



TWV/46/40

ORIGINAL: English

DATE: June 8, 2012

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

TECHNICAL WORKING PARTY FOR VEGETABLES

**Forty-Sixth Session
near the city of Venlo, Netherlands, June 11 to 15, 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-sixth session of the Technical Working Party for Vegetables.
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-sixth session of the Technical Working Party for Vegetables.

[Annexes follow]

Technical Working Party for Vegetables
Forty-Sixth Session

REPORT ON DEVELOPMENTS IN UPOV

near the city of Venlo, the Netherlands,
June 11 to 15, 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

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3

MEMBERSHIP OF UPOV
70 Members

New Members

Peru as of Aug. 8, 2011

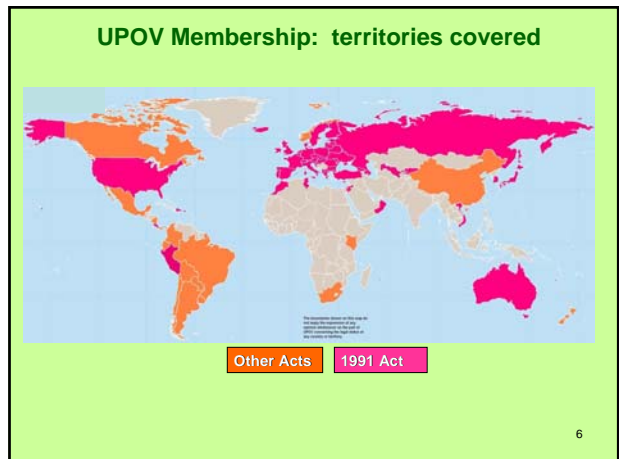
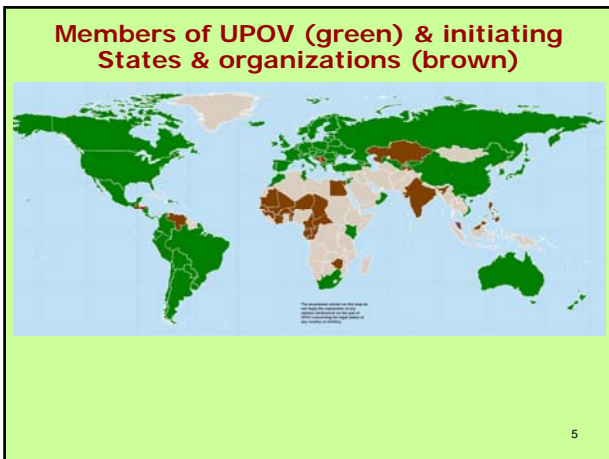
Ratification of 1991 Act

France as of May 27, 2012

Ireland as of Dec. 8, 2011



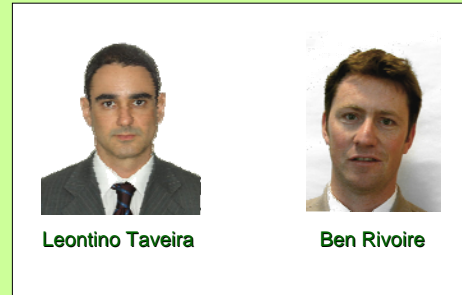
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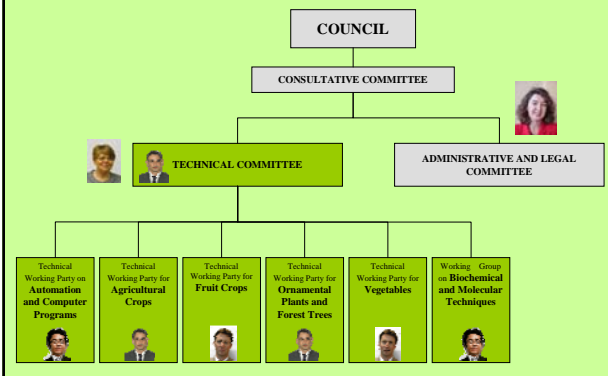
Roles within UPOV Bodies

