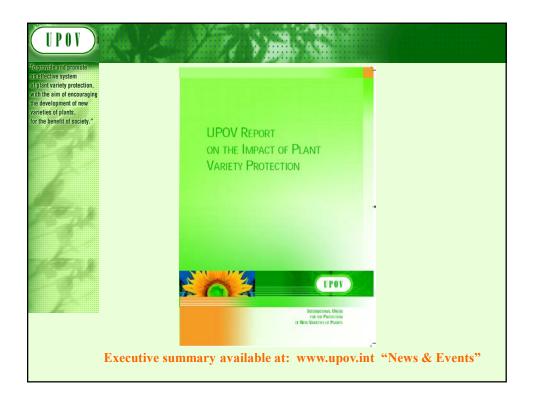
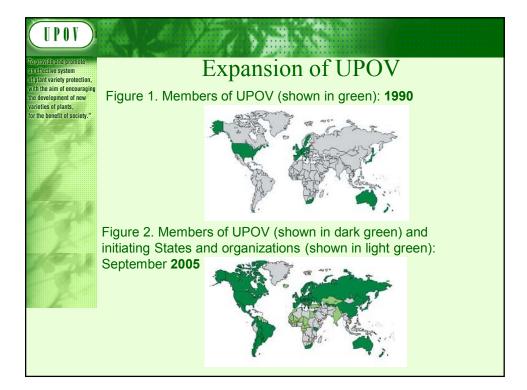
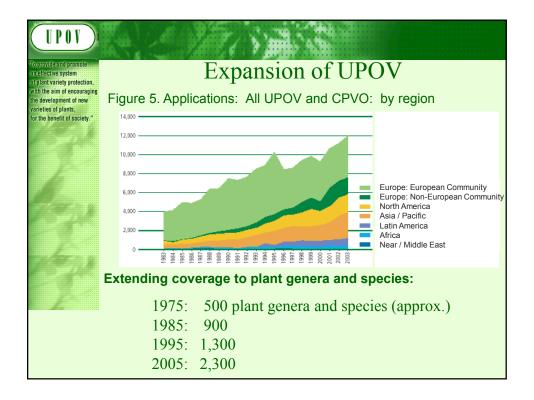
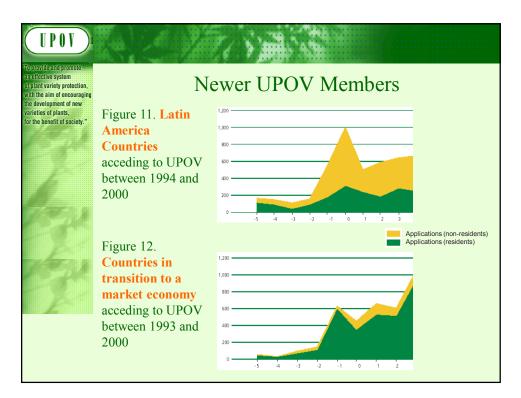


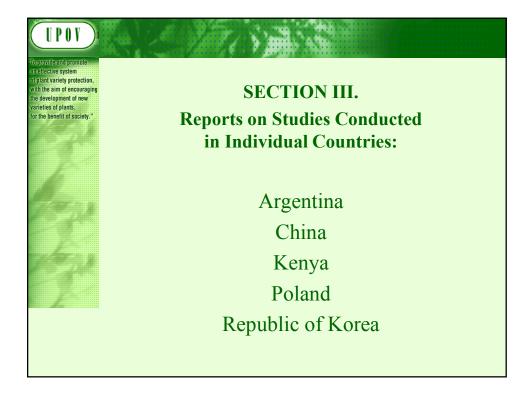
		espanol.		A	••••••	
vide and promote ictive system It variety protection, e aim of encouraging velopment of new es of plants,		TW	'P Ve	nues		
benefit of sor	TWA	TWC	TWF	тwo	TWV	BMT
1994	Spain	Israel	New Zealand	Australia	UK	France
1995	Germany	Poland	UK	N e the rlands	Netherlands	Netherland
1996	Greece	Germany	Israel	Israel	Czech Rep.	
1997	Uruguay	Hungary	Netherlands	Denmark	Spain	United Kingd
1998	France	Belgium	Australia	New Zealand	Poland	USA
1999	Canada	Finland	Slovakia	Czech Rep.	Germany	
2000	Sweden	Ukraine	Hungary	Hungary	France	France
2001	M exico	Czech Rep.	Spain	Japan	Italy	Germany
2002	Brazil	Mexico	Argentina	Ecuador	Japan	
2003	Japan	Denmark	Canada	Canada	Netherlands	Japan
2004	Poland	Japan China (workshop)	Germany	Germany	Rep. of Korea	
2005	New Zealand	Canada	Japan	Rep. of Korea	Slovakia	USA
2006	China	Kenya	Brazil	Brazil	Mexico	Rep. of Kore

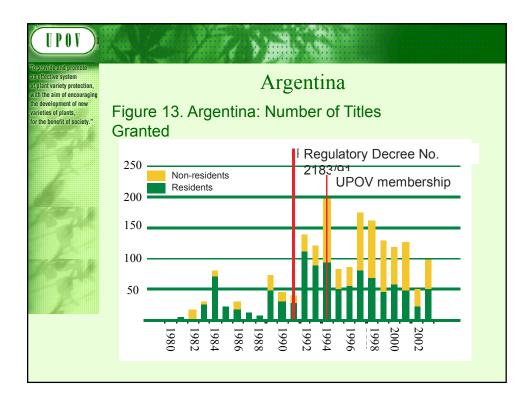


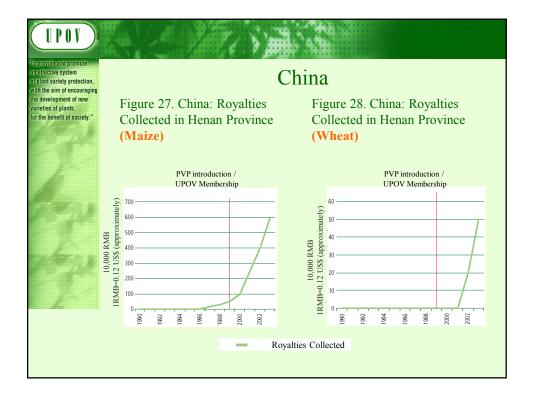


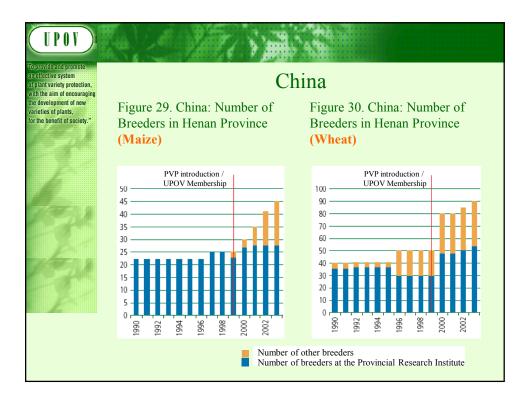


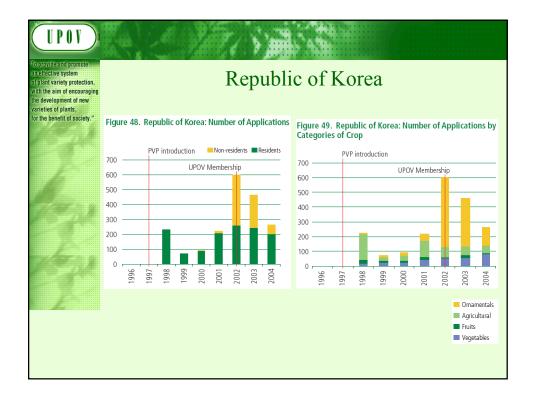






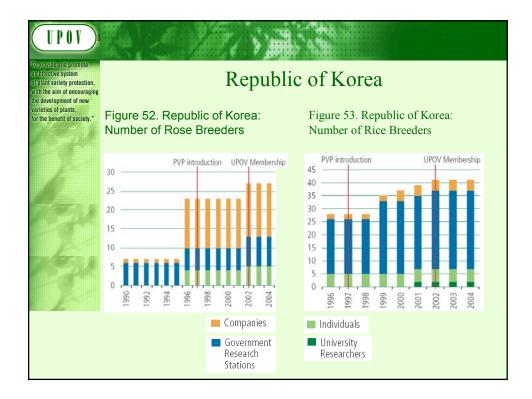


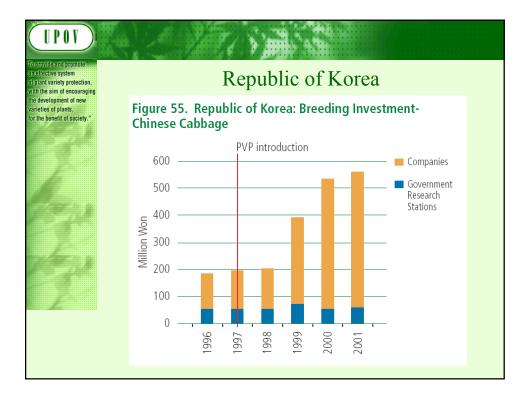


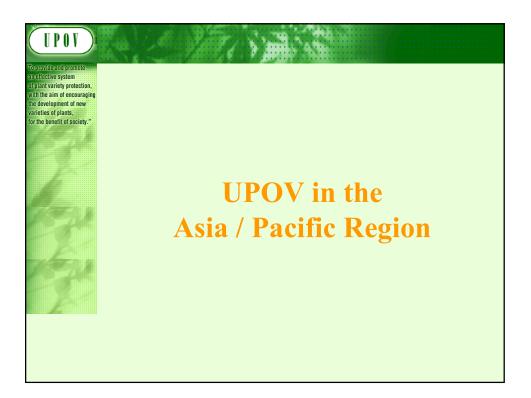


de and promote dive system variety protection, aim of encouraging Jopment of new s of plants, menetit of society,"		Republic of I	Korea
ox 27			
Root yield and red ginseng	proportion of new	v, protected ginseng varieties	NV and
Varieties	Root yield (ton/ha)	Red ginseng percentage (%)	Stand M
Varieties Chunpoong	Root yield (ton/ha) 6.39	Red ginseng percentage (%) 38.00	A ANA
Chunpoong	6.39	38.00	ANK
Chunpoong Yunpoong	6.39 7.35	38.00 20.60	ANK
Chunpoong Yunpoong Geumpoong	6.39 7.35 6.15	38.00 20.60 35.40	A
Chunpoong Yunpoong Geumpoong Gopoong	6.39 7.35 6.15 5.73 5.70	38.00 20.60 35.40 24.70	

