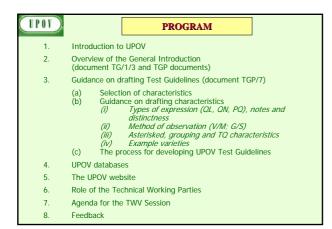
TECHNICAL WORKING PARTY FOR VEGETABLES
Forty-Fourth Session Veliko Tarnovo, Bulgaria, July 5 to 9, 2010
PREPARATORY WORKSHOP
July 4, 2010

UPOV

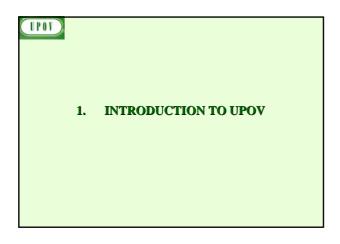
The International Convention for the Protection of New Varieties of Plants established in 1961

The International Union for the Protection of New Varieties of Plants

> Union internationale pour la protection des obtentions végétales







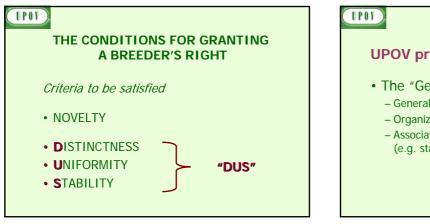
TLOL

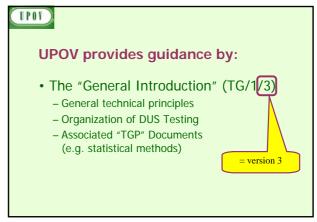
UPOV

2. OVERVIEW OF THE GENERAL INTRODUCTION

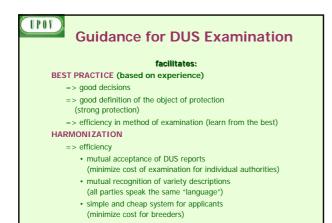
(DOCUMENT TG/1/3 AND TGP DOCUMENTS)

> GUIDANCE FOR DUS EXAMINATION



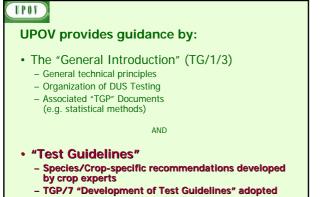


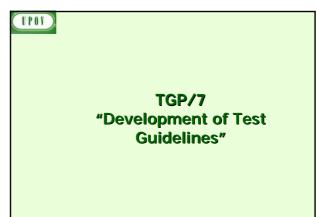


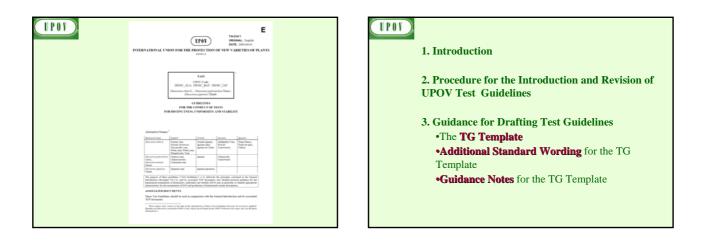


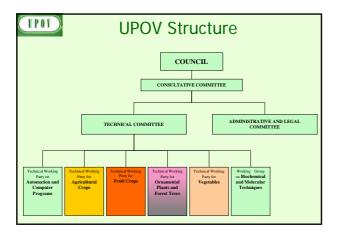


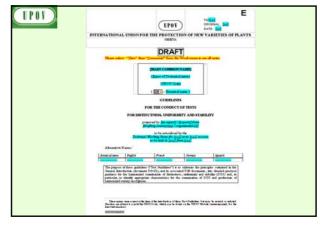
3. GUIDANCE ON DRAFTING TEST GUIDELINES

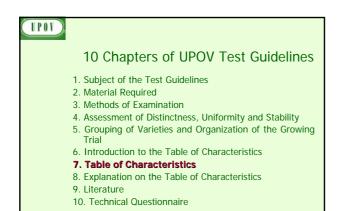












Selection of Characteristics The basic requirements that a characteristic should fulfill before it is used for DUS testing or producing a variety description are that its expression (TG/1/3: Section 4.2.1): (a) results from a given genotype or combination of genotypes; (b) is sufficiently consistent and repeatable in a particular environment; (c) exhibits sufficient variation between varieties to be able to establish distinctness; (d) is capable of precise definition and recognition; (e) allows uniformity requirements to be fulfilled; (f) allows stability requirements 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.

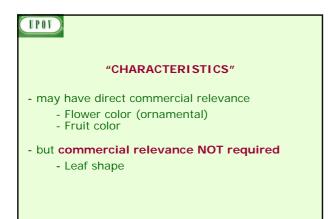
(a) Selection of characteristics



Selection of Characteristics

- Yield ???
- Straw strength ???

Etc.

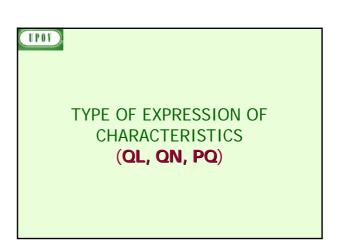


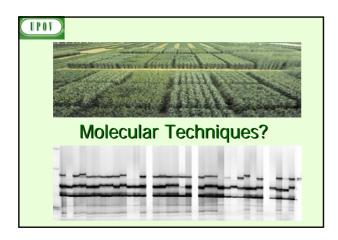
Criteria	Fruit: color	Leaf: shape	Yiel
 (a) results from a given genotype or combination of genotypes 	Yes	Yes	
(b) sufficiently consistent and repeatable in a particular environment	Yes	Yes	
(c) exhibits sufficient variation between varieties to be able to establish distinctness	Yes	Yes	
(d) is capable of precise definition and recognition	Yes	Yes	
(e) allows uniformity requirements to be fulfilled	Yes	Yes	
(f) allows stability requirements to be fulfilled	Yes	Yes	
Commercial value	Yes	No	

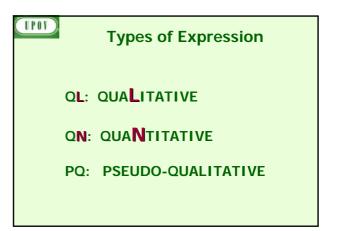
UPOV	Selection of Character	eristic	S	
	Criteria	Fruit: color	Leaf: shape	Yield
	(a) results from a given genotype or combination of genotypes	Yes	Yes	Yes
	(b) sufficiently consistent and repeatable in a particular environment	Yes	Yes	(No)
	(c) exhibits sufficient variation between varieties to be able 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
	ACCEPTABILITY	Yes	Yes	No

