties*

27. The scope of the breeder's right applies only to the territory of a member of the Union where the breeder's right has been granted and is in force. Therefore, the breeder of an initial variety only has rights in relation to an essentially derived variety if the initial variety is protected in the territory concerned. Furthermore, the breeder of an essentially derived variety only has rights in relation to that variety if it is protected in its own right in the territory concerned, or if the breeder of the essentially derived variety is also the breeder of the initial variety and the initial variety is protected in the territory concerned.

(e) *Variety denomination of essentially derived varieties*

28. An EDV is a variety and may require a variety denomination. Regardless of whether an EDV is protected in its own right or not, the variety denomination shall not be identical to the denomination of the initial variety.

(f) *Transition from an earlier Act to the 1991 Act of the UPOV Convention*

29. Members of the Union which amend their legislation in line with the 1991 Act of the UPOV Convention may choose to offer the benefits of the 1991 Act to varieties which were protected under an earlier law. Thus, it is possible for members of the Union to offer the scope of protection provided by Article 14(5) to varieties which were granted protection under an earlier law. However, it should be noted that the conferring of the new scope of rights on a previously protected initial variety could impose new requirements concerning the commercialization* of essentially derived varieties, for which the breeder's authorization was not previously required.

30. One means of dealing with such a situation is the following: for varieties for which protection was granted under the earlier law and for which there is a remaining period of protection which falls under the new law, to limit the scope of rights on a protected initial variety to essentially derived varieties whose existence was not a matter of common knowledge at the time that the new law came into effect. With respect to varieties whose existence is a matter of common knowledge, the General Introduction to the Examination of Distinctness, Uniformity and Stability and the Development of Harmonized Descriptions of New Varieties of Plants (Document [TG/1/3](#)) explains the following:

“5.2.2 Common Knowledge

“5.2.2.1 Specific aspects which should be considered to establish common knowledge include, among others:

“(a) commercialization of propagating or harvested material of the variety, or publishing a detailed description;

“(b) the filing of an application for the grant of a breeder's right or for the entering of a variety in an official register of varieties, in any country, which is deemed to render that variety a matter of common knowledge from the date of the application, provided that the application leads to the grant of a breeder's right or to the entering of the variety in the official register of varieties, as the case may be;

“(c) existence of living plant material in publicly accessible plant collections.

“5.2.2.2 Common knowledge is not restricted to national or geographical borders.”

* “Commercialization” encompasses the acts concerning a protected variety which require the authorization of the breeder according to Article 14(1) to (4) of the 1991 Act of the UPOV Convention.

SECTION II: ASSESSMENT OF ESSENTIALLY DERIVED VARIETIES

31. The purpose of this Section is to provide guidance on assessing whether a variety is essentially derived and not whether the variety meets the requirements for the grant of a breeder's right.

32. A decision on whether to grant protection to a variety does not take into account whether the variety is essentially derived or not: the variety will be protected if the conditions for protection as set out in Article 5 of the UPOV Convention are fulfilled (novelty, distinctness, uniformity, stability, variety denomination, compliance with formalities and payment of fees). If it is established that a variety is an essentially derived variety, the breeder of that essentially derived variety still has all rights conferred by the UPOV Convention. However, the breeder of the protected initial variety will *also* have rights in that variety irrespective of whether the essentially derived variety is protected or not.

33. With regard to establishing whether a variety is an EDV, the existence of a relationship of essential derivation between varieties is a matter for the titleholder of the breeder's right in the initial variety concerned. The titleholder of the initial variety may establish predominant derivation (e.g., evidence of genetic conformity with the initial variety by DNA-based genetic analysis) or conformity of the essential characteristics. These are both possible starting points in providing an indication that a variety might be essentially derived from the initial variety.

34. It is a matter for the titleholder of the initial variety to evaluate new varieties commercialized by others and to determine if a new variety may have been essentially derived from their initial variety(ies). Independent experts may be necessary to establish whether a variety is or is not essentially derived from another variety. Such experts are likely to be found in the breeding or plant biotechnology circles or within PBR authorities.

SECTION III: OPTIONS FOR THE ENFORCEMENT OF BREEDERS' RIGHTS IN RELATION TO ESSENTIALLY DERIVED VARIETIES

35. In some situations, relevant information provided by the breeder of the initial variety on predominant derivation and/or on conformity of the essential characteristics might be used as the basis for the reversal of the burden of proof. In such situations, the breeder of the putative EDV should be required to prove that their variety is not essentially derived from the initial variety. For instance, the breeder of the putative EDV would need to provide information on the breeding history of their variety to prove it was not essentially derived from the initial variety.

36. The titleholder of the initial variety (IV) has several options available to assert their right against the breeder of an EDV. If the titleholder believes a new variety is predominantly derived from their variety, the IV titleholder may inform the putative EDV owner that there is a strong indication of essential derivation and whether a commercial license is required and available. If the parties are not able to reach agreement, the IV titleholder may choose to pursue one or more of the following options:

- (a) The IV titleholder may seek to prove the new variety's EDV status by undertaking a formal review and decision with an independent technical panel using a framework and criteria established by breeders' organizations;
- (b) The IV titleholder and the EDV owner may agree to submit the matter to mediation and/or arbitration to resolve any dispute (see document UPOV/INF/21 "Alternative Dispute Settlement Mechanisms");
- (c) The IV titleholder may take relevant actions before the competent tribunal to enforce their rights. (see document UPOV/EXN/ENF "Explanatory Notes on the Enforcement of Breeders' Rights under the UPOV Convention").

37. The 1991 Act of the UPOV Convention does not prescribe or specify a role for the PBR authority to arbitrate and settle EDV-related matters. Therefore, the PBR authority is not required to manage and resolve EDV-related disputes, including when and how the titleholder of an initial variety asserts their right against commercialization of an EDV.

SECTION IV: FACILITATING EDV UNDERSTANDING AND IMPLEMENTATION

38. The Council approved in 2020 the establishment and terms of reference for the Technical Working Party on Testing Methods and Techniques (TWM). The tasks of the TWM, as directed by the Technical Committee, include to “(i) Provide a forum for discussion on the use of biochemical and molecular techniques in the consideration of essential derivation and variety identification.”

