



From hundreds to thousands of farmers for a sustainable intensification of key farming systems in southern Mali: Phase 2 - Africa RISING Scaling Program



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Africa RISING West Africa Review and Planning Meeting
1 – 2 February, 2017
Accra, Ghana





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Introduction

- Agricultural production conditions are insecure even though agriculture is the main activity of 80% of people and contribute to national wealth (35% of GDP).
- Growing complexity of problems with harmful effects of climate change on agricultural production and productivity.
- Emergency to bring suitable solutions to ensure food security, to improve farmers' income and to « boost » national economy.
- It is important to disseminate widely and greatly suitable and varied technologies of Africa RISING phase 1 and others projects implemented in the regions.
- Economic, nutritional, socio-cultural and environmental scopes are to be considered for scaling and further to adoption.



Knowledge and lessons learned in phase I (1/3)

Theme I: Partnerships and socio-economics of intensification

- 4 technological Parks established
- 4 functional innovative platforms
- Dissemination of technological innovation through visits and trade fair
- Stakeholders network mapping and market opportunity exploration

Theme II: Integrated systems improvement

- Successfully implemented agronomic practices under different agro-ecological conditions
- Selection of suitable and adapted varieties of seeds (maize, sorghum, cowpea, groundnut, legumes).



Knowledge and lessons learned in phase I (2/3)

Theme III: Intensifying livestock and integrated crop- livestock production

- Successful tests of Veterinary care and small ruminants feeding (ILRI)
- Introduction and promotion of straw-cutter
- Successful tests of fodder trees introduction and dual-use crop growing

Theme IV: Land, soil and water management

- Local conventions for natural resources management
- Production of better approaches of water management in watershed (contours banding)
- Marking of 30 Km of pastoral trail



Knowledge and lessons learned in phase I (3/3)

Theme v: Nutrition, food storage, value addition and mycotoxin management

- Implementation and equipment of 12 support groups for nutrition
- Introduction of new meals based on local agricultural products to fight against malnutrition of children, pregnant and nursing women
- Organisation of 24 meetings for nutritional appeal in 2016
- Capacity building of the 12 support groups by training and monitoring



What to do for scaling? (1/4)

- ① Spreading of sustainable natural resources management technologies implemented as technological packages in the districts of Sikasso, Koutiala, Bougouni, Yorosso (10'000 farmers to reach per year)
 - Land and water management by scaling up widely vegetative contour bands techniques using watershed approach
 - Agroforestry technologies by introducing domesticated tree species for multiple uses (field fertilization, erosion control, nutrition, animal feeding): *Adansonia digitata*, *Tamarindus indica*, *Vitellaria paradoxa*, and *ziziphus Mauritania*
 - Local convention for planning natural resources management including pastoral trails in the intervention communes
 - Competition organization between communities to stimulate innovations adoption



What to do for scaling? (2/4)

- ② Scaling up food security and nutrition technologies based on local agricultural products developed during phase 1 in the Cercles of Sikasso, Koutiala, Bougouni, Yorosso, (10'000 households to reach per year)
- Use of marketable gardening varieties
 - Promotion the use of both vegetables and agroforestry species (tomato, aubergine, okra, tamarind, baobab, moringa)
 - Veterinary care and complementary feeding for small ruminant (developped by ILRI and Partners)
 - Use of improved seed varieties, adapted to areas (maize, sorghum, groundnut, cowpea). **Technology: sweet sorghum, dual purpose sorghum**
 - Organization of nutritional clusters in connection with community health centres and rural communes.
 - Training of trainers (AMEDD, AMASSA, CAAD, GRAADECOCOM, HELVETAS, LUXDEV, FENAB, service extension and social health et structures) in collaboration with IER, AVRDC, ICRISAT...



What to do for scaling? (3/4)

- ③ Make access to services and resources to rural households easier through organizing value chains and building of business relationship (10 services centres supported, creation of 50 cooperative and private aggregation centres):
- Strengthening of agricultural services centres (like CSA-Karagola) for local production and sale of biopesticides and organic fertilizer improved with phosphate and limestone
 - Make easier the access to inputs for producers easier through promoting innovative systems of supply (D-MASS approach)
 - Facilitate the access to credit and market by producers, through the better organization of aggregation centres managed by cooperatives or private companies (D-MASS model)



What to do for scaling? (4/4)

- ④ Facilitate the access to water for rural women easier by setting up and using climate smart agricultural water lifting solutions.
Technology: Solar pumped wells near vegetable gardens (10 vegetable gardens in Bougouni and Koutiala)
 - Equipment or renovation work of market gardens with solar dewatering
 - Training of women in managing these equipment for durability and renewal
 - Training of women on cultural practices of food processing and preparing (cereals and legumes combinaison)