3. TEST GUIDELINES (b) Guidance on drafting characteristics (i) Types of expression (QL, QN, PQ), notes and distinctness

	Special Characte	ristics: Disease Resistance
Γ	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?
	(d) is capable of precise definition and recognition	*Define and recognize races and strains
	(e) allows uniformity requirements to be fulfilled	see above
	(f) allows stability requirements to be fulfilled	see above
		Difficult and expensive

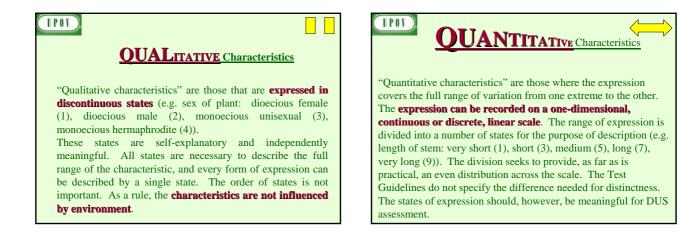


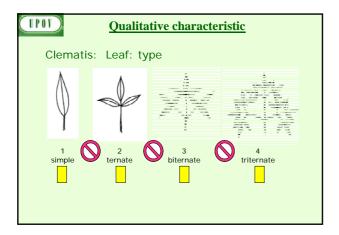


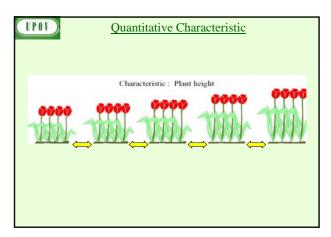


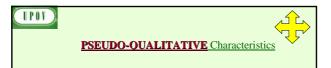
7.	7. Table of Characteristics/Tableau des caractères/Merkmalstabelle/Tabla de caracteres					
Char. No.	English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note
1.	Plant: growth habit	Plante : port	Pflanze: Wuchsform	Planta: porte		
ĕ						
(QN)	upright	dzessé	aufrecht	erecto	Imppink	1
\sim	semi-upright	semi dressé	halbaufrecht	semierecto	D0158-1	2
	spreading	étalé	breitwüchsig	abierto	Summern 03	3
	semi-trailing	semi-étalé	halbhängend	semirrastrero	Impsaf	4
	trailing	coureux	hingend	rastreco	Organza	5
2.	Plant: height	Plante : hauteur	Pflanze: Höhe	Planta: altura		
(*)						
QN	short	basse	niedrig	baja	Yateye	3
	medium	moyenne	mittel	media	D0158-1	5
	tall	haute	hoch	alta	Imppink	7

MON-Qualitative characteristic Anthocyanin coloration: absent / present								
	Variety A	Variety B	Variety C					
Environment A								
Environment B								

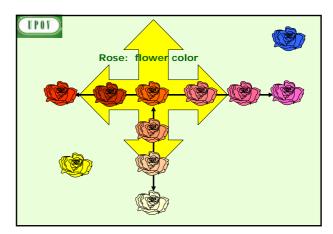


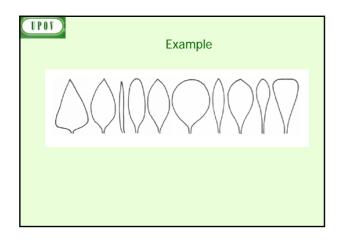




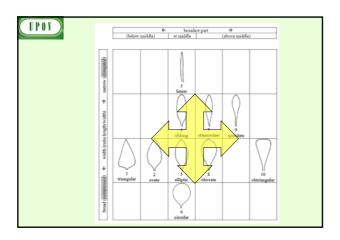


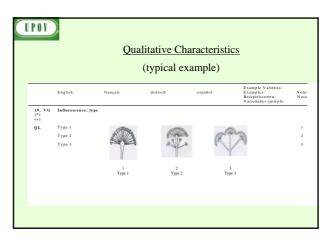
In the case of "pseudo-qualitative characteristics," the **range of expression is at least partly continuous, but varies in more than one dimension** (e.g. shape: ovate (1), elliptic (2), circular (3), obovate (4)) and cannot be adequately described by just defining two ends of a linear range. In a similar way to qualitative (discontinuous) characteristics – hence the term "pseudo-qualitative" – each individual state of expression needs to be identified to adequately describe the range of the characteristic.





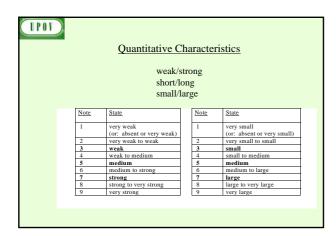
STATES / NOTES for QL, QN ,PQ

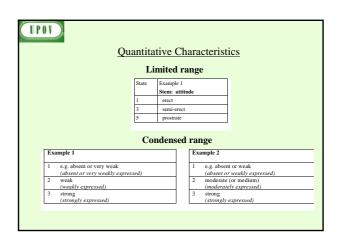




	POV	Q	-	Characterist al cases)	ics	
Char No.	Method of Freemination High and the second	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemple	Note/ Nota
1. (*) QL	MS Plant: ploidy C diploid tetraploid					2
3. (*) QL	VG Stem: anthocyas coloration absent present	nin			Gumpoong Chunpoong, Gopoong	1

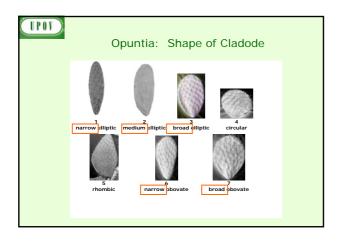
	Quantitative Characteristics							
1		1	1	,				
State	Example 1	Example 2	Example 3	Example 4				
	Size relative to:	Angle:	Position:	Length in relation to:				
1	much smaller	very acute	at base	equal				
3	moderately smaller	moderately acute	one quarter from base	slightly shorter				
5	same size	right angle	in middle	moderately shorter				
7	moderately larger	moderately obtuse	one quarter from apex end	much shorter				
9	much larger	very obtuse	at apex	very much shorter				