| 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) |

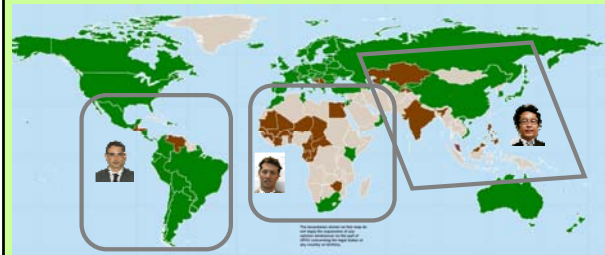
New Staff



UPOV Structure



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



10

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11



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

Geneva: November 2, 2012

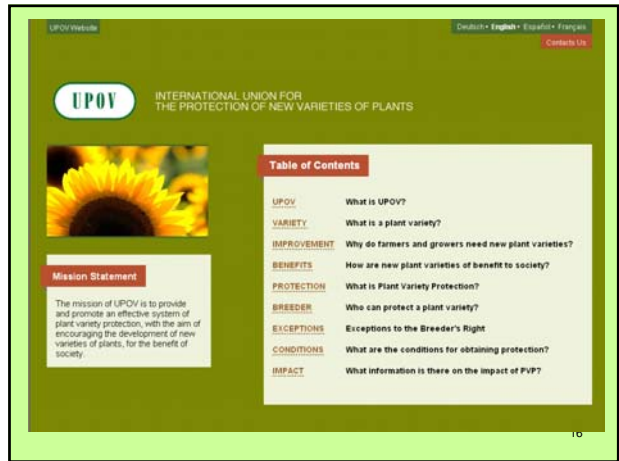
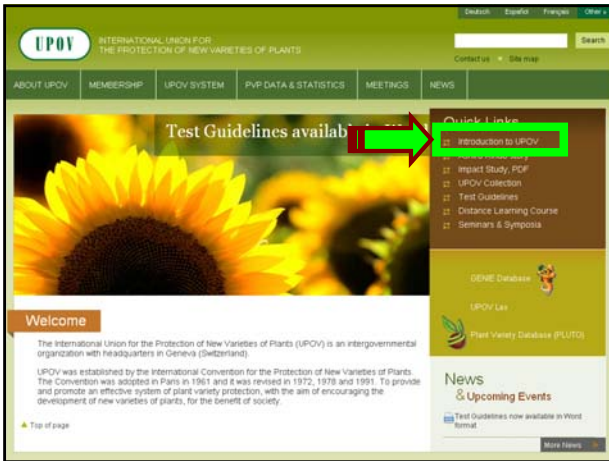
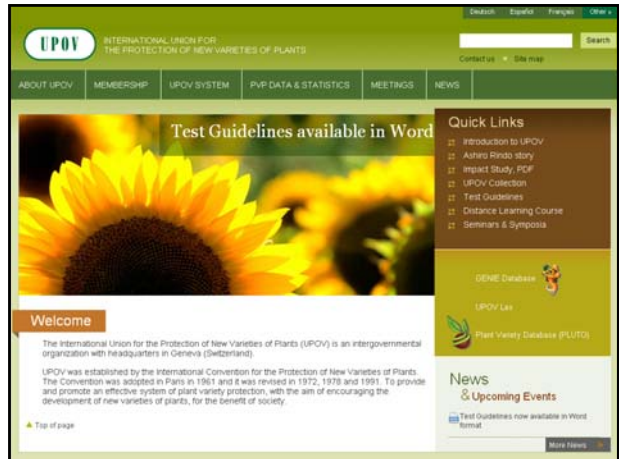
- illustrations of how **plant variety protection can improve incomes for farmers and growers** by supporting the development and supply of new, improved varieties that are suited to their needs
- examples of how farmers and growers can use **plant variety protection as breeders**

