



BMT/13/17 Add.

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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
GENEVA

**WORKING GROUP ON BIOCHEMICAL AND MOLECULAR
TECHNIQUES, AND DNA-PROFILING IN PARTICULAR**

Thirteenth Session
Brasilia, November 22 to 24, 2011

ADDENDUM

GEMMA: A TECHNICAL WEB SITE TO SHARE DUS DATA [TWC/29/24]

Document prepared by experts from France

CPVO R&D project Phenotypic and Molecular Database



9- Phenotypic and molecular variety **database**

[GEMMA website](#)

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Data model



- A good starting point: the database structure developed for maize by Spain, Germany and France, in the frame of the programme CPV4961 supported by CPVO in 2003-2005
- Adapt this database structure
 - 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

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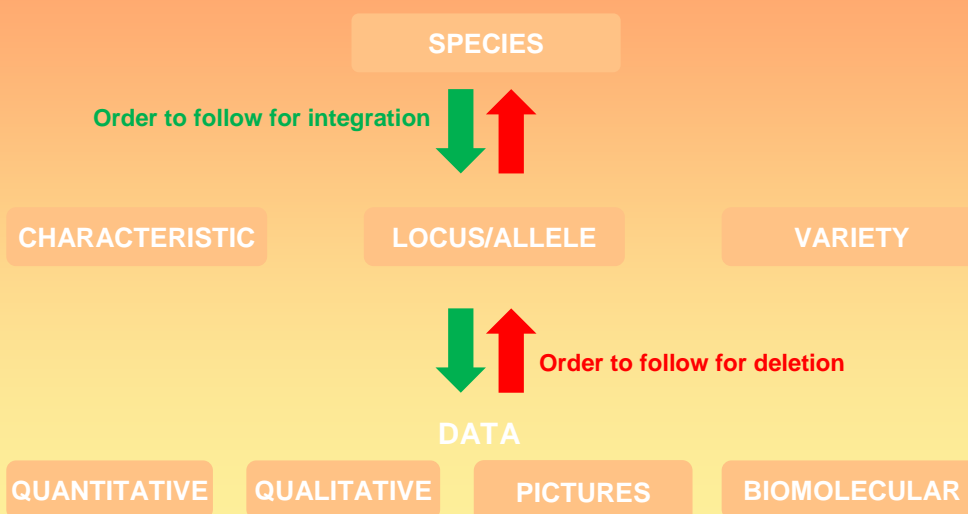
Excel format to import and export Data from Gemma



- Excel is user friendly and known by a wide community of users
- People don't need to know the structure of database to Import/Export
- People who use a central database to manage and store their DUS data can develop procedures to generate automatically the creation of Excel files for Gemma
- Allow more flexibility when modification of database model when needed

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Integrity of the database GEMMA



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Access rights to the database



- The system of rights access is based on 3 different levels
 - **Administrator:**
 - one data administrator per country and species with a specific Account/Password
 - management of his own data
 - display data from other country (same species) only with authorization
 - **User:**
 - restricted access that require a specific Account/Password
 - each user is created by an administrator
 - **Public:**
 - access that not require a specific Account/Password

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Access rights to the database



- The access level is defined by the data administrator (country/species) for each variety
 - **1 = Public access level:** everyone can see the variety
 - **2 = Restricted access level:** only user and administrators accounts defined by the data administrator of the couple Species/Country, will see the variety
 - **3 = Administrator access level:** only administrators accounts defined by the data administrator of the couple Species/Country, will see the variety

<http://gem.geves.info>

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[Gemma website



Thank you for your attention

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