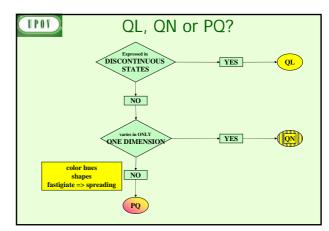


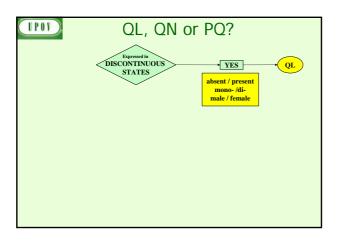


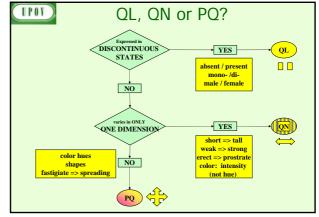
TROT	Quantitative Ch	aracteristics	
Standard Range Version 1 1 very weak (or: absent or very weak) 3 weak 5 medium 7 strong 9 very strong	Standard Range Version 2 1 very weak (or: absent or very weak) 3 weak 5 medium 7 strong -	Standard Range Version 3 - 3 weak 5 medium 7 strong 9 very strong	Standard Range Version 4 - - 3 weak 5 medium 7 strong -

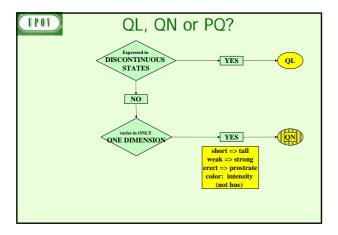
			-	tative Characteristics cal examples)	
24. (+)	Flower: color of the center	Fleur: couleur du centre	Farbe der Mitte	Flor: color del centro	
PQ	green	vert	grün	verde	1
	yellow:	jaune	gelb	amanllo	2
	orange	orange	orange	naranja	3
	pink	rose	rosa	rosa	4
	red	rouge	rot	10j0	5
	purple	pourpre	purpum	púrpura	6





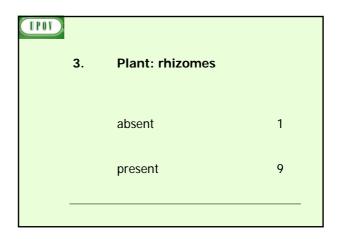






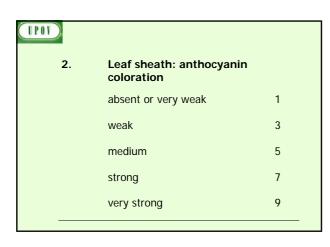


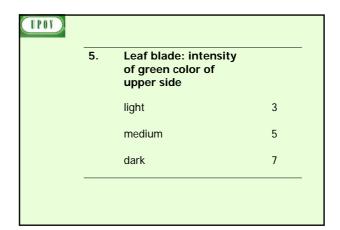
What type of Expression?	
QL : Qualitative	
QN: Quantitative	
PQ: Pseudo-qualitative	

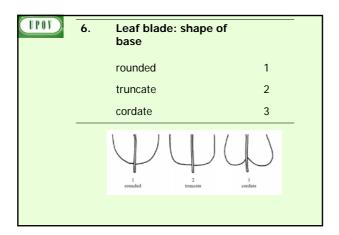


		Note
		Nota
1.	Plant: ploidy	
	diploid	2
	tetraploid	4
	hexaploid	6
	octoploid	8

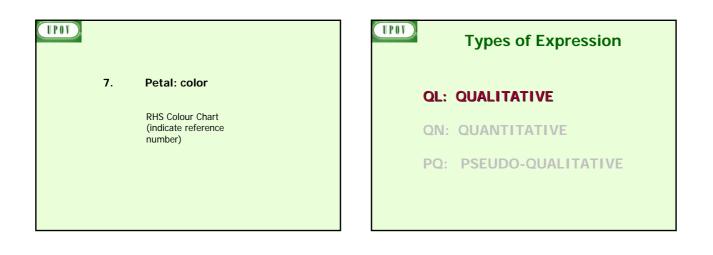
4.	Petal: color	
	white	1
	yellow	2
	orange	3
	red	4
	pink	5
	purple	6

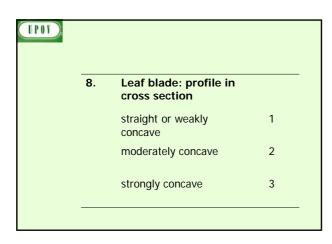






NOTES and DISTINCTNESS according to	
TYPE OF EXPRESSION (QL, PQ, QN)	



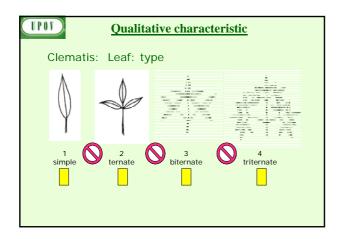


L POY

OUALITATIVE Characteristics

"Qualitative characteristics" are those that are **expressed in discontinuous states** (e.g. sex of plant: dioecious female (1), dioecious male (2), monoecious unisexual (3), monoecious hermaphrodite (4)). These states are self-explanatory and independently

meaningful. All states are necessary to describe the full range of the characteristic, and every form of expression can be described by a single state. The order of states is not important. As a rule, the **characteristics are not influenced by environment**.



LPOV)

PSEUDO-OUALITATIVE Characteristics

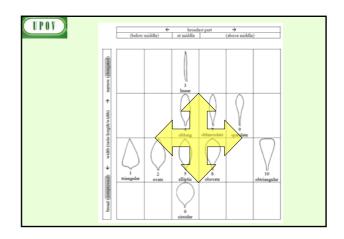
In the case of "pseudo-qualitative characteristics," the **range of expression is at least partly continuous, but varies in more than one dimension** (e.g. shape: ovate (1), elliptic (2), circular (3), obovate (4)) and cannot be adequately described by just defining two ends of a linear range. In a similar way to qualitative (discontinuous) characteristics – hence the term "pseudo-qualitative" – each individual state of expression needs to be identified to adequately describe the range of the characteristic.