12

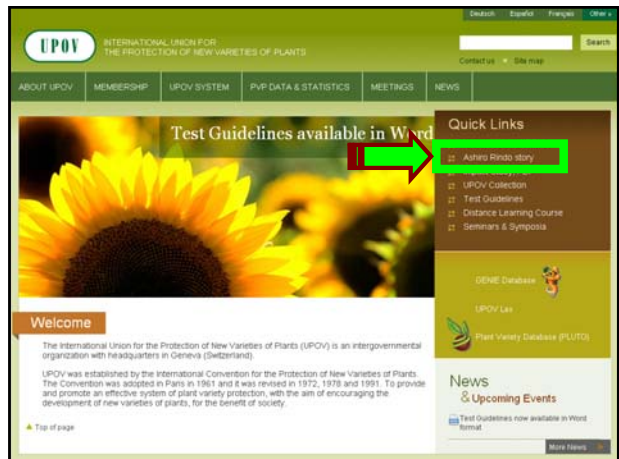
OVERVIEW

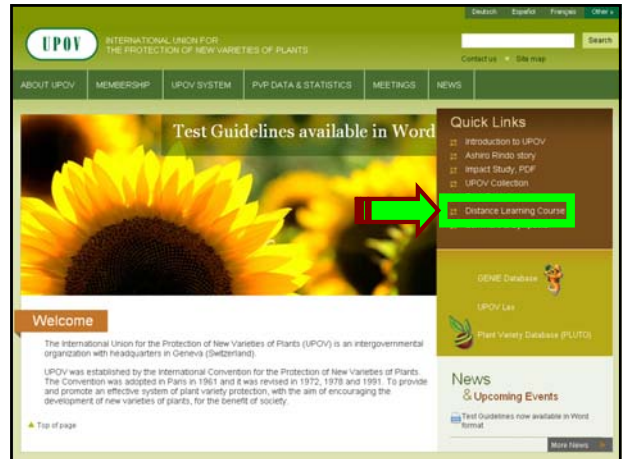
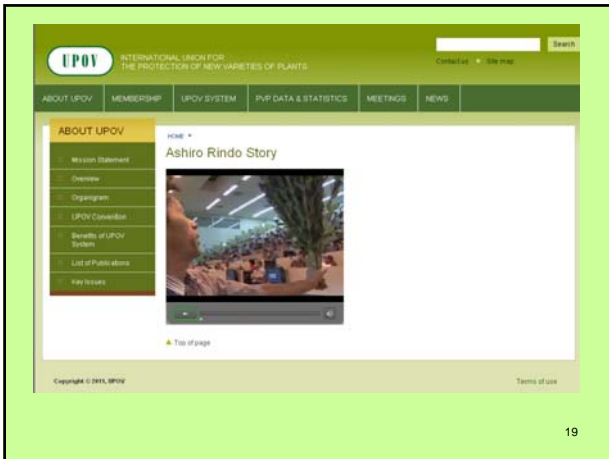
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13



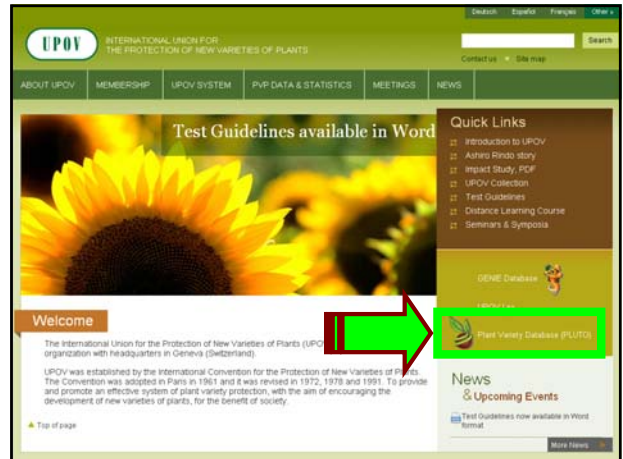
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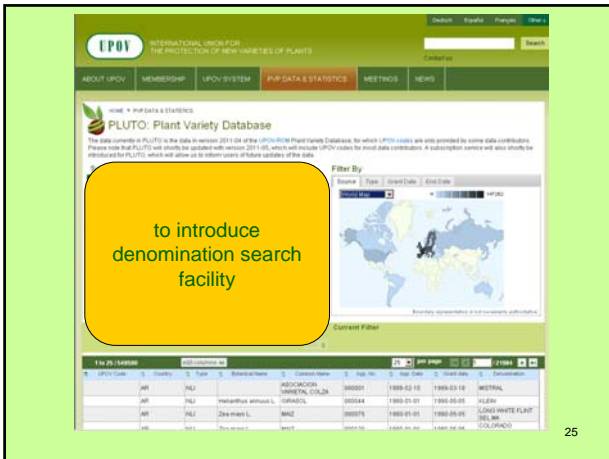




