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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

TECHNICAL WORKING PARTY FOR VEGETABLES

Fiftieth Session Brno, Czech Republic, June 27 to July 1, 2016

ADDENDUM TO

VARIETY DESCRIPTION DATABASES

Document prepared by an expert from France

Disclaimer: this document does not represent UPOV policies or guidance

The Annex to this document contains a copy of the presentation "Facilitating development of databases for DUS examination" to be made by an expert from France at the fiftieth session of the Technical Working Party for Vegetables (TWV).

[Annex follows]

TWV/50/6 Add.

ANNEX

Please see the pdf version

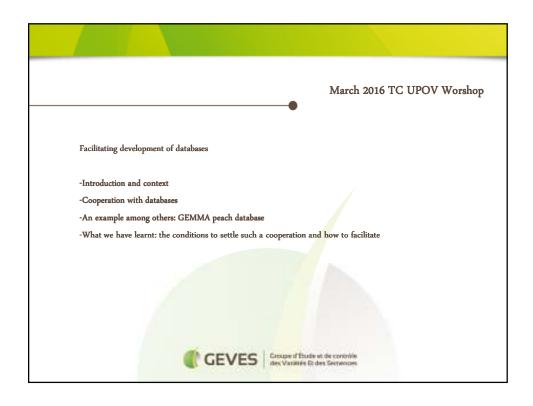
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ANNEX

FACILITATING DEVELOPMENT OF DATABASES FOR DUS EXAMINATION BY AN EXPERT FROM FRANCE





Facilitating development of databases Introduction and context

- DUS is based on worldwide reference collections →Distinctness = the key point of the DUS
- Limits: no one can pretend to have a complete worldwide reference collections
- →how to optimize ?

Centralize the DUS examination

cheaper, easier? Monopole, concentration of expertise, lack of information?



Work with an organized network of DUS examination offices

Requires organization and agreements to cooperate

In any case, need to strengthen the expertise of the examiner



GEVES Groupe d'Étude vi de contrôle des Varietée Et des Sertionoes

Facilitating development of databases

Cooperation with databases - a solution ? and how ?

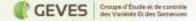
Work with an organized network of DUS examination offices

Requires organization and agreements to cooperate →A solution : merge the DUS expertises in a commun system, at disposal of each EO

International DUS Databases managed by EOs, collaborating to share data and to check the Distinctness together

- →- A community of EO's sharing the same approach of the Distinction criteria in terms of tools → common rules : an agreement and a commitment of the EOs
 - A data base with several data:

PHENOTYPE + PICTURES + MOLECULAR DATA[+ DNA] into a common database, shared on the internet



Facilitating development of databases

Cooperation with databases - Common procedure, commun rules

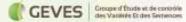
→Technical rules :

- 1. same way to note and to introduce data + all DUS characteristics or only the most reliable= a calibration book and ring tests if needed
- -2.common tool for DUS data

PHENOTYPE + PICTURES + MOLECULAR DATA[+ DNA] into a common database, shared on the internet

→ A procedure to check the Distinctness:

- -an agreement on how to check the Distinctness:
 - .inside its own DUS collection
 - , then, inside the common DUS database to:
 - i) define the set of closest varieties,
 - ii) check D at the end of each DUS cycle.



Facilitating development of databases

An example among others: GEMMA peach database

CPVO R&D project - CPV. 8648 (May 5, 2008 - May 4, 2011)

Management of peach tree reference collections

Participants

CITA (Zaragoza, Spain)

GEVES – coordinator (Cavaillon and Le Magneraud, France) INRA (Avignon, France) MgSzH (Budapest, Tordas, Helvécia Hungary) CRA-FRU (Roma, Italy) IVIA (Valencia, Spain)





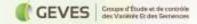








GEMMA http://gem.geves.info/gem/



Facilitating development of databases

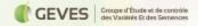
An example among others: GEMMA peach database

Data model

- To integrate different type of data (Molecular data + Digital pictures) whatever the couple Species/Country
- To support multi language
- To define access rights
- To manage different species

Web site approach

- Easier way to share data
- Easier to manage data such as digital pictures
- Possibility to provide some useful tools (ie: sorting, ...) automatically available for all users



Pacilitating development of databases An example among others: GEMMA peach database 1 / a phenotypical ring test. 2 / a common set of DUS characteristics 3 / a common calibration book A common choice of the data to include in the database: some DUS data, some administrative data, pictures A common tool: a web based database A common agreement how to feed the database how to use the database Work and collaboration still in progress, Not easy and not quick to build!



Facilitating development of databases

What we have learnt: The conditions to settle such a cooperation and how to facilitate

Many questions to be tackled in advance

- Technical AND political commitments of the Eos
- Preliminary calibration book and ring test
- Agreement to share PHENOTYPICAL date + PICTURES + [MOLECULAR DATA + DNA], in a common tool
- Common agreement to feed the database
- Common agreement to use the database
- Common decision rules