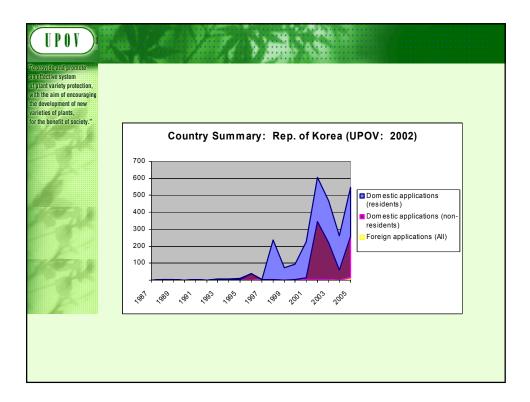


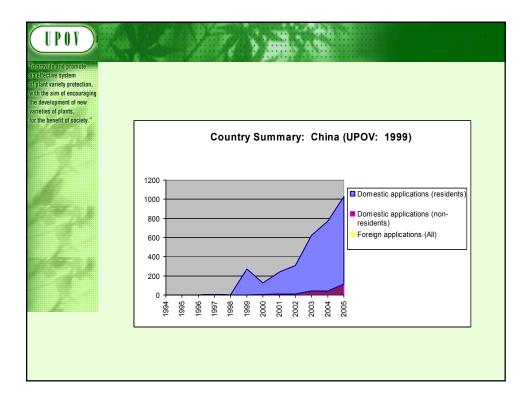


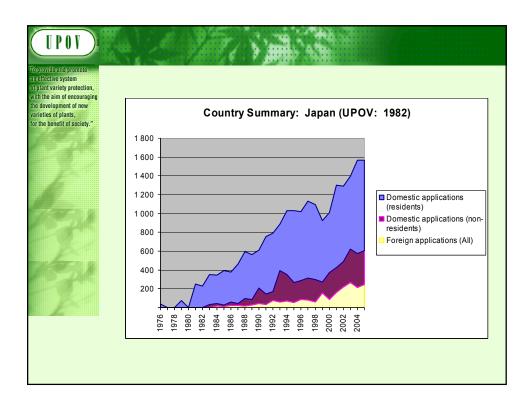


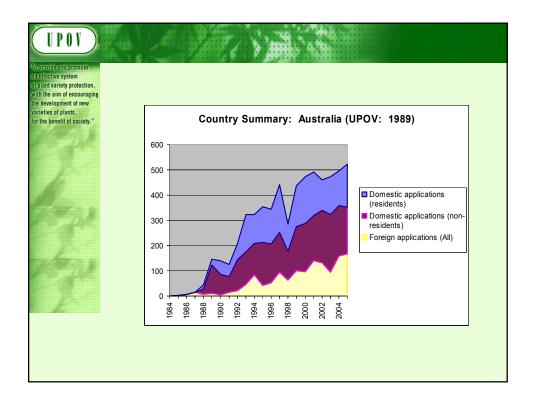


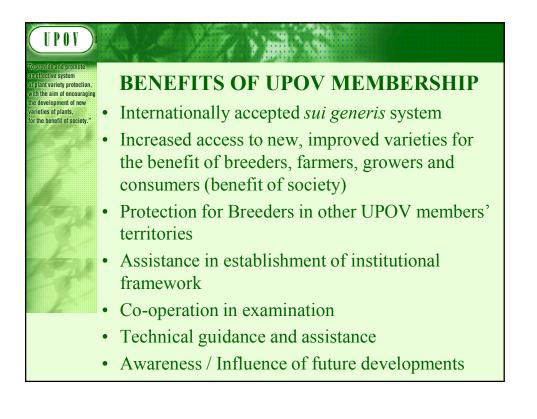
UPOV			
an effective system of plant variety protection, with the aim of encouraging the development of new varieties of plants,	Asia/F	egion Initiated the Procedure	
for the benefit of society."	Australia (1991 Act) China Japan (1991 Act) New Zealand Republic of Korea (1991 Act) Singapore (1991 Act)	India Malaysia Viet Nam	
	<u>Contacted the Office</u> Bangladesh Cambodia Fiji Indonesia Lao People's Democratic Republic Mongolia Myanmar	Nepal Pakistan Philippines Sri Lanka Thailand Tonga	

