



TWA/41/32

ORIGINAL: English

DATE: June 6, 2012

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

TECHNICAL WORKING PARTY FOR AGRICULTURAL CROPS

**Forty-First Session
Angers, France, May 21 to 25, 2012**

REPORT ON DEVELOPMENTS WITHIN UPOV

and

WEB BASED TG TEMPLATE

Document prepared by the Office of the Union

1. Annex I to this document contains a copy of a presentation "Report on Developments within UPOV" prepared by the Office of the Union for the forty-first session of the Technical Working Party for Agricultural Crops.
2. Annex II to this document contains a copy of a presentation "Web Based TG Template" prepared by an expert from Australia and the Office of the Union for the forty-first session of the Technical Working Party for Agricultural Crops.

[Annexes follow]

**Technical Working Party for
Agricultural Crops**
Forty-First Session

**REPORT ON
DEVELOPMENTS IN UPOV**

Angers, France,
May 21 to 25, 2012

OVERVIEW

- Members & People
- Future event
- New website
 - general features
 - new databases (PLUTO & UPOV Lex)
 - access to information
- Electronic application form
- DUS and technical developments

2

OVERVIEW

- **Members & People**
- Future event
- New website
 - general features
 - new databases (PLUTO & UPOV Lex)
 - access to information
- Electronic application form
- DUS and technical developments

3

MEMBERSHIP OF UPOV
70 Members

New Members

Peru as of Aug. 8, 2011

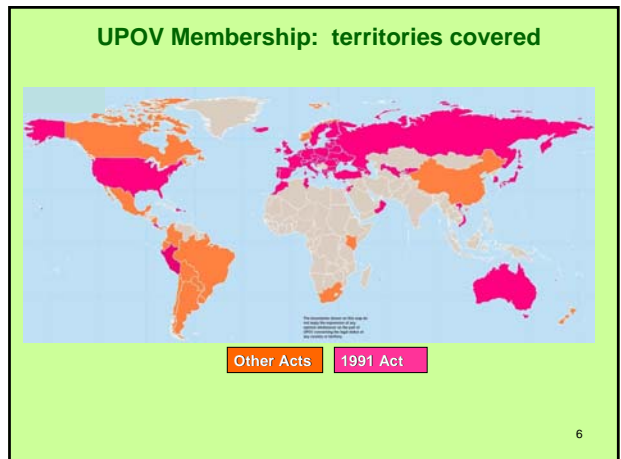
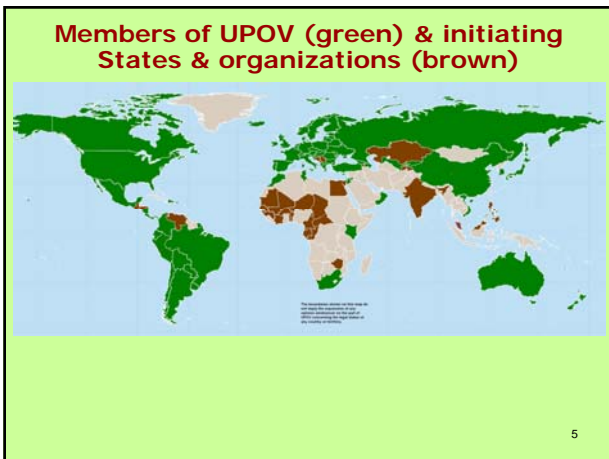
Ratification of 1991 Act

France as of May 27, 2012

Ireland as of Dec. 8, 2011



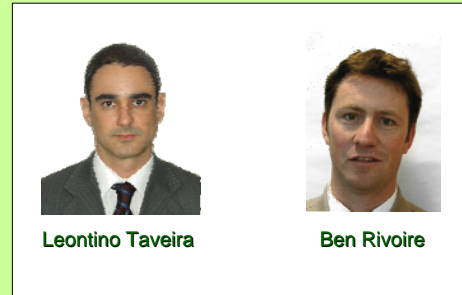
4



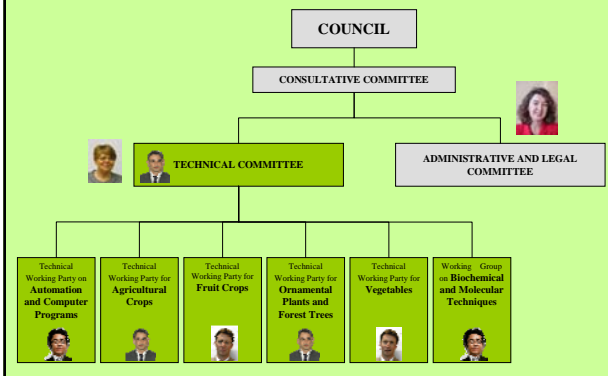
Roles within UPOV Bodies

UPOV Body	Role	Person
Council	President	Mr. Keun-Jin Choi (Republic of Korea)
Council	Vice President	Mrs. Kitisri Sukhapinda (United States of America)
CAJ	Chair	Mr. Lü Bo (China)
CAJ	Vice Chair	Mr. Martin Ekvad (European Union)
TC	Chair	Mr. Joël Guiard (France)
TC	Vice Chair	Mr. Alejandro Barrientos Priego (Mexico)
TWA	Chairperson	Mrs. Robyn Hierse (South Africa)
TWC	Chairperson	Mr. Sami Markkanen (Finland)
TWF	Chairperson	Mrs. Carensa Petzer (South Africa)
TWO	Chairperson	Mr. Nik Hulse (Australia)
TWV	Chairperson	Mr. François Boulineau (France)
BMT	Chairperson	Mr. Alejandro Barrientos Priego (Mexico)

