

TWF/47/6 Add.
ORIGINAL: English

DATE: November 9, 2016

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS Geneva

TECHNICAL WORKING PARTY FOR FRUIT CROPS

Forty-Seventh Session Angers, France, November 14 to 18, 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 forty-seventh session of the Technical Working Party for Fruit Crops (TWF).

[Annex follows]

TWF/47/6 Add. ANNEX

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



March 2016 TC UPOV Worshop

Facilitating development of databases

- -Introduction and context
- -Cooperation with databases
- -An example: GEMMA peach database
- -What we have learnt: the conditions to settle such a cooperation and how to facilitate



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 et de contrôle des Variétés Et des Semences

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

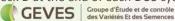
→Technical rules :

- 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

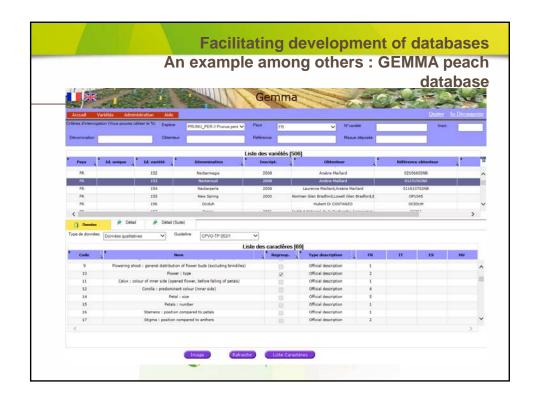
An example among others : GEMMA peach database

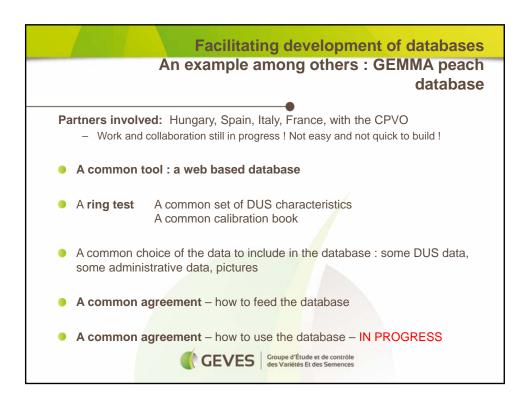
Partners involved: Hungary, Spain, Italy, France, with CPVO

- A common tool : a web-based database
 - To integrate different type of data (Molecular data + Digital pictures) whatever the couple Species/Country
 - To support multi langage
 - To define access rights

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







TWF/47/6 Add. Annex, page 5

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

Commitment of the EOs
Calibration book and ring test
Share a PHENOTYPE + PICTURES + [MOLECULAR DATA + DNA]
In a common tool

Common agreement to feed the database

Common agreement to use the database – common decision rules



