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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS Geneva

TECHNICAL WORKING PARTY FOR VEGETABLES

Fiftieth Session Brno, Czech Republic, June 27 to July 1, 2016

REVISED ADDENDUM TO

NEW ISSUES ARISING FOR DUS EXAMINATION

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This document contains copies of presentations made at the fiftieth session of the Technical Working Party for Vegetables (TWV), as follows:

- Annex I: "Vegetatively propagated varieties in a normally seed propagated species", by an expert from the Netherlands;
- Annex II: "Effect of seed Priming on vegetable DUS tests" by an expert from the Community Plant Variety Office of the European Union (CPVO)

[Annexes follow]

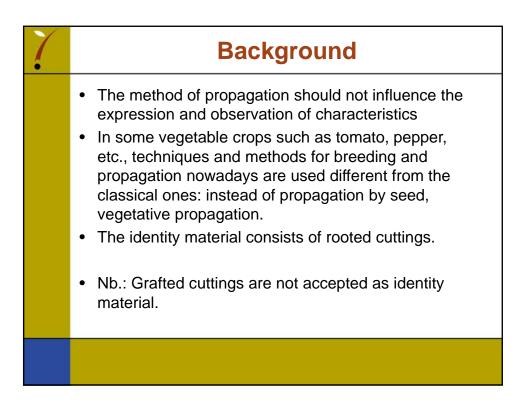
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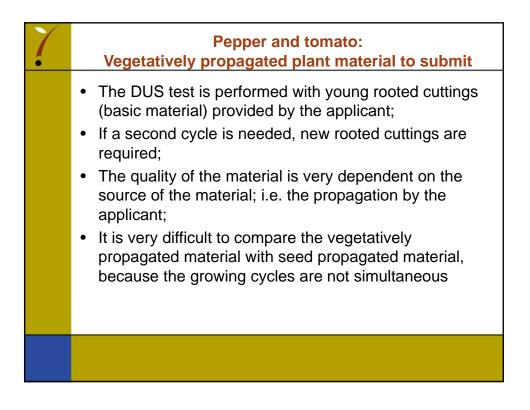
ANNEX I

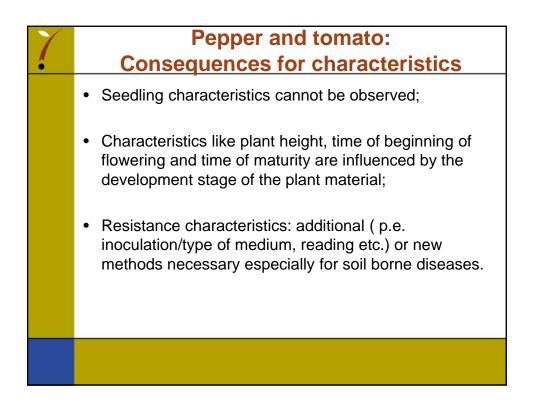
VEGETATIVELY PROPAGATED VARIETIES IN A NORMALLY SEED PROPAGATED SPECIES BY AN EXPERT FROM THE NETHERLANDS