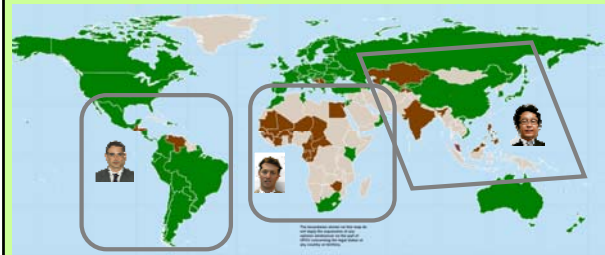
New Staff



UPOV Structure



Members of UPOV (green) & initiating States & organizations (brown)



10

OVERVIEW

- Members & People
- **Future event**
- New website
 - general features
 - new databases (PLUTO & UPOV Lex)
 - access to information
- Electronic application form
- DUS and technical developments

11



Symposium on the benefits of plant variety protection for farmers and growers

Geneva: November 2, 2012

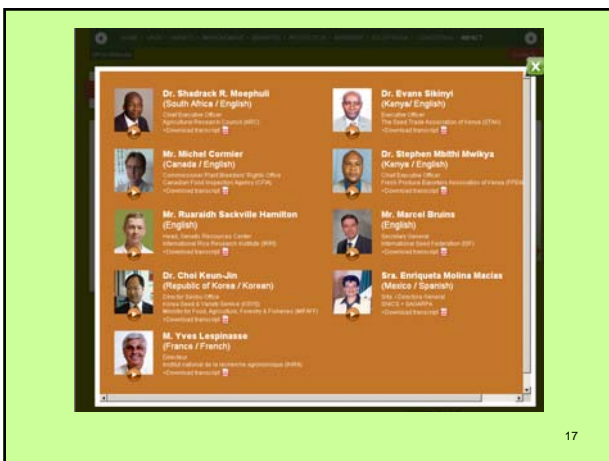
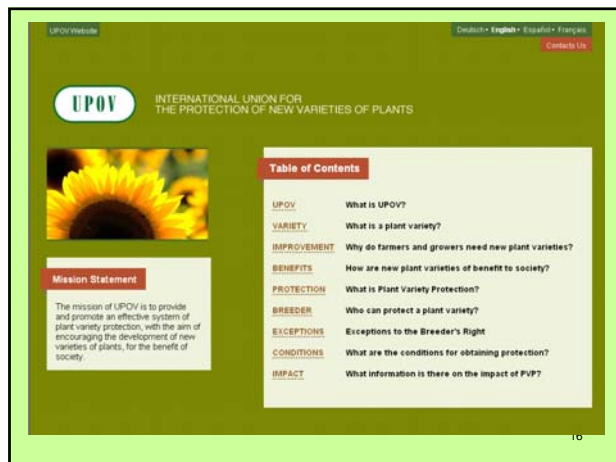
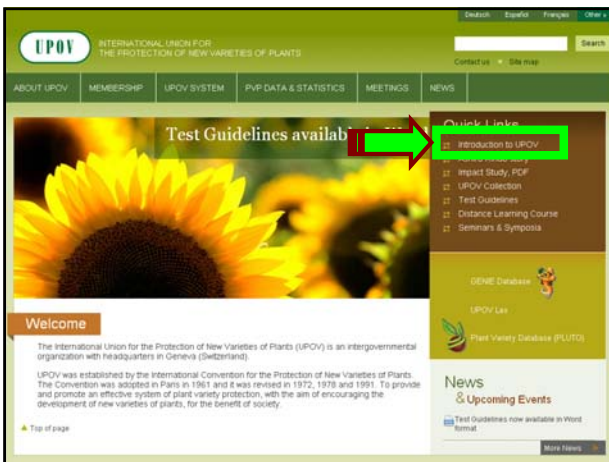
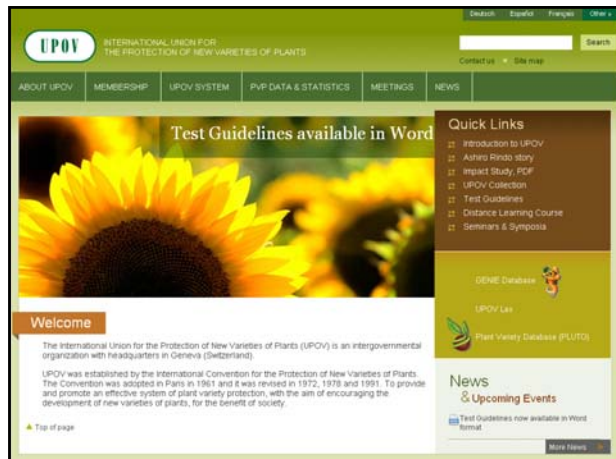
- illustrations of how **plant variety protection can improve incomes for farmers and growers** by supporting the development and supply of new, improved varieties that are suited to their needs
- examples of how farmers and growers can use **plant variety protection as breeders**