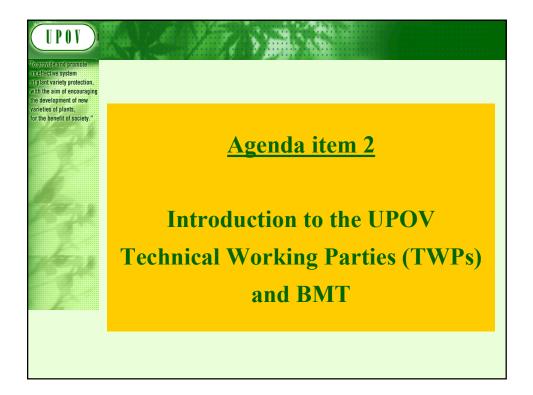


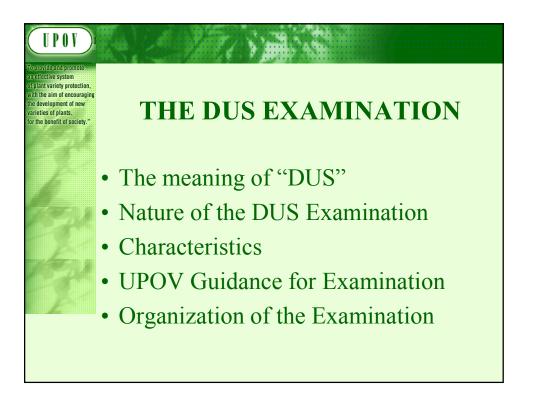


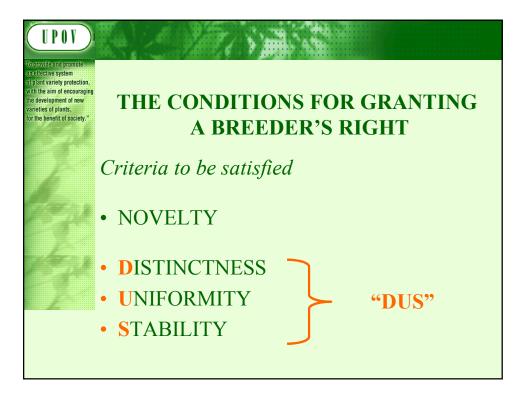


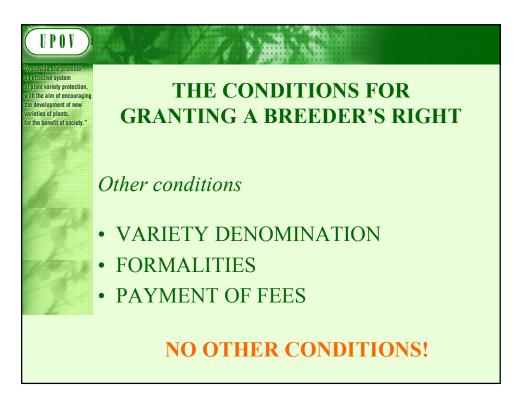


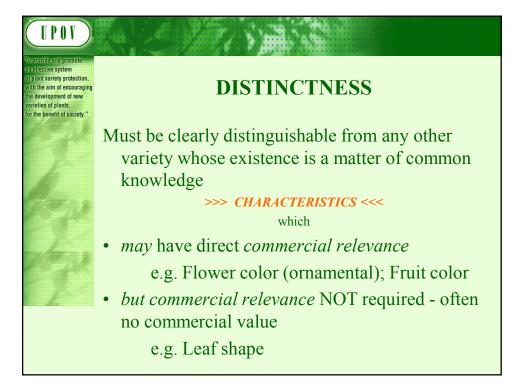








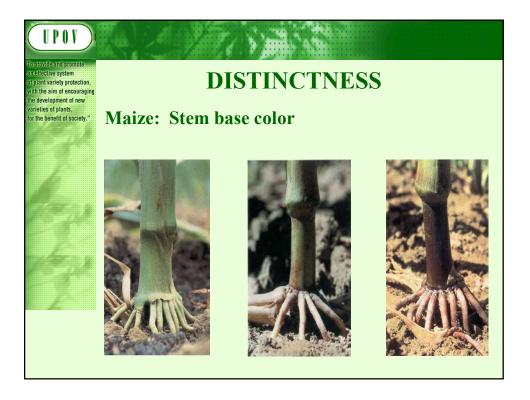


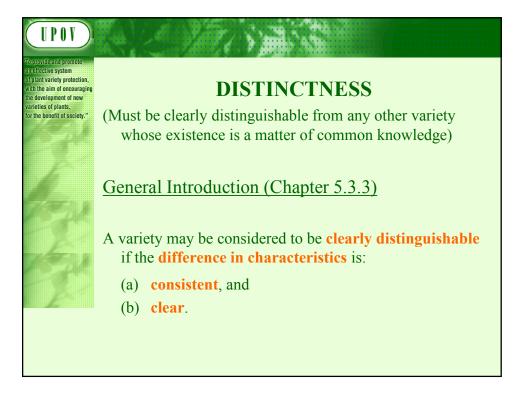


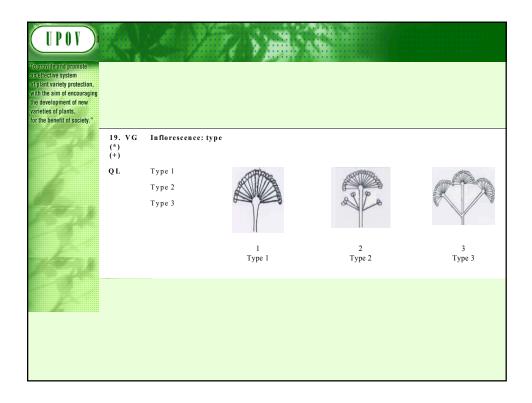
DISTINCTNESS
Apple: Fruit color

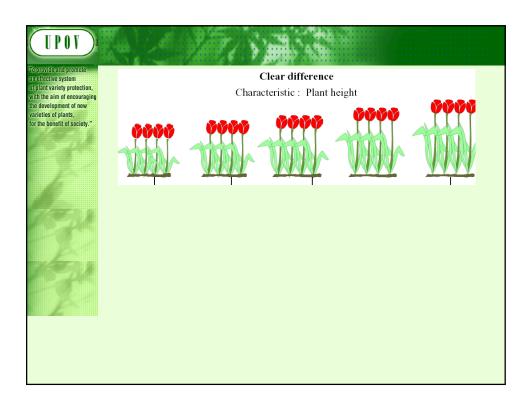


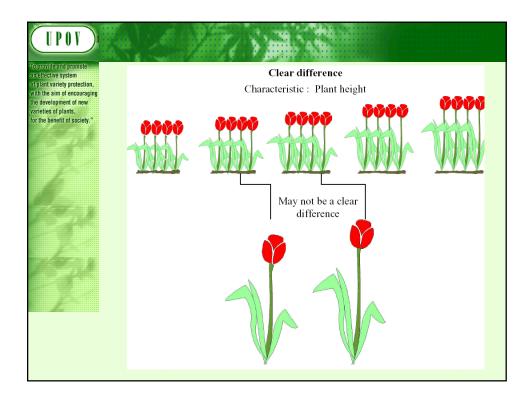


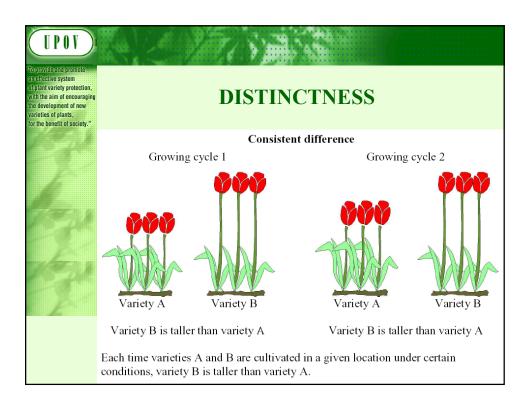


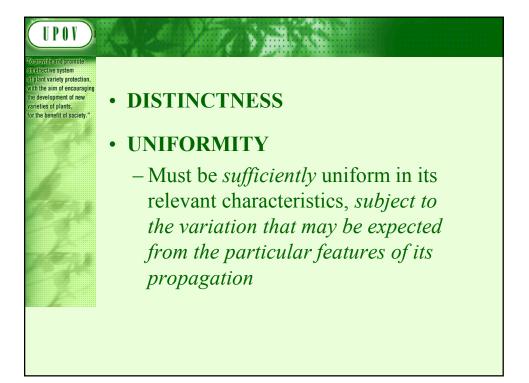


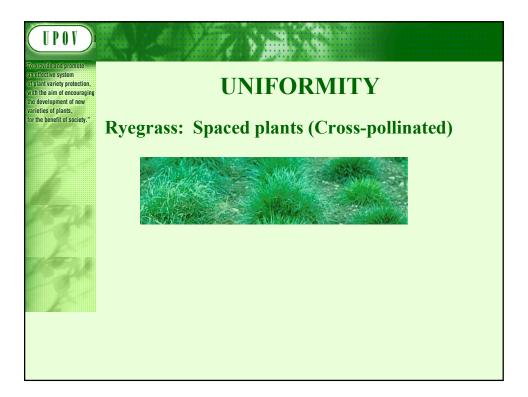


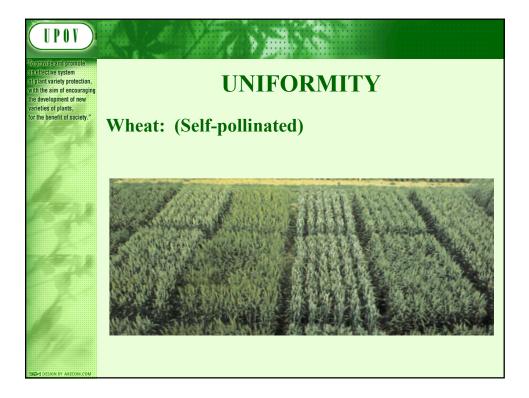


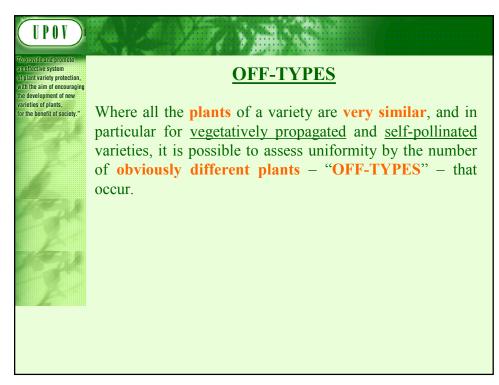


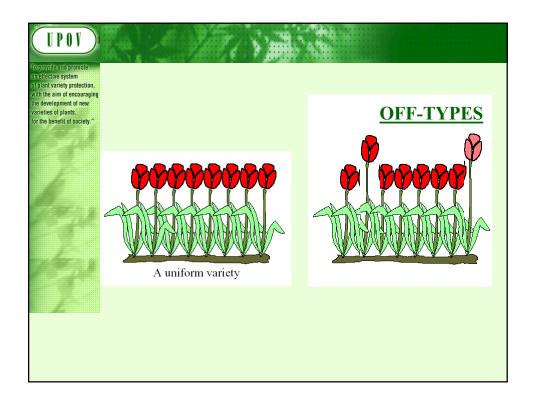


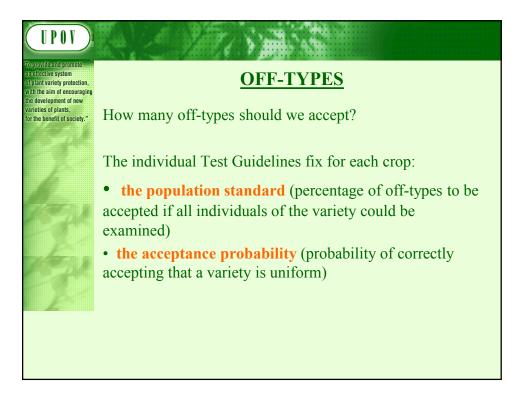




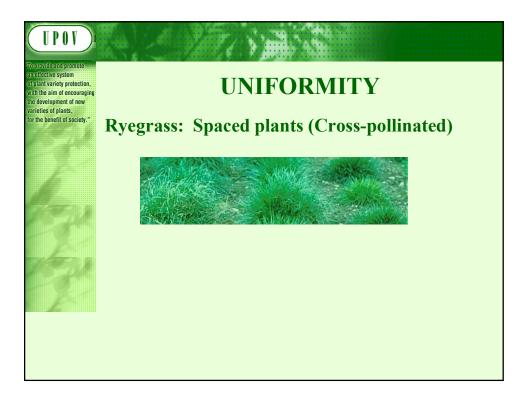








UPOV		1				
To provide and promote an effective system of plant variety protection, with the aim of encouraging the development of new	<u>Off-types</u> According to the size of the sample examined,					
varieties of plants, for the benefit of society."						
	statis	tical tables gi	ve the maximum number of off-			
	types	tolerated in t	that given samples			
/	е.	g.: populo	ation standard = $1\%$ and			
1992		ассери	tance probability = 95%			
		Sample size	Number of off-types allowed			
		1-5	0			
		6-35	1			
		36-82	2			
		<b>83-13</b> 7	3			
		138-198	4			
		199-262	5			



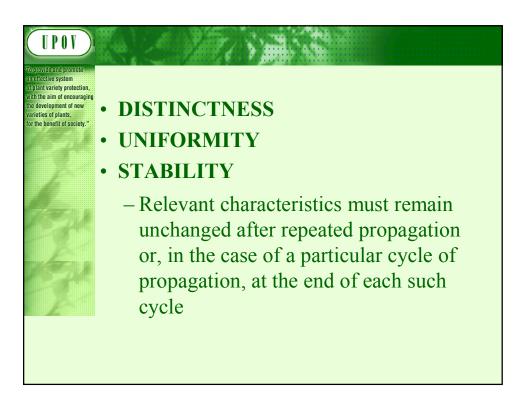


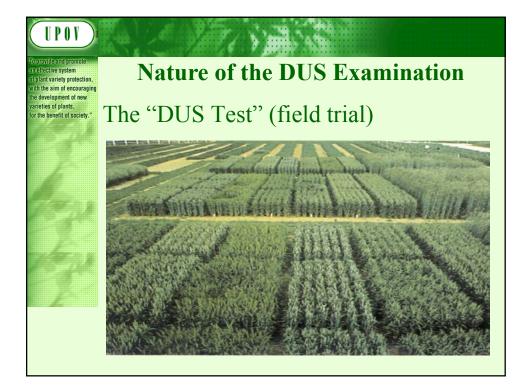
## **Relative Tolerance Limits**

Cross-pollinated varieties, including mainly crosspollinated and synthetic varieties, generally exhibit wider variations within the variety than vegetatively propagated or self-pollinated varieties and inbred lines of hybrid varieties, and it is more difficult to determine off-types.