- ⑤ NGOs capacity building (AMASSA, GRAADECOCOM, CAAD, LUXDEV, HELVETAS, FENAB, CRCR, AOPP), other extension and farmers' organizations leaders for the technological packages widely dissemination



What strategy to scaling up widely? (1/2)

- Identification of needed technology packages by farmers through communities workshops in villages and districts (criteria: advantages, feasibility, integration, resilience, nutrient).
- Use of technology parks as training centres where demonstration fields will also be implemented with researchers centres help
- Cluster approach for training on technological packages choice (agriculture, livestock farming, agroforestry and nutrition).
- Identification and capacity building of farmers leaders, agricultural services providers and NGOs.
- Development of agricultural products value chains by building a better relationship between farmers, farmers group and market actors.



What strategy to scaling up widely? (2/2)

- Involvement of financial institutions, private service and institutional buyers.
- Interaction with health centres, « Women and children hospital » in Koutiala in nutrition activities to perpetuate knowledge (collaboration agreement).
- Collaboration with others NGOs (AMASSA, GRAADECOCOM, CAAD, FENAB), state technical services, regional authorities, communes.
- Relationships with platforms for the monitoring and evaluation and knowledge sharing between farmers, and between farmers and researchers.
- Partnership with local radios and televisions for technologies dissemination
- Use of innovative communication and training system for farmers (videos farmers to farmers, voice messages, telephone).



What operational measures ? (1/2)

- Intervention in each Circle in Sikasso region.
- Creation of producer groups in each village and communes about production and sale of agricultural products → **the market access with good product, the way for more income**
- Capacity building of producers following the cluster approach.
- Linking with others stakeholders for inputs supply and market access.
- Collaboration agreement between financial institution (Eco Bank, BNDA, Soro Yiriwaso, Kafo Jiginew) and the project Africa RISING.
- Organization of workshops “cercles” for exchanges between farmers and for the feedback to researchers (new challenge for additional research)



What operational measures ? (2/2)

- Given its experience and strategic position, AMEDD can lead the scaling up component of Africa RISING phase 2
- AMEDD interact (and will interact more) with other NGOs and extensions services (AMASSA, FENAB, CAAD, GRAADECOM), to reach a critical number of producers (more than 30'000 during phase 2)
- Capacity building of other organizations about the technology scaling up model (training program, tools, planning method, monitoring and evaluation)
- Promotion of AMEDD's experience in facilitating innovative platforms (continuation of the work « Research for Development »)
- Integration of the Africa RISING project with others AMEDD's projects



Existed projects and program in AMEDD for synergie with Africa RISING phase 2

| Projects | Nbr farmers | Sites | Main partners |
|---|-------------|---|--|
| Intensification agro-écologique des systèmes de production | 20'000 | Koutiala, Yorosso, Nandome | FLD, GERES, CSA |
| D-MASS | 11'000 | Koutiala, Sikasso, Yorosso | AGRA, AMASSA, DNA, EcoBank, BNDA, MDS, PAM |
| MLTSP | 15'000 | Koutiala, Sikasso | ILRI, IER, SNV, |
| Un Monde Sans Faim | 16'500 | Yorosso | DVV, AVRDC, DNA |
| DRYDEV | 54'909 | Yorosso | ICRAF, Sahel Eco, AMASSA, OXFAM |
| Take cowpea to scale | 15'000 | Koutiala | IITA, IER, CRS, |
| WASH | 40'000 | Sikasso, Bougouni, Koutiala | AVRDC, DNACPN, DNS, MDESES, Councils |
| Increasing Groundnut Productivity of Smallholder Farmers | 32'000 | Koutiala, Yorosso, Bougouni, Kadiolo, Yanfolila | ICRISAT, IER, DNS |
| Videos for farmers | 7'000 | Bougouni, Sikasso, Koutiala | Access Agriculture |
| Improving cereals-legumes systems through valuing farmers' knowledge in interaction with research | 25'000 | Tominian, Yorosso, Koutiala, Burkina | McNight Foundation |



AMEDD's advantage

- **Knowledge of areas:** extensive knowledge of local issues and challenges, knowledge of institutional stakeholders at the national and local level, strong credibility, knowledge of the socio-cultural environment.
- **Accumulation of experiences about technologies spreading:** Test of approaches, projects and initiatives since 1998, creation and facilitation of multiple stakeholders platforms.
- **Projects and approaches integration:** Possibility to link different experiences.
- **Wide coverage of production areas:** presence of office and/or partner organization in the large production areas, strong relationship with farmers' organization.
- **Human abilities and infrastructures:** experienced team, appropriate equipment for large-scale dissemination; available infrastructure in each cercle.