12

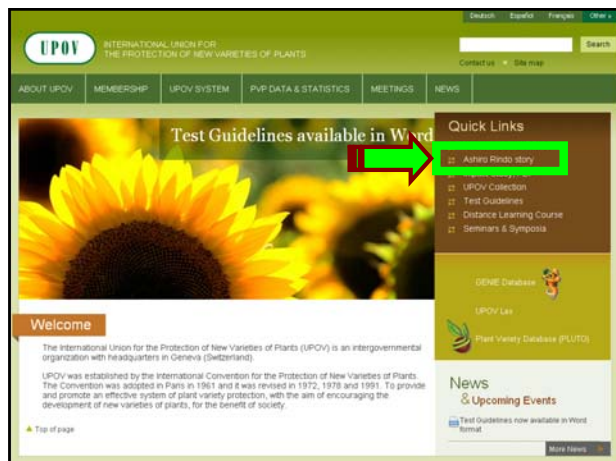
OVERVIEW

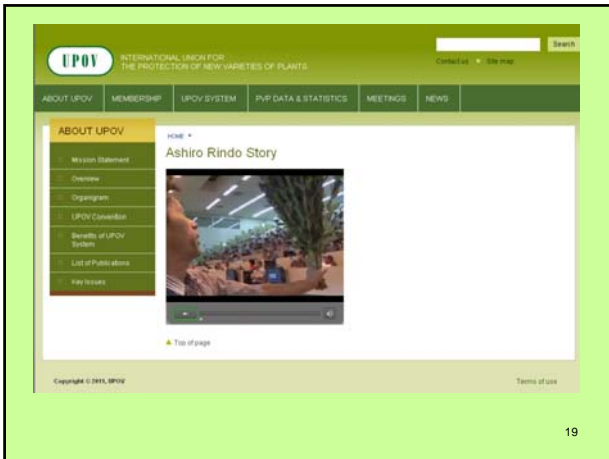
- Members & People
- Future event
- **New website**
 - **general features**
 - new databases (PLUTO & UPOV Lex)
 - access to information
- Electronic application form
- DUS and technical developments

13

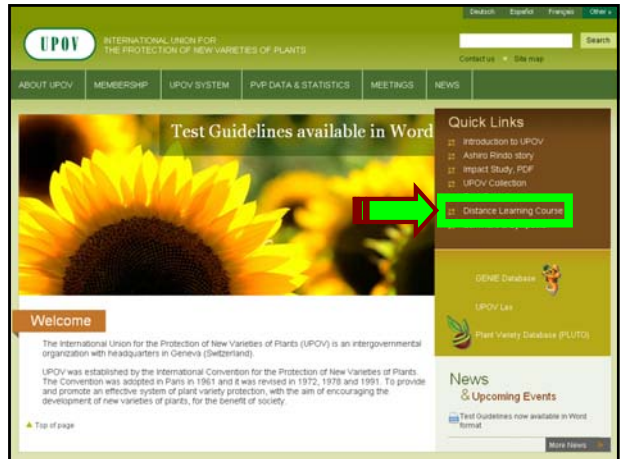


17





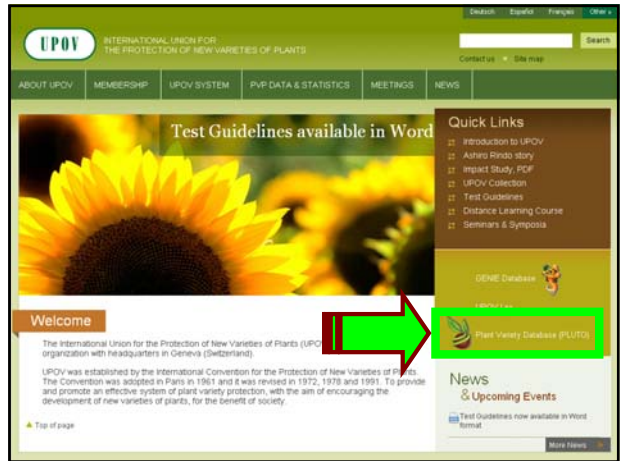
19



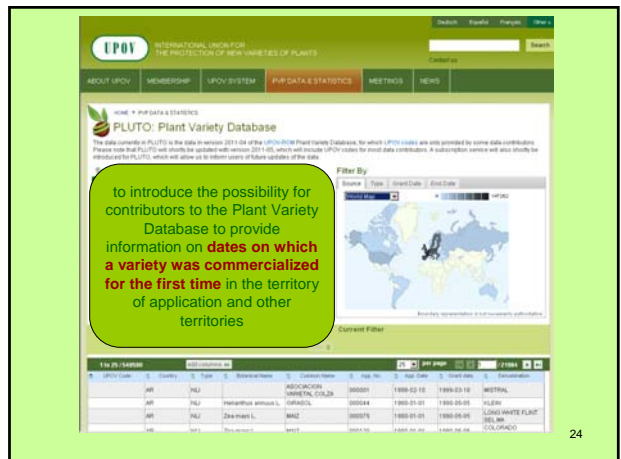
OVERVIEW

- Members & People
- Future event
- New website
 - general features
 - **new databases (PLUTO & UPOV Lex)**
 - access to information
- Electronic application form
- DUS and technical developments