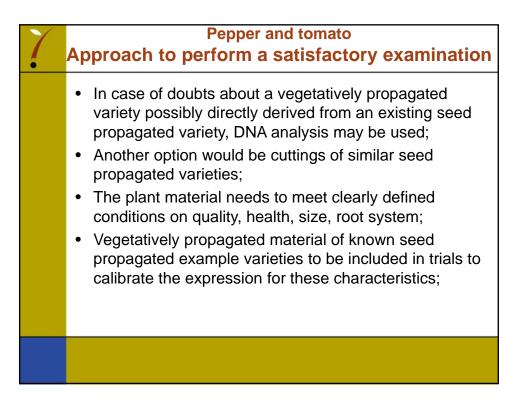


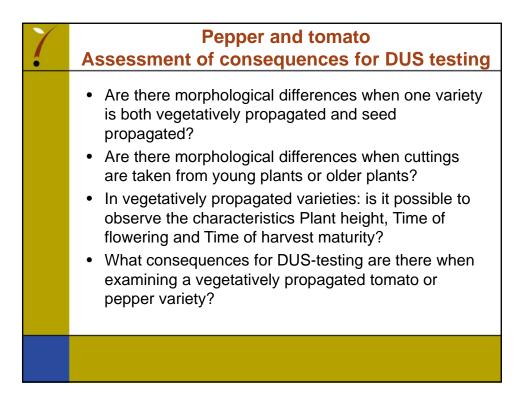




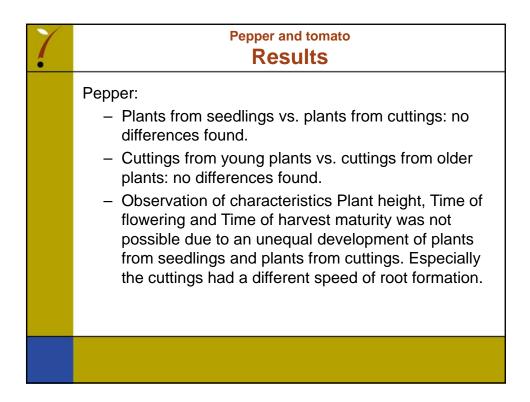


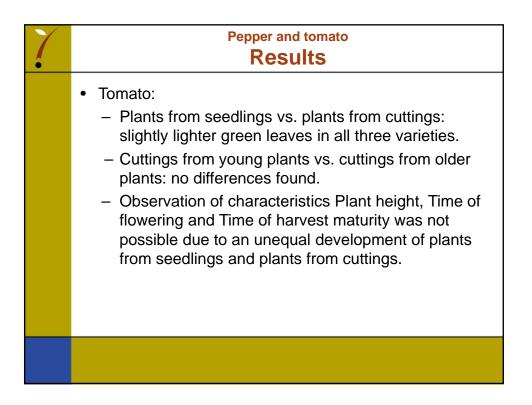


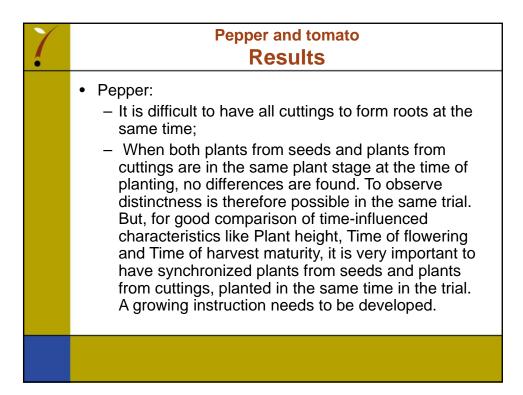


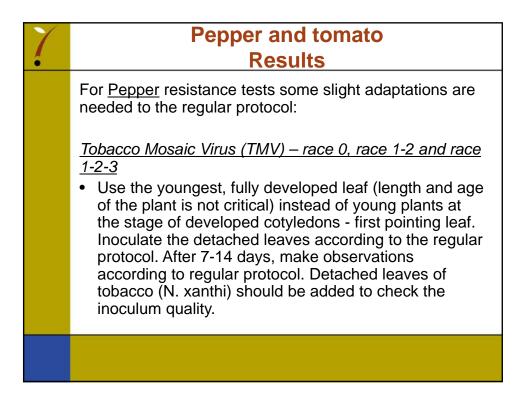


?	Assessment DUS testing of vegetative varieties compared to seed varieties
	• Method : Varieties where chosen to represent the whole range of expressions for the characteristics Plant height, Time of flowering and Time of harvest maturity.
	 Comparison of Plants from seedlings vs. plants from cuttings Cuttings from young plants vs. cuttings from older plants From cuttings only





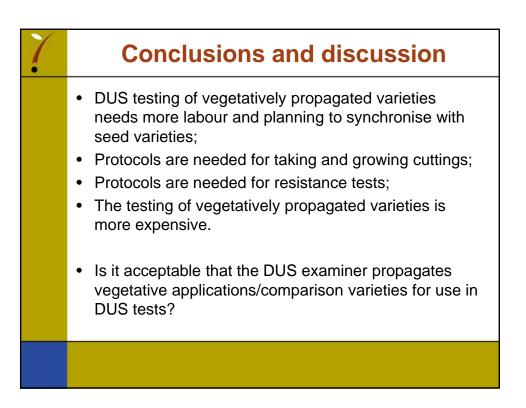




Pepper and tomato Results

- Tomato
 - By taking cuttings, the intensity of leaf colour becomes slightly darker green than in plants from seeds. To be able to observe distinctness between a vegetatively propagated candidate and seed propagated comparisons, the comparisons should be grown from cuttings as well. This will make the trial more expensive.
 - It takes secure planning to have plants from seeds and plants from cuttings in the same plant stage when planting.