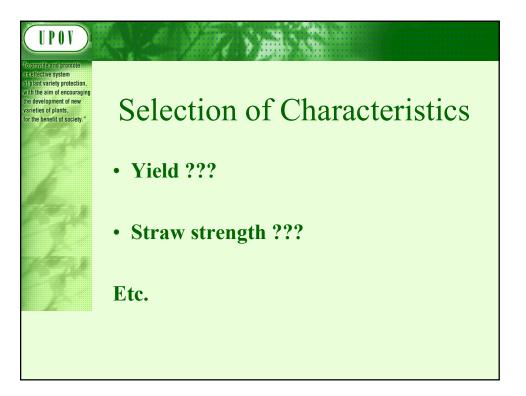
Therefore, **relative tolerance limits**, for the range of variation, are set by comparison with comparable varieties, or types, already known.

The candidate variety should not be significantly less uniform than the comparable varieties.



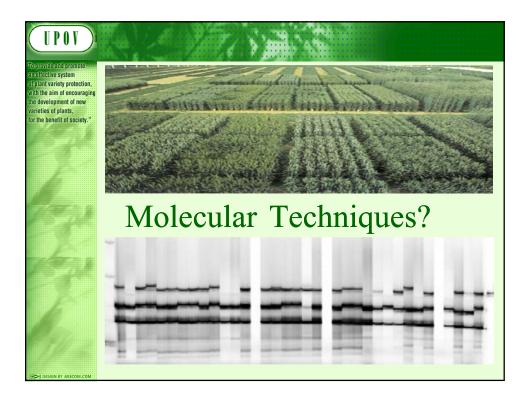


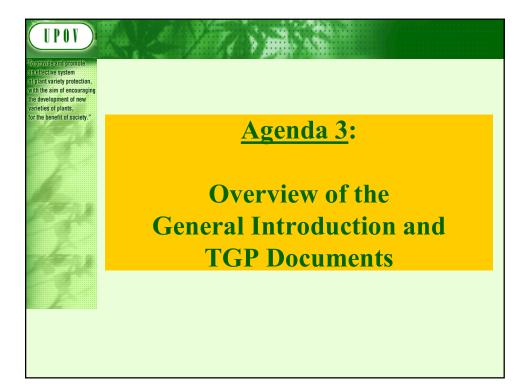
UPOV	
To provide and promote an effective system of plant variety protection, with the aim of encouraging	Selection of Characteristics
the development of new varieties of plants, for the benefit of society."	The basic requirements that a characteristic should fulfill before it is used for DUS testing or producing a variety description are that its expression (TG/1/3: Section 4.2.1):
1	(a) <b>results from a given genotype</b> or combination of genotypes;
792	(b) is sufficiently <b>consistent and repeatable</b> in a <b>particular environment</b> ;
- <u>(</u>	(c) exhibits sufficient variation between varieties to be able to establish distinctness;
	(d) is capable of <b>precise definition and recognition</b> ;
	(e) allows <b>uniformity requirements</b> to be fulfilled;
	(f) allows <b>stability requirements</b> to be fulfilled, meaning that it produces consistent and repeatable results after repeated propagation or, where appropriate, at the end of each cycle of propagation.

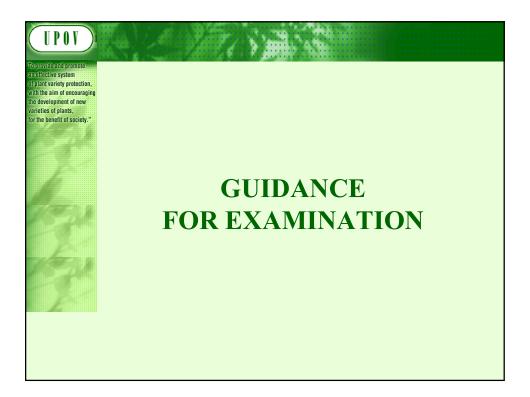


avide and promote factive system ant variety protection, the aim of encouraging levelopment of new	Selection of Characteristics						
ities of plants, ne benefit of society."	Criteria	Fruit: color	Ear: glaucosity	Yield	Straw strength		
	(a) results from a given genotype or combination of genotypes	Yes	Yes	Yes	Yes		
	(b) sufficiently consistent and repeatable in a particular environment	Yes	Yes	(No)	(No)		
5. D.	(c) exhibits sufficient variation between varieties to be able to establish distinctness	Yes	Yes	???	???		
	(d) is capable of precise definition and recognition	Yes	Yes	(No)	???		
	(e) allows uniformity requirements to be fulfilled	Yes	Yes	???	???		
	(f) allows stability requirements to be fulfilled	Yes	Yes	???	???		
	Commercial value	Yes	No	Yes	Yes		
	ACCEPATABILITY	Yes	Yes	No	No		

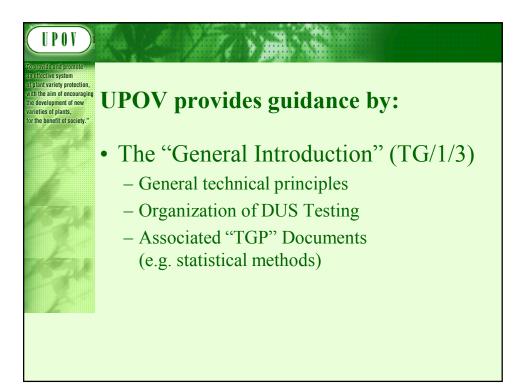
UPOV To provide and promote		
an effective system of plant variety protection, with the aim of encouraging the development of new varieties of plants,	Special Characterist	tics: Disease Resistance
for the benefit of society."	Criteria	Disease Resistance
	(a) results from a given genotype or combination of genotypes	*Knowledge of nature of genetic control of resistance is important
	(b) sufficiently consistent and repeatable in a particular environment	*Standardize conditions (greenhouse / laboratory) & methodology *Standardize inoculum *Ring-test
	(c) exhibits sufficient variation between varieties to be able to establish distinctness	*Susceptible / Resistant OR varying degrees of resistance?
141	(d) is capable of precise definition and recognition	*Define and recognize races and strains
14	(e) allows uniformity requirements to be fulfilled	see above
	(f) allows stability requirements to be fulfilled	see above
		Difficult and expensive



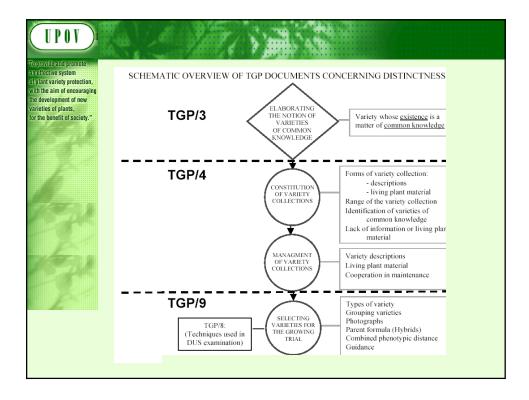


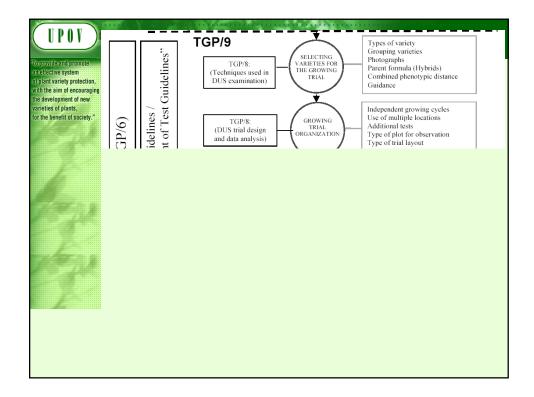


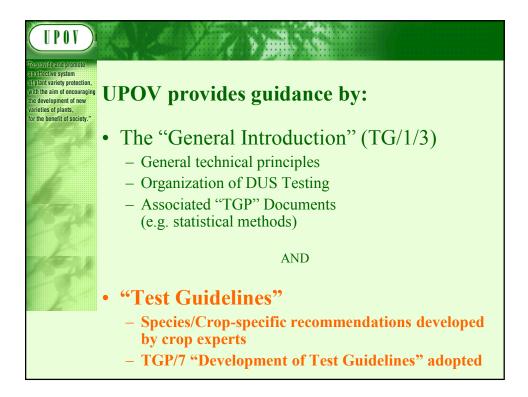
UPOV	
To provide and promote an effective system of plant variety protection, with the aim of encouraging	<b>Guidance for Examination</b>
the development of new varieties of plants,	facilitates:
for the benefit of society."	BEST PRACTICE (based on experience)
	=> good decisions
	=> good definition of the object of protection (strong protection)
- <i>e</i> -a n	=> efficiency in method of examination (learn from the best)
	HARMONIZATION
	=> efficiency
	<ul> <li>mutual acceptance of DUS reports</li> </ul>
	(minimize cost of examination for individual authorities)
	<ul> <li>mutual recognition of variety descriptions</li> </ul>
	(all parties speak the same "language")
	<ul> <li>simple and cheap system for applicants (minimize cost for breeders)</li> </ul>

