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| International Union for the Protection of New Varieties of Plants |  |

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| Working Group on Biochemical and Molecular Techniques  and DNA-Profiling in Particular  Sixteenth Session La Rochelle, France, November 7 to 10, 2017 | BMT/16/11  Original: English  Date: October 17, 2017 |

AN ATTEMPT TO USE MOLECULAR MARKERS FOR WINTER WHEAT REFERENCE COLLECTION MANAGEMENT

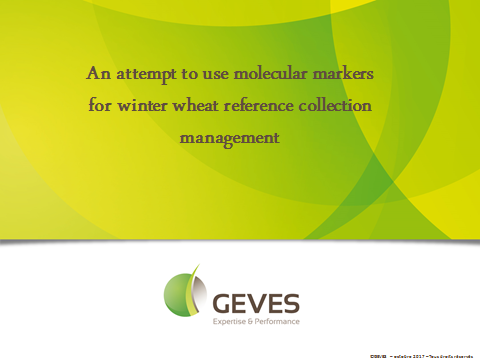
Document prepared by an expert from France

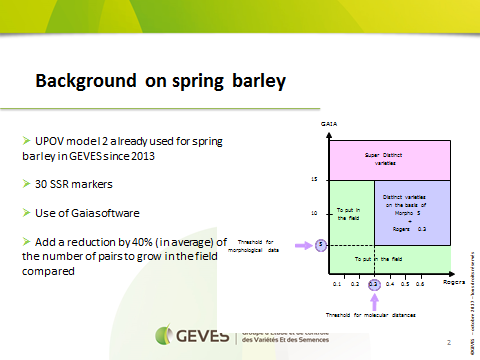
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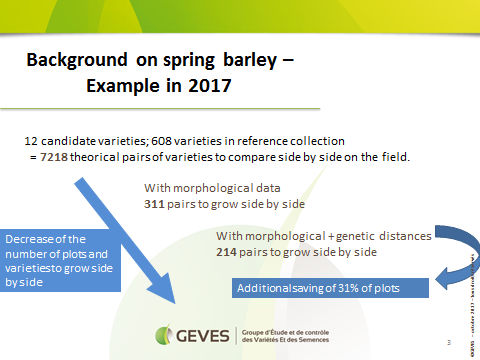
Some years ago, a set of SSR markers was selected by GEVES in the framework of varietal control. Considering the availability of this set and the large size of the reference collection of winter wheat to manage, GEVES decided to look at the possibility to combine phenotypic and genetic distances for the management of its reference collection. This method had already been developed in France for Spring barley.

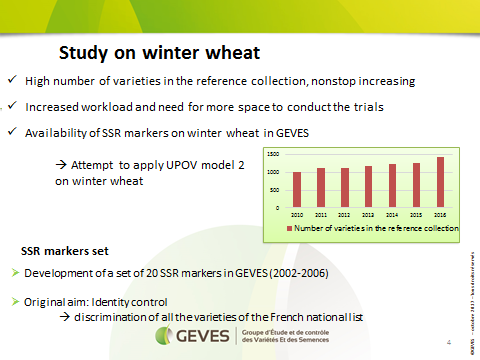
The results of this study show that, with the current set of markers, the use of genetic distance does not enable the size of field trials to be significantly reduced.

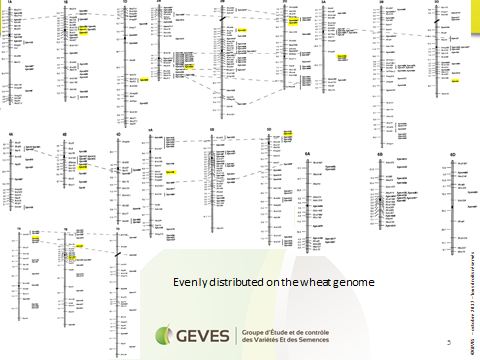
[Annex follows]

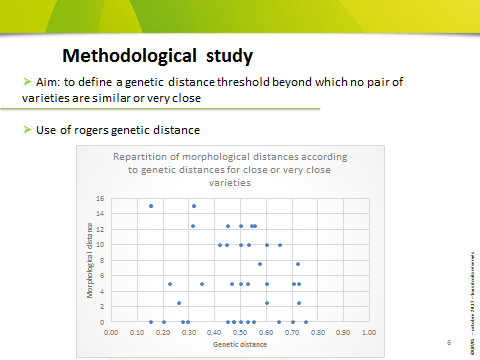


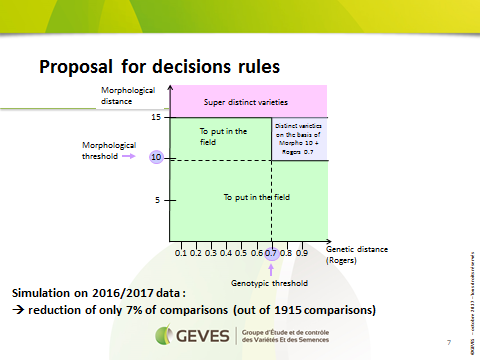


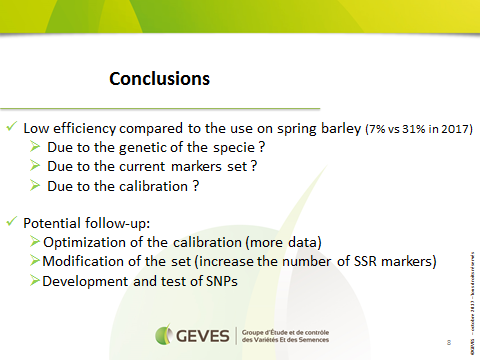


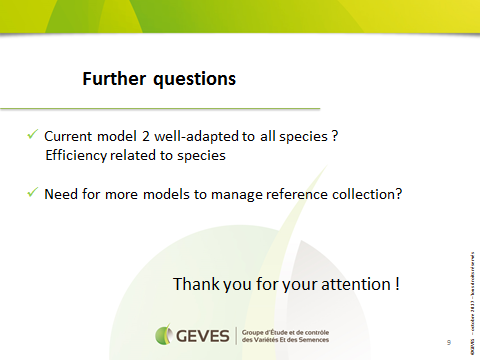












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