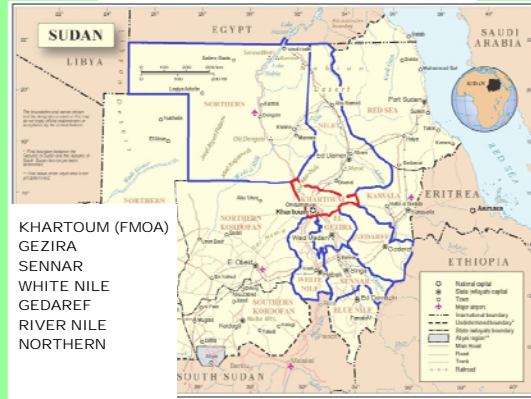




Federal Ministry
of
Agriculture & Irrigation

PROJECT SITES



Japan
International
Cooperation
Agency
(JICA)

CAPACITY BUILDING PROJECT FOR THE IMPLEMENTATION OF THE EXECUTIVE PROGRAMME FOR THE AGRICULTURAL REVIVAL

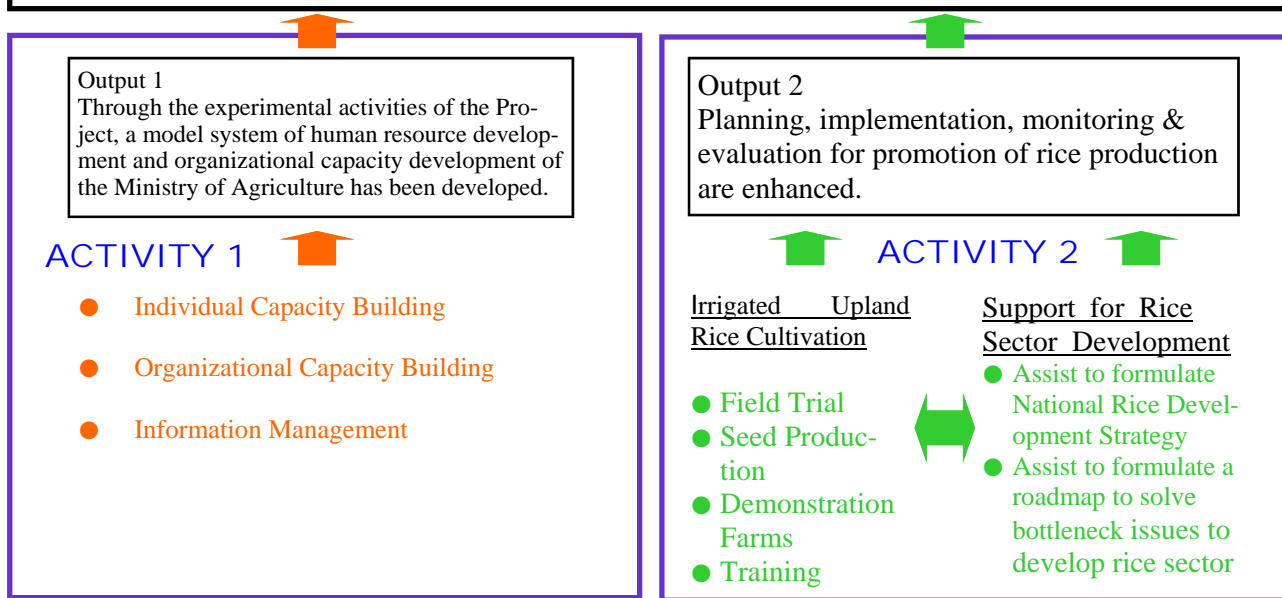


BACKGROUND

Capacity Building Project for the Implementation of the Executive Programme for the Agricultural Revival was launched by Federal Ministry of Agriculture and Irrigation (FMOAI) of the Sudanese Government with cooperation by Japan International Cooperation Agency (JICA) in March 2010. Through this 4-year project, FMOAI and JICA are aiming to strengthen human and organizational capacities of FMOAI, Ministries of Agriculture in State levels and the relevant organizations to materialize "The Executive Programme for the Agricultural Revival" for Sudan. In addition to agricultural ministry staff members at the federal and state levels as well as farmers are benefiting from this project.