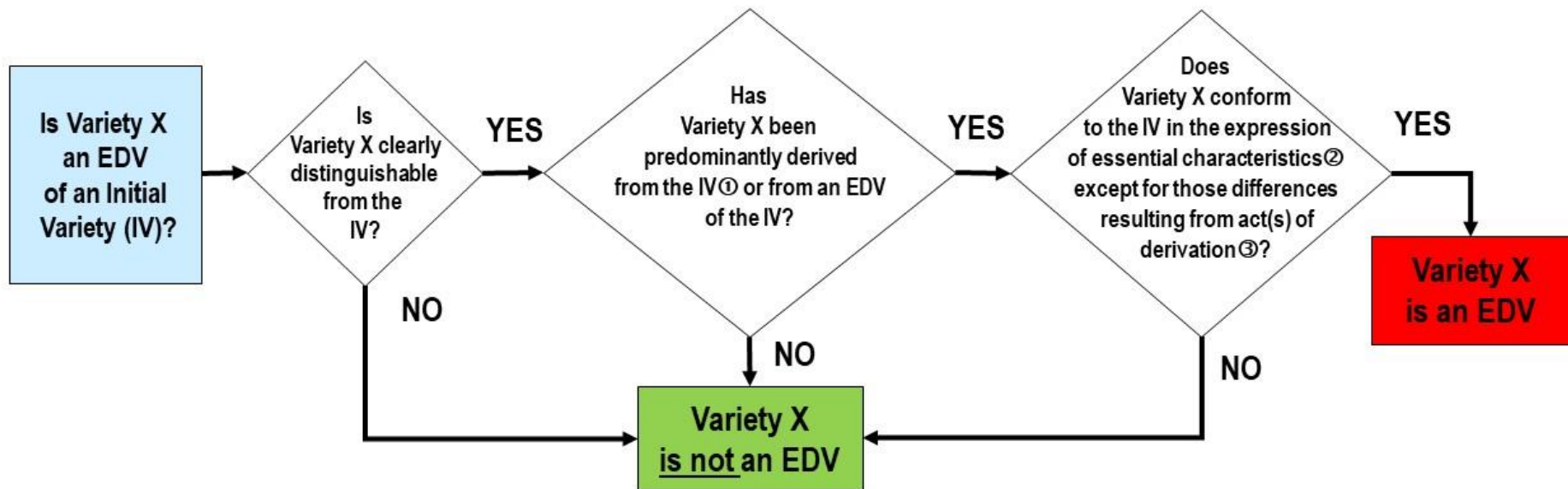
39. UPOV has established a section on its website (UPOV SYSTEM: Legal Resources: Jurisprudence: http://www.upov.int/about/en/legal_resources/case_laws/index.html) where case law relevant to plant breeders' rights, including case law concerning essentially derived varieties, is published. The Office of the Union welcomes the submission of summaries of recent decisions and/or, if possible, a direct link to the full text of the decision.

[Appendix follows]

APPENDIX

SUMMARY FLOWCHART

When does a New Variety qualify as an EDV under the 1991 Act of the UPOV Convention?*



*Different scenarios and consequences are presented in Figures 1 to 5 of the document.

① See paragraphs 4 and 5 of the document

② See paragraphs 7 to 12 of the document

③ See paragraphs 13 to 17 of the document

UPOV/WG-EDV/3/2

ANNEX II

COMPARED VERSION BETWEEN
DOCUMENT UPOV/EXN/EDV/2 "EXPLANATORY NOTES ON ESSENTIALLY DERIVED VARIETIES
UNDER THE 1991 ACT OF THE UPOV CONVENTION" ADOPTED BY THE COUNCIL AND
THE PRELIMINARY DRAFT TEXT FOR A REVISION OF DOCUMENT UPOV/EXN/EDV/2

UPOV

International Union for the Protection of New Varieties of Plants

E

UPOV/EXN/EDV/2

Original: English

Date: April 6, 2017

UPOV/WG-EDV/3/2

ANNEX I

PRELIMINARY DRAFT TEXT FOR THE REVISION OF THE EXPLANATORY NOTES
ON ESSENTIALLY DERIVED VARIETIES
_ UNDER THE 1991 ACT OF THE UPOV CONVENTION

Document adopted by the Council
at its thirty-fourth extraordinary session
on April 6, 2017

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PREAMBLE

1. The Diplomatic Conference for the Revision of the International Convention for the Protection of New Varieties of Plants, held in Geneva from March 4 to 19, 1991 (Diplomatic Conference), adopted the following resolution:

“Resolution on Article 14(5)¹

“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.”

2. These Explanatory Notes provide guidance on “Essentially Derived Varieties” under the 1991 Act of the International Convention for the Protection of New Varieties of Plants (UPOV Convention). The purpose of this guidance is to assist members of the Union and relevant stakeholders in their considerations in matters concerning essentially derived varieties. The only binding obligations on members of the Union are those contained in the text of the UPOV Convention itself, and these Explanatory Notes must not be interpreted in a way that is inconsistent with the relevant Act for the member of the Union concerned.

3. These Explanatory Notes are divided into ~~two~~the following four sections: ~~Section I: “Provisions of essentially derived varieties”, provides guidance on the notion of essentially derived varieties and Section II: “Assessment of essentially derived varieties”, provides guidance on assessing whether a variety is essentially derived;~~ Section III Options for the enforcement of breeders’ rights in relation to essentially derived varieties; and Section IV Facilitating EDV understanding and implementation.

¹ This Resolution was published as “Final Draft” in document DC/91/140 (see Records of the Diplomatic Conference for the Revision of the International Convention for the Protection of New Varieties of Plants-, UPOV Publication No. 346 (E) “Further instruments adopted by the Conference”, page 63.

SECTION I: PROVISIONS OF ESSENTIALLY DERIVED VARIETIES

(a) *Relevant provisions of the 1991 Act of the UPOV Convention*

THE RIGHTS OF THE BREEDER

Article 14

Scope of the Breeder's Right

[...]

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

(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.

(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.

(c) Essentially derived varieties may be obtained for example by the selection of a natural or induced mutant, or of a somaclonal variant, the selection of a variant individual from plants of the initial variety, backcrossing, or transformation by genetic engineering.

* The provisions in Article 14(1) to (4) of the 1991 Act of the UPOV Convention are as follows:

(1) [*Acts in respect of the propagating material*] (a) Subject to Articles 15 and 16, the following acts in respect of the propagating material of the protected variety shall require the authorization of the breeder:

- (i) production or reproduction (multiplication),
- (ii) conditioning for the purpose of propagation,
- (iii) offering for sale,
- (iv) selling or other marketing,
- (v) exporting,
- (vi) importing,
- (vii) stocking for any of the purposes mentioned in (i) to (vi), above.

(b) The breeder may make his authorization subject to conditions and limitations.

(2) [*Acts in respect of the harvested material*] Subject to Articles 15 and 16, the acts referred to in items (i) to (vii) of paragraph (1)(a) in respect of harvested material, including entire plants and parts of plants, obtained through the unauthorized use of propagating material of the protected variety shall require the authorization of the breeder, unless the breeder has had reasonable opportunity to exercise his right in relation to the said propagating material.

(3) [*Acts in respect of certain products*] Each Contracting Party may provide that, subject to Articles 15 and 16, the acts referred to in items (i) to (vii) of paragraph (1)(a) in respect of products made directly from harvested material of the protected variety falling within the provisions of paragraph (2) through the unauthorized use of the said harvested material shall require the authorization of the breeder, unless the breeder has had reasonable opportunity to exercise his right in relation to the said harvested material.