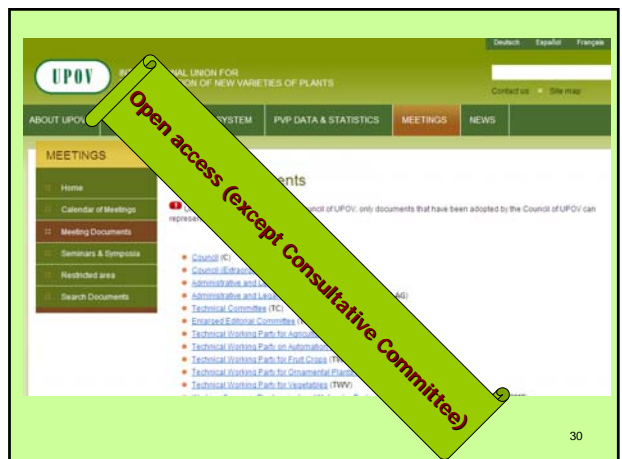
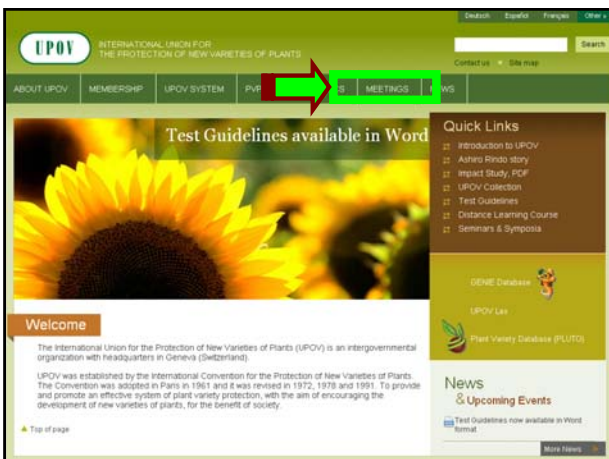
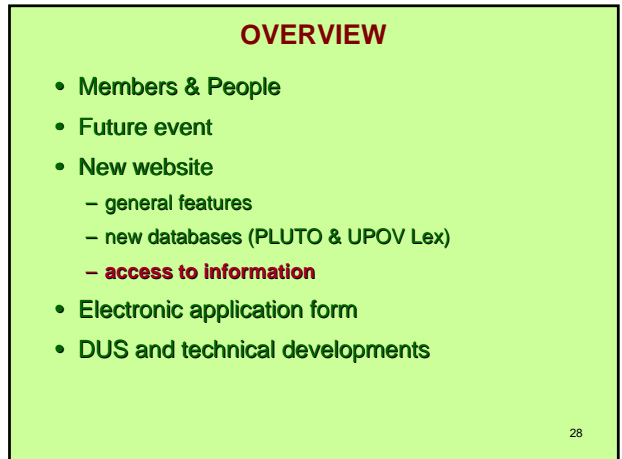
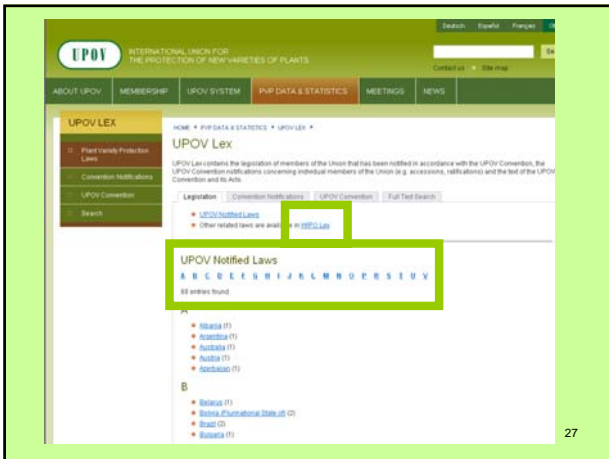
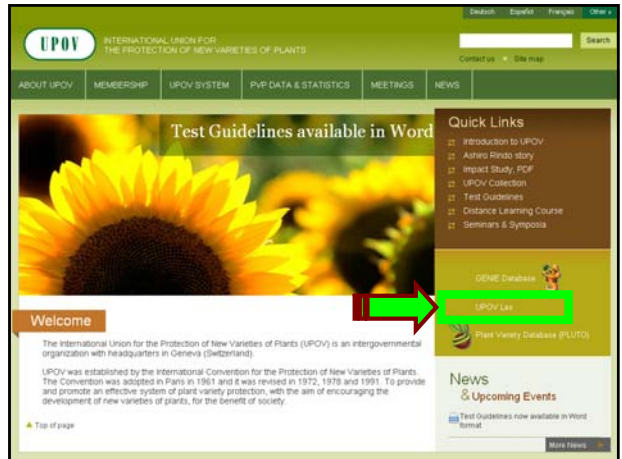
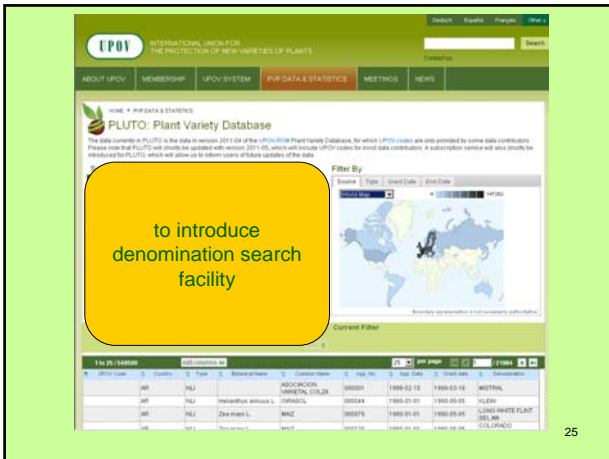
21

