Initiative of the Coalition for African Rice Development (CARD)

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Contents of presentation

• Why rice?
  Justification for promotion of rice production in Africa

• Outline of CARD

• Achievements and the way forward
1 Why rice?

Maize

Rice (Milled)

Sorghum

Wheat

Production
Consumption
Potential for increased rice production

Area and yield per unit area of rice in Africa

Area and yield per unit area of rice in Asia

3.14 mil. t → 14.60 mil. t (+370%)  
2.5 mil. ha → 8.2 mil. ha (+230%)  
1.24 t/ha → 1.78 t/ha (+40%)  

200 mil. t → 570 mil. t (+190%)  
107 mil. ha → 137 mil. ha (+30%)  
1.86 t/ha → 4.16 t/ha (+120%)
### Production increase scenario by agro-ecological zones

<table>
<thead>
<tr>
<th>Year</th>
<th>Irrigated field</th>
<th>Rain-fed lowland</th>
<th>Rain-fed upland</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 Cultivated land area (ha)</td>
<td>2 Yield per unit area (t)</td>
<td>3 Production (1x2) (t)</td>
</tr>
<tr>
<td>2002/06 (average)</td>
<td>1,460,000</td>
<td>3.40</td>
<td>4,964,000</td>
</tr>
<tr>
<td>2017</td>
<td>1,730,000</td>
<td>5.00</td>
<td>8,650,000</td>
</tr>
<tr>
<td>Increase</td>
<td>x 1.17</td>
<td>x 1.47</td>
<td>x 1.74</td>
</tr>
</tbody>
</table>

### Grand total

<table>
<thead>
<tr>
<th>Year</th>
<th>10. Cultivated land area (1+4+7) (ha)</th>
<th>11. Yield per unit area (12/10) (t/ha)</th>
<th>12. Production (3+6+9) (t)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2002/06 (average)</td>
<td>7,340,000</td>
<td>1.94</td>
<td>14,246,000</td>
</tr>
<tr>
<td>2017</td>
<td>9,730,000</td>
<td>2.93</td>
<td>28,550,000</td>
</tr>
<tr>
<td>Increase</td>
<td>x 1.33</td>
<td>x 1.51</td>
<td>x 2.00</td>
</tr>
</tbody>
</table>
Production and Self-sufficiency Rate of Rice in Africa
2 Outline of the Coalition for African Rice Development (CARD)

Goal of the Initiative
Double rice harvest within 10 years from the present production of 14 million tons to 28 million tons

Approaches classified by agro-ecology
- Irrigated Field
  Rehabilitation of Existing Irrigation Facilities, Strengthening of Water User’s Association
- Rainfed Lowland
  Establishment of Rice Development Model
- Rainfed Upland
  Expanding of NERICA Dissemination

Cameroon, Ghana, Guinea, Kenya, Madagascar, Mali, Mozambique, Nigeria, Senegal, Sierra Leone, Tanzania, Uganda

Implementation Framework
- AfDB, AGRA, FAO, FARA, IFAD, IRRI, JICA, JIRCAS, NEPAD, WARDA, WB
- IWMI, UNDP, USAID, WFP, etc

1st Group of countries for intervention

Steering Committee

Supporting Partners
Approaches of CARD

» Approach by Agro-Ecology

CARD will promote rice farming according to three agro-ecological zones: irrigated field”, “rain-fed lowland” and “rain-fed upland”

» Value Chain Approach

CARD will promote the development of a rice value-chain, including post-harvest processing, marketing and trading

» Capacity Development Approach

CARD will promote and support training for researchers, extension officers and key farmers engaged in rice cultivation

» South-South Cooperation Approach

CARD will seek to utilize the know-how of Asian and other rice producing countries
Countries of CARD activities

1st Group
Cameroon, Ghana, Guinea, Kenya,
Madagascar, Mali, Mozambique, Nigeria, Senegal,
Sierra Leone, Tanzania and Uganda

2nd Group
Benin, Burkina Faso, CAR, Côte d’Ivoire,
DR Congo, Liberia, Rwanda, The Gambia and Togo
Features of CARD