(4) [*Possible additional acts*] Each Contracting Party may provide that, subject to Articles 15 and 16, acts other than those referred to in items (i) to (vii) of paragraph (1)(a) shall also require the authorization of the breeder.

(b) *Defining an essentially derived variety*

Article 14(5)(b) of the 1991 Act of the UPOV Convention

(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.

Predominantly derived from the initial variety (Article 14(5)(b)(i))

4. Predominant derivation concerns the genetic source of the essentially derived variety. The requirement of predominant derivation from an initial variety, or from a variety that is itself predominantly derived from the initial variety, is the key requirement for a variety to be considered an EDV. Predominant derivation means that a variety can only be essentially derived from one initial variety. ~~The intention is that a variety should only be essentially derived from another variety when it retains virtually the whole genotype of the other variety. A derived variety could not, in practice, retain the expression of the essential characteristics of the variety from which it is derived unless it is almost entirely derived from that initial variety.~~

~~5. The phrase "while retaining the expression of the essential characteristics" requires that the expression of the essential characteristics conforms to and be derived from the initial variety.~~

5. "Predominant" derivation means that more of the genome of the initial variety is retained than would be retained by normal crossing and selection with different parents. A variety should only be considered predominantly derived from the initial variety if it retains almost the whole genome of its initial variety. However, a high degree of genetic conformity alone does not automatically mean that a variety has been predominantly derived. For example, sister lines from the same cross may have a high degree of genetic conformity but neither of the sister lines should be considered as the initial variety of the other nor as predominantly derived from the other. Convergent breeding may also result in a high degree of genetic conformity between two varieties that were developed from different parents without either of the varieties being an initial variety from which the other had been predominantly derived.

In that respect,

- (a) Varieties with a single parent (“mono-parental” varieties) resulting, for example, from mutations, genetic modification or genome editing are *per se* predominantly derived from their initial variety.
- (b) Varieties involving the use of two or more parents (“multi-parental” varieties) may be predominantly derived from one parent (the initial variety) by selectively retaining the genome of the initial variety, for example through repeated backcrossing. In this case, crop-specific genetic conformity thresholds might be defined in order to determine predominant derivation, i.e. beyond a level that would be obtained by normal crossing and selection with the initial variety.

~~6. The following might be considered in relation to the notion of “essential characteristics”:~~

- ~~(i) essential characteristics, in relation to a plant variety, means heritable traits that are determined by the expression of one or more genes, or other heritable determinants, that contribute to the principal features, performance or value of the variety;~~
- ~~(ii) characteristics that are important from the perspective of the producer, seller, supplier, buyer, recipient, or user;~~
- ~~(iii) characteristics that are essential for the variety as a whole, including, for example, morphological, physiological, agronomic, industrial and biochemical characteristics;~~
- ~~(iv) essential characteristics may or may not be phenotypic characteristics used for the examination of distinctness, uniformity and stability (DUS);~~
- ~~(v) essential characteristics are not restricted to those characteristics that relate only to high performance or value (for instance, disease resistance may be considered as an essential characteristic when the variety has susceptibility to disease);~~
- ~~(vi) essential characteristics may be different in different crops/species.~~

Clearly distinguishable from the initial variety (Article 14(5)(b)(ii))

~~7-6. The phrase “it is clearly distinguishable from the initial variety” establishes that essential derivation is concerned only with varieties that are ~~clearly distinguishable~~ distinct, in accordance with Article 7, from the initial variety ~~and which are accordingly protectable. Article 14(5)(a)(ii) would apply if the variety is “not clearly distinguishable in accordance with Article 7 from the protected variety”.~~~~

Conformity ~~with the initial variety~~ in the expression of the essential characteristics of an EDV with its initial variety (Article 14(5)(b)(iii))

7. An essential characteristic is a characteristic that results from the expression of one or more genes or other heritable determinants and includes, but is not limited to, morphological, physiological, agronomic, industrial and/or biochemical characteristics.

8. An “essential characteristic” is a characteristic that:

- (i) contributes to the principal features, performance or value of the variety; and/or
- (ii) is relevant for the producer, seller, supplier, buyer, recipient, or user of the propagating material and/or of the harvested material and/or of the directly obtained products; and/or
- (iii) is essential for the variety as a whole.

9. An essential characteristic may or may not be a characteristic used for the examination of distinctness, uniformity or stability (DUS) and/or value for cultivated use (VCU).

10. Essential characteristics are specific to each crop or species and may evolve over time.

11. A predominantly derived variety typically retains the expression of essential characteristics of the variety from which it is derived, except for those differences resulting from act(s) of derivation, which may also include differences in essential characteristics.

~~8.12.—A judgment on the question on the~~ The degree of conformity must be reached in the expression of essential characteristics should be assessed on the basis of the expression of the essential characteristics which result from the genotype of the initial variety. ~~9.—The words “except for~~ The conformity to the initial variety excludes the differences which result from the act(s) of derivation” do not. Changes in the expression of multiple characteristics can result from different successive acts of derivation or may be obtained simultaneously. For example, predominant derivation may result from multiple backcrosses or may be achieved by fewer backcrosses, combined with targeted selection methods.

13. Article 14(5)(b)(iii) does not set a limit as to the amount number of difference differences which may exist where a variety is still considered to be essentially derived. A limit is, however, set by Article 14(5)(b)(i) and (iii). ~~The number of differences must~~ between an EDV and the initial variety is therefore not be such that the variety fails ~~“limited to retain the expression of the~~ one or very few differences but may vary taking into account different methods of derivation. The differences may also include essential characteristics that result from the genotype or combination of genotypes of the initial variety”.

~~10.—The examples given in Article 14(5)(c) make clear that the differences which result from the act of derivation should be one or very few. However, if there are only one or few differences that does not necessarily mean that a variety is essentially derived. The variety would also be required to fulfil the definition stated in Article 14(5)(b).~~

~~11.—The derived variety must retain almost the totality of the genotype of the initial variety and be different from that variety by a very limited number of characteristics.~~

14. Differences resulting from act(s) of derivation are disregarded for the purpose of determining the EDV status of a variety. In that regard, the following clarification is provided:

- (a) In the case of mono-parental varieties, all differences necessarily result from the act(s) of derivation, meaning that all differences are excluded from consideration of the EDV status.
- (b) In the case of a multi-parental variety, the differences between that variety and any of its parent varieties may result from normal crossing and selection or from one or more of the methods of derivation described in paragraphs 15 and 16.

When determining the EDV status of such a multi-parental variety in relation to one of its parent varieties, it is therefore important to establish whether there have been one or several acts of derivation. If so, all differences resulting from such act(s) are disregarded for the purpose of determining the EDV status of a variety.