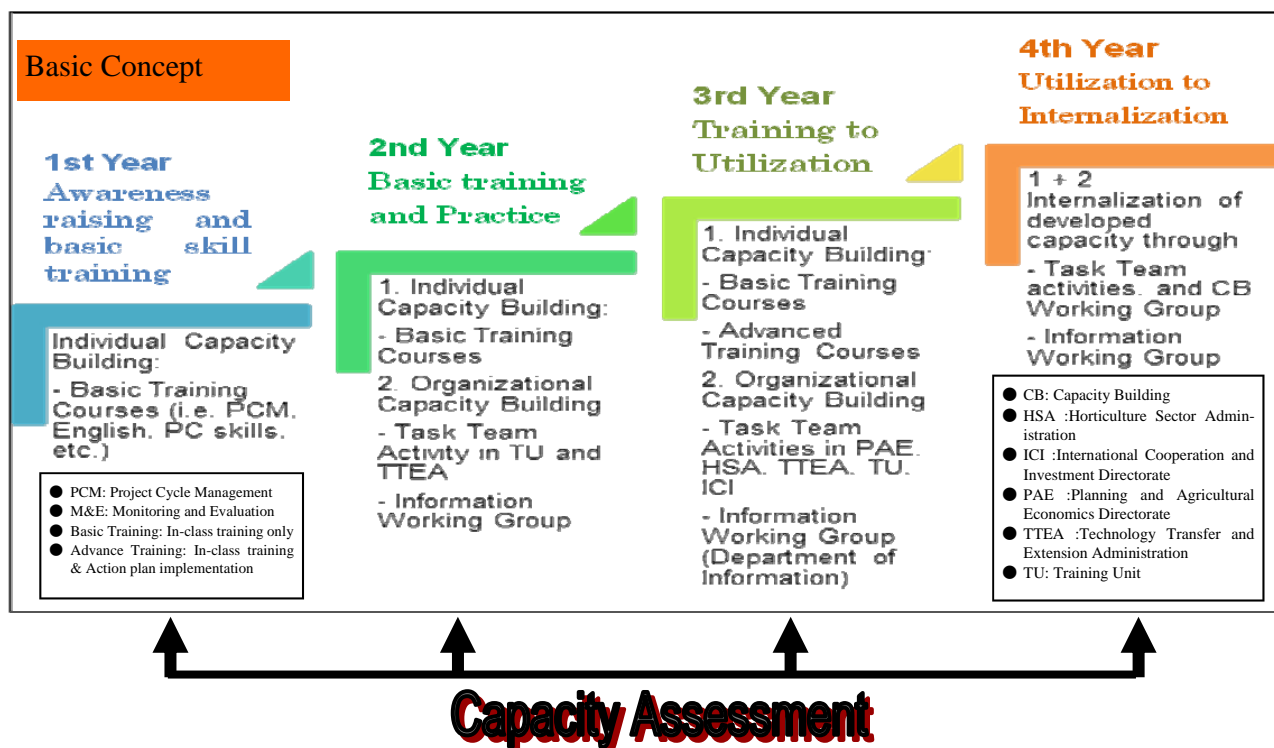
PROJECT PURPOSE

Human and organizational capacity of the Ministry of Agriculture and the organizations concerned is strengthened to materialize "The Executive Programme for the Agricultural Revival."