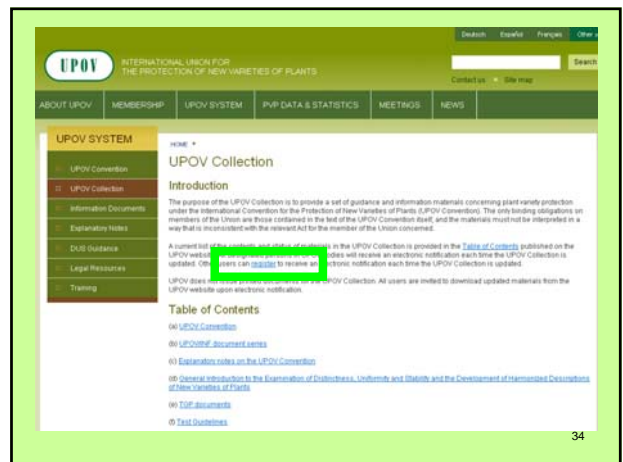
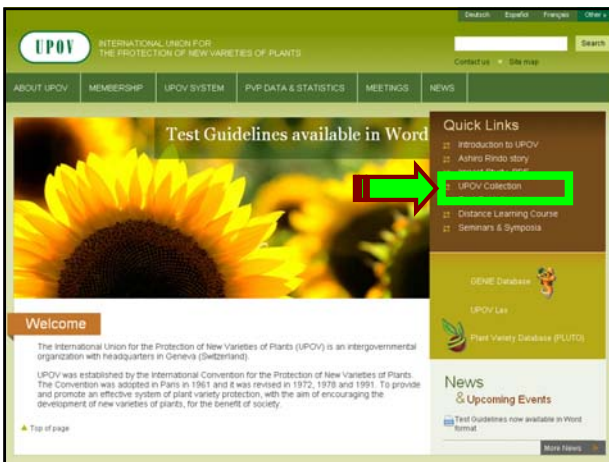
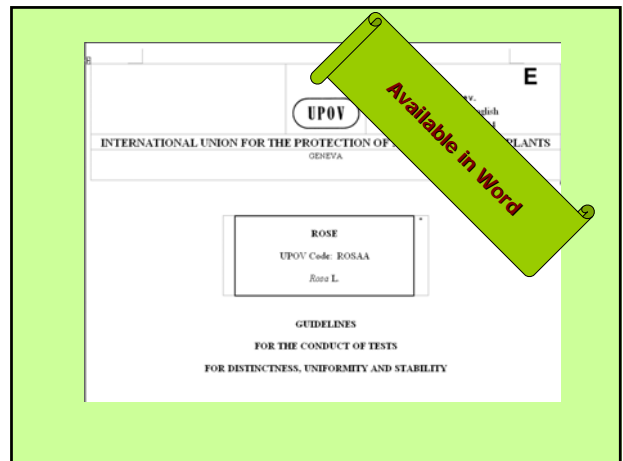
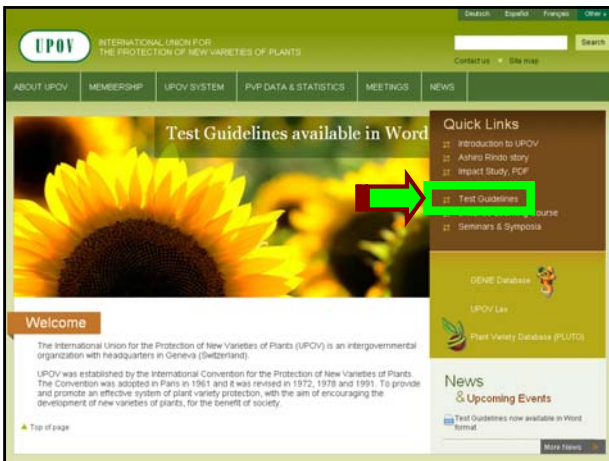


23



24





INFORMATION MATERIALS ADOPTED OCTOBER 2011

Document reference	Title
UPOV/INF/6/2	Guidance for the preparation of laws based on the 1991 Act of the UPOV Convention (Revision)
UPOV/INF/16/2	Exchangeable Software (Revision)
UPOV/INF/18/1	Possible use of Biochemical and Molecular Markers in the Examination of Distinctness, Uniformity and Stability (DUS)
UPOV/INF-EXN/1	List of INF-EXN Documents and Latest Issue Dates
TGP/0/4	List of TGP Documents and Latest Issue Dates
TGP/5	Experience and Cooperation in DUS Testing: Section 10/2 Notification of Additional Characteristics (Revision)
TGP/7/3	Development of Test Guidelines (Revision)
TGP/11/1	Examination of Stability

INFORMATION MATERIALS UNDER DEVELOPMENT			
Document reference	Status	Title	Schedule
UPOV/INF/ADS	New	Alternative Dispute Settlement Mechanisms	Council November 2012
UPOV/INF/15	Revision (PLUTO data)	Guidance for Members of UPOV on Ongoing Obligations and Related Notifications	CAJ/66 October 2012
UPOV/INF/5 (October 1979)	Revision	UPOV Model Plant Breeders' Rights Gazette	CAJ/67 March 2013
UPOV/EXN/EDV	Revision	Essentially Derived Varieties	CAJ-AG October 2012
UPOV/EXN/BRD	New	Definition of Breeder	CAJ-AG October 2012
UPOV/EXN/HRV	New	Acts in Respect of Harvested Material	CAJ-AG October 2012
	To be decided	Matters Arising after the Grant of a Breeder's Right	CAJ-AG October 2012
	To be decided	Propagation and Propagating Material	CAJ-AG October 2012

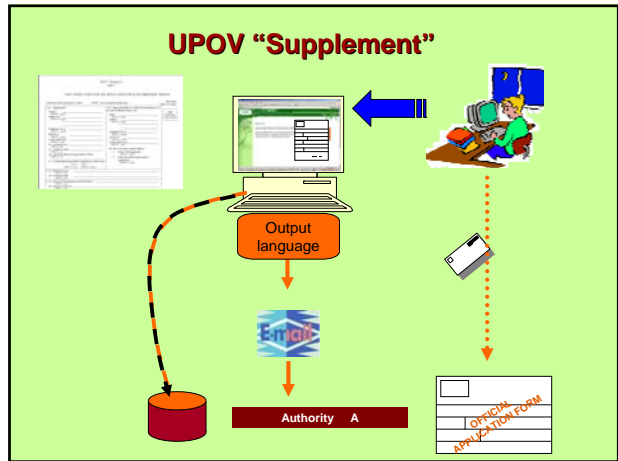
OVERVIEW

- Members & People
- Future event
- New website
 - general features
 - new databases (PLUTO & UPOV Lex)
 - access to information
- **Electronic application form**
- DUS and technical developments