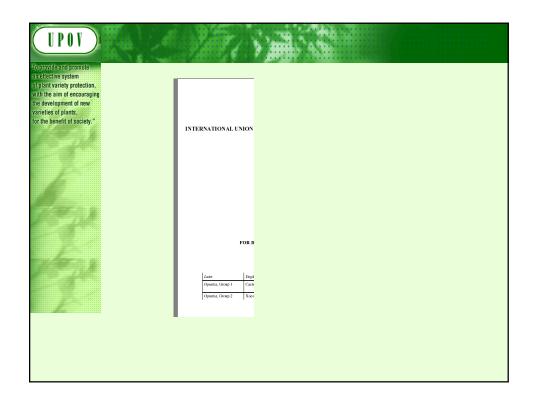


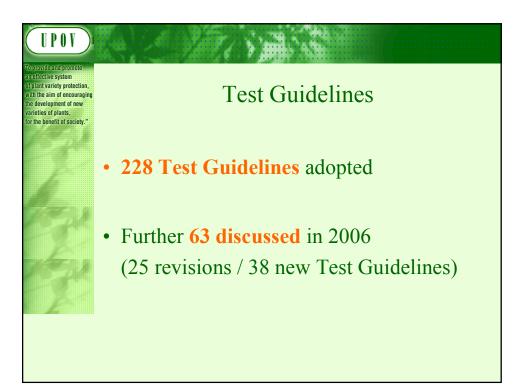
		STATIC STATES	
provide and promote effective system plant variety protection,		TG/1/3 General Introduction	
th the aim of encouraging development of new			
ieties of plants, the benefit of society."		"Associated" TGP Documents	
	Ref.	Title	
	<b>TG/00</b>	List of TGP Documents and Latest Issue Dates	
	TGP/1	General Introduction With Explanations	
	TGP/2	List of Test Guidelines Adopted by UPOV	
	TGP/3	Varieties of Common Knowledge	
	*TGP/4	Constitution and Management of Variety Collections	
	TGP/5	Experience and Cooperation in DUS testing	
	TGP/6	Arrangements for DUS testing	
	TGP/7	Development of Test Guidelines	
	TGP/8	Trial Design and Techniques Used in the Examination of DUS	
	*TGP/9	Examining Distinctness	
	*TGP/10	Examining Uniformity	
	TGP/11	Examining Stability	
	TGP/12	Special Characteristics	
	TGP/13	Guidance for New Types and Species	
	TGP/14	Glossary of Technical, Botanical and Statistical Terms Used in UPOV Documents	
	<b>TGP/15</b>	New Types of Characteristics	

