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.
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

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

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

UPOV Membership: territories covered
Roles within UPOV Bodies

<table>
<thead>
<tr>
<th>UPOV Body</th>
<th>Role</th>
<th>Person</th>
</tr>
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<tbody>
<tr>
<td>Council</td>
<td>President</td>
<td>Mr. Keun-Jin Choi (Republic of Korea)</td>
</tr>
<tr>
<td>Council</td>
<td>Vice President</td>
<td>Mrs. Kituri Sukapinda (United States of America)</td>
</tr>
<tr>
<td>CAJ</td>
<td>Chair</td>
<td>Mr. Lo Bo (China)</td>
</tr>
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<td>CAJ</td>
<td>Vice Chair</td>
<td>Mr. Martin Ekvad (European Union)</td>
</tr>
<tr>
<td>TC</td>
<td>Chair</td>
<td>Mr. Jeff Gallard (France)</td>
</tr>
<tr>
<td>TC</td>
<td>Vice Chair</td>
<td>Mr. Alejandro Barrientos Priego (Mexico)</td>
</tr>
<tr>
<td>TWA</td>
<td>Chairperson</td>
<td>Mrs. Robyn Hiere (South Africa)</td>
</tr>
<tr>
<td>TWC</td>
<td>Chairperson</td>
<td>Mr. Sami Markkam (Finland)</td>
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<td>TWF</td>
<td>Chairperson</td>
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New Staff

Leontino Taveira
Ben Rivoire

UPOV Structure

OVERVIEW

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

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
OVERVIEW

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OVERVIEW

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Free to all users

To introduce the possibility for contributors to the Plant Variety Database to provide information on dates on which a variety was commercialized for the first time in the territory of application and other territories
to introduce denomination search facility

OVERVIEW

- Members & People
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INFORMATION MATERIALS ADOPTED OCTOBER 2011

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<th>Reference</th>
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<td>UPOV/INF/6/2</td>
<td>Guidance for the preparation of laws based on the 1991 Act of the UPOV Convention (Revision)</td>
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<td>Possible use of Biochemical and Molecular Markers in the Examination of Distinctness, Uniformity and Stability (DUS)</td>
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<td>Experience and Cooperation in DUS Testing: Section 7/2</td>
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INFORMATION MATERIALS UNDER DEVELOPMENT

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<td>Alternative Dispute Settlement Mechanisms</td>
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<td>UPOVINF/15</td>
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<td>Propagation and Propagating Material</td>
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UPOV Model Application Form: 2. Electronic Form

UPOV “Supplement”

Meetings

- UPOV
- WIPO
- CPVO
- ISF

- Meetings held in August & December 2011

Enhanced UPOV “Supplement”?
Cooperation on Electronic Application Forms

Meetings
• UPOV
• WIPO
• CPVO
• ISF
• CIOPORA
• Meeting: May 10, 2012 (Geneva – WebEx)

Model Crops

OVERVIEW
• Members & People
• Future event
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Plant Genera and Species