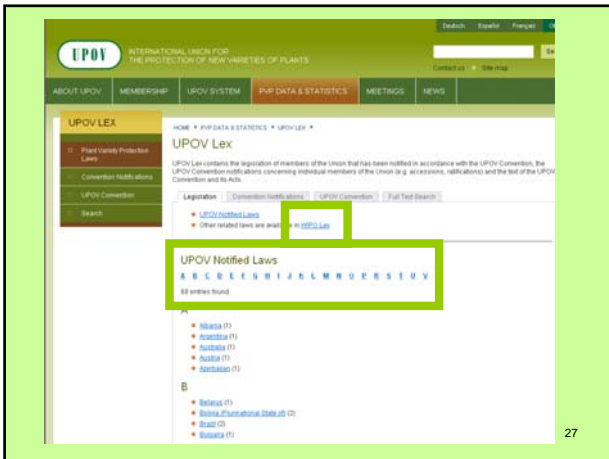
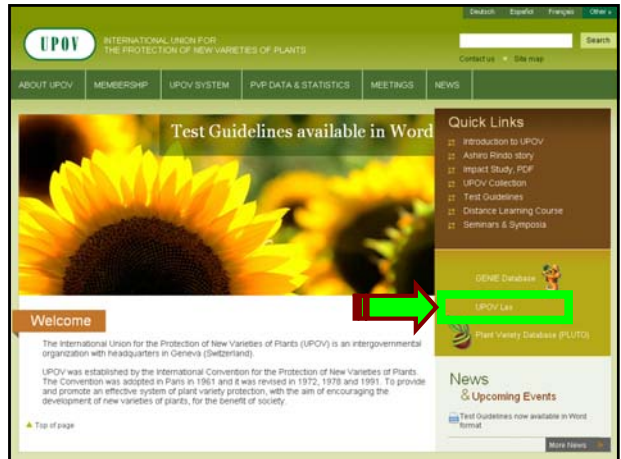
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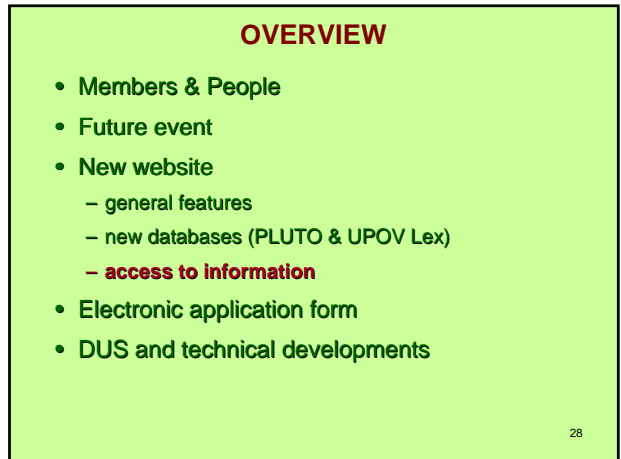