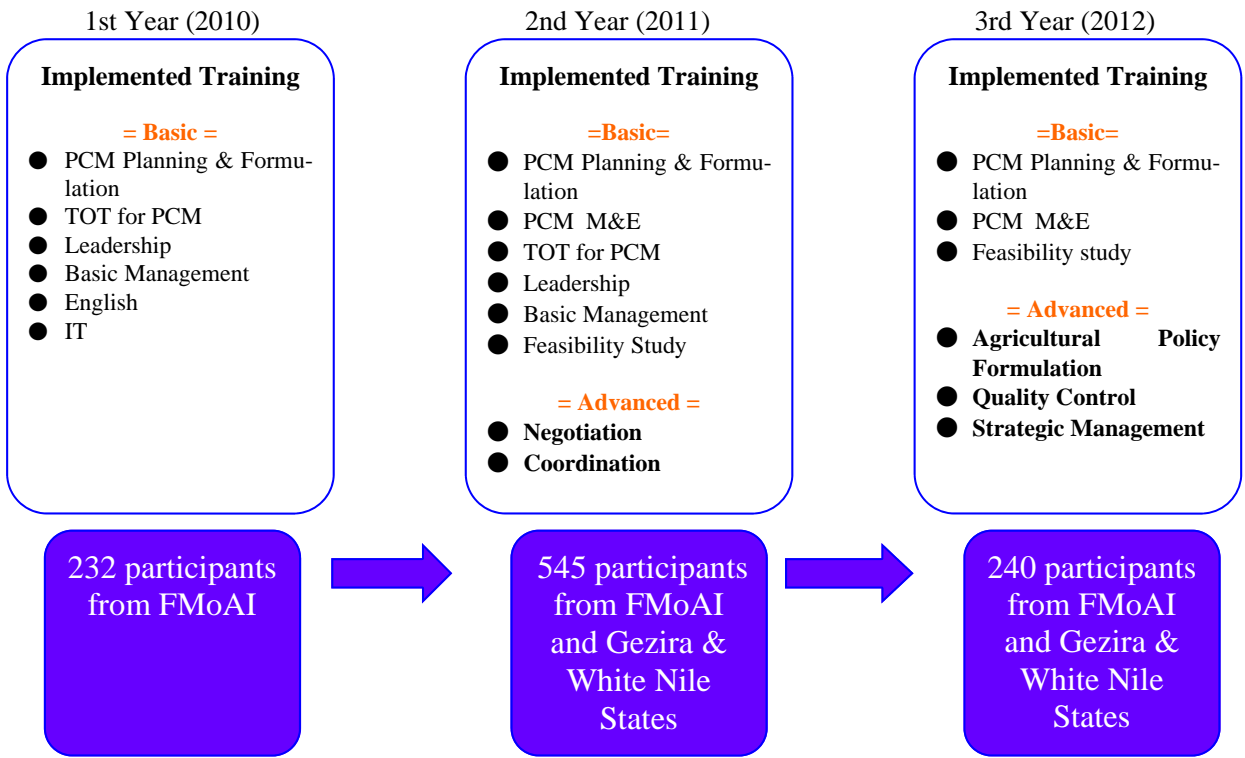


ACTIVITY 1 AND OUTPUTS/OUTCOMES

DEVELOPMENT OF MODEL SYSTEM ON A CAPACITY DEVELOPMENT FOR HUMAN RESOURCES AND ORGANIZATION IN THE MINISTRY OF AGRICULTURE



Individual Capacity Building



In basic course (PCM), participants conducted Problem Analysis.



In advanced course (Agricultural Policy Formulation), participants presented action plan.



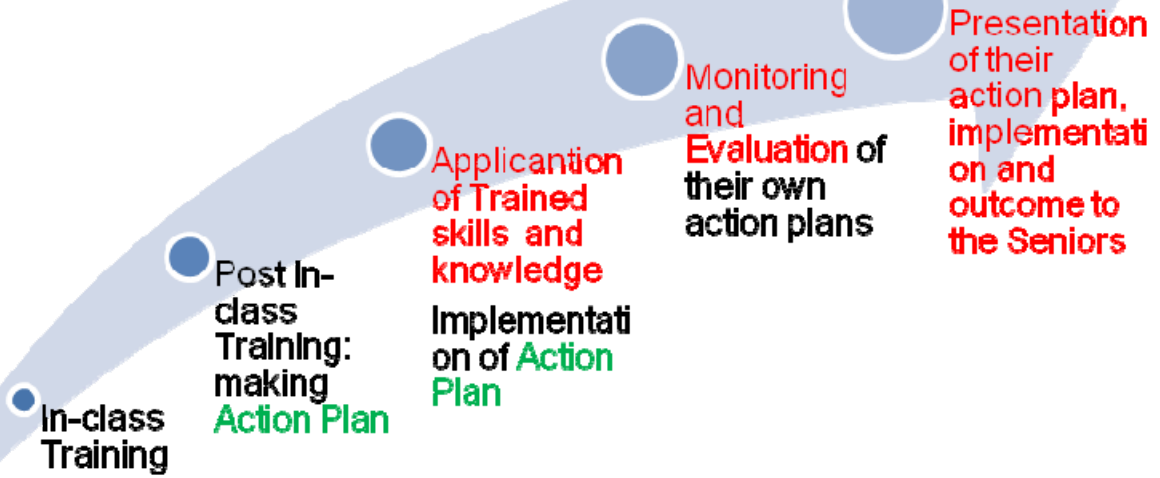
In basic course (Feasibility Study) in Gezira State Ministry of Agriculture



