

2 potential upland rice varieties with 15 - 20% reduction in yield loss caused by low soil fertility in Madagascar

Project Title: P1678 - JIRCAS contribution to flagship project 5

Description of the innovation: 2 potential upland rice varieties with 15 - 20% reduction in yield loss caused by low soil fertility in smallholder farms developed and tested in farmer's fields (so the varieties are 15% and 20% better compared to a local variety under low-input management. Variety release proceedings are ongoing together with Malagasy counterpart organization FOFIFA but are delayed due to COVID-lockdown during the crucial reproductive stage inspection period.

New Innovation: Yes

Stage of innovation: Stage 1: discovery/proof of concept (PC - end of research phase)

Innovation type: Genetic (varieties and breeds)

Geographic Scope: National

Number of individual improved lines/varieties: 1

Country(ies):

- Madagascar

Description of Stage reached: Variety release proceedings are ongoing together with Malagasy counterpart organization FOFIFA but are delayed due to COVID-lockdown during the crucial reproductive stage inspection period.

Name of lead organization/entity to take innovation to this stage: JIRCAS - Japan International Research Center for Agricultural Sciences

Names of top five contributing organizations/entities to this stage:

- FOFIFA - Centre National de Recherche Appliqué au Développement Rural

Milestones:

- 5-10 elite breeding lines and/or varieties combining tolerance of two to three of the relevant stresses in the three ecosystems developed, having 25-50% reduction in yield losses
- Genetic gains at the end of the breeding cycle of 1% compared to 2016; 10 varieties released with 10% higher yield, and meeting national quality requirements, in intensive systems.

Sub-IDs:

- 11 - Adoption of CGIAR materials with enhanced genetic gains

Contributing Centers/PPA partners:

- JIRCAS - Japan International Research Center for Agricultural Sciences

Evidence link:

Deliverables associated: <Not Defined>

Contributing CRPs/Platforms:

- Rice - Rice