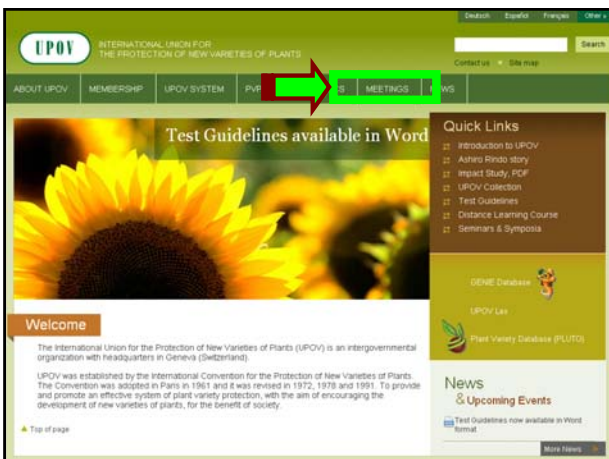
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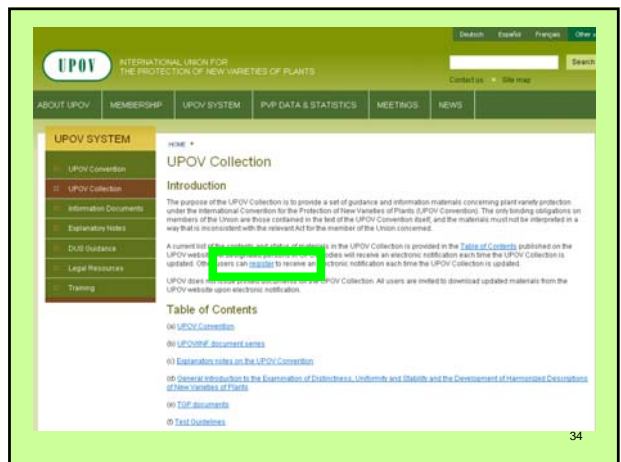
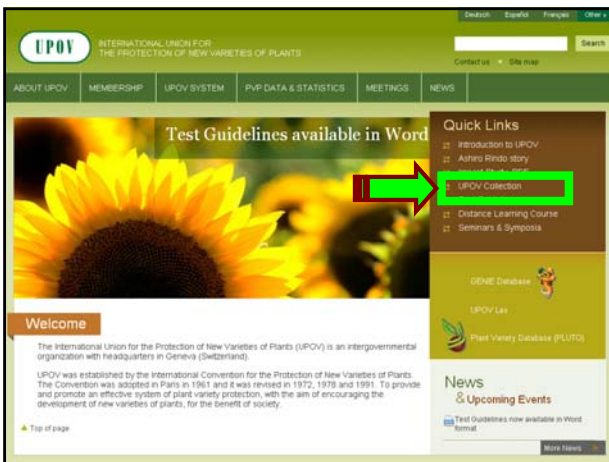
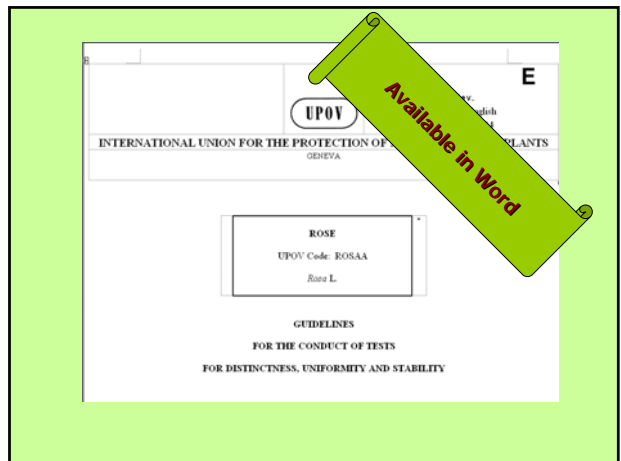
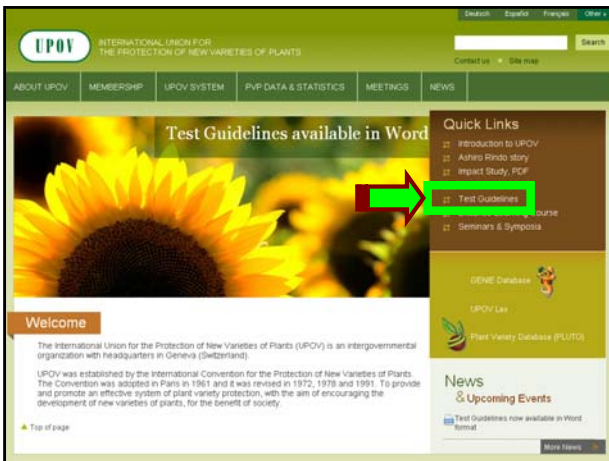
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28



30



UPOV Collection: physical collection



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 |

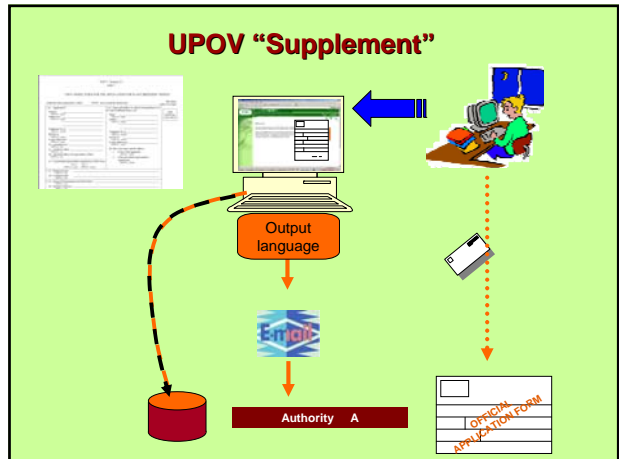
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38

