European Union / IFAD-funded project on south-south collaboration for rice mechanization in Africa

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On behalf of AfricaRice, FARA, IRRI







Project objective

Promote agricultural mechanization in production, processing, storage and marketing innovations in rice-based systems by establishing a platform for decentralized South-South collaboration in the context of CARD







Project components, outputs, achievements (1/6)

| Activity | Outputs | Achievement |
|--|---|--|
| Launching workshop at AfricaRice (AfricaRice, NARS partners, FARA, IRRI) | Needs assessments for agricultural mechanization and available technology in Africa matched and identification of 'technology gaps' to be sourced in Latin America and Asia | In-country experts are currently finalizing a rice mechanization needs assessment, with funds provided from the Emergency Rice Initiative funded by the Government of Japan. So far, Benin, Burkina Faso, the Democratic Republic of Congo, Madagascar, Mali and Niger have submitted full reports. |







Project components, outputs, achievements (2/6) Activity Outputs Achievement

| Activity | |
|----------------------------|--------------|
| Identification of national | A functiona |
| and regional agricultural | implementa |
| mechanization | for agricult |
| 'champions' in sub- | mechaniza |
| Saharan Africa from the | based syst |
| public and private sectors | |
| (AfricaRice, FARA, IRRI) | Saharan A |
| | |

al platform and ation framework tural ation for ricetems in subfrica is established in the form of an 'Africa-wide Rice Mechanization Task Force' convened by AfricaRice.

Africa-wide Rice Mechanization Task Force established and functional - 28 members (private and public sectors), in 19 countries.

Focal points in each country identified.

Workplan developed and implemented.

Trained 14 artisanal fabricators of agricultural equipment on use and maintenance of power tillers and accessories, and motorized reapers.







Countries involved in the Africa-wide Rice Mechanization Task Force

• NARS (19 institutions)

Benin (INRAB/PTAA), Burkina Faso(INERA/IRSAT), Cameroun (IRAD), Côte d'Ivoire (ANADER/CFMAG), DR Congo (INERA), Ethiopia (EIAR/ARARI), The Gambia (NARI), Ghana (CSIR/MOFA-AESD), Guinea Bissau (INPA), Madagascar (FOFIFA), Mali (IER), Niger (INRAN/IPDR), Nigeria (NCRI), Rwanda (RAB), Senegal, (SAED/CRA), Sierra Leone (SLARI), Tanzania (DRD), Uganda (NARO).

• Private sector (5 fabricators)

Ghana (GRATIS-FOUNDATION), Senegal (AGRITECH), Côte d'Ivoire (AFCF), Nigeria (HANIGHA), Mauritania (MSA).









Activities of the Africa-wide Mechanization Task Force



agronomists/post-harvest

ATRICARICE



Partnership

Project components, outputs and achievements (3/6)

| Activity | Outputs | Achievement |
|----------------------|--------------------|---|
| Organization of | Exchange visits | Visit to Brazil: 8-15 March, 2014; Coordinated |
| exchange visits by | help match needs | by EMBRAPA and AfricaRice. |
| African agricultural | assessments in | 15 rice mechanization experts and equipment |
| mechanization | sub-Saharan Africa | fabricators from AfricaRice, Uganda, Mozambique, |
| experts from public | with available | Madagascar, Senegal, Mali, Mauritania, Nigeria |
| and private sectors | technology in Asia | and Ghana, IRRI, AfricaRice and FARA. |
| to Latin America | and Latin America | Visited: EMBRAPA, CDA rice industry, Two-river |
| and Asia | | farm, Rice industry in Cooperlago and 10 |
| (AfricaRice, IRRI) | | Agricultural equipment manufacturing companies |
| | | in Brazil. |
| | | |
| | | African stakeholders initiated linkages and |
| | | partnerships for the exchange of knowledge, |
| | | technologies and business on small machineries |
| | | for the smallholder rice production systems in |
| Rice Co. | | Africa. |







Visit of African mechanization experts to Brazil, March 2014







RANDRIANAIVO Romule Josep



Project components, outputs and achievements (4/6)

| Activity | Outputs | Achievement |
|---|---|--|
| Organization of exchange visits by African agricultural mechanization experts from public and private sector to Latin America and Asia (AfricaRice, IRRI) | Exchange visits help match needs assessments in sub- Saharan Africa with available technology in Asia and Latin America | Visit to Thailand: 14-23 July, 2014. Coordinated by IRRI and AfricaRice. 16 mechanization experts from 11 African countries (Benin, Burkina Faso, Ethiopia, Ghana, Niger, Nigeria, Rwanda, Sierra Leone, The Gambia, Senegal, and Tanzania), FARA, IRRI, and AfricaRice visited rice value chain actors in Thailand. The visitors interacted with 12 organizations, including research centers, seed companies, agricultural equipment manufacturers, rice processors, and rice exporters. -> African stakeholders initiated linkages and partnerships for the exchange of knowledge, technologies and business on small machineries for the smallholder rice production systems in Africa. |



AfricaRide



Visit to Kubota Thailand









Project components, outputs, achievements (5/6)

| Activity | Outputs | Achievement |
|-----------------|-----------------------|---|
| Facilitation of | A functional 'open' | FARA's consultant established the CARD |
| inter- | inter-continental | mechanization platform and facilitated online |
| continental | public-private sector | consultation on the platform. |
| public-private | partnership on | Online consultation commenced on 5 February, |
| sector | agricultural | 2014 and is still ongoing. It has facilitated intensive |
| partnerships | mechanization is | interaction between mechanization stakeholders |
| on agricultural | established and | across the world and continues after the project |
| mechanization | accessible on the | ended. |
| - using rice as | FARA website – | The D-Group (researchers, extension, farmers, |
| an entry point | linked for rice- | equipment fabricators, equipment dealers, |
| under the | | development practitioners interested in small |
| GFAR | | machineries, relevant NGOs and the private sector) |
| umbrella | | is functioning as a community of practice for |
| (FARA) | | agricultural mechanization and currently has 100 |
| | | members. |







Project components, outputs, achievements (6/6)

| Activity | Outputs | Achievement |
|----------------------------|---------------------------|---|
| Facilitation of inter- | A functional 'open' | Membership of the platform is open. |
| continental public-private | inter-continental public- | |
| sector partnerships on | private sector | The online consultation involves more |
| agricultural | partnership on | than 150 agricultural research and |
| mechanization – using | agricultural | development stakeholders from 18 |
| rice as an entry point | mechanization is | countries. |
| under the GFAR umbrella | established and | |
| (FARA) | accessible on the | Three reports produced by consultant. |
| | FARA website – linked | |
| | for rice- | Interaction among the D-Group of |
| | | stakeholders is continuing. |
| | | FARA is maintaining the platform |
| | | beyond the life of the project and will |
| | | use it as a model for other crops. |
| | | |







Conclusions

- 1. An Africa-wide Rice Mechanization Task Force was established as a platform for mechanization
- 2. Rice mechanization experts from Africa visited Brazil and Thailand and developed collaboration with rice stakeholders in those countries
- An on-line platform was established and is being used for interaction between rice mechanization experts across Africa and beyond
- 4. Project completion workshop held on 21-23 January, 2015 32 participants (13 African countries, Canada FARA, and AfricaRice)







Follow-up actions

- 1. Sustain the online platform for interaction between rice mechanization stakeholders
- 2. Secure funding for continued activities of the Africa-wide Rice Mechanization Task Force
- 3. Stimulate interaction/collaboration between African rice mechanization experts and their new contacts in Asia and Latin America