Examples ~~on ways in~~ of methods by which an essentially derived variety may be obtained (Article 14(5)(c))

~~12-15.~~ The Convention provides certain the following examples of some ways in methods by which an essentially derived variety may be obtained ~~(Article 14(5)(c): “Essentially derived varieties may be obtained for example by the:~~

- selection of a natural or induced mutant, or of a somaclonal variant, ~~the;~~
- selection of a variant individual from plants of the initial variety, ~~;~~
- backcrossing, ~~or;~~
- transformation by genetic engineering.”); ~~;~~

In the case of “backcrossing”, it is understood that this means repeated backcrossing to the initial variety.

~~13-16.~~ The use of the word “may” in Article 14(5)(c) indicates that those ways may not necessarily result in an essentially derived variety. In addition, the Convention clarifies that those are examples and do not exclude the possibility of an essentially derived variety being obtained in other ways. words “for example” in Article 14(5)(c) clarifies that the list of methods is not exhaustive. The examples of methods provided in Article 14(5)(c) correspond to the methods known in 1991. Since then, further breeding methods, such as genome editing, have emerged and other breeding methods that could lead to the development of essentially derived varieties may be developed. Such methods should be considered, as appropriate.

Method of breeding

~~14.—~~ There is a need to consider the situation in different crops and species and the method of breeding in the determination of essentially derived varieties.

~~15.—~~ Whether a mutation is naturally or artificially induced is irrelevant. For instance, the genetic change may result in a mutant that no longer retains the expression of the essential characteristics that result from the genotype of the initial variety.

17. The exclusive use of one or more of the methods in paragraphs 15 and 16 would typically result in essentially derived varieties.

Direct and indirect derivation

~~16-18.~~ The wording of Article 14(5)(b)(i) explains that essentially derived varieties can be predominantly derived from a variety that is itself predominantly derived from the initial variety, thereby indicating that essentially derived varieties can be obtained, either directly or indirectly, from the “initial variety”. Varieties can be predominantly derived from the initial variety “A”, either directly, or indirectly via varieties “B”, “C”, “D”, or “E” ... etc., and will still be considered essentially derived varieties from variety “A” if they fulfill the definition stated in Article 14(5)(b).

~~17-19.~~ In the example in Figure 1, variety B is an essentially derived variety from variety A and is predominantly derived from variety A.

~~18-20.~~ Essentially derived varieties can also be indirectly obtained from an initial variety. Article 14(5)(b)(i) provides that an essentially derived variety can be “predominantly derived from the initial variety, or from a variety that is itself predominantly derived from the initial variety.” In the example in Figure 2, Variety C has been predominantly derived from variety B, variety B being itself predominantly derived from variety A (the initial variety). Variety C is essentially derived from initial variety A, but is predominantly derived from variety B.

~~19-21.~~ Irrespective of whether variety C has been obtained directly from the initial variety A or not, it is an essentially derived variety from variety A if it fulfills the definition stated in Article 14(5)(b).

(c) *Scope of the breeder’s right with respect to initial varieties and essentially derived varieties*

1991 Act of the UPOV Convention

Article 14 (5) (a) (i)

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

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

~~20-22.~~ The relationship between the initial variety (variety A) and an essentially derived variety (varieties B, C, etc.) is irrespective of whether a plant breeder’s right has been granted to those varieties. Variety A will always be the initial variety for varieties B, C, etc., and varieties B, C, etc., will always be essentially derived varieties from variety A. However, only if the initial variety is protected, ~~that will have certain consequences in relation to~~ the essentially derived varieties B, C, etc., fall within the scope of protection of the initial variety.

Figure 1: Essentially Derived Variety “B”

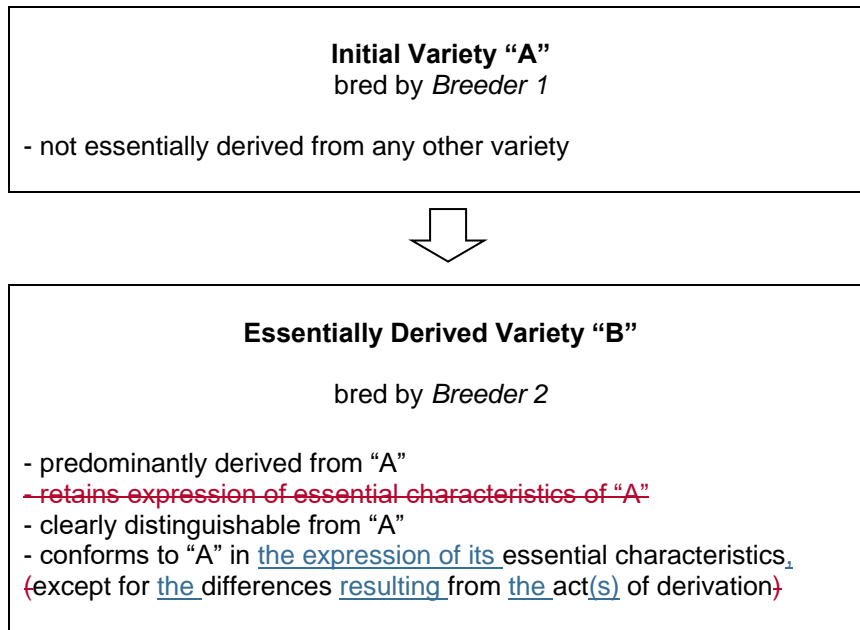
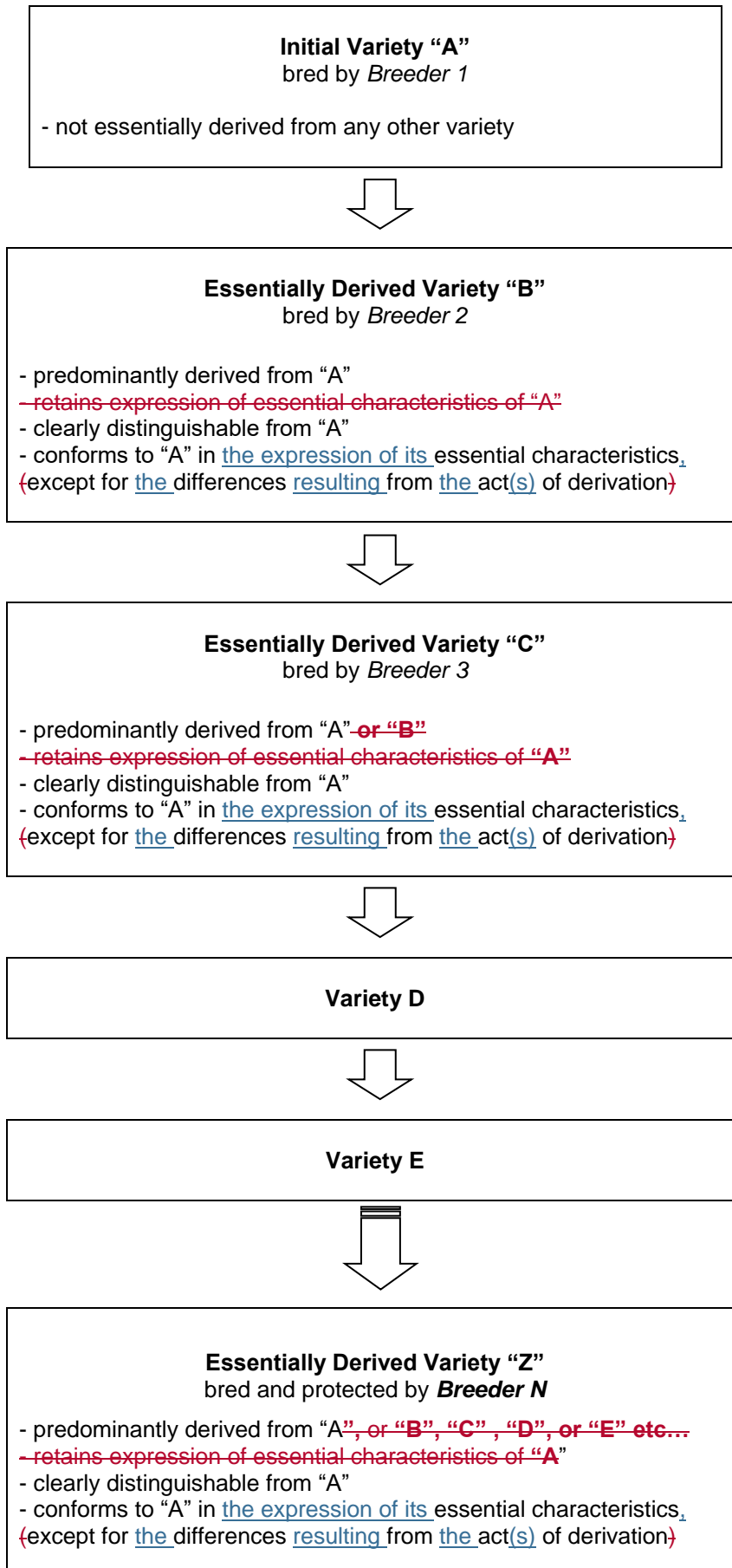