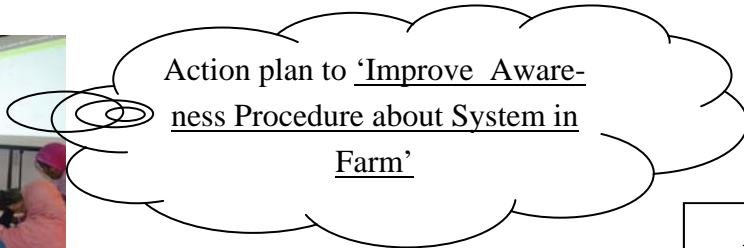
Same as on the left (Closing Ceremony)

3rd Year's Training Concept:

"Training to Unitization"



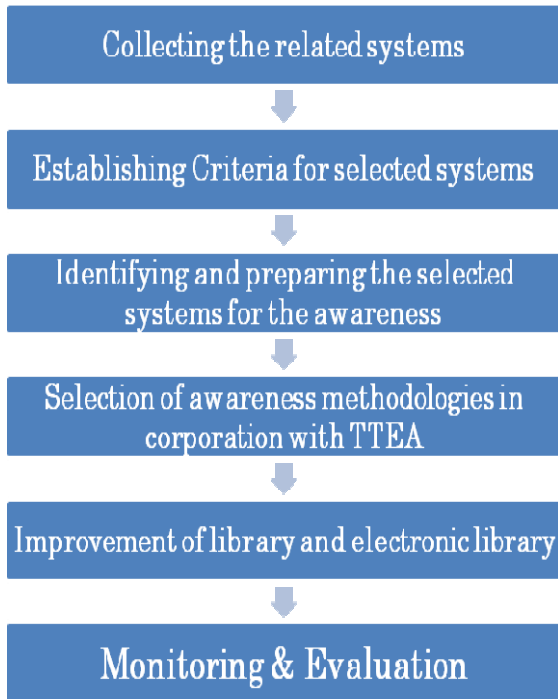
< Efforts of the 'Quality Control Unit' after In-class Training on 'Quality Control' >



Budget allocated by Undersecretary FMoAI



The formed team members during/after the training, with Project Local Consultant (on the right)



New books to build awareness



Organizational Capacity Building

Organizational capacity building activities through 'On the Job Training' were commenced in 2011. In 2012, one Task Team was formed in each Directorate of PAE, TTE and HSA in FMoAI based on its own initiative. The Task Team is expected to become a change agent to build capacity of its own directorate through formulating and implementing the long term action plan and monitoring & evaluation together with members in the Directorate/unit.

Toward "Improvement of Staff Performance in Coordination and Monitoring and Evaluation" (HSA Directorate FMoAI)



Formulation of action plan for the year 2013 (PAE)



Formulation of action plan for the year 2013 (TTE)



Formulation of action plan for the year 2013 (HSA)

As a part of the organizational capacity building, information management working group was established in April 2011. Working group members formulated action plan in order to improve the current information management in the FMOAI in 2011 and the action plan is actively being implemented.



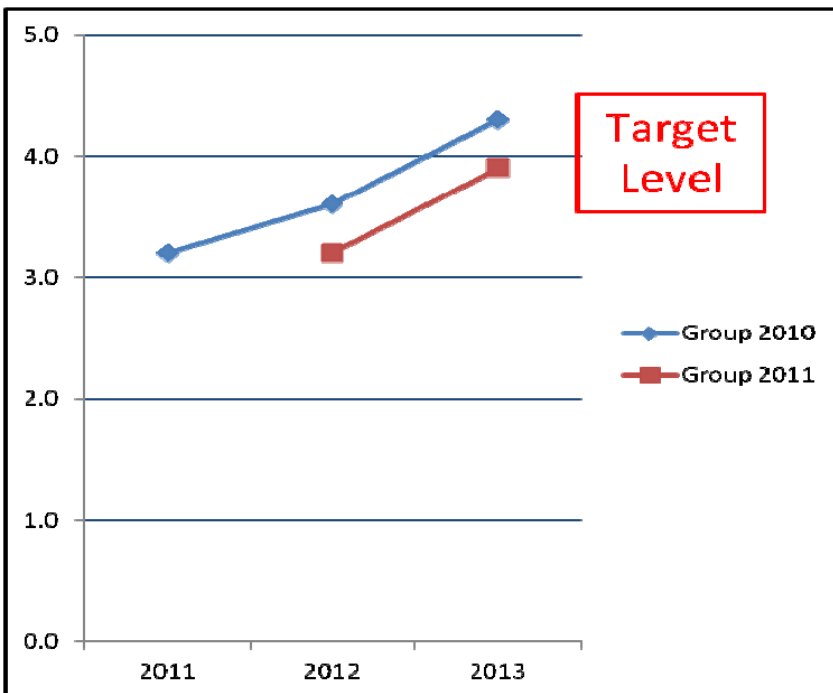
IM working group meeting (the 1st from the left, Ms. Yamada, Information Management expert)



Same as on the left

The Result of Capacity Assessment

The aggregated result of Capacity Assessment shows that the Group 2010 (4.3) cleared the Target level, and Group 2011 (3.9) almost reaches to it.