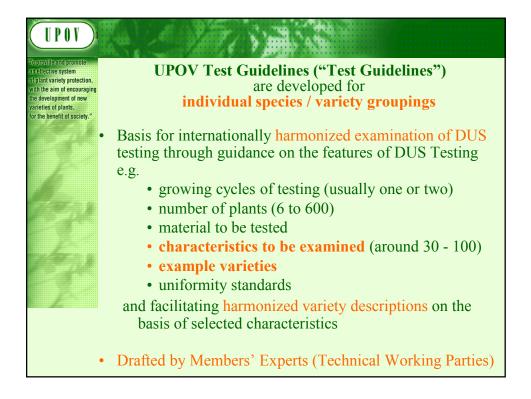


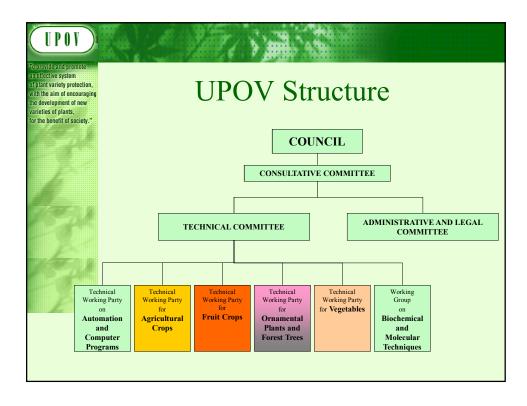


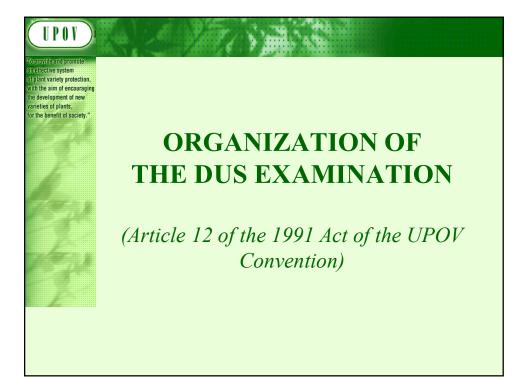


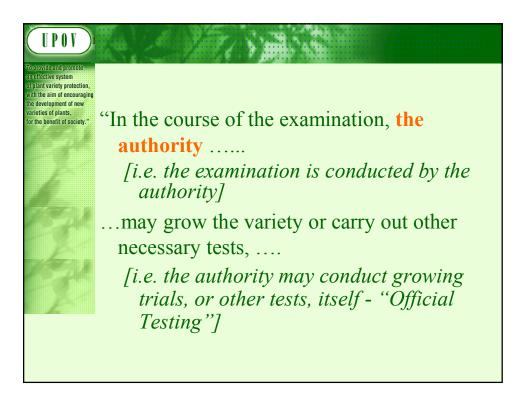


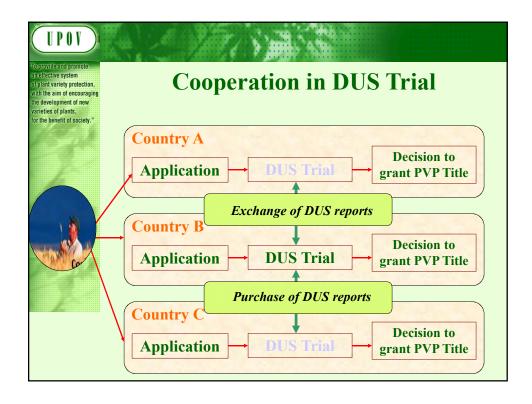




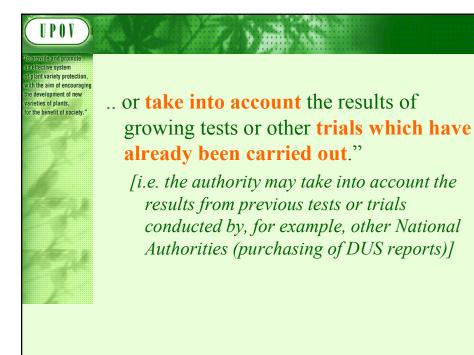


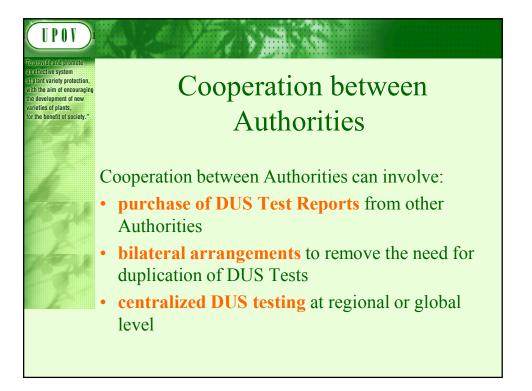


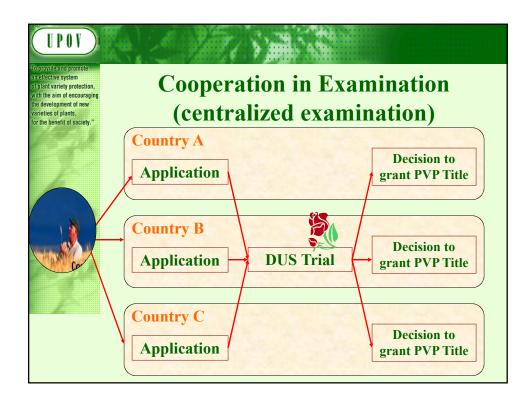


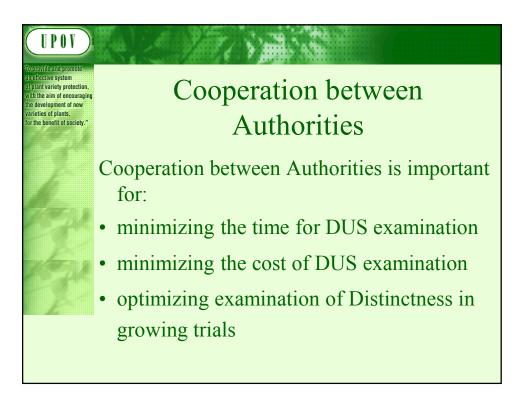


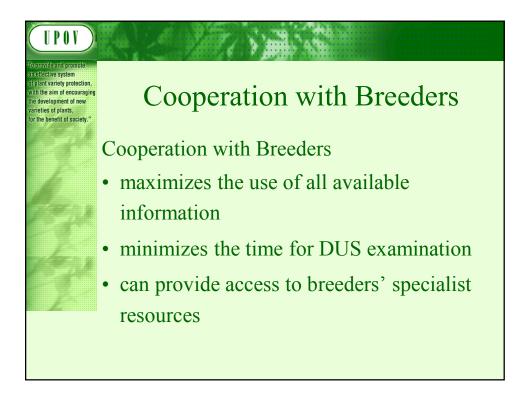


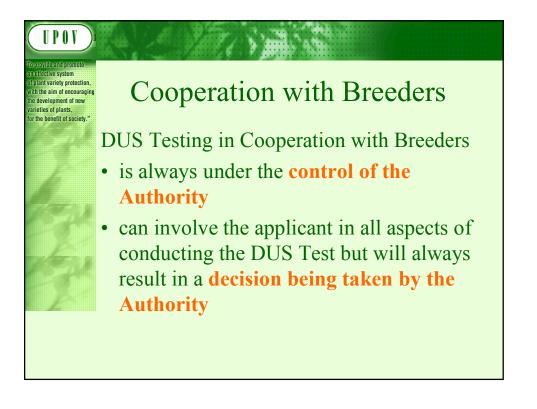


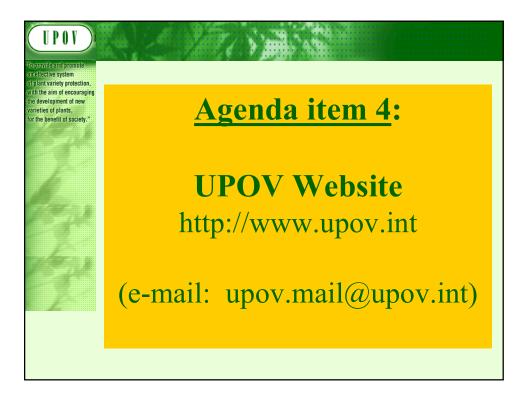




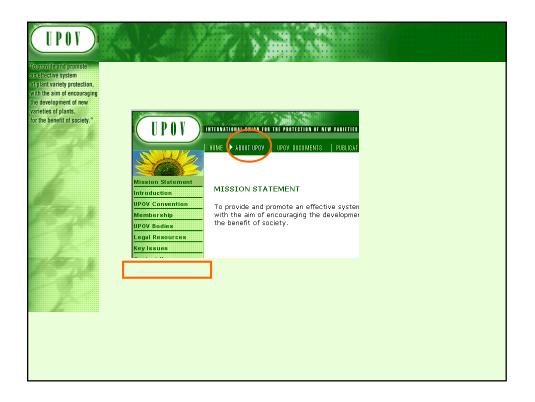






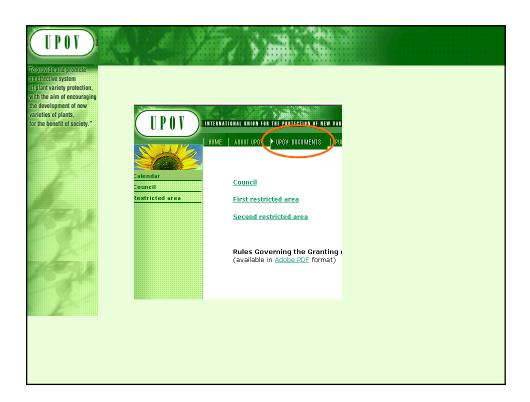


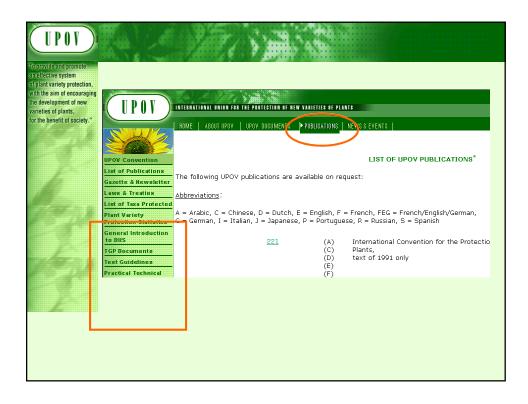


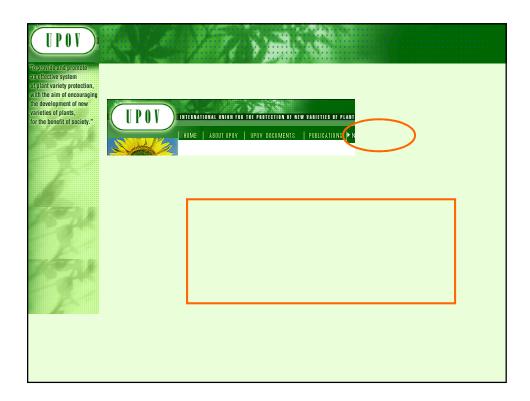




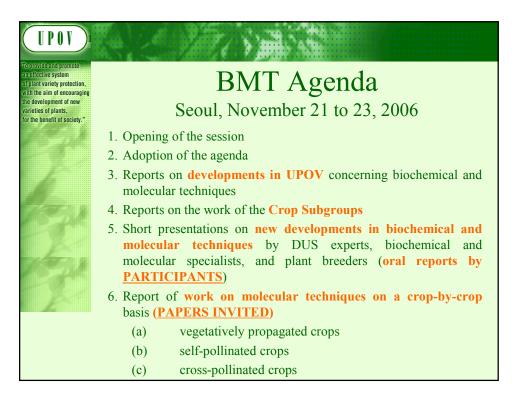
provide and promote	KEY ISSUES	10 A	 
effective system plant variety protection, h the aim of encouraging	NEW PUBLICATION	<b>UPOV Rep</b> (UPOV Pub	
development of new ieties of plants, the benefit of society."		<u>Executive S</u>	
	Breeder's exemption	Breeder's c Conventior	
	Notion of Breeder and Common Knowledge	The Notion ( <u>Adobe PDF</u>	
S.	Genetic Resources and Benefit-Sharing	Access to (Reply of L Executive ( (CBD)) (Adobe PDF	
		Access to (Reply of L Executive : (CBD))	