Figure 2: EDV “C”, “D” to “Z”



~~21-23.~~ Essentially derived varieties are eligible for plant breeders' rights in the same way as for any variety, if they fulfill the conditions established in the Convention (see Article 5 of the 1991 Act of the UPOV Convention). If an essentially derived variety is protected, it is necessary to obtain the authorization of the breeder of the essentially derived variety as provided in Article 14(1) of the UPOV Convention. However, the provisions of Article 14(5)(a)(i) extend the scope of the right set out in Article 14(1) to (4) of the protected initial variety to essentially derived varieties. Therefore, if variety A is a protected initial variety, the acts included in Article 14(1) to (4) concerning essentially derived varieties require the authorization of the titleholder of variety A. In this document the term "commercialization" is used to cover the acts included in Article 14(1) to (4). Thus, when there is a plant breeder's right on both the initial variety (variety A) and an essentially derived variety (variety B), the authorization of both the breeder of the initial variety (variety A) and the breeder(s) of the essentially derived variety (variety B) is required for the commercialization of the essentially derived variety (variety B).

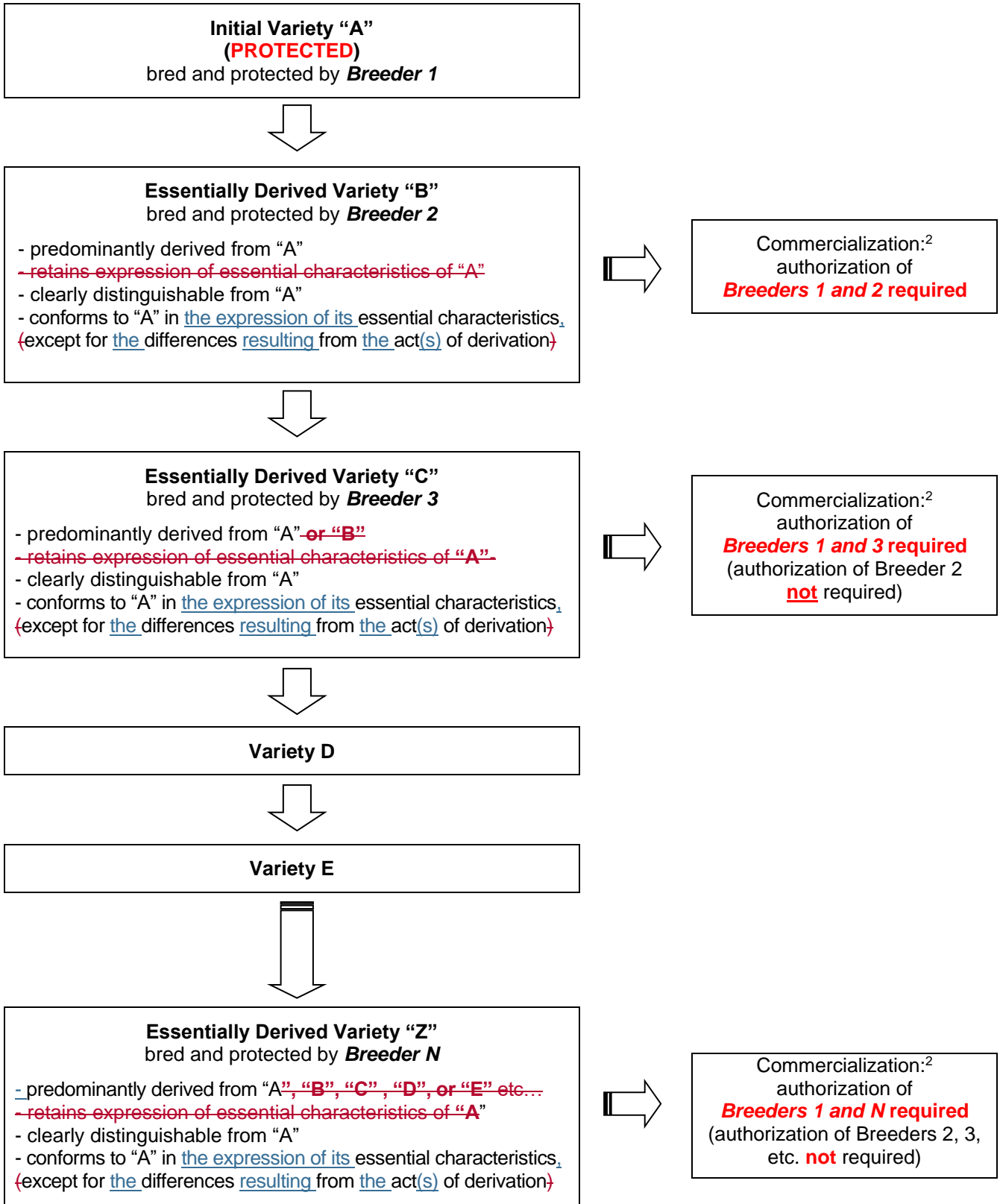
24. If an essentially derived variety (variety B) is not protected in its own right, the acts included in Article 14(1) to (4) concerning variety B undertaken by the breeder of variety B, or any third party, would require the authorization of the titleholder of variety A.