- **A CONSULTATIVE GROUP** of bilateral and multilateral donors and African and international institutions
- **Aims at DOUBLING RICE PRODUCTION** in Sub-Saharan Africa by 2017
- **Fully respects AFRICAN OWNERSHIP AND LEADERSHIP** (i.e. CAADP)
- **COORDINATES AND HARMONIZES** donor interventions for efficient and effective investment
- **Facilitates NEEDS RESOURCE MATCHING** of African rice-producing countries
- **NOT A FUNDING MECHANISM**
3 Achievements and the way forward

<table>
<thead>
<tr>
<th>Preparation of National Rice Development Strategies (NRDS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Review of the national rice sector</td>
</tr>
<tr>
<td>• Challenges and opportunities</td>
</tr>
<tr>
<td>• Priority areas and approaches</td>
</tr>
<tr>
<td>• Vision and scope of NRDS</td>
</tr>
<tr>
<td>• Strategies for rice sub-sector</td>
</tr>
</tbody>
</table>
Target number of extension workers as expressed in NRDS
Target number of researchers and research technicians as expressed in NRDS

- Cameroon: 8 researchers and technicians
- Ghana: 8 researchers and technicians
- Sierra Leone: 8 researchers and technicians
- Nigeria: 8 researchers and technicians
- Kenya: 8 researchers and technicians
- Tanzania: 8 researchers and technicians
- Mali: 8 researchers and technicians
- Uganda: 8 researchers and technicians

Research technicians: 
- Cameroon: 0
- Ghana: 0
- Sierra Leone: 0
- Nigeria: 0
- Kenya: 0
- Tanzania: 0
- Mali: 0
- Uganda: 0

Ag researchers with MSc, Mphil, PhD: 
- Cameroon: 0
- Ghana: 0
- Sierra Leone: 0
- Nigeria: 0
- Kenya: 0
- Tanzania: 0
- Mali: 0
- Uganda: 0

Research technicialns

Target number of researchers and research technicians as expressed in NRDS
## Rice Related and Rice Centered Projects

<table>
<thead>
<tr>
<th>Country Name</th>
<th>Total number of rice related project (A)</th>
<th>Number of rice centered project (B)</th>
<th>Ratio of rice centered project (B)/(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cameroon</td>
<td>11</td>
<td>5</td>
<td>45 %</td>
</tr>
<tr>
<td>Ghana</td>
<td>14</td>
<td>11</td>
<td>79 %</td>
</tr>
<tr>
<td>Guinea</td>
<td>23</td>
<td>15</td>
<td>65 %</td>
</tr>
<tr>
<td>Kenya</td>
<td>16</td>
<td>10</td>
<td>63 %</td>
</tr>
<tr>
<td>Madagascar</td>
<td>37</td>
<td>20</td>
<td>54 %</td>
</tr>
<tr>
<td>Mali</td>
<td>44</td>
<td>23</td>
<td>52 %</td>
</tr>
<tr>
<td>Mozambique</td>
<td>17</td>
<td>7</td>
<td>41 %</td>
</tr>
<tr>
<td>Nigeria</td>
<td>19</td>
<td>11</td>
<td>58 %</td>
</tr>
<tr>
<td>Senegal</td>
<td>29</td>
<td>19</td>
<td>66 %</td>
</tr>
<tr>
<td>Sierra Leone</td>
<td>14</td>
<td>7</td>
<td>50 %</td>
</tr>
<tr>
<td>Tanzania</td>
<td>9</td>
<td>7</td>
<td>78 %</td>
</tr>
<tr>
<td>Uganda</td>
<td>17</td>
<td>7</td>
<td>41 %</td>
</tr>
<tr>
<td>Regional</td>
<td>18</td>
<td>10</td>
<td>56 %</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>268</strong></td>
<td><strong>152</strong></td>
<td><strong>57 %</strong></td>
</tr>
</tbody>
</table>
### An Example of Working Paper Format: Matching between Strategic Needs in NRDS and On-going Aid Programmes