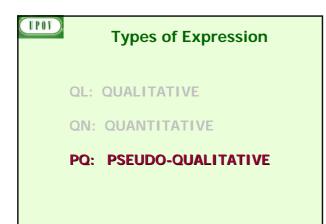
UPOT

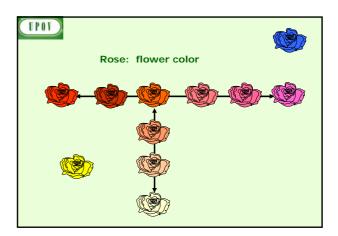
Qualitative Characteristics: distinctness

In qualitative characteristics, the difference between two varieties may be considered clear if one or more characteristics have expressions that fall into **two different states in the Test Guidelines**. Varieties should not be considered distinct for a qualitative characteristic if they have the same state of expression.

(e.g. sex of plant: dioecious female (1), dioecious male (2), monoecious unisexual (3), monoecious hermaphrodite (4)).







LPOY

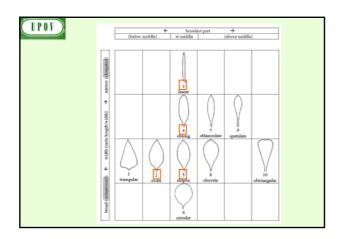
Pseudo-Qualitative Characteristics: distinctness

A different state in the Test Guidelines may not be sufficient to establish distinctness (see also section 5.5.2.3). However, in certain circumstances, varieties described by the same state of expression may be clearly distinguishable.

TLOL

OUANTITATIVE Characteristics

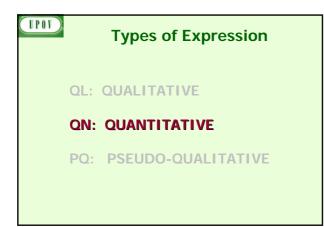
"Quantitative characteristics" are those where the expression covers the full range of variation from one extreme to the other. The **expression can be recorded on a one-dimensional, continuous or discrete, linear scale**. The range of expression is divided into a number of states for the purpose of description (e.g. length of stem: very short (1), short (3), medium (5), long (7), very long (9)). The division seeks to provide, as far as is practical, an even distribution across the scale. The Test Guidelines do not specify the difference needed for distinctness. The states of expression should, however, be meaningful for DUS

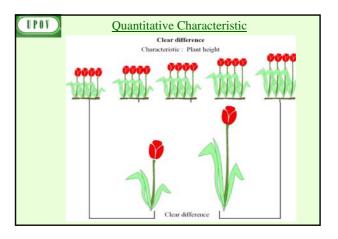


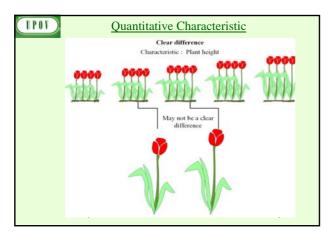


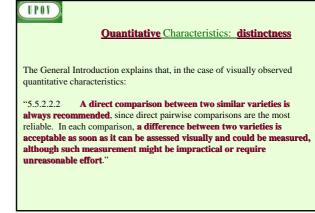
Quantitative Characteristics: distinctness

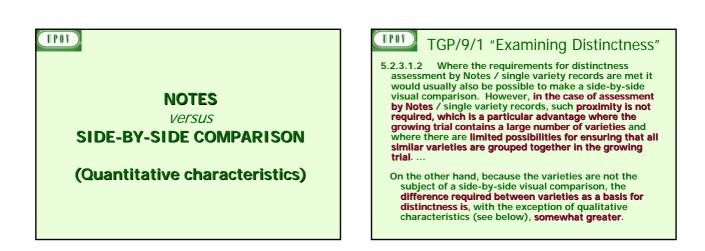
Quantitative characteristics are considered for distinctness according to the method of observation and the features of propagation of the variety concerned...

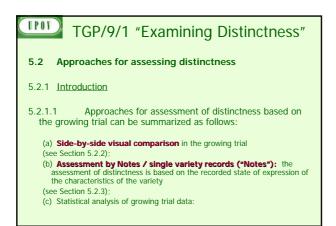


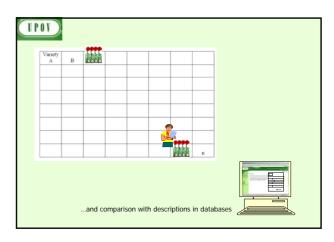


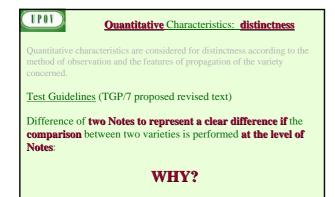


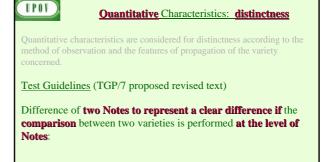


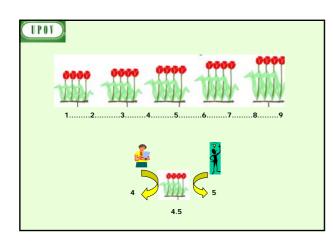




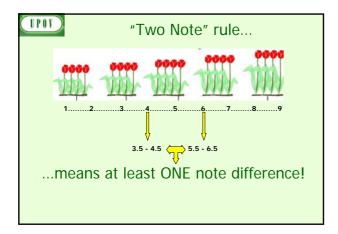


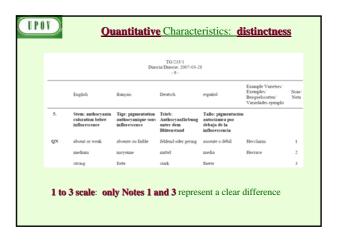






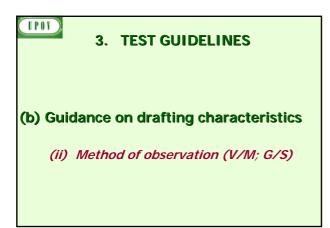
		Da	TG/233/1 ascia Diascie, 2007-03-2 - 9 -	8		
	English	français	Deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	No No
6. (*)	(a) Leaf blade: length	Limbe: longueur	Blattspreite: Länge	Limbo: longitud		
QN	short	courte	kurz	cono	Coditer, Strawberry Sundae	3
	medium	moyeane	mittel	medio	Codiusre	5
	long	longue	lang	largo	Balwhislapi, Balwhiswhit	7