UPOV Model Application Form: 2. Electronic Form

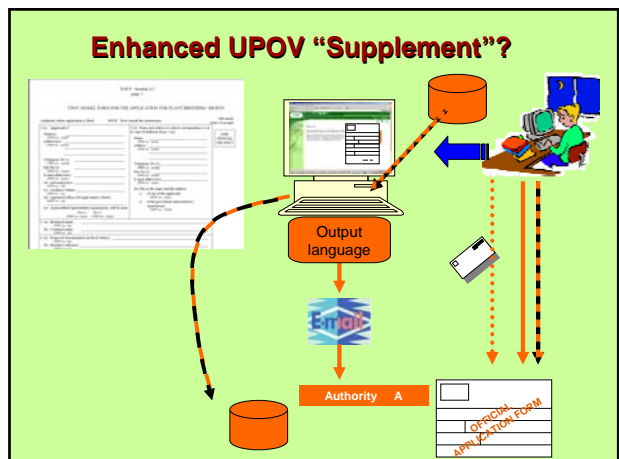
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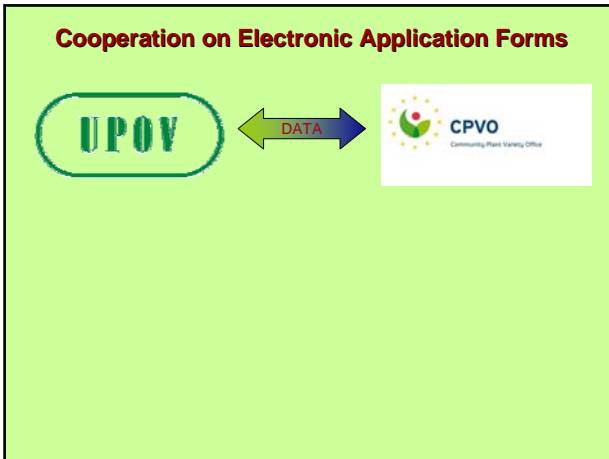


Meetings

- UPOV
- WIPO
- CPVO
- ISF

• Meetings held in August & December 2011





Meetings

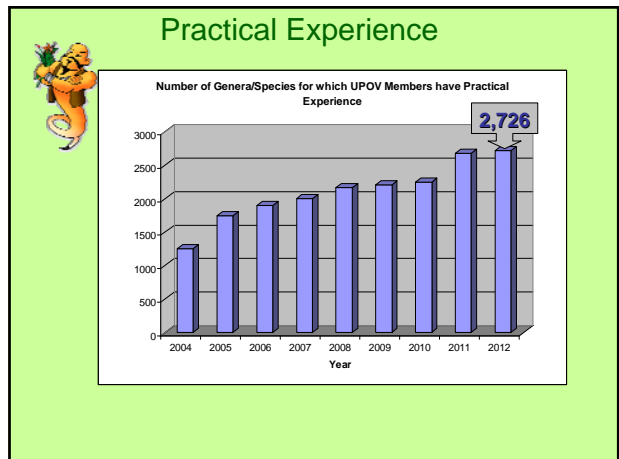
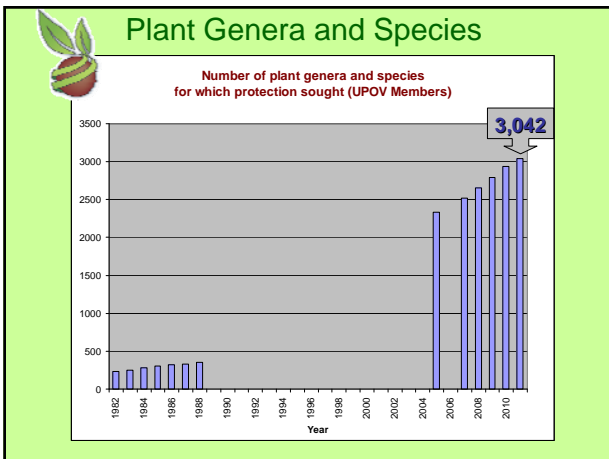
- UPOV
- WIPO
- CPVO
- ISF
- **CIOPORA**