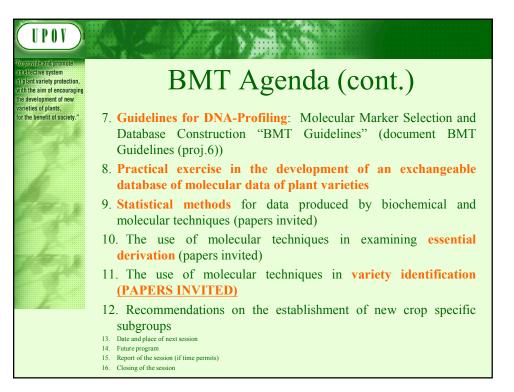


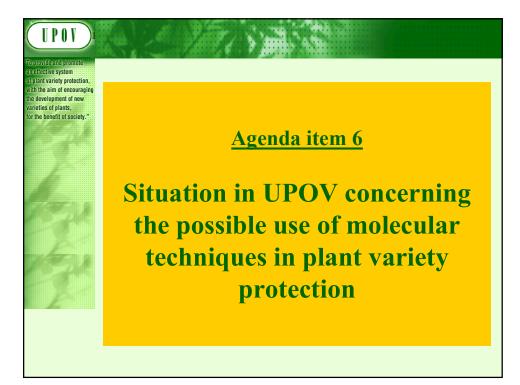


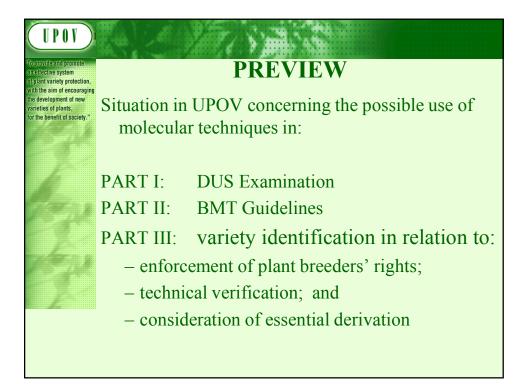


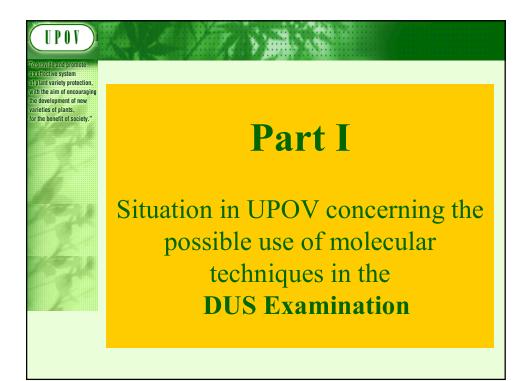


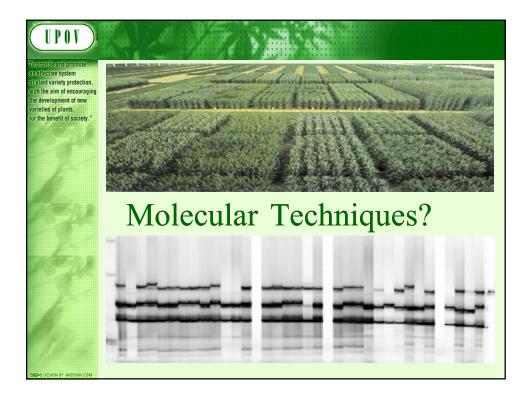


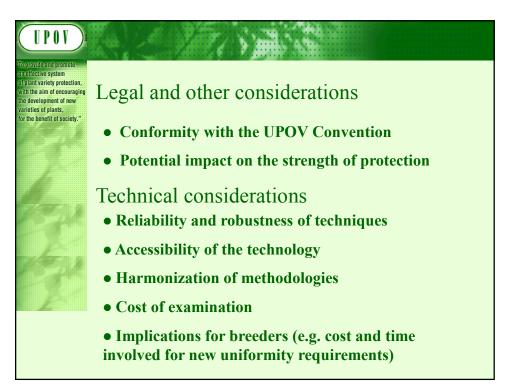


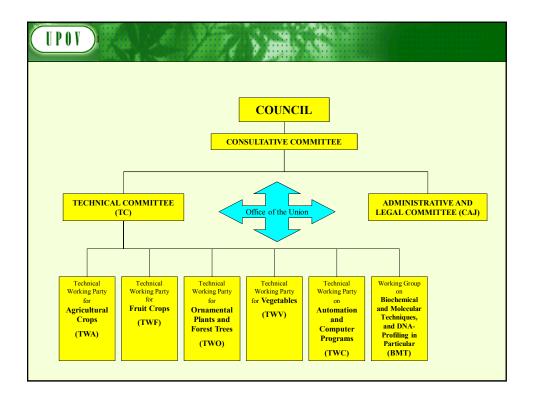


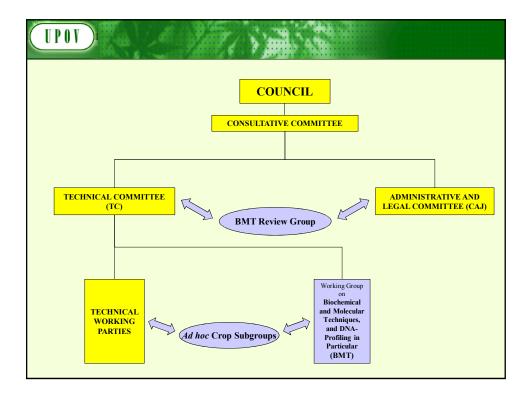


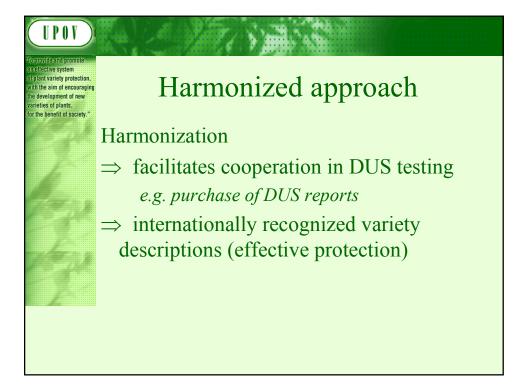


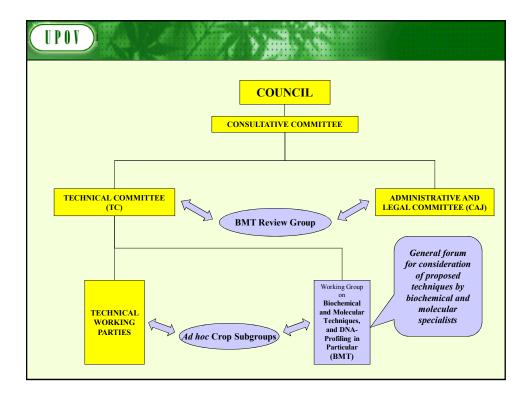


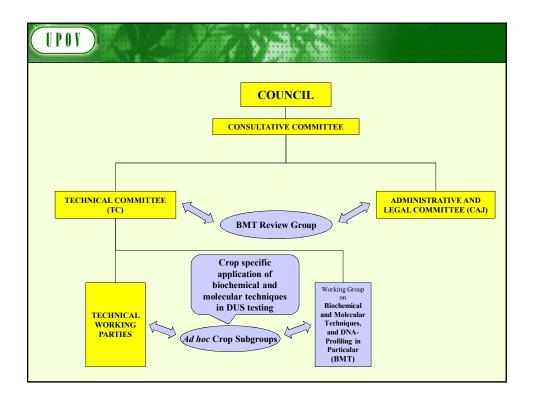


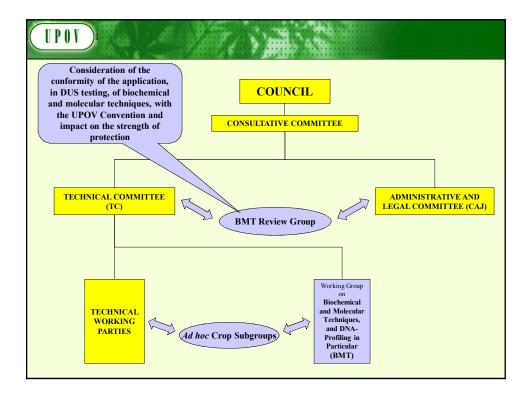


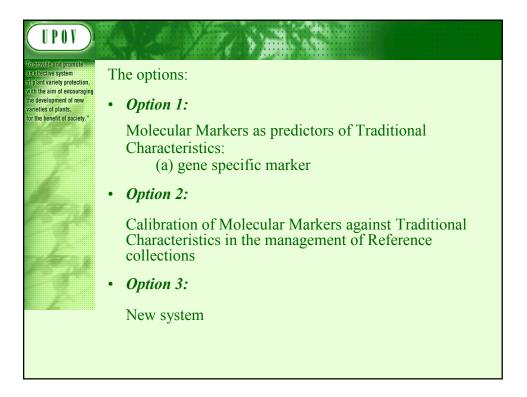


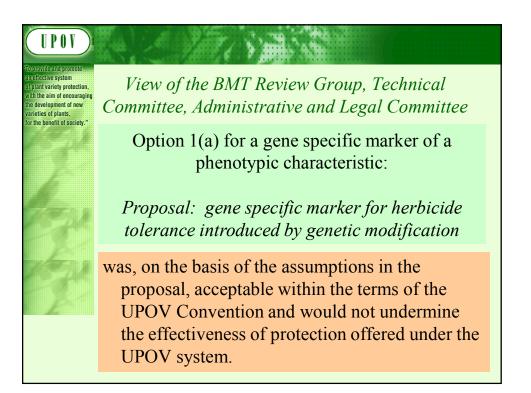


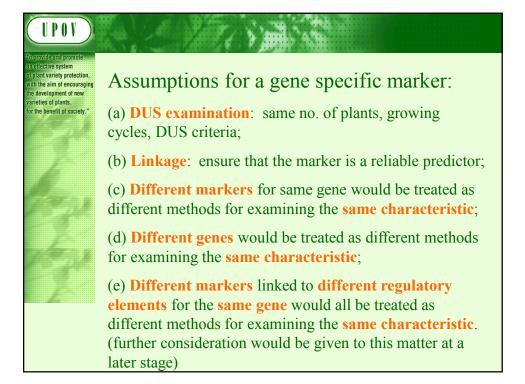


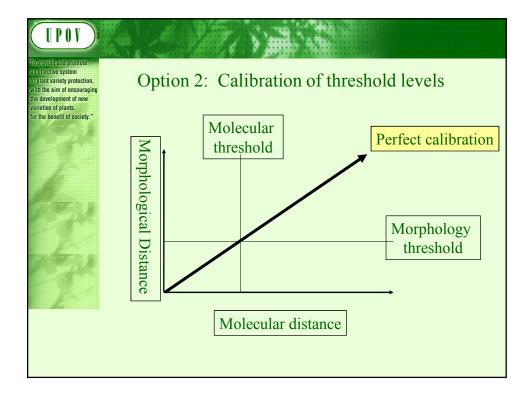


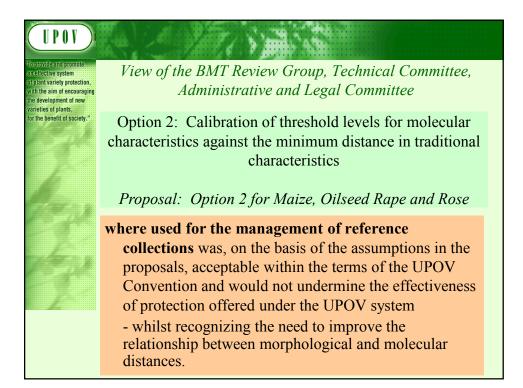


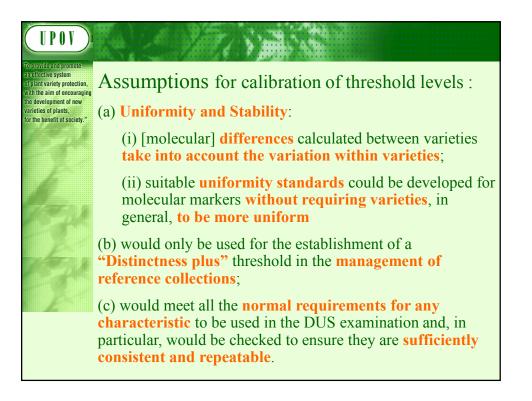


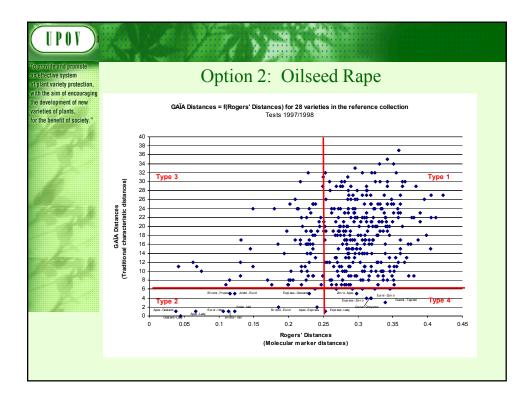


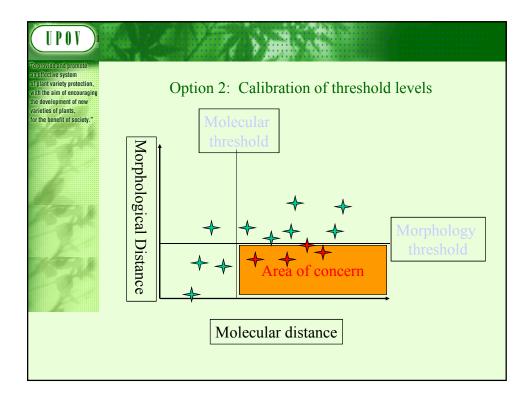