Process levels	other	r than Notes.
BAR SHITT AND A SHARE SHITT AND		
Transformation of Observations and		
Measurements into Notes for Distinctness	and	
for Variety Descriptions		
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TGP/9/1 "Examining Distinctness"							
	Туре с	f expression of charact	eristic				
Method of propagation of the variety	Q L (QUAL itatative)	PQ (PSEUDO qualitative)	QN (QUANT itative)				
Vegetatively propagated, self-pollinated	Notes (VG)	Notes (VG) Side-by-side (VG)	Notes (VG/MG/MS) Side-by-side (VG) Statistics (MG/MS)				
Cross-pollinated	Notes (VG) Statistics (VS*)	Notes (VG) Side-by-side (VG) Statistics (VS*)	Statistics ([MG]/MS/VS) Side-by-side (VG) Notes (VG/MG/MS,				
Hybrids	Notes (VG) Statistics (VS*)	Notes (VG) Side-by-side (VG) Statistics (VS*)	**				



			1
	V= Visual		
	Туре с	of expression of characte	ristic
Method of propagation of the variety	QL (QUAL itatative)	PQ (PSEUDO qualitative)	QN (QUANT itative)
Vegetatively propagated, Self-pollinated	Notes (VG)	Notes (VG) Side-by-side (VG)	Notes (VG/MG/MS) Side-by-side (VG) Statistics (MG/MS)
Cross-pollinated	Notes (V G) Statistics (V S*)	Notes (VG) Side-by-side (VG) Statistics (VS*)	Statistics ([MG]/MS/VS) Side-by-side (VG) Notes (VG/MG/MS,
Hybrids	Notes (VG) Statistics (VS*)	Notes (VG) Side-by-side (VG) Statistics (VS*)	**

UPOV

Method of Observation

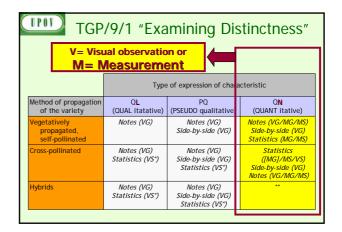
M: Measurement:

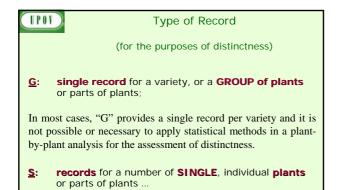
an objective **observation against a calibrated, linear scale** e.g. using a ruler, weighing scales, colorimeter, dates, counts, etc.);

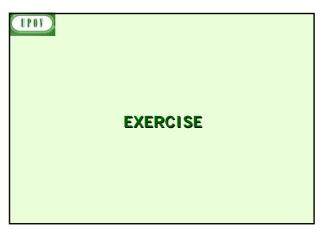
V: Visual observation:

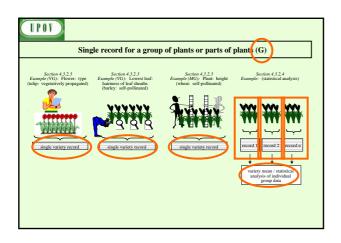
includes observations where the expert uses reference points (e.g. diagrams, example varieties, side-by-side comparison) or non-linear charts (e.g. color charts).

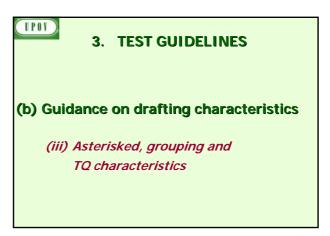
"Visual" observation refers to the sensory observations of the expert and, therefore, also includes smell, taste and touch

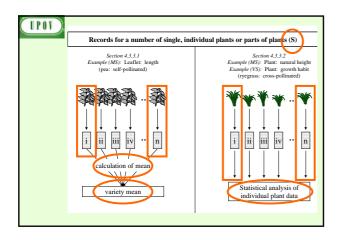


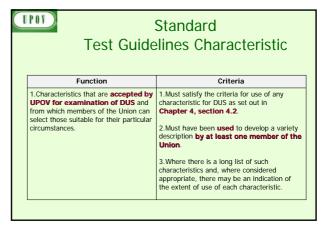




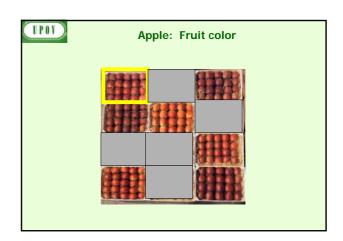


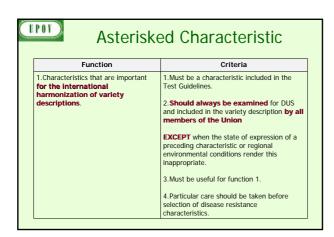


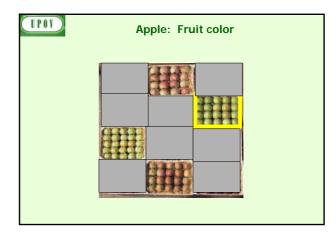


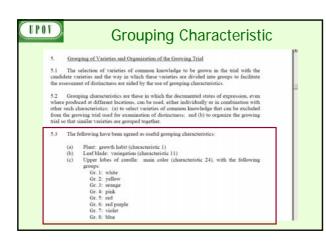


7.	Table of Characte	Table of Characteristics/Tableau des caractères/Merkmalstabelle/Tabla de caracteres				
Char. No.	English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note Nota
(j)	Plant: growth habit	Plante : port	Pflanze: Wuchsform	Planta: porte		
QN	upright	dressé	aufrecht	erecto	Inuppink	1
	semi-upright	semi dressé	halbaufrecht	semierecto	D0158-1	2
	spreading	étalé	breitwüchsig	abierto	Sumnem 03	3
	semi-trailing	semi-étalé	halbhängend	semirrastrero	Inupsaf	4
	trailing	coureux	hängend	rastrero	Organza	5