38

UPOV Model Application Form: 2. Electronic Form

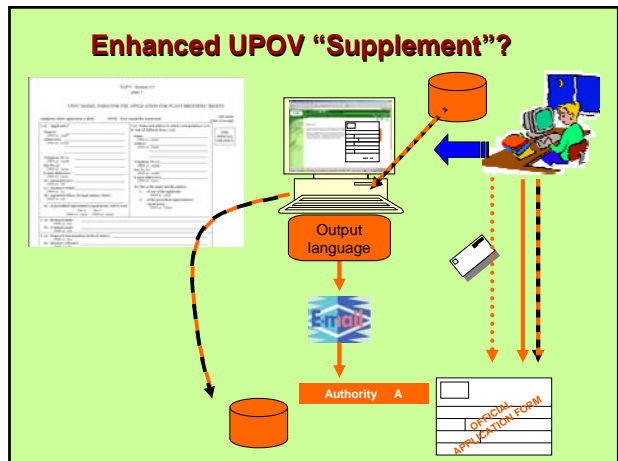
Not an application

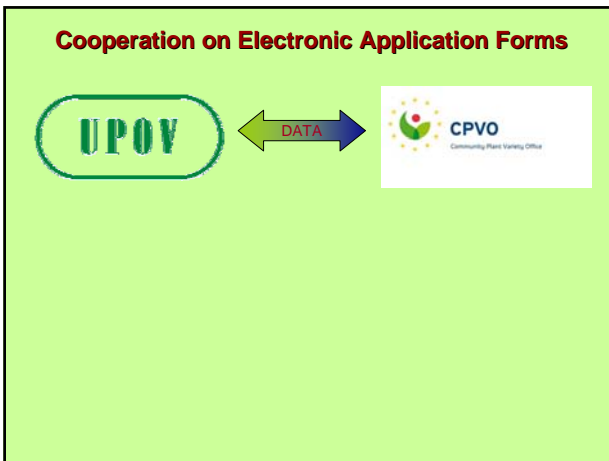


Meetings

- UPOV
- WIPO
- CPVO
- ISF

- Meetings held in August & December 2011





Meetings

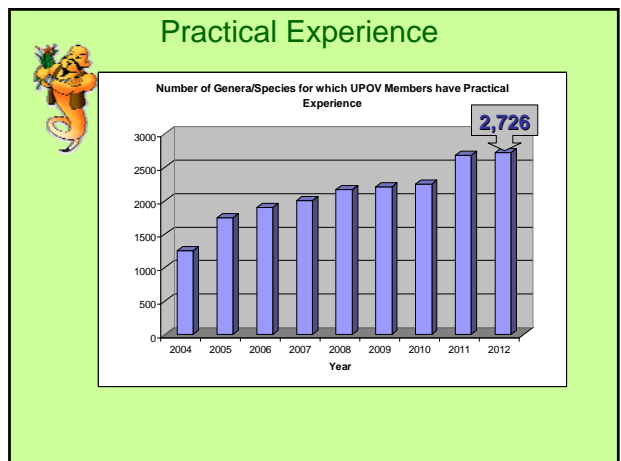
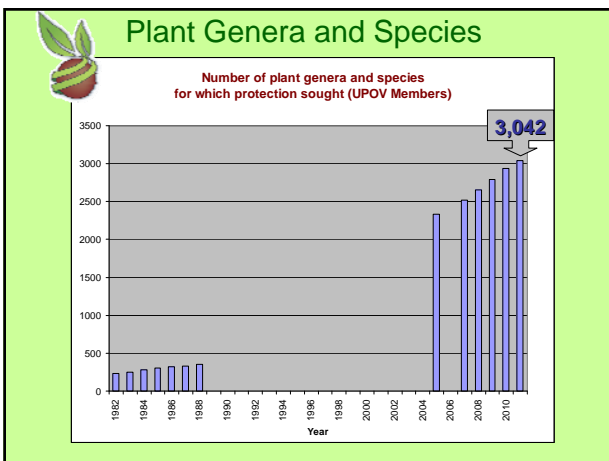
- UPOV
- WIPO
- CPVO
- ISF
- **CIOPORA**

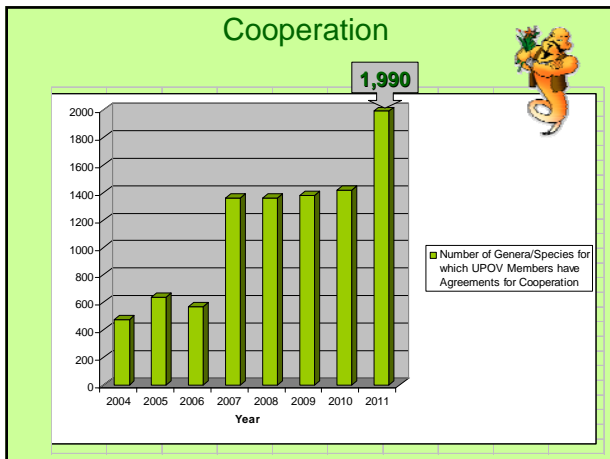
- Meeting: May 10, 2012 (Geneva – WebEx)

Model Crops

Field Crops	TWV	TWO	TWF
Wheat (<i>Triticum aestivum</i> L.)	Lettuce (<i>Lactuca sativa</i> L.)	Rose	Peach (<i>Pruce persica</i> L. Batsch)
Maize (<i>Zea mays</i> L.)	Tomato (<i>Solanum lycopersicum</i> L.)	Chrysanthemum	Apple (<i>Malus domestica</i> Borkh.)
Potato (<i>Solanum tuberosum</i> L.)	Pea (<i>Pisum sativum</i> L.)	Carnation (<i>Dianthus</i> L.)	
Ryegrass (<i>Lolium</i> L.)		Pelargonium	
		Petunia	

- ### OVERVIEW
- Members & People
 - Future event
 - New website
 - general features
 - new databases (PLUTO & UPOV Lex)
 - access to information
 - Electronic application form
 - **DUS and technical developments**
- 46





Genera and Species

- **>3,000 genera and species** with varieties examined for PBR
- **>2,700 genera and species** for which UPOV members have practical DUS experience
- **281 Test Guidelines** adopted

Note: **281 Test Guidelines estimated to cover 90% of PBR-related varieties in UPOV Plant Variety Database**