Y	Pepper and tomato
	Results
	For <u>Tomato</u> resistance tests adaptations are needed to the regular protocols:
	Meloidogyne incognita
	 When cuttings are ready for transplanting (ca. 13 days after cutting), transplant them into infected soil according to regular test protocol.
	 Test may take approximately one week longer as cuttings may be stronger against Nematodes.
	<u>Verticillium sp. (Va and Vd) – race 0 and Fusarium oxysporum f. sp.</u> lycopersici race 0 (ex 1) and race 1 (ex 2)
	 When cuttings are ready for transplanting (ca. 15 days after cutting), immerse the roots in a spore suspension with a spore concentration 5 times higher than regular. This high spore concentration is necessary to break through the mature-plant- resistance.
	<u>Tomato Mosaic Virus (ToMV) – strain 0</u>
	 After transplanting the cuttings, grow them for ca. 7 days more until the plants are developing well. Then, inoculate them
	according to the regular protocol.

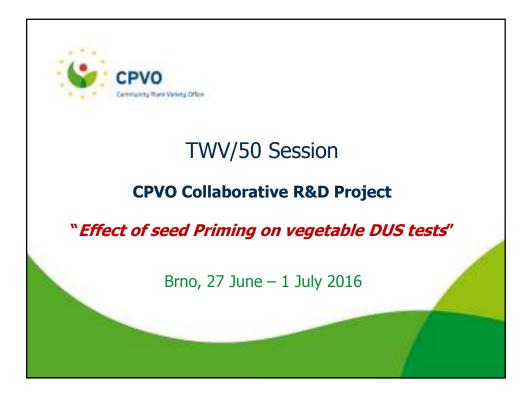


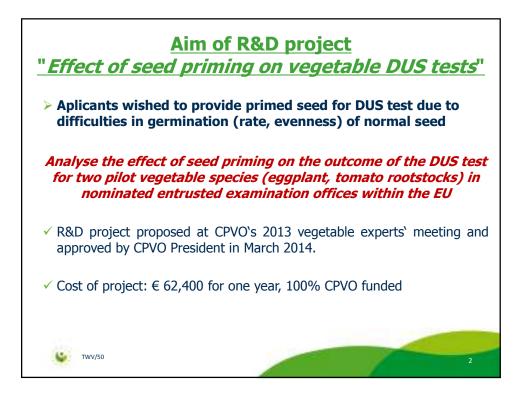
[Annex II follows]

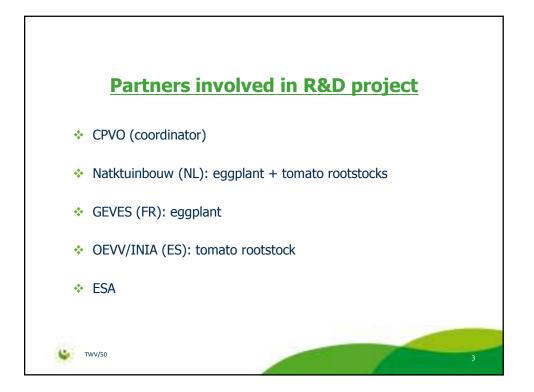
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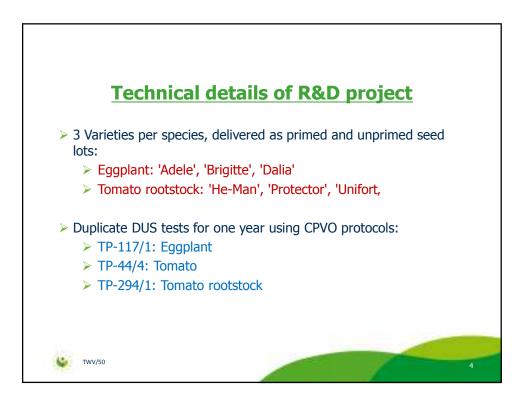
ANNEX II

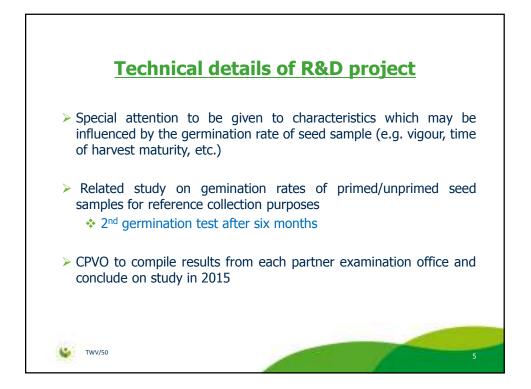
EFFECT OD SEED PRIMING ON VEGETABLE DUS TESTS BY AN EXPERT FROM THE COMMUNITY PLANT VARIETY OFFICE OF THE EUROPEAN UNION (CPVO)