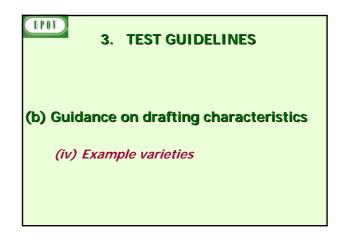


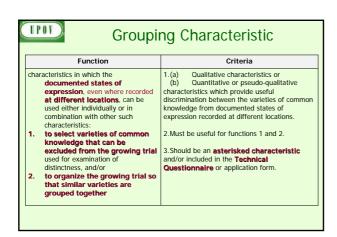


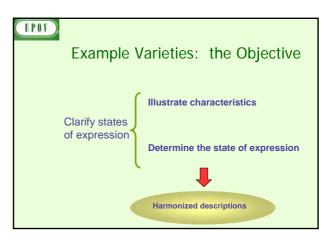


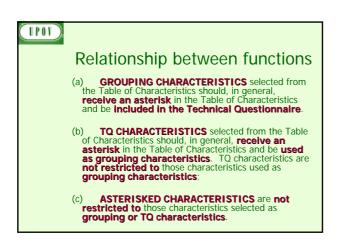


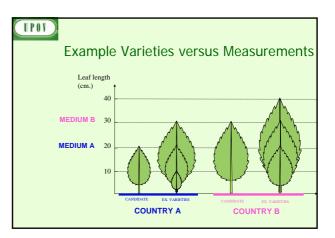
TE	CHNICAL QUESTIONNAIRE	Page (x) of (y)	Reference Number:	
5. co	Characteristics of the variety responding characteristic in Test O			
	Characteristics		Example Varieties	Note
5.5 (37)	Fruit: hue of over color – with bloom	removed		
	orange red		Cox's Orange Pippin, Egremont Russet	1[]
	pink red		Cripps Pink, Delorgue	2[]
	red		Akane, Galaxy, Red Elstar, Regal Prince	3[]
	purple red		Red Jonaprince, Spartan	4[]
	brown red.		Fiesta, Joburn, Lord Burghley	5[]
5.6 (39)	Fruit: pattern of over color			
	only solid flush		Red Jonsprince, Richared Delicious	1[]
	solid flush with weakly defined stripes		Galaxy	2[]
	solid flush with strongly defined stripes		Jonagored	3[]
	weakly defined flosh with strongly defi	ned stripes	Oravensteiner	4[]
	only stripes (no flush)		Helios	5[]
	flushed and mottled		Elstar	6[]
	flushed, striped and mottled		Jonagold	7[]

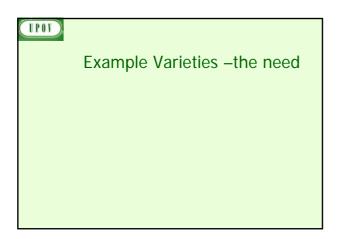


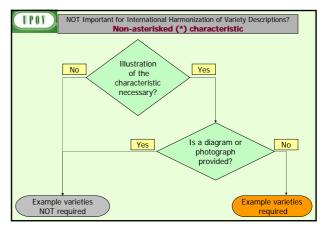


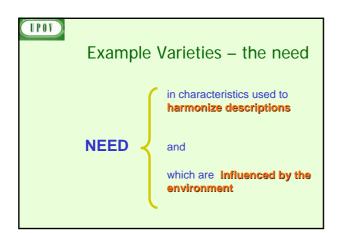




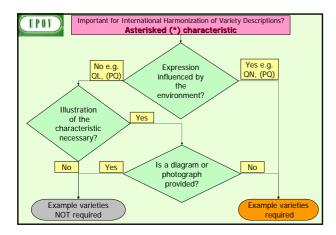




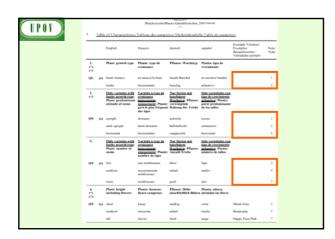


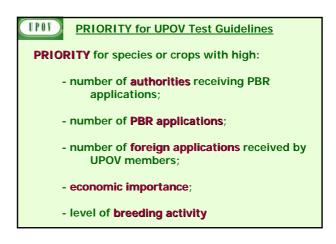


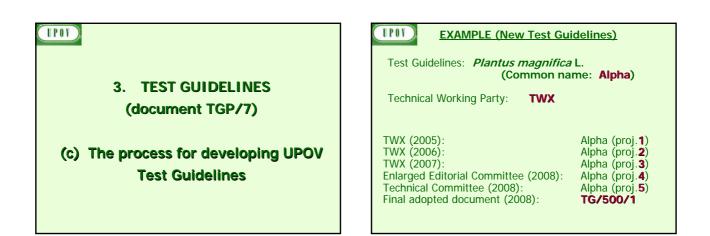
(IPOT)	7. <u>Tab</u>	le of Characterist	Lettuce ics/Tableau des carr	TG/13/9 ·Laitue/Salat/Lechuga, . 7 . uctères/Merkmalstal		cleres	
		English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
	L. (*)	Seed: color	Semence: couleur	Samen: Farbe	Semilla: color		
		white	blanche	weiß	blanco	Verpia	1
		yellow	janne	gelb	amarillo	Durango	2
		black	noire	schwarz	negro	Kagraner Sommer	3
	2. (*) (*)	Seedling: anthecyanin coloration	Plantule: pigmentation anthocyanique	Keimpflanze: Anthocyanfärbung	Plántula: pigmentación antociánica		
		absent	absente	fehlend	ausente	Verpia	1
		present	présente	vorhanden	presente	Pirat	9
	3.	Seedling; size of cotyledon (fully developed)	Plantule: taille du cotylédon (à complet développement)	Keimpflanze: Größe des Keimblatts (voll entwickelt)			
		small	petit	klein	pequaño	Romance	3
		medium	moyen	mittel	medio	Expresse	5
		large	grand	groß	grande	Verpia	7

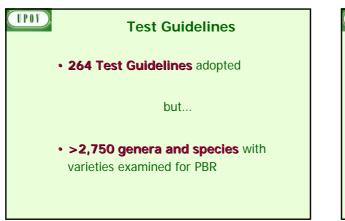


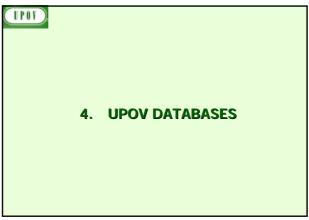
1)						
			Perilla Péril	TG/219/1 le Perilla Perilla, 2004 - 10 -	-03-31		
		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Not Not
14.	vg	Leaf blade: intensity of purplish color of <u>lower</u> side	Limbe: intensité de la couleur pourpre de la face inférieure	Blattspreite: Intensität der Purpurfarbe der Unterseite	Limbo: intensidad del color purpúreo del cuvés		
QN	(a)	very light	très claire	schr hell	muy claro		1
		light	claire	hell	claro	Perlime	3
		medium	moyenne	mittel	medio		5
		dark	foncée	dunkel	oscuro	Patro	7
		very dark	très foncée	sehr dunkel	may oscuro	Bora, Purple	9
15.	VG	Leaf blade: profile	Limbe: profil	Blattspreite: Profil	Limbo: perfil		
QN	(a)	concave	concave	konkav	cóncavo	Patro	3
		plane	plan	flach	plano	Pergro, Saeyeupsil	5
		convex	convexe	konvex	convexo		7





