

Twenty elite upland rice breeding lines exceeding NERICA 4 in yield by more than 20% identified in Cote d'Ivoire

Project Title: P1669 - AfricaRice contribution to flagship project 5

Description of the innovation: In a yield trial conducted at Mbe, Cote d'Ivoire, 20 rained upland rice breeding lines were identified which out-yielded NERICA 4, the best check by more than 20% were selected and advanced for further testing.

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):

- Côte d'Ivoire

Description of Stage reached: Yield trials were conducted on-station in Cote d'Ivoire in 2019 and 20 lines were identified that exceeded the yield of NERICA 4, the best check by more than 20%. The lines were advanced for testing in multi-location trials with NARS partners.

Name of lead organization/entity to take innovation to this stage: AfricaRice - Africa Rice Center

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

- CIAT (Alliance) - Alliance of Bioversity and CIAT - Regional Hub (Centro Internacional de Agricultura Tropical)
- AfricaRice - Africa Rice Center

Milestones:

- 20, 15, 10% reduction in risk of yield loss in elite cultivars at the end of breeding cycle caused by factors induced by climate change, in mega deltas, rainfed lowlands, and uplands, respectively

Sub-IDs:

- 11 - Adoption of CGIAR materials with enhanced genetic gains

Contributing Centers/PPA partners:

- CIAT (Alliance) - Alliance of Bioversity and CIAT - Regional Hub (Centro Internacional de Agricultura Tropical)
- AfricaRice - Africa Rice Center

Evidence link:

- <https://tinyurl.com/ydlujp9l>

Deliverables associated:

- D27470 - Elite breeding lines identified for rainfed upland systems (**Marked as Confidential**)

Contributing CRPs/Platforms:

- Rice - Rice