~~22-25.~~ Once the plant breeder's right of the initial variety (variety A) has ceased, the authorization of the breeder of the initial variety is no longer required for the commercialization of variety B. In such a situation, and if the plant breeder's right of the essentially derived variety is still valid, only the authorization of the ~~breeder~~titleholder of the essentially derived variety would be required for the commercialization of variety B. Furthermore, if the initial variety was never protected, only the authorization of the ~~breeder~~titleholder of the essentially derived variety would be required for the commercialization of variety B.

Summary

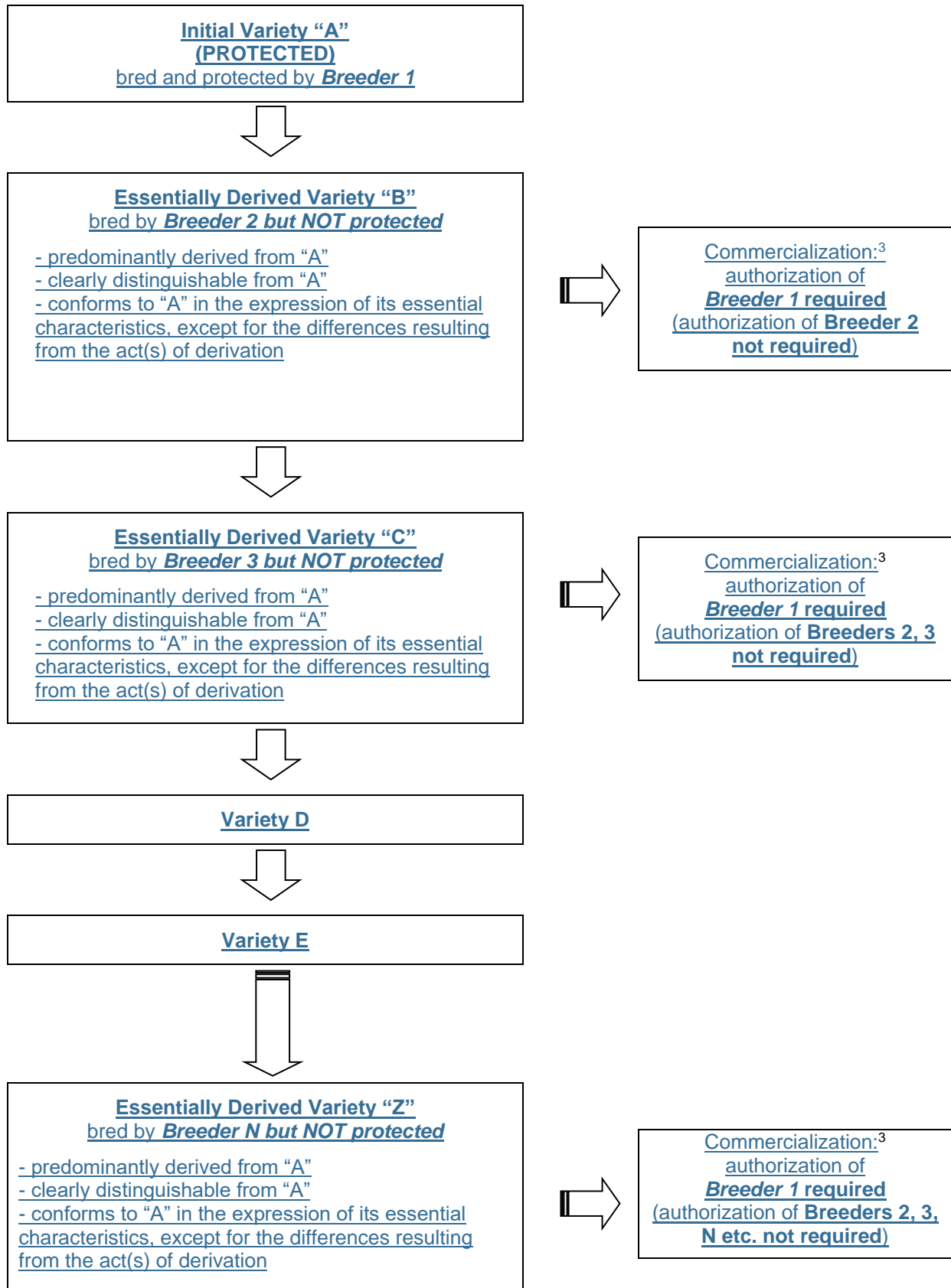
~~23-26.~~ Figures 3, 4 and ~~4~~ 5 provide a summary of the ~~situation~~situations described above. It is important to note that the scope of the breeder's right is only extended to essentially derived varieties in respect of a protected initial variety. In that regard, it should also be noted that a variety which is essentially derived from another variety cannot be an initial variety (see Article 14(5)(a)(i)). Thus, in figure 3, the rights of Breeder 1 extend to EDV "B", EDV "C" and EDV "Z". However, although EDV "C" is predominantly derived from EDV "B", Breeder 2 has no rights as far as EDV "C" is concerned. In the same way, Breeders 2 and 3 have no rights as far as EDV "Z" is concerned. Another important aspect of the provision on essential derivation is that no rights extend to essentially derived varieties if the initial variety is not protected. Thus, in figure 4, if variety "A" was not protected or if variety "A" is no longer protected (e.g., because of expiration of the period of protection, or cancellation or nullification of the plant breeders' rights), the authorization of Breeder 1 would no longer be required to be able to commercialize varieties "B", "C" and "Z".

