

Molecular markers in DUS

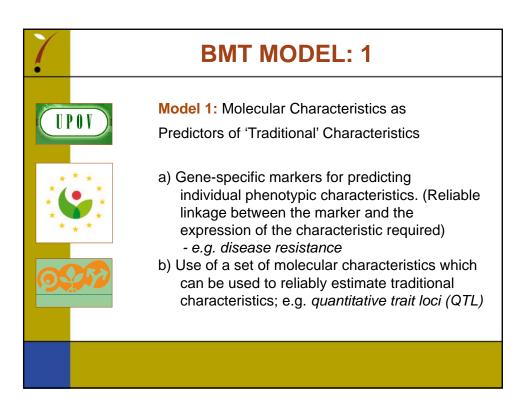
UPOV-BMT

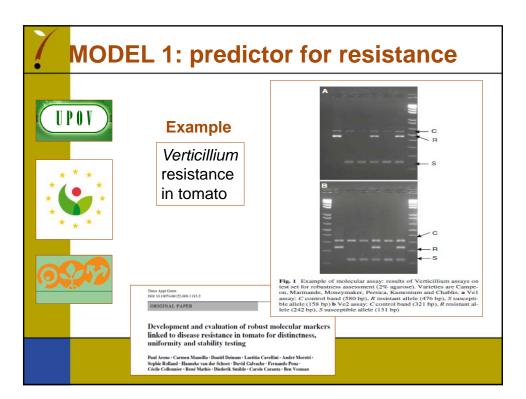
UPOV

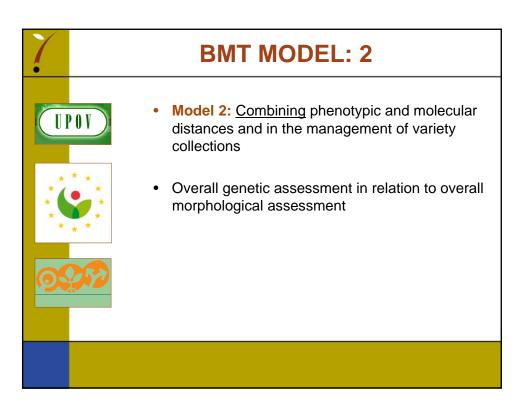
 The Working Group on <u>B</u>iochemical and <u>M</u>olecular <u>T</u>echniques and DNA-profiling in particular (BMT)

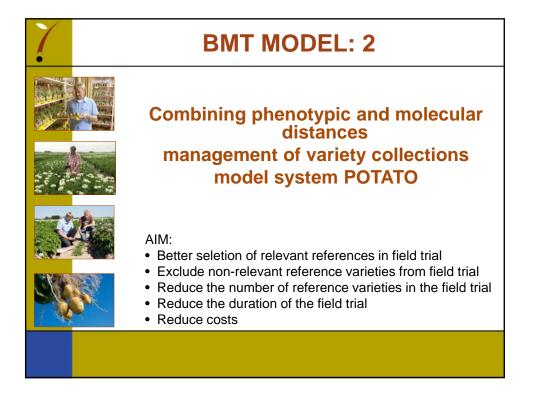
Open group of DUS experts, biochemical and molecular specialists and plant breeders, that consider new techniques for application of molecular markers in DUS testing

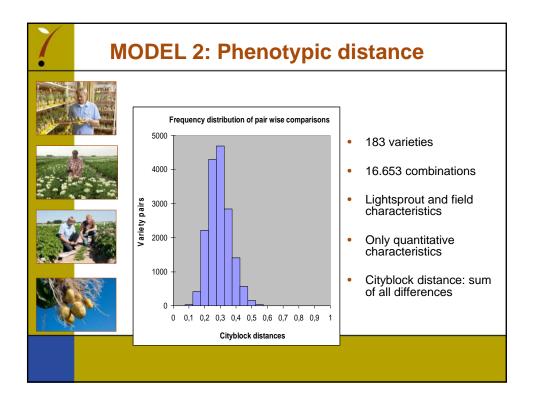
Molecular Markers in DUS			
UPOV	• UPOV-BMT The Working Group on <u>B</u> iochemical and <u>M</u> olecular <u>T</u> echniques and DNA-profiling in particular (BMT)		
	 MODEL 1: Characteristic-specific molecular markers MODEL 2: Combinating phenotypic and molecular distances and in the management of variety collections 		
0	MODEL 3: Calibrated molecular distances in the management of variety collections		
	MODEL 4: Use of molecular marker characteristics		