<table>
<thead>
<tr>
<th>Policy/Institutions</th>
<th>Infrastructure</th>
<th>Agricultural Inputs</th>
<th>Capacity Development</th>
<th>Rice Research</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PR4-182. conduct baseline survey &amp; develop M/P &amp; A/P</td>
<td></td>
<td>Repackaging of fertilizer into appropriate smaller packages to ensure easy access</td>
<td>PR1-1. CD of farmers through formulation of CEO for advocacy to the designing of a food security</td>
<td>FR7-4. Adaptive research &amp; surveys</td>
</tr>
<tr>
<td>PR10-4. facilitate access of credit for all activities</td>
<td></td>
<td>- Facilitate the supply and maintenance of equipments through PPP</td>
<td>PR1-2. CD of MoFA executives in policy making</td>
<td>FR14-1. Rice seed production</td>
</tr>
<tr>
<td><strong>Seed production &amp; dissemination</strong></td>
<td>- Amendment of the national seed law</td>
<td>- Rehabilitation of existing &amp; provision of new infrastructure such as cold storage, warehouses, nurseries</td>
<td>- Development of human capacity for breeding &amp; seed certification</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Overseeing the production of certified seed by the private sector &amp; farmer seed growers</td>
<td>- Establish quality control &amp; testing facilities for quality assurance.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>FR8-1. Dissemination</td>
<td>NERICA</td>
<td>PR5-1. Improve drought tolerance of rice</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Rice growing</strong></td>
<td>- Water measuring devices for improved usage</td>
<td>- Irrigation &amp; water control investment</td>
<td>FR13-1. Establish the construction method of farmland &amp; simple irrigation facilities</td>
<td>PR3-3. CD of GIDA staff for planning &amp; implementation of the training on irrigated</td>
</tr>
<tr>
<td><strong>Irrigated</strong></td>
<td>PR3-1 &amp; 2. Establish legal system for farmer participation in irrigation system management</td>
<td>PR8-3. Develop small-scale irrigation &amp; water conservation schemes</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PR8-1. Improve GIDCA’s efficiency &amp;</td>
<td>PR9-3. Develop small-scale irrigation</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
JICA’s Rice-related Technical Cooperation Projects and the 1st group of countries for CARD

Type of technical cooperation projects classified by targeted
Rice production system : Irrigation Reinfed lowland Reinfed upland
1st Group of countries for CARD
2nd group of countries for CADR
Cooperation Scheme : (T) Technical Cooperation (G) Grant Aid (L) ODA Loan (E) Individual Expert

Senegal
(T) Project on Improvement of Productivity of Village Irrigation Scheme in the Valley of Senegal (plan, the date of start has not yet been fixed)
(G) Irrigation program for the area in establishment of Podor (Plan)

Sierra Leone
(T) Agricultural Development Project in Kambia District (2009.7-2013.4 Plan)

Guinea
(T) Development Study for Sustainable Rural Development in Middle and Upper Guinea(2008.7-2011.6)

Mali, Burkina Faso, Nigeria, Cameroun
Preparation study for cooperation will be implemented (2009.7)

Liberia/Côte d’Ivoire
Making of project for a large region will be implemented with World Bank (2009.6～)

Ghana
(T) Project for Sustainable Development of Reinfed Lowland Rice Production (2009.7–2014.6)

Uganda
(T) NERICA Dissemination Project
(T) Sustainable irrigated Agriculture Development Project in Eastern Uganda
(G) Assistance to Establish the Regional NERICA Rice Research and Training Center at National Crop Resource Institute

Kenya
(L) Irrigation Project in Muea (Plan)

Tanzania
(T) Technical Cooperation for Supporting Service Delivery System of Irrigated Agriculture (2007.6-2012.6)
(T) Sub-Programme for Formulation and Training of the prefecture guidelines on Irrigation Scheme Development (2007.2-2010.1)

Madagascar
(T) Project for rice productivity improvement (2009.1-2014.1)
(G) Project for the Improvement of the Irrigation facility in South West of Lake Aloatra (Plan)
(L) Management and Irrigation of South West of Lake Aloatra (Plan)

WARDA(ARI)
(E) Seed Increase/Cultivation (2005.3-2011.3)

Type of rice production system classified by targeted:
Reinfed lowland Reinfed upland

1st Group of countries for CARD
2nd Group of countries for CADR

Cooperation Scheme:
(T) Technical Cooperation (G) Grant Aid
(L) ODA Loan (E) Individual Expert
Thank you for listening