Figure 3: Initial Variety protected and EDVs protected



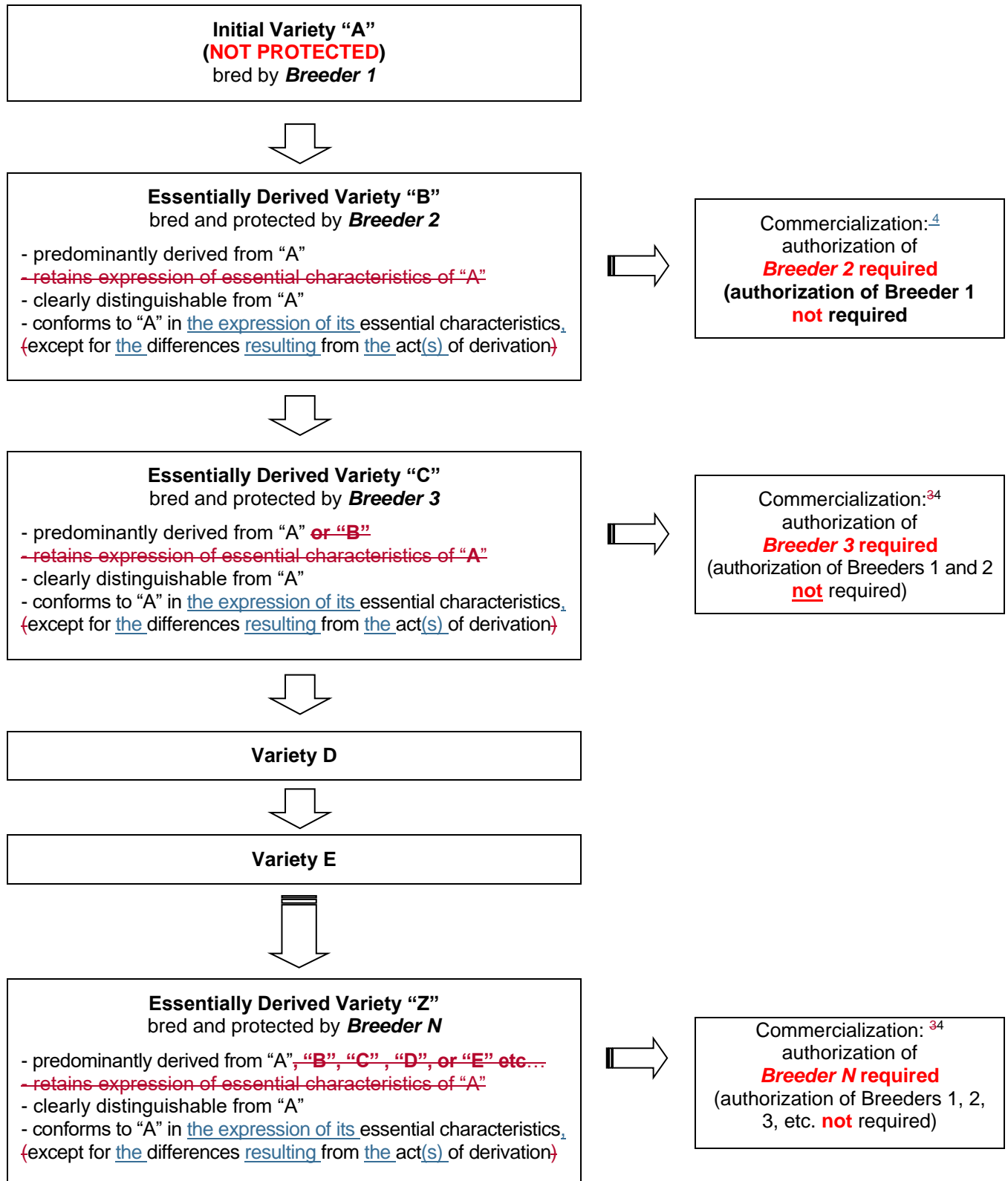
² "Commercialization" encompasses the acts concerning a protected variety which require the authorization of the breeder according to Article 14(1) to (4) of the 1991 Act of the UPOV Convention.

Figure 4: Initial Variety protected and EDVs NOT protected



³ "Commercialization" encompasses the acts concerning a protected variety which require the authorization of the breeder according to Article 14(1) to (4) of the 1991 Act of the UPOV Convention.

Figure 4.5: Initial Variety NOT protected and EDVs protected



³⁴ "Commercialization" encompasses the acts concerning a protected variety which require the authorization of the breeder according to Article 14(1) to (4) of the 1991 Act of the UPOV Convention.

(d) *Territoriality of protection of initial varieties and essentially derived varieties*

[24-27](#). The scope of the breeder's right applies only to the territory of a member of the Union where the breeder's right has been granted and is in force. Therefore, the breeder of an initial variety only has rights in relation to an essentially derived variety if the initial variety is protected in the territory concerned. Furthermore, the breeder of an essentially derived variety only has rights in relation to that variety if it is protected in its own right in the territory concerned, or if the breeder of the essentially derived variety is also the breeder of the initial variety and the initial variety is protected in the territory concerned.

[\(e\)](#) *Variety denomination of Essentially Derived Varieties*

[28](#). An EDV is a variety and may require a variety denomination. Regardless of whether an EDV is protected in its own right or not, the variety denomination shall not be identical to the denomination of the initial variety.

~~(e)~~(f) *Transition from an earlier Act to the 1991 Act of the UPOV Convention*

[25-29](#). Members of the Union which amend their legislation in line with the 1991 Act of the UPOV Convention may choose to offer the benefits of the 1991 Act to varieties which were protected under an earlier law. Thus, it is possible for members of the Union to offer the scope of protection provided by Article 14(5) to varieties which were granted protection under an earlier law. However, it should be noted that the conferring of the new scope of rights on a previously protected initial variety could impose new requirements concerning the commercialization* of essentially derived varieties, for which the breeder's authorization was not previously required.

[26-30](#). One means of dealing with such a situation is the following: for varieties for which protection was granted under the earlier law and for which there is a remaining period of protection which falls under the new law, to limit the scope of rights on a protected initial variety to essentially derived varieties whose existence was not a matter of common knowledge at the time that the new law came into effect. With respect to varieties whose existence is a matter of common knowledge, the General Introduction to the Examination of Distinctness, Uniformity and Stability and the Development of Harmonized Descriptions of New Varieties of Plants (Document [TG/1/3](#)) explains the following:

“5.2.2 Common Knowledge

“5.2.2.1 Specific aspects which should be considered to establish common knowledge include, among others:

“(a) commercialization of propagating or harvested material of the variety, or publishing a detailed description;

“(b) the filing of an application for the grant of a breeder's right or for the entering of a variety in an official register of varieties, in any country, which is deemed to render that variety a matter of common knowledge from the date of the application, provided that the application leads to the grant of a breeder's right or to the entering of the variety in the official register of varieties, as the case may be;

“(c) existence of living plant material in publicly accessible plant collections.

“5.2.2.2 Common knowledge is not restricted to national or geographical borders.”

* “Commercialization” encompasses the acts concerning a protected variety which require the authorization of the breeder according to Article 14(1) to (4) of the 1991 Act of the UPOV Convention.

SECTION II: ASSESSMENT OF ESSENTIALLY DERIVED VARIETIES

31. The purpose of this Section is to provide guidance on assessing whether a variety is essentially derived and not whether the variety meets the requirements for the grant of a breeder's right.

~~27-32.~~ A decision on whether to grant protection to a variety does not take into account whether the variety is essentially derived or not: the variety will be protected if the conditions for protection as set out in Article 5 of the UPOV Convention are fulfilled (novelty, distinctness, uniformity, stability, variety denomination, compliance with formalities and payment of fees). If it is ~~concluded~~ established that ~~the~~ a variety is an essentially derived variety, the breeder of that essentially derived variety still has all ~~the~~ rights conferred by the UPOV Convention. However, the breeder of the protected initial variety will also have rights in that variety irrespective of whether the essentially derived variety is protected or not.

