Food and Agriculture Organization of the United Nations

The International Treaty ON PLANT GENETIC RESOURCES FOR FOOD AND AGRICULTURE

Boosting the Big Data of Rice with Digital Identifiers

Tuesday 16 October 16.30-18.00 hours – Orchid Room4206 – Sands Expo and Convention Centre, Singapore.

In the era of big data, one of the significant challenges scientists and researchers face, as they work to improve performance and productivity, is the need to access information about germplasm quickly and efficiently. This is the case, whether they work on rice conservation in a genebank, on characterization and evaluation in the field or in laboratories, or working on rice breeding and training.

Some of the big steps forward that many sectors have taken recently rest on the application of standards to produce, store and share data. Such approaches facilitate collaborative research and scale up the value of datasets and the related products. This innovation pathway is what the Global Information System of the International Treaty on Plant Genetic Resources is now making possible through the assignation of Digital Object Identifiers to rice germplasm.

While scientists and researchers are all interested in securing funding for research and access to new rice material with desired traits for plant breeding, equally important is the related information. They want to benefit from automatic aggregation of related dataset across institutions and projects worldwide with a minimum effort. For years, they have been seeking better linkages between research datasets and scientific publications, and have been anticipating new data discovery functions and analysis tools to simplify their work. This event will illustrate some of the recent advancement on data aggregation in support of biodiversity conservation and use of rice and will provide examples and success stories in Asia.

This presentation will illustrate the advantages of the Digital Object Identifiers applied to rice material, and the new services that plant breeders and researchers are getting through the implementation of the Global Information System of the International Treaty and the way it is boosting big data services.

Detailed Programme

14:30 -Welcome

-**Introduction to the Global Information System for plant genetic resources**– Francisco López, Technical Officer, ITPGRFA, FAO

-Linking and discovering plant breeding material and associated information with Digital Object Identifiers. Marco Marsella, IT Specialist, ITPGRFA, FAO

-Regional collaborative project on the assignation of Digital Object Identifiers to rice accessions, Muhammad Sabran, ICABIOGRAD /IAARD, Indonesia

-The Use of Digital Object Identifiers in the Genebank Platform of the CGIAR, Ruaraidh Sackville Hamilton, IRRI

-Two Examples on Data Innovation

-Questions and answers

18:00