Practical Experience
0
200
400
600
800
1000
1200
1400
1600
1800
2000

2004 2005 2006 2007 2008 2009 2010 2011

Year

Number of Genera/Species for which UPOV Members have Agreements for Cooperation

• **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**

**Genera and Species**

- **Shiitake** (*Lentinula edodes* (Berk.) Pegler)
- **Pineapple** (*Ananas comosus* (L.) Merr.)
- **Oncidium** (*Oncidium* Sw.)
- **Blue Honeysuckle** (*Lonicera caerulea* var. *edulis* Turcz. ex Freyn)
- **Honeyberry** (*Lonicera caerulea* var. *kamtschatica* Sevst.)
- **Heuchera** L., *Heucherella* H. R. Wehr
- **Hemp** (*Cannabis sativa* L.)
- **Echinacea** (*Echinacea* Moench.)
- **Canna** (*Canna* L.)
- **Buckwheat** (*Fagopyrum esculentum* Moench)
- **Kalanchoe** (*Kalanchoe blossfeldiana* Poelln. and its hybrids)
- **Black radish**, **Oriental radish** (*Raphanus sativus* L. var. *niger* (Mill.) S. Kerner)
- **Parsnip** (*Pastinaca sativa* L.)
- **Durum wheat** (*Triticum turgidum* L. subsp. *durum* (Desf.) Husn.)
- **Kiwifruit** (*Actinidia* Lindl.)
- **Black radish**, **Oriental radish** (*Raphanus sativus* L. var. *sativus*)
- **New Guinea Impatiens**
- **French Bean** (*Phaseolus vulgaris* L.)
- **New Guinea Impatiens**
- **Black radish**, **Oriental radish** (*Raphanus sativus* L. var. *sativus*)

**Test Guidelines adopted in 2012**

**NEW TEST GUIDELINES**

<table>
<thead>
<tr>
<th>Country</th>
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<tr>
<td>JP</td>
<td>TWA Buckwheat (<em>Fagopyrum esculentum</em> Moench)</td>
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<tr>
<td>FR</td>
<td>TWD Canna (<em>Canna</em> L.)</td>
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<tr>
<td>PL / GB</td>
<td>TWOTWV Echinacea (<em>Echinacea Moench</em>)</td>
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<tr>
<td>NL</td>
<td>TWA Hemp (<em>Cannabis sativa</em> L.)</td>
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<tr>
<td>CE</td>
<td>TWF Blue Honeysuckle (<em>Lonicera caerulea</em> var. <em>edulis</em> Turcz. ex Freyn) / Honeyberry (<em>Lonicera caerulea</em> var. <em>camtschatica</em> Sevst.)</td>
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<tr>
<td>JP</td>
<td>TWD Ondostium (<em>Ondostium Sce.</em>)</td>
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<tr>
<td>FR</td>
<td>TWF Pineapple (<em>Ananas comosus</em> (L.) <em>Meij.</em>)</td>
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<tr>
<td>JP</td>
<td>TWF Shiitake (<em>Lentinula edodes</em> (Berk.) Pegler)</td>
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**Test Guidelines adopted in 2012**

**REVISIONS**

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<tr>
<td>NZ</td>
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<td>AU / ES</td>
<td>TWA Durum wheat (<em>Triticum turgidum</em> L. subsp. <em>durum</em> (Desf.) Husn.)</td>
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<tr>
<td>GB</td>
<td>TWV Parsnip (<em>Pastinaca sativa</em> L.)</td>
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**PARTIAL REVISIONS**

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<tr>
<td>FR</td>
<td>TWWTWA French Bean (<em>Phaseolus vulgaris</em> L.)</td>
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<td>TWD New Guinea Impatiens</td>
</tr>
<tr>
<td>DE</td>
<td>TWF Black radish, <em>Oriental radish</em> (<em>Raphanus sativus</em> L. var <em>sativus</em>)</td>
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**TECHNICAL COMMITTEE**

**April sessions: 2002-2011**

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**TECHNICAL COMMITTEE**

**April session: 2012**

<table>
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<th>Day</th>
<th>TC</th>
<th>TC</th>
<th>CAJ</th>
<th>CC</th>
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</table>

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

THANK YOU

[ 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

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**

<table>
<thead>
<tr>
<th>Details include:</th>
<th>Rose</th>
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<tbody>
<tr>
<td>TG</td>
<td>TG/11/8</td>
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<tr>
<td>Char. Number</td>
<td>36</td>
</tr>
<tr>
<td>Organ</td>
<td>Petal</td>
</tr>
<tr>
<td>Context</td>
<td>undulation</td>
</tr>
<tr>
<td>State of expression</td>
<td>absent or very weak 1, 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</td>
</tr>
</tbody>
</table>
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

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@ipaustralia.gov.au
  - romy.oertel@upov.int

THANK YOU

[End of Annex II and of document]