~~28. The purpose of this Section is to provide guidance on assessing whether a variety is essentially derived and not whether the variety meets the requirements for the grant of a breeder's right.~~

~~29-33.~~ With regard to establishing whether a variety is an EDV, the existence of a relationship of essential derivation between varieties is a matter for the titleholder of the breeder's right in the initial variety concerned. The titleholder of the initial variety may establish ~~Both~~ predominant derivation (e.g., evidence of genetic conformity with the initial variety) ~~and by DNA-based genetic analysis) or conformity on the essential characteristics (e.g. evidence on conformity in the expression of the essential characteristics of the initial variety).~~ These are both possible starting points in providing an indication that a variety might be essentially derived from the initial variety.

34. It is a matter for the titleholder of the initial variety to evaluate new varieties commercialized by others and to determine if a new variety may have been essentially derived from their initial variety(ies). Independent experts may be necessary to establish whether a variety is or is not essentially derived from another variety. Such experts are likely to be found in the breeding or plant biotechnology circles or within PBR authorities.

SECTION III: OPTIONS FOR THE ENFORCEMENT OF BREEDERS' RIGHTS IN RELATION TO ESSENTIALLY DERIVED VARIETIES

~~30-35.~~ In some situations, relevant information provided by the breeder of the initial variety on predominant derivation and/or on conformity ~~on~~ of the essential characteristics might be used as the basis for the reversal of the burden of proof. In such situations, the ~~other~~ breeder ~~might need~~ of the putative EDV should be required to prove that ~~the other~~ their variety is not essentially derived from the initial variety. For instance, the ~~other~~ breeder of the putative EDV would need to provide information on the breeding history of ~~the other~~ their variety to prove ~~that the variety~~ it was not essentially derived from the initial variety.

36. The titleholder of the initial variety (IV) has several options available to assert their right against the breeder of an EDV. If the titleholder believes a new variety is predominantly derived from their variety, the IV titleholder may inform the putative EDV owner that there is a strong indication of essential derivation and whether a commercial license is required and available. If the parties are not able to reach agreement, the IV titleholder may choose to pursue one or more of the following options:

- (a) The IV titleholder may seek to prove the new variety's EDV status by undertaking a formal review and decision with an independent technical panel using a framework and criteria established by breeders' organizations.
- (b) The IV titleholder and the EDV owner may agree to submit the matter to mediation and/or arbitration to resolve any dispute (see document UPOV/INF/21 "Alternative Dispute Settlement Mechanisms").
- (c) The IV titleholder may take relevant actions before the competent tribunal to enforce their rights. (see document UPOV/EXN/ENF "Explanatory Notes on the Enforcement of Breeders' Rights under the UPOV Convention").

37. The 1991 Act of the UPOV Convention does not prescribe or specify a role for the PBR authority to arbitrate and settle EDV-related matters. Therefore, the PBR authority is not required to manage and resolve EDV-related disputes, including when and how the titleholder of an initial variety asserts their right against commercialization of an EDV.

SECTION IV: FACILITATING EDV UNDERSTANDING AND IMPLEMENTATION

38. The Council approved in 2020 the establishment and terms of reference for the Technical Working Party on Testing Methods and Techniques (TWM). The tasks of the TWM, as directed by the Technical Committee, include to “(i) Provide a forum for discussion on the use of biochemical and molecular techniques in the consideration of essential derivation and variety identification.”

~~34-39.~~ UPOV has established a section on its website (UPOV SYSTEM: Legal Resources: Jurisprudence: http://www.upov.int/about/en/legal_resources/case_laws/index.html) where case law relevant to plant breeders' rights, including case law concerning essentially derived varieties, is published. The Office of the Union welcomes the submission of summaries of recent decisions and/or, if possible, a direct link to the full text of the decision.

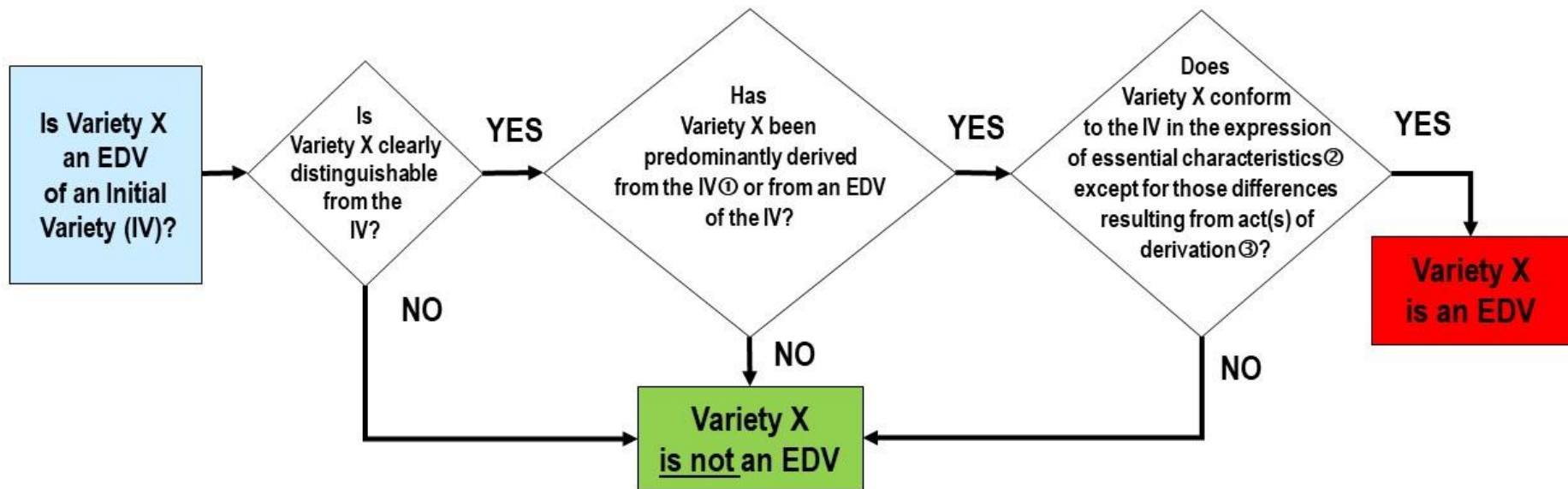
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[Appendix follows]

APPENDIX

SUMMARY FLOWCHART

When does a New Variety qualify as an EDV under the 1991 Act of the UPOV Convention?*



*Different scenarios and consequences are presented in Figures 1 to 5 of the document.

① See paragraphs 4 and 5 of the document

② See paragraphs 7 to 12 of the document

③ See paragraphs 13 to 17 of the document