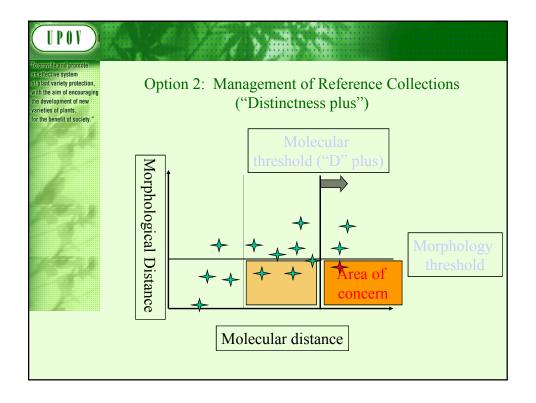


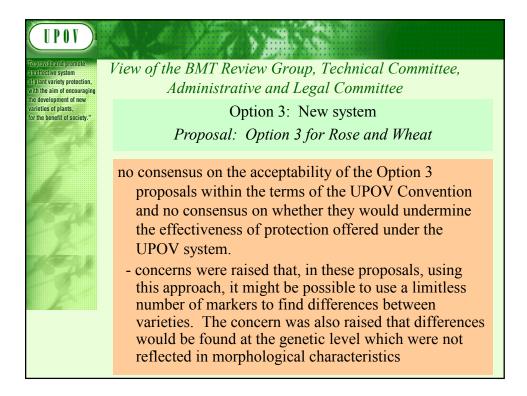


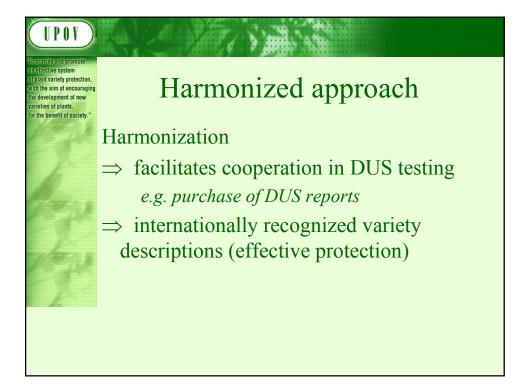


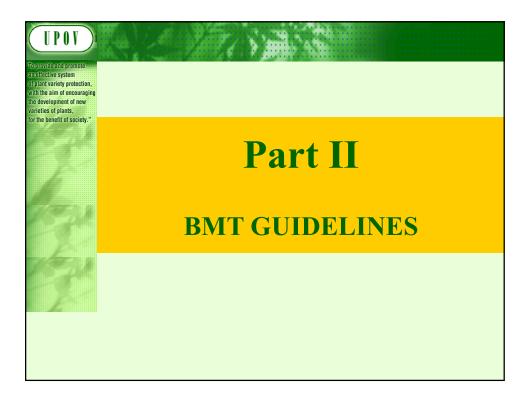


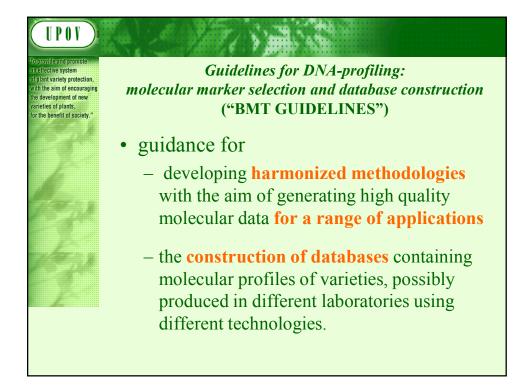


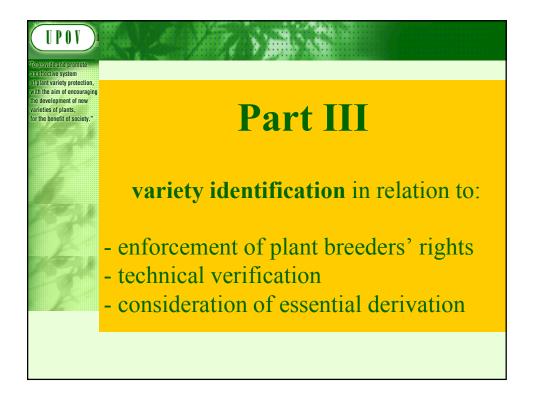








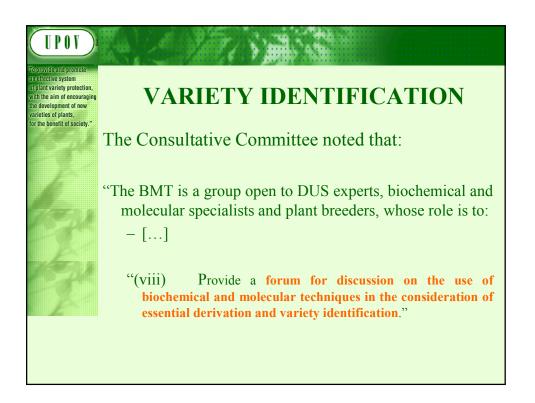


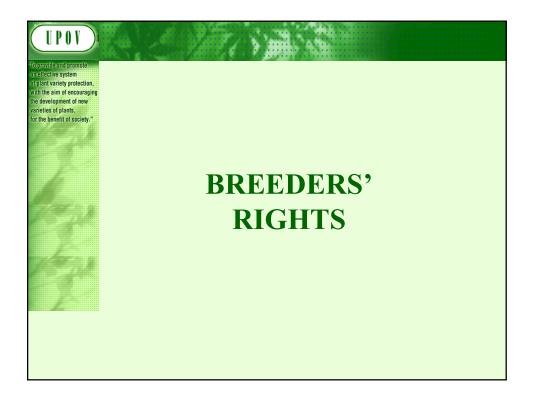


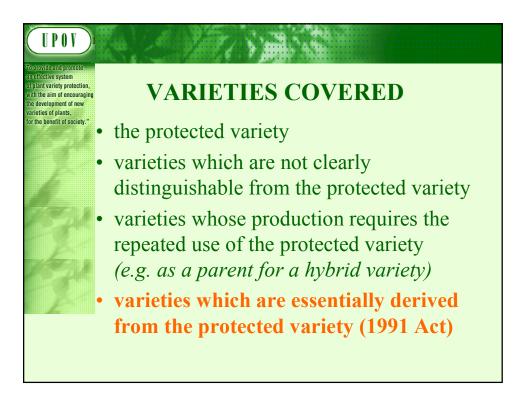


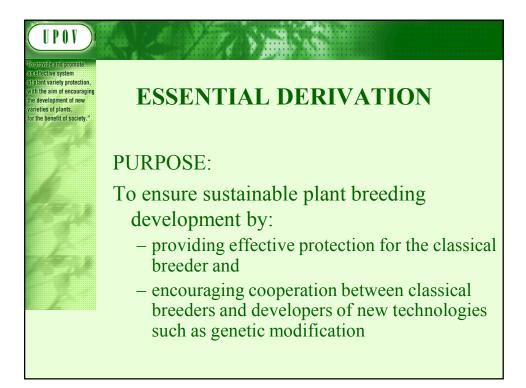
## VARIETY IDENTIFICATION

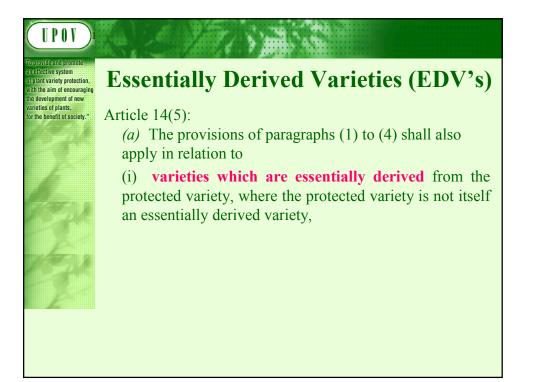
CAJ and TC agreed to invite the BMT Review Group to examine the possible use of molecular tools for variety identification in relation to the enforcement of plant breeders' rights, technical verification and the consideration of essential derivation.













## **Essentially Derived Varieties (EDV's)**

..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.