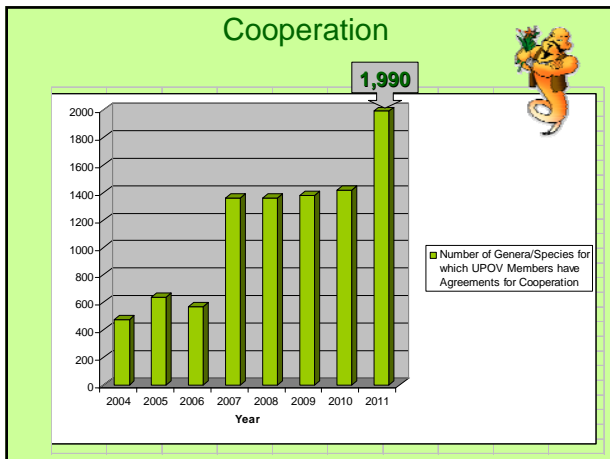
- Meeting: May 10, 2012 (Geneva – WebEx)

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 | |

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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

| | | |
|-----------|---------|---|
| 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> Sevest.) |
| 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

| | | |
|-----------|-----|--|
| 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

| | | |
|----|---------|---|
| 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

| | Tuesday | Wednesday | Thursday | Friday |
|--|---------|---------------|----------|---------|
| <ul style="list-style-type: none">• Molecular techniques• Use of DUS test reports by members of the Union | TC | TC | CAJ | CC |
| | 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

