



AFRICAN DEVELOPMENT BANK GROUP
GROUPE DE LA BANQUE AFRICAINE
DE DÉVELOPPEMENT

Technologies for African Agricultural Transformation



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Agricultural Transformation

ADVANCED RICE VARIETIES FOR AFRICA (ARICA LINES)

Arica rice, the high yield, disease and stress tolerant rice

TECHNOLOGY / SOLUTION



Arica varieties high-performing and locally adapted hybrid rice varieties. This new generation of improved germplasm is the successor of NERICA rice varieties.

Unlike its predecessor, ARICA varieties have multiple improved traits like high yield potential, tolerance/resistance to diseases such as blast, bacterial leaf blight, rice yellow mottle virus and pests. The varieties also withstand abiotic stresses like drought, flooding, iron toxicity, cold and salinity. These traits collectively make them ideal for responding to challenges that are faced by farmers in different agro-ecologies in Sub-Saharan Africa.



PROBLEM / ISSUE SOLVED

- Common rice varieties are vulnerable to disease and pests (blast, bacterial leaf blight, rice yellow mottle virus) and abiotic stresses (drought, flooding, iron toxicity, cold and salinity)
- Rice production is limited to the rainy season
- High market dependency on Asian rice imports
- Limited farmer access to improved rice seed varieties that are adapted to current climatic

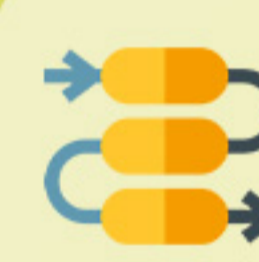


GOOD FOR
Seed growers
Small-scale farmers
Commercial farmers

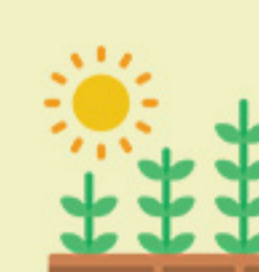


BENEFITS

- ✓ Multiplication and sales of hybrid rice varieties offers lucrative business opportunities for community-based and commercial enterprises
- ✓ Yield of ARICA 1, ARICA 2 and ARICA 3 is respectively 20 - 44%, 50 - 111%, and 2 - 69% greater than for NERICA-L 19 which is currently widely cultivated by SSA African farmers
- ✓ Provides benefits for both rainfed and irrigated rice cropping systems with multiple possible management practices, i.e., extensive or intensive fertilizer use, weed control measures, etc
- ✓ Gives farmers the ability to find a suitable fit for purpose variety



High yield, pest resistance & stress tolerance
Speciality



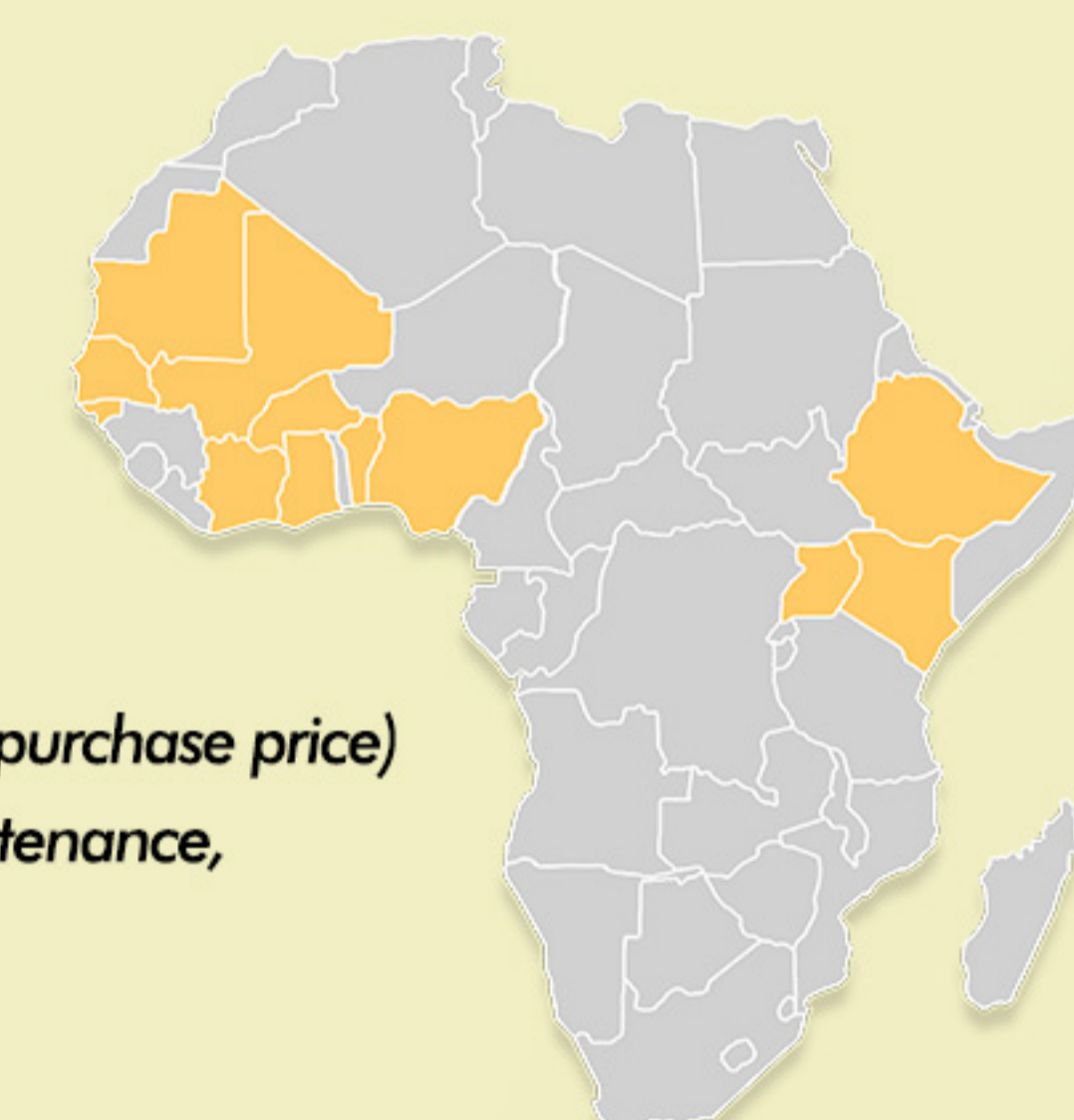
Rice
Commodity



US\$ 0.8 - 1.2 / Kg (seed purchase price)
US\$356 / ha (Planting, maintenance,
harvesting and winnowing)
Initial investment



40% increase in yield
Added value



Benin, Burkina-Faso, Ethiopia,
Gambia, Ghana, Guinea-Bissau,
Kenya, Ivory Coast, Nigeria,
Mauritania, Mali, Senegal, Uganda

HOW DOES IT WORK?

ARICA varieties are cultivated exactly like common rice varieties. For optimal results, follow best soil and fertilizer management prescribed for particular growing areas :

- These varieties can be planted manually or mechanically or through transplantation of seedlings from seedbeds into fields.
- Fields are usually divided into lines or rectangles by constructing bunds which increases rain water accumulation and improves drainage.

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More information here