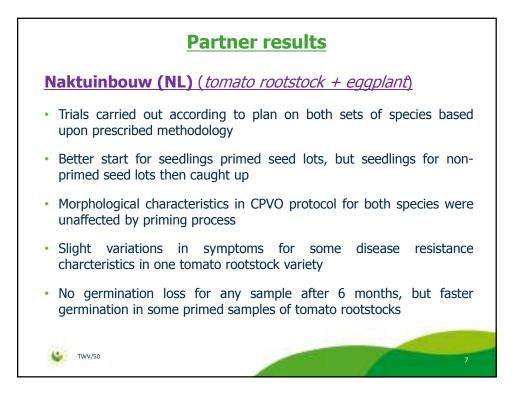


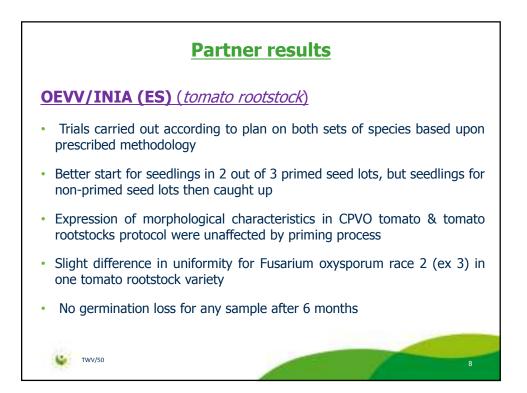


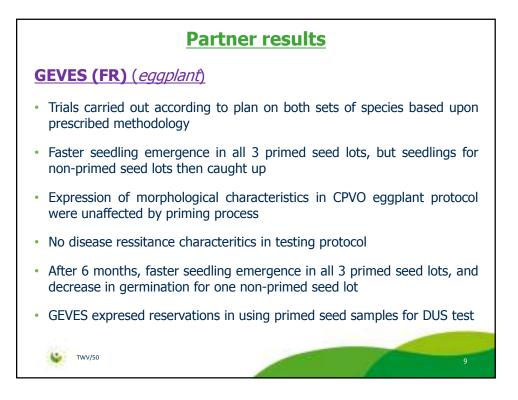


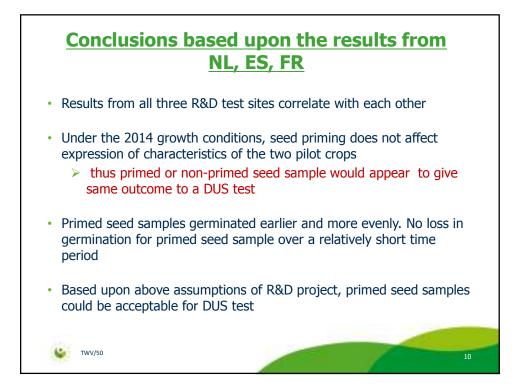


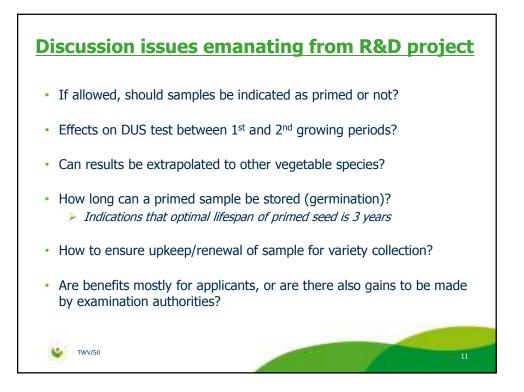


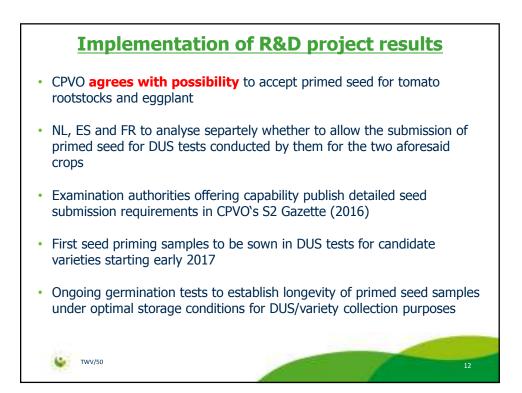




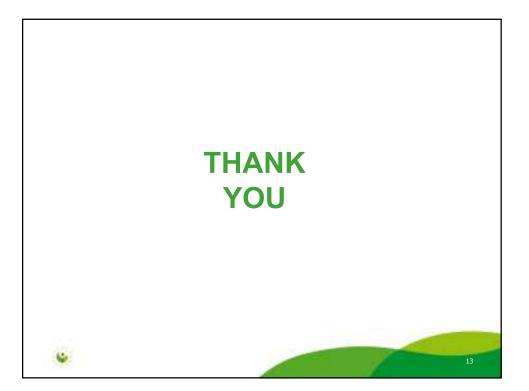








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