

TWC/31/29
ORIGINAL: English

**DATE:** May 13, 2013

# INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

### TECHNICAL WORKING PARTY ON AUTOMATION AND COMPUTER PROGRAMS

Thirty-First Session Seoul, Republic of Korea, June 4 to 7, 2013

AIM: MANAGEMENT OF COLOR ANALYSIS

Document prepared by experts from France

- 1. The Technical Committee (TC), at its forty-ninth session, held in Geneva, from March 18 to 20, 2013, agreed with the recommendation of the Technical Working Party on Automation and Computer Programs (TWC) concerning the inclusion of the AIM software from France in document UPOV/INF/16, as set out in paragraph 19 of document TC/49/12 "Exchangeable software" (see document TC/49/41 "Report on the conclusions", paragraph 107).
- 2. The CAJ, at its sixty-seventh session, held in Geneva, on March 21, 2013, noted that it would be invited, at its sixty-eighth session, to be held in Geneva in October 2013, to consider a proposed revision of document UPOV/INF/16 "Exchangeable Software" (see document CAJ/67/14 "Report on the conclusions", paragraph 56).
- 3. The Annex to this document contains a copy of a presentation on AIM software that will be made to the TWC, at its thirty-first session, in order to provide further information concerning the use of the AIM software, for color analysis in France.
  - 4. The TWC is invited to note the information contained in Annex to this document.

[Annex follows]

#### ANNEX



Groupe d'Étude et de contrôle des Variétés Et des Semences

# **AIM**

# Management of Color Analysis

# Experience from France

June 4 to June 7, 2013 (Seoul, South Corea)



Groupe d'Étude et de contrôle des Variétés Et des Semences

# PROGRAM OF THE TALK

- ♣GENERAL ARCHITECTURE OF AIM APPLICATION
- **\***GENERAL PROCESS OF COLOR ANALYSIS
- **\***DETAIL OF THE COLOR ANALYSIS PROCESS
- DEMONSTRATION THROUGH AN SIMPLE EXAMPLE

C Chevaler - Aim - 4/05/2013



Groupe d'Étude et de contrôle des Variétés Et des Semences

## GENERAL ARCHITECTURE

The Aim application is based on the following architecture

A front office 
Graphic Interface written with the development tool Windev to manage studies (Declare, Retreive, Export, Calculate, Levels of agregation, ...)

A back office 
Image analysis software with the freeware Image J to define processing applied on images

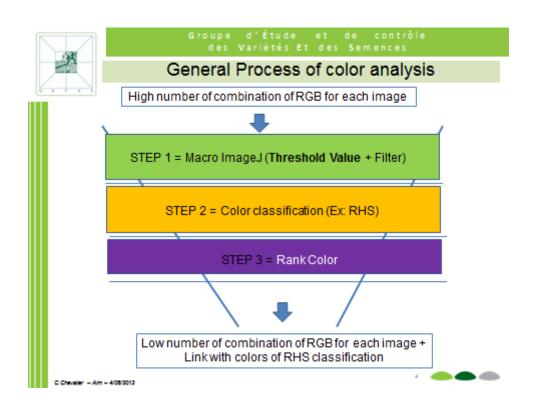
Database software with Hyperfile or Oracle to store data provide by the graphic interface and Image analysis

Front Office 

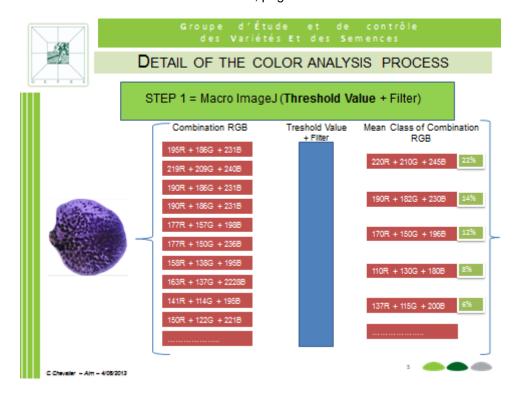
Database 
(Windex)

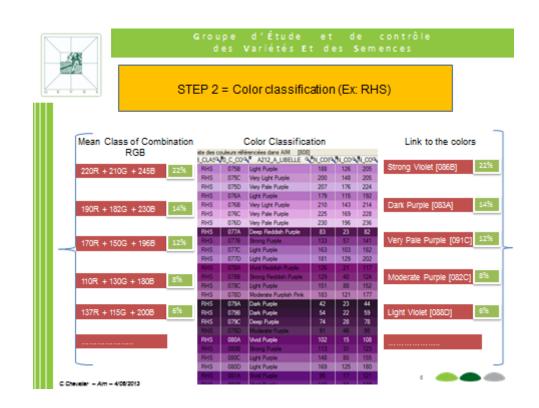
Image analysis

Front Office 
(Windex)



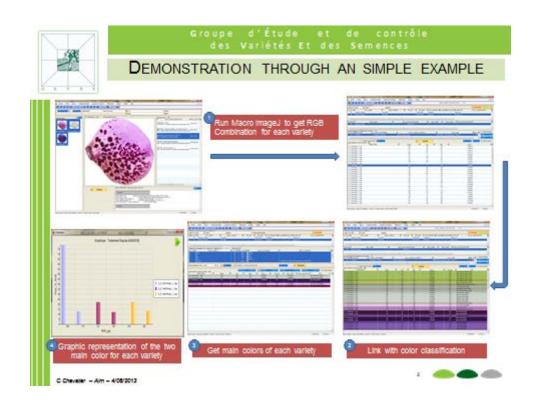
## TWC/31/29 Annex, page 3



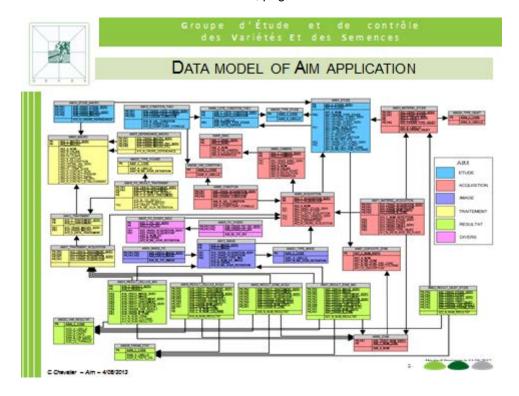


## TWC/31/29 Annex, page 4





# TWC/31/29 Annex, page 5



[End of Annex and of document]