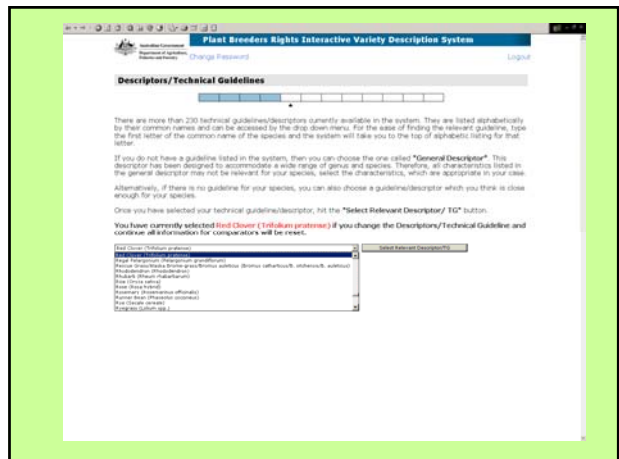
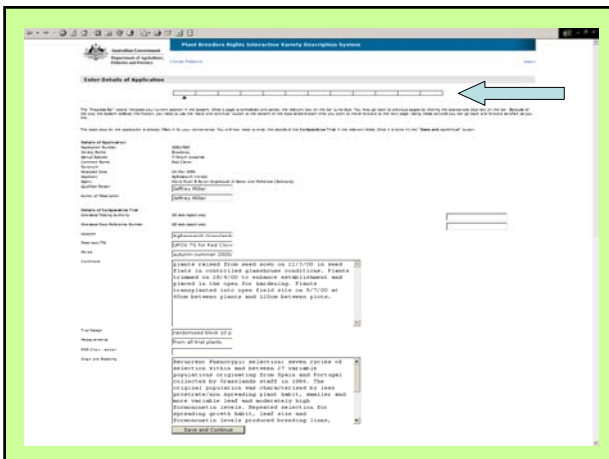
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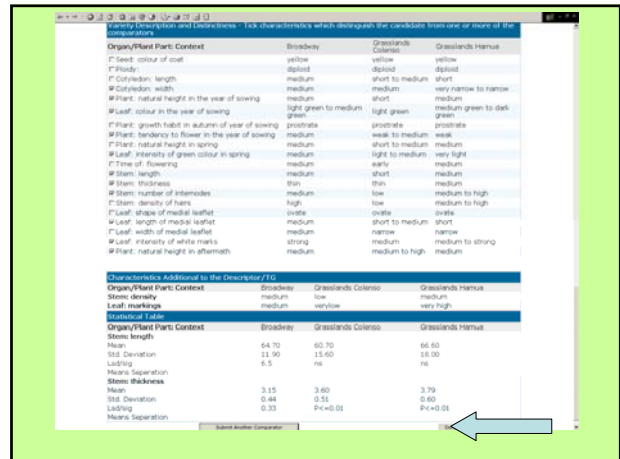
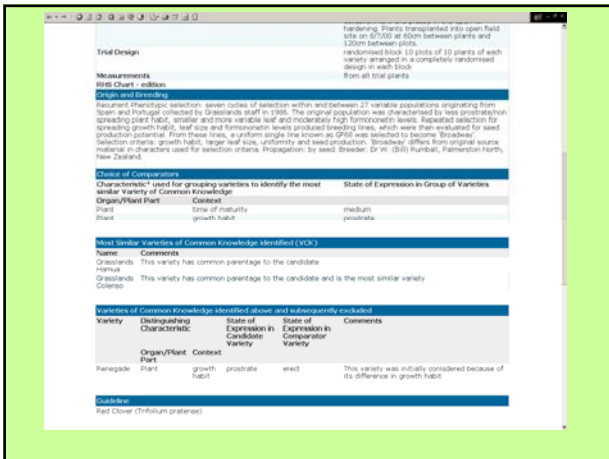
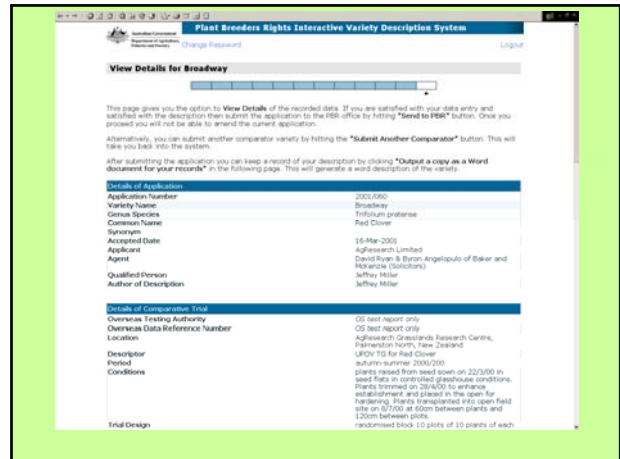
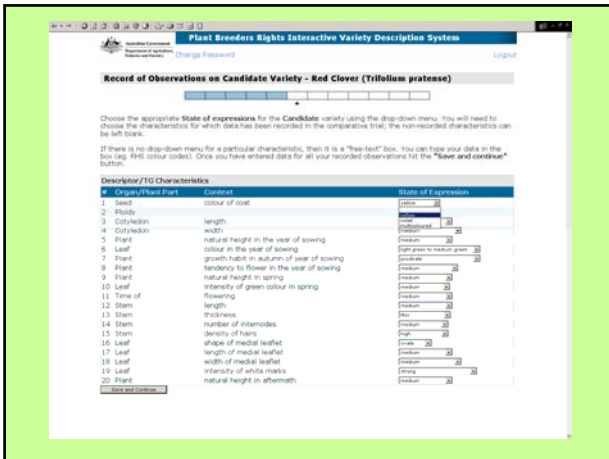
An existing example

- **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

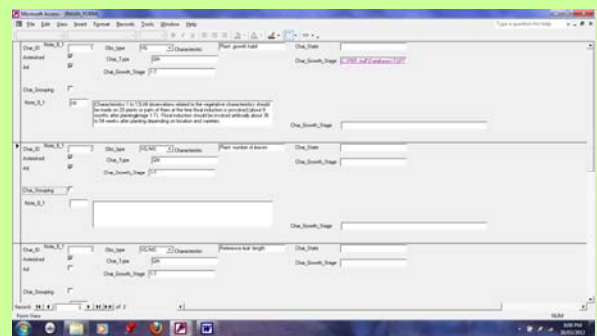


Table of characteristics

- 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