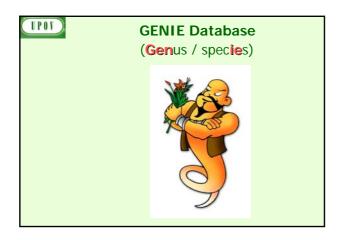


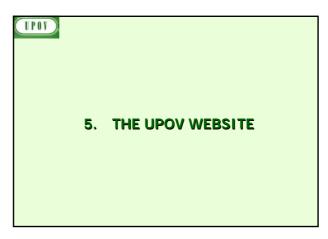


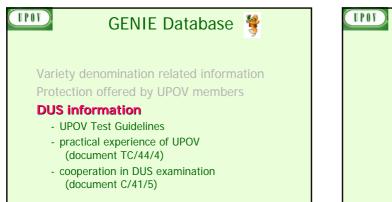




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GENIE Database		(2)4-2)
List of Crop / Species	GENIE Database	
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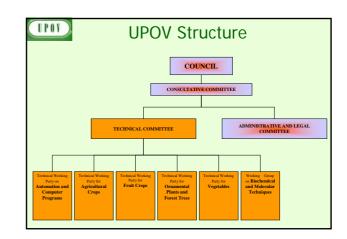








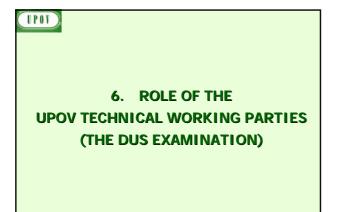
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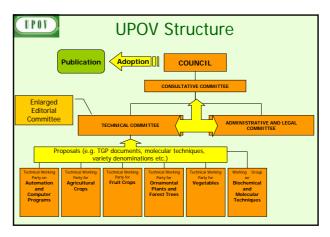


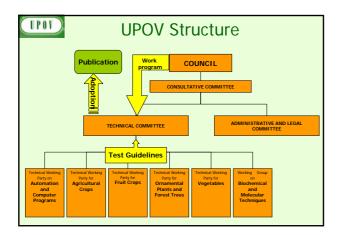


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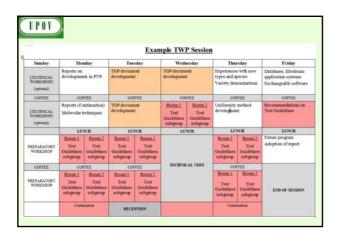
DEVELOPING GUIDANCE to facilitate HARMONIZATION and COOPERATION







			Exan	nple TW	P Session	1				
Mor	sdav	Tuesday		Wednesday		Thursday		Friday		
Reports on developments in PVP		TGP document development		TGP document development		Experiences with new types and species Variety denominations		Databases, Electronic application systems Exchangeable software		
COFFEE		COFFEE		COFFEE		COFFEE		COFFEE		
Reports (Continuation) Molecular techniques		TOP document development		Room 1 Test Guidelines subgroup	Room 2 Test Ouidelines subgroup	Uniformity method development		Recommendations on Test Guidelines		
		LUNCH		LUNCH		LUNCH		LUNCH		
Room.1 Test Guidelines subgroup	Room.2 Test Guidelines subgroup	Room.1 Test Guidelines subgroup	Room.2 Test Guidelines subgroup			<u>Rosm.1</u> Test Guidelines subgroup	Room.2 Test Ouidelines subgroup	Future program Adoption of report		
COF	FEE	COL	FEE	TECHNICAL VISIT		TECHNICAL VISIT		COFFEE		END OF SESSION
Room 1 Test Guidelines subgroup	Room.2 Test Guidelines subgroup	Room.1 Test Guidelines subgroup	Room.2 Test Guidelines subgroup			Room.1 Test Ouidelines sub-group	Room.2 Test Ouidelines subgroup			
	Reports on development COP Reports (Co Molecular to Molecular to Molecular to Reom.1 Test Couldelines subgroup COP Reom.1 Test Ouldelines	developments in PVP COTPEE Reports (Continuation) Molecular techniques LUNCH Recent.l Recent.l Recent.l Recent.l Recent.l Recent.l Recent.l Test Recent.l Recent.l Test Codidetines Codide	Reports on development in PVP TOP Accura development development development development COTFEE COT development Nonecular techniques COT development Molecular techniques TOP Accura development LUNCH LOB development Tech disclares General development COTFEE COT development COTFEE COT development COTFEE COT development COTFEE COT development COTFEE COT development COTFEE COT development Cotification Cotification cotification Test Test Cotification Cotification	Needay Terber development in PPP COPTEI COPTEI COPTEI COPTEI COPTEI COPTEI COPTEI COPTEI COPTEI Report of Continuation TOP document development Terber LUCCE LUCCE Terber Terber Terber Terber Outidations Guiddians Guiddians OUTETE COPTEI Contextent COTTEI COPTEI Terber Terber Terber <	Messlay Testsday Work Reports en derekspannet in PVP TOP document derekspannet TOP document derekspannet TOP document derekspannet COPTEZ COFFEZ COFFEZ	Monday Teeday Wedae-Jac Reports m development in PVP TOP document development TOP document development TOP document development COPTEX COPTEX COPTEX COPTEX Reports (Continuation development) TOP document development Tord document development Test reports Test reports <td>Reports on development TOP Accument development TOP Accument development TOP Accument development Reports on transformer toppen and pro- transformer Report Part of transformer Report toppen toppen toppen COPTE LINE LINE LINE LINE Conclusions Conclines Conclusions <th< td=""><td>Monday Taraday Workstow Taraday Reports on development: in PV70 GOP document development: GOP document development: Begreinness with aver type and species corrrat COPTE COPTE COPTE COPTE Reports (Continuation) development: Total document development: Romail reports Romail reports</td></th<></td>	Reports on development TOP Accument development TOP Accument development TOP Accument development Reports on transformer toppen and pro- transformer Report Part of transformer Report toppen toppen toppen COPTE LINE LINE LINE LINE Conclusions Conclines Conclusions <th< td=""><td>Monday Taraday Workstow Taraday Reports on development: in PV70 GOP document development: GOP document development: Begreinness with aver type and species corrrat COPTE COPTE COPTE COPTE Reports (Continuation) development: Total document development: Romail reports Romail reports</td></th<>	Monday Taraday Workstow Taraday Reports on development: in PV70 GOP document development: GOP document development: Begreinness with aver type and species corrrat COPTE COPTE COPTE COPTE Reports (Continuation) development: Total document development: Romail reports Romail reports		