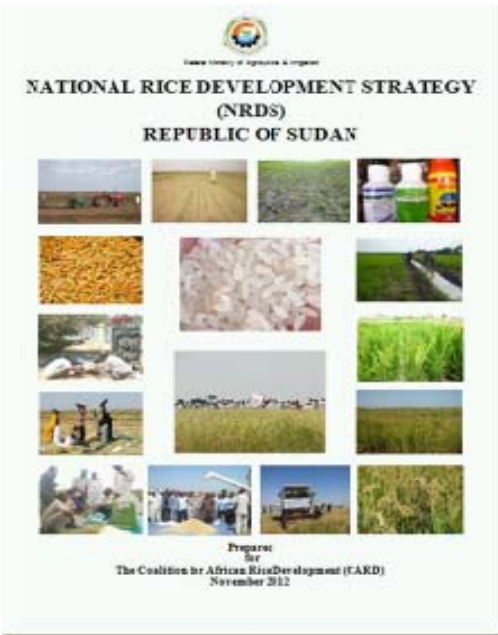
Capacity Assessment (HSA)

Indicators of Capacity Assessment

- Level 5: To utilize the capacity for project work and make countable positive Impact
- Level 4: To utilize the capacity for daily work
- Level 3: To have skill and knowledge
- Level 2: To have interest
- Level 1: Do not have any interest

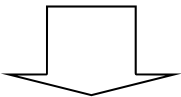
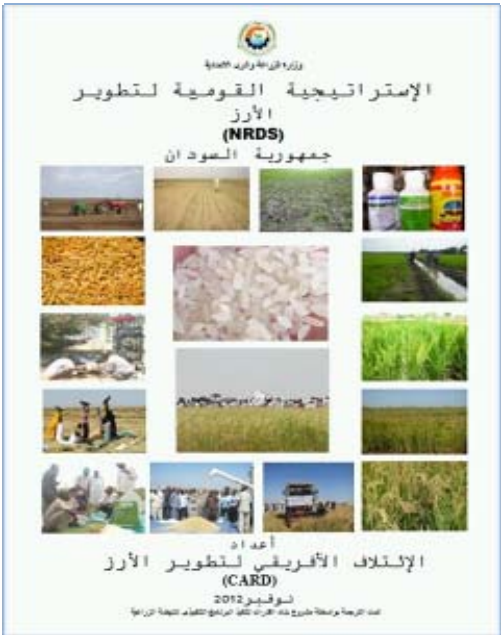
ACTIVITY 2 AND OUTPUTS/OUTCOMES
DEVELOPMENT OF UPLAND RICE CULTIVATION AND RICE SECTOR

Support for Rice Sector Development

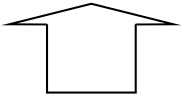


National Rice Development Strategy (Authorized by Federal Minister of AI in November 2012)

NRDS is the first strategy to develop rice sector in Sudan, which has been drafted by cooperation with the JICA Project.



Roadmap to solve 'Bottleneck Issues' on rice production



1st Rice Sector Development Forum



1. Irrigation Interval (Frequency) Trial

To identify appropriate irrigation interval for cultivating upland rice (e.g. 1time/3days, 1time/5days, 1time/7days)



2. Weed Control Trial

To identify effective weed control method for cultivating upland rice (e.g. Herbicide application, Manual weeding)



3. Plant Spacing Trial

To identify appropriate plant spacing for cultivating upland rice (e.g. 15cm, 20cm, 25cm, 30cm)



4. Sowing Time Trial

To obtain information to know optimum sowing time in summer season for cultivating upland rice (e.g. every 2-week sowing)

Result of trial (By Sampling)

8.2 ton/ha = 3.5ton/feddan



Seed Production at Karkoug site in Gezira State in 2012

To secure Pure NERICA-4