Test Guidelines adopted in 2012

NEW TEST GUIDELINES

Country	Code	Species
JP	TWA	Buckwheat (<i>Fagopyrum esculentum</i> Moench)
FR	TWO	Canna (<i>Canna</i> L.)
PL/GB	TWO/TWV	Echinacea (<i>Echinacea</i> Moench.)
NL	TWA	Hemp (<i>Cannabis sativa</i> L.)
GB	TWO	<i>Heuchera</i> L., x <i>Heucherella</i> H. R. Wehrh.
DE	TWF	Blue Honeysuckle (<i>Lonicera caerulea</i> var. <i>edulis</i> Turcz. ex Freyn) / Honeyberry (<i>Lonicera caerulea</i> var. <i>kamtschatica</i> Sevast.)
JP	TWO	Oncidium (<i>Oncidium</i> Sw.)
FR	TWF	Pineapple (<i>Ananas comosus</i> (L.) Merr.)
JP	TWV	Shiitake (<i>Lentinula edodes</i> (Berk.) Pegler)

Test Guidelines adopted in 2012

REVISIONS

Country	Code	Species
NZ	TWF	Kiwifruit (<i>Actinidia</i> Lindl.)
AU/ES	TWA	Durum wheat (<i>Triticum turgidum</i> L. subsp. <i>durum</i> (Desf.) Husn.)
GB	TWV	Parsnip (<i>Pastinaca sativa</i> L.)
DE	TWV	Black radish, Oriental radish (<i>Raphanus sativus</i> L. var. <i>niger</i> (Mill.) S. Kerner) Radish (<i>Raphanus sativus</i> L. var. <i>sativus</i>)

PARTIAL REVISIONS

Country	Code	Species
FR	TWV/TWA	French Bean (<i>Phaseolus vulgaris</i> L.)
DE	TWO	Kalanchoe (<i>Kalanchoe blossfeldiana</i> Poelln. and its hybrids)
DE	TWO	New Guinea Impatiens
DE	TWF	Strawberry (<i>Fragaria</i> L.)

TECHNICAL COMMITTEE

April sessions: 2002-2011

Monday	Tuesday	Wednesday	Thursday	Friday
TC-EDC	TC	TC	CAJ	CC
TC	TC	TC	CAJ	Council

TECHNICAL COMMITTEE

April session: 2012

Monday	Tuesday	Wednesday	Thursday	Friday
TC discussion	TC	TC	CAJ	CC
TC	TC	TC	CAJ	Council

Experiences of members of the Union in measures to improve the efficiency and effectiveness of DUS testing

TECHNICAL COMMITTEE
March 18 to 20, 2013

- Molecular techniques
- Use of DUS test reports by members of the Union

	Tuesday	Wednesday	Thursday	Friday
TC	TC	TC	CAJ	CC
TC	TC	TC discussion	CAJ	Council

THANK YOU

56

[Annex II follows]

**Technical Working Party for
Agricultural Crops
Forty-first Session**

Web Based TG Template

Nik Hulse, Senior Examiner of PBR, Australia
 Romy Oertel, Office of the Union

Angers, France, May 21 to 25, 2012

IDEA

- **Create a web based TG Template to facilitate work for drafters of Test Guidelines**
 - Less formatting work
 - No more manual update of linked chapters

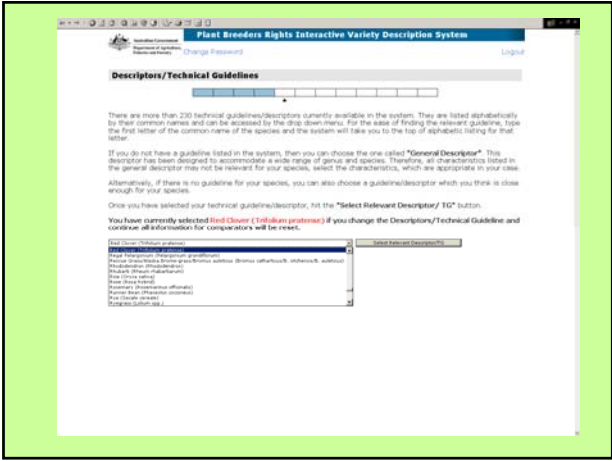
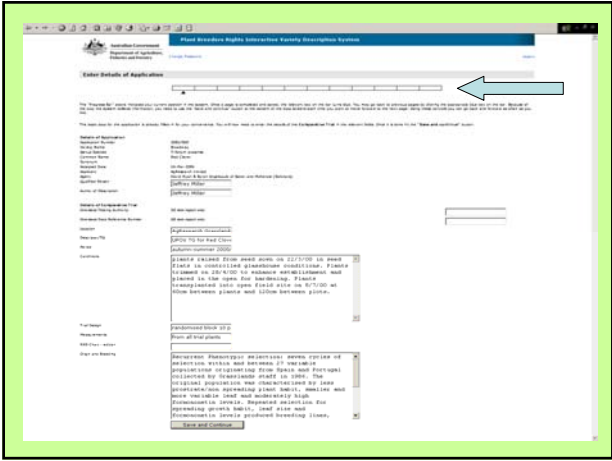
2