			Exan	nple TW	P Session	E .			
Monday		Tuesday		Wednesday		Thursday		Friday	
Reports on TGP document developments in PVP		TGP document development		Experiences with new types and species Variety denominations		Databases, Electronic application systems Exchangeable software			
COFFEE COFFEE		COFFEE		COFFEE		COFFEE			
			Recm.1 Room.2 Test Test Ouidelines subgroup subgroup		Uniformity method development		Recommendations on Test Ouidelines		
LUNCH		LUNCH		LUNCH		LUNCH		LUNCH	
Room.1. Test Ouidelines subgroup	Room.2 Test Ouidelines subgroup	Reom.1 Test Ouidelines subgroup	Room.2 Test Ouidelines subgroup			Room.1 Test Ouidelines subgroup	Room.2 Test Ouidelines subgroup	Future program Adoption of report	
COFTEE		COFFEE		TECHNICAL VISIT		COFFEE			
Room 1 Test Ouidelines subgroup	<u>Room 2</u> Test Ouidelines subgroup	Room 1 Test Ouidelines subgroup	Room 2 Test Ouidelines subgroup			Reom.1 Test Ouidelines subgroup	Room.2 Test Ouidelines subgroup	END OF SESSION	
	Reports on developmen Reports (Co Molecular t LL? Recem.1 Test Quidelines subgroup COP Recent Test Quidelines	COFFEE CoFFEE Reports (Continuation) Molecular techniques ELENCH Eaconal Records Total Total Condecises subgroup ConfFEE Record. Total Condecises Subgroup ConfFEE Record. Total Condecises Subgroup	Reports m IPVP TOP Accum developments in IPVP CONTEX CON CONTEX CON Molecular techniques TOP Accum development CON Molecular techniques TOP Accum development CON EXENCIF LEC ECE Cuiddines Guiddines subgroup Subjects CONTEX CON CON CONTEX CON Top Accum development Context Condicines subgroup Subjects CONTEX CON Condicines subgroup Condicines subgroup Context Top Accum development Condicines subgroup Condicines subgroup Context Top Accum development Condicines subgroup Condicines subgroup Condicines Guidelines Condicines Guidelines <td< td=""><td>Menday Turing Reports on developments in PVP TOP document development TOP document COFFEE COFFEE OUTEX Reports (Construction) Molecular techniques and techniques TOP document Monecular development INUE EXECUT EXECUT EXECUT Resmail Resmail Resmail and group an</td><td>Masky Tursday Weid Reports on development in PVP TOP document development TOP document development TOP document development COFFEE COFFEE COFFEE COFFEE Molecular development TOP document development ToP document development ToT document <t< td=""><td>Meaday Tursday Worker-day Reports on developments in PVP TOP document development TOP document development TOP document development COFFEE COFFEE COFFEE COFFEE Top development Top development Top development Top development Rom.1 Rom.1 Rom.2 Top document Top document</td><td>Messlay Turning Wordsr-day Thengen to the second seco</td><td>Meaday Tursday Wedaroday Thursday Reports on developments in PVP TOP document development Top d</td></t<></td></td<>	Menday Turing Reports on developments in PVP TOP document development TOP document COFFEE COFFEE OUTEX Reports (Construction) Molecular techniques and techniques TOP document Monecular development INUE EXECUT EXECUT EXECUT Resmail Resmail Resmail and group an	Masky Tursday Weid Reports on development in PVP TOP document development TOP document development TOP document development COFFEE COFFEE COFFEE COFFEE Molecular development TOP document development ToP document development ToT document ToT document <t< td=""><td>Meaday Tursday Worker-day Reports on developments in PVP TOP document development TOP document development TOP document development COFFEE COFFEE COFFEE COFFEE Top development Top development Top development Top development Rom.1 Rom.1 Rom.2 Top document Top document</td><td>Messlay Turning Wordsr-day Thengen to the second seco</td><td>Meaday Tursday Wedaroday Thursday Reports on developments in PVP TOP document development Top d</td></t<>	Meaday Tursday Worker-day Reports on developments in PVP TOP document development TOP document development TOP document development COFFEE COFFEE COFFEE COFFEE Top development Top development Top development Top development Rom.1 Rom.1 Rom.2 Top document Top document	Messlay Turning Wordsr-day Thengen to the second seco	Meaday Tursday Wedaroday Thursday Reports on developments in PVP TOP document development Top d	

UPO	TWP Venues									
	TWA	TWC	TWF	TWO	TWV	BMT				
1994	Spain	Israel	New Zealand	Australia	UK	France				
1995	Germany	Poland	UK	Ne the rlands	Netherlands	Netherlands				
1996	Greece	Germany	Israel	Israel	Czech Rep.					
1997	Uruguay	Hungary	Netherlands	Denmark	Spain	United Kingdom				
1998	France	Belgium	Australia	New Zealand	Poland	USA				
1999	Canada	Finland	Slovakia	Czech Rep.	Germany					
2000	Sweden	Ukraine	Hungary	Hungary	France	France				
2001	Mexico	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	Kenya	USA				
2006	China	Kenya	Brazil	Brazil	Mexico	Rep. of Korea				
2007	Hungary	Romania	Rep. of Korea	China	Kenya					
2008	South Africa	Rep. of Korea	Portugal	Netherlands	Poland	Spain				
2009	Rep. of Korea	USA	France	European Union	China					
2010	Croatia	Europe an Union	Mexico	Mexico	Bulgaria	Canada				
	May 24-28	June 28 - July 2	Sept. 27 - Oct. 1	Sept. 20 - 24	July 5 - 9	May 11 - 13				