What potentiel in AMEDD to achieve the goal ?

- **Infrastructure and human ressources:**
 - Koutiala office:
 - Work space for the site coordinator of Africa RISING
 - Work space for some agents from researchers centers
 - Multidisciplinary team : a specialist food security and nutrition (Pierre Coulibaly), a value chain and innovation platform specialist (Arouna Bayoko), multi-skilled advisors for nutrition and others technologies dissemination
 - A great consultant network, NGOs, and researchers for specific thematic trainings
 - Bougouni office:
 - Work space for the site coordinator of Africa RISING
 - An operational team for advice and technologies dissemination
- **Financial position:**
 - Good position with 27 projects financed by foundations and others donors



Presentation of AMEDD (1/2)

- NGO create and implement development projects/programs based on the 3 pillars of sustainable development (ecology, economy, social)
- A total of 27 development projects in 2016
- Areas of work:
 - Research (agricultural and social sciences)
 - Food and nutritional security
 - Education
 - Health
 - Water, hygiene, sanitation
 - Environment and climate change
 - Local economic development



Presentation of AMEDD (2/2)

Sites in Mali:

- Head office in Koutiala
- Offices: Bougouni, Bamako, Sikasso and Yorosso

Working team:

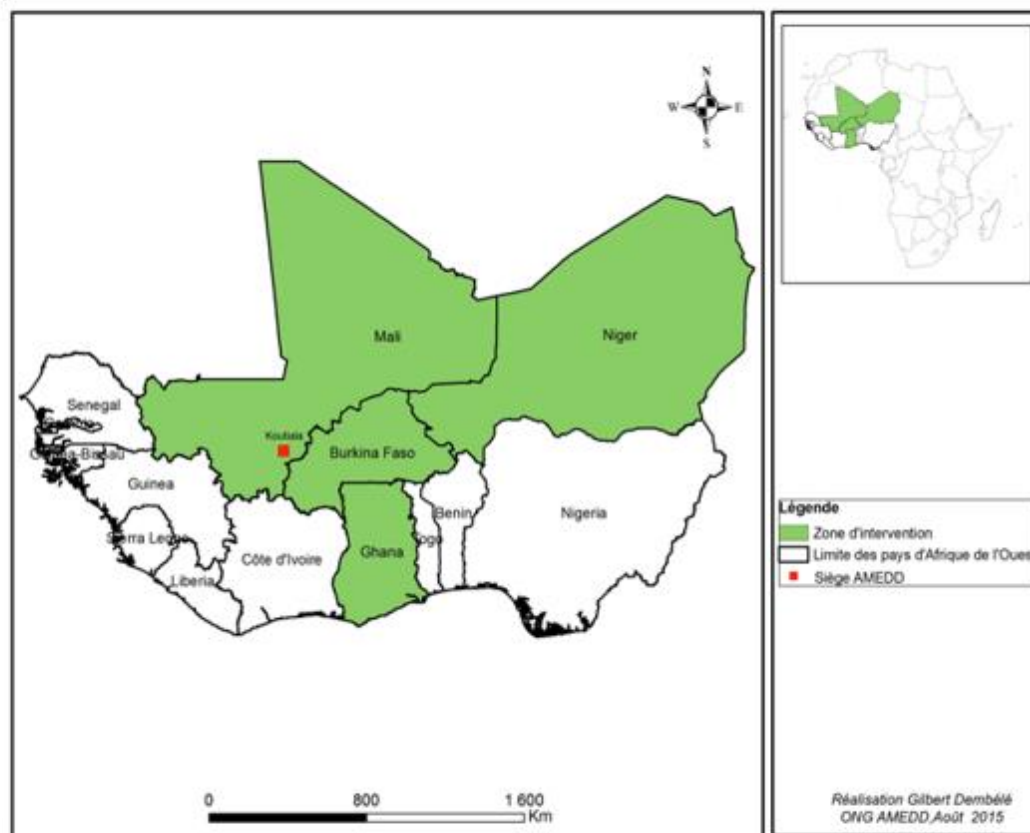
- 85 permanent employees
- 20 interns

Car park:

- 6 4x4 vehicles
- 125 Motos

Annual budget

900 276 050 F CFA





Thank You

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