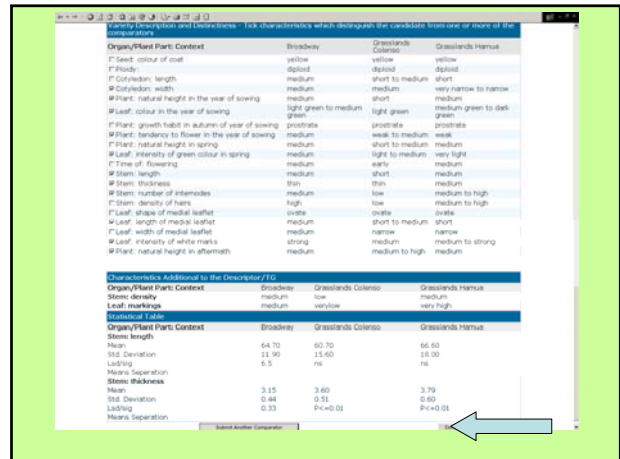
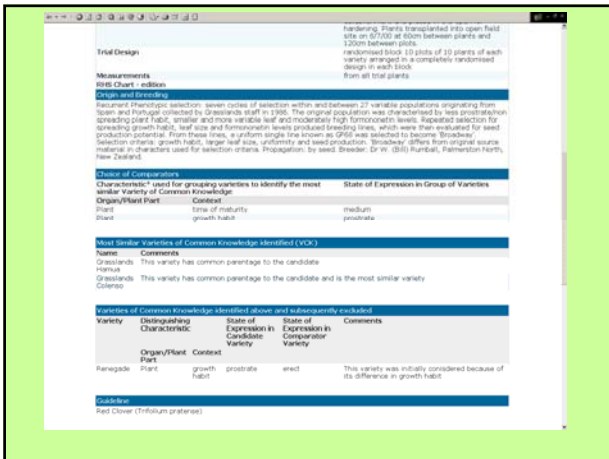
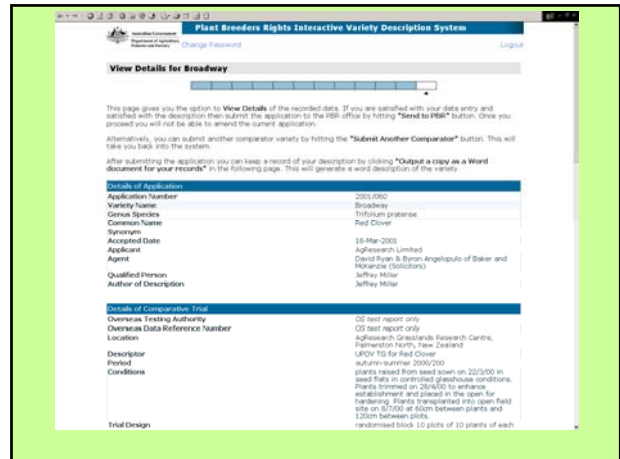
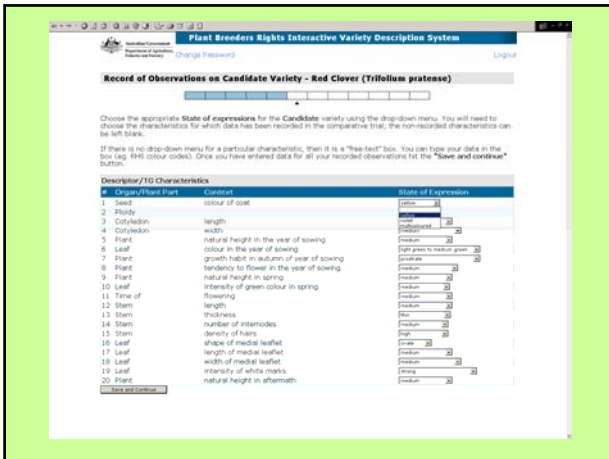
An existing example

- **online Interactive Variety Description System (IVDS)**
 - although this system has a different purpose, some of the features are similar and demonstrate how a Web Based TG template might operate.

What is the IVDS?

- The IVDS is an online system which allows entry of detailed descriptions of varieties in a controlled way.
- A series of screens prompts the user to enter required information
 - eg testing location, trial conditions, variety characteristics
- The system presents the characteristics from the relevant UPOV Test Guideline by way of dropdown lists.
 - the user selects the appropriate state of expression for each characteristic
- The IVDS then produces a Word document that is used for publication in the plant varieties journal
 - if changes are needed then these can be made in the IVDS and a new Word document produced incorporating the changes





Why it is useful

- The data entered into the IVDS is maintained in a database.
 - therefore it is structured and can be queried or exported
- It includes details of every characteristic from all adopted UPOV Test Guidelines
 - as new TG's are adopted they are entered into the system

Example

Details include:	Rose	
TG	TG/11/8	
Char. Number	36	
Organ	Petal	
Context	undulation	
State of expression	absent or very weak	1
Note	very weak to weak	2
	weak	3
	weak to medium	4
	medium	5
	medium to strong	6
	strong	7
	strong to very strong	8
	very strong	9

So...

- A system conceptually similar to the IVDS for a Web Based TG template could improve the efficiency and quality of drafting TG's
- More on the idea.....

Chapters 1 to 6

- Standard Wording: no possibility to be changed by drafter
- ASW: option to tick and choose as required
- Questions asking for information required (number of plants to be observed, assessment of uniformity etc.)
- GN could pop up by clicking on a "?" icon in respective places

Table of characteristics

- Key feature:
 - automatic update of chapters linked to t.o.c
 - 5.3, 6.5, 8.1, 8.2, TQ 5

15

Table of characteristics

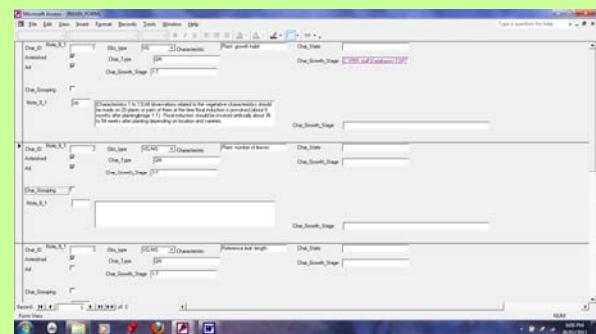


Table of characteristics

- How to create a characteristic
- Combined with a database containing existing characteristics with all states of expressions of adopted TGs
 - use keyword search (e.g. "petal" and will find all characteristics containing the word "petal" of all TGs in database)

Other Necessary Features

- Print preview
- Export into Word document

Possible Future Features

- Translation database
- Use as archiving system

Feedback

- Please send comments, proposals or critical views to:
Nik.Hulse@ipaaustralia.gov.au and
romy.oertel@upov.int

THANK YOU