Continental Investment Plan for accelerating Rice Self-Sufficiency in Africa (CIPRiSSA):
Summary results
Outline

• Background of CIPRiSSA
• Methodology
• Priority Domains for Investment
• Estimation of Investment required
• Gains from Investment
• Perspectives
Background

Figure 1: Diagrammatic expression of rice demand versus local supply in Africa

- **2025 Consumption Need = 35 million t**
- **Gap = 13 million t**
- **Cost = $6 billion/yr**
- **Business as Usual = 22 million t**
Background of CIPRiSSA

• In this context, AfricaRice was mandated by its Council of Ministers and the African Development Bank (AfDB) to establish a Continental Investment Plan for Accelerating Rice Self-Sufficiency in Africa (CIPRiSSA)

• CIPRiSSA aligns with Feed Africa agenda, Comprehensive Africa Agriculture Development Programme (CAADP) and the Malabo Declaration
Background of CIPRiSSA

- CIPRiSSA aims to:
  - Accelerate and sustain self-sufficiency in rice in Africa
  - Contribute to food security;
  - Identify priority segments of the RVC for investment;
  - Identify additional investment along the rice value chain
  - Enhance involvement of Private Sector
  - Contribute job & wealth creation
  - Enhance Africa’s market share in global rice trade
Methodology of CIPRiSSA

Pilot with 10 Countries
Methodology of CIPRiSSA

- Continental plan but country specific
- Ministers nominated country Focal Persons (FP) to work with AfricaRice
- Development and validation of a data collection tool
- FP organizes collection of data in country and analysis with AfricaRice

- Two models (ERIS and COMFAR)
- Financial and economic analyses were done
- Key information produced:
  - Timelines for Self-Sufficiency
  - Country-specific investment needs
  - Gains from investments
  - Benefits-costs ratio (BCR) – US$ spent versus some projected profits
  - Modified internal rate of return (MIRR)
  - Contribution to GDP and employment creation
Rice Self-Sufficiency is Possible by 2020: Facts & Figures

Figure 2: Beginning and Closing Self-Sufficiency Ratios in the Countries

<table>
<thead>
<tr>
<th>Year</th>
<th>Rice, Production Milled Equivalent ('Million Mt)</th>
<th>Rice, Food consumption (Milled Equivalent) (Million t)</th>
<th>Self Sufficiency Ratio</th>
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Figure 3: Beginning and Closing Self-Sufficiency Ratios in the Countries
1. **Fertilizer**
2. **Seed**
3. **Machine/equipment**
4. **Marketing/upgrading**
5. **Technology transfer/capacity building**

**Figure 4: Estimation of investment in priority areas for all countries**
Annual Additional Investments Required for All 10 Countries (US$ million)

Figure 5: Total investments per year for the 10 countries

Total non-irrigation Investment (US$ million)  Total new irrigation investment (US$ million)  Total investment (US$ million)


Costs (Million of US$)

Requirements in Investment for all 10 Countries

TOTAL INVESTMENT REQUIRED FOR 10 COUNTRIES: US$ 2.7 Billion

Figure 6: Total investments until 2025
Gains from New Investments

Additional milled rice

Expected additional production from the 3 ecologies (million t) 11.7
Expected additional production from rainfed lowland (million t) 4.1
Expected additional production from irrigated (million t) 3.3
Expected additional production from rainfed upland (million t) 4.3

Foreign exchange savings

Total Foreign exchange savings (US$ million) 2,675
Annual Foreign exchange savings (US$ million) 334

Figure 7A: Impact on milled rice
Figure 7B: Saving of foreign exchange

Additional Milled Rice: 11.7 million ton
Foreign exchange gain: US$ 2.7 billion
Figure 8: Number of beneficiaries per ecology

- Lowland rice farming households targeted ('000): 5,373
- Irrigated rice farming households ('000): 4,839
- Upland rice farming households targeted ('000): 6,604

NUMBER OF BENEFICIARIES: 17 Million

Farming Households Targeted for Each Ecology
Dividends from CIPRiSSA investments

Figure 9: Benefice-Cost ratio (BCR) of CIPRiSSA investments
Dividends from CIPRiSSA investment

Figure 10: Net Present Value (NPV) of CIPRiSSA investments

Benefits (Million of US$)

Net Present Value (NPV) - under optimistic scenarios - under pessimistic scenarios

Figure 10: Net Present Value (NPV) of CIPRiSSA investments
Figure 11: Contribution to GDP

NET PROFIT: US$ 2.1 Billion

CONTRIBUTION TO GDP: US$ 2.8 Billion

Gross Domestic Product (GDP)
Net National Value (contribution to national welfare)
Perspectives

• Develop CIPRiSSA for other Africa countries
• Conduct *road-shows* – AfricaRice, AfDB, World Bank (other interested development agencies) – presentation of results and potential funding facilities to key stakeholders and govt authorities Min Agric & finance (Done in 2 countries: Senegal and Uganda)
• Development of project and identification of public & private sector investments with major global and regional players government and local private sector actors
• Install a support Unit of CIPRiSSA at AfricaRice
We thank all our partners for their financial and technical to the CIPRiSSA

Thank you