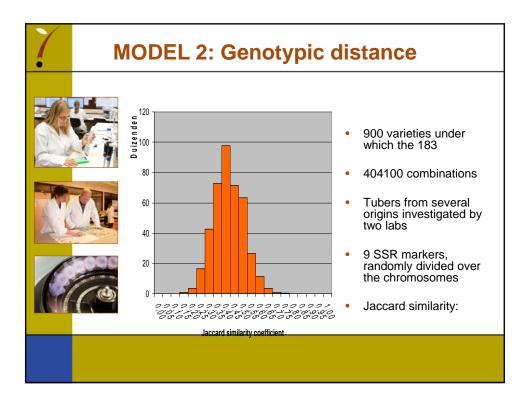


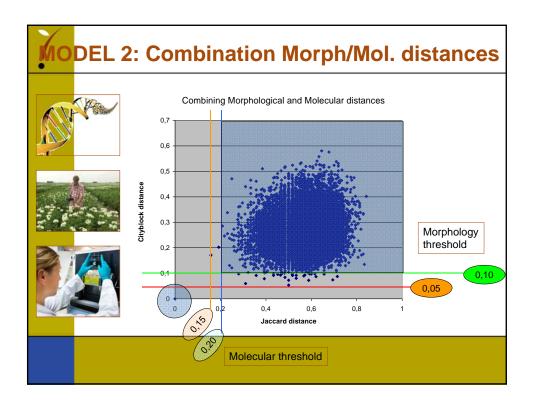


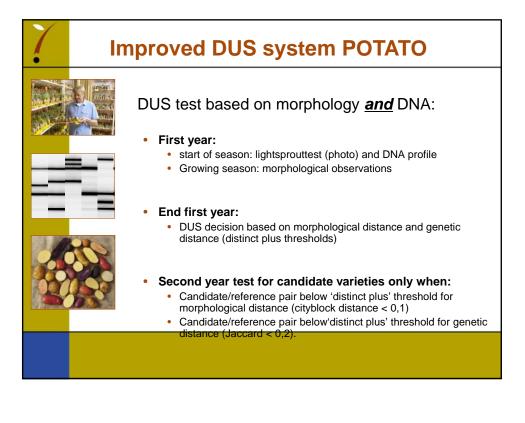












IODEL 2: Combination Morph/Mol. distances



Advantages :

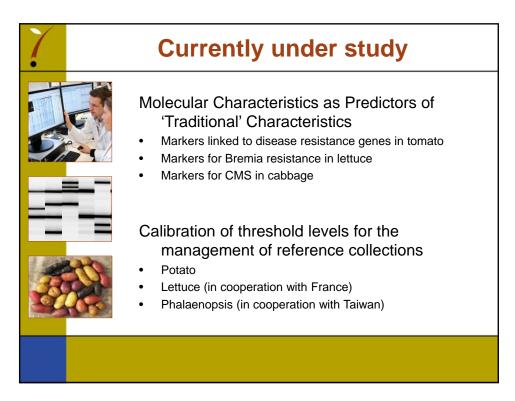
- A hugh collection of varieties in *common knowledge* in a DNA database, not a living collection.
- Increased reliability for a candidate variety to be (or not to be) distinct from all that is known.

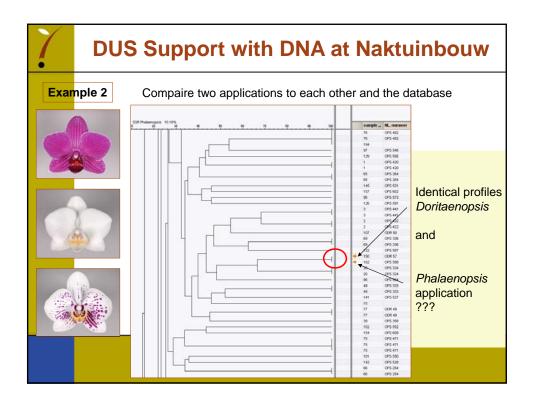


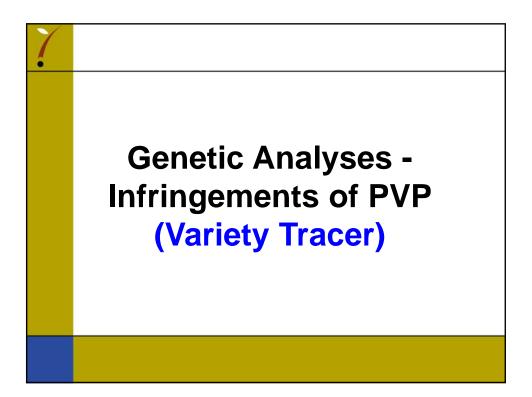
• Possible exclusion or inclusion reference varieties based on their DNA profiles.

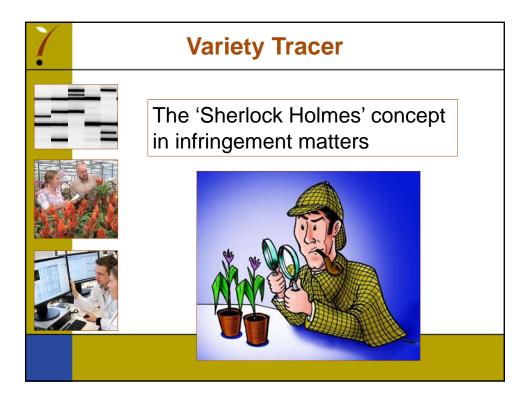


- Insome cases the duration of DUS trial can be reduced (cost reduction).
- Spin-off: use DNA database for other purposes than DUS.









? \	ariety identification (quality control)			
- ANNA	Pro-	Consumer		
			Processing	
			Trading	
	*****	Propagation/tissue culture		
		а́ Ц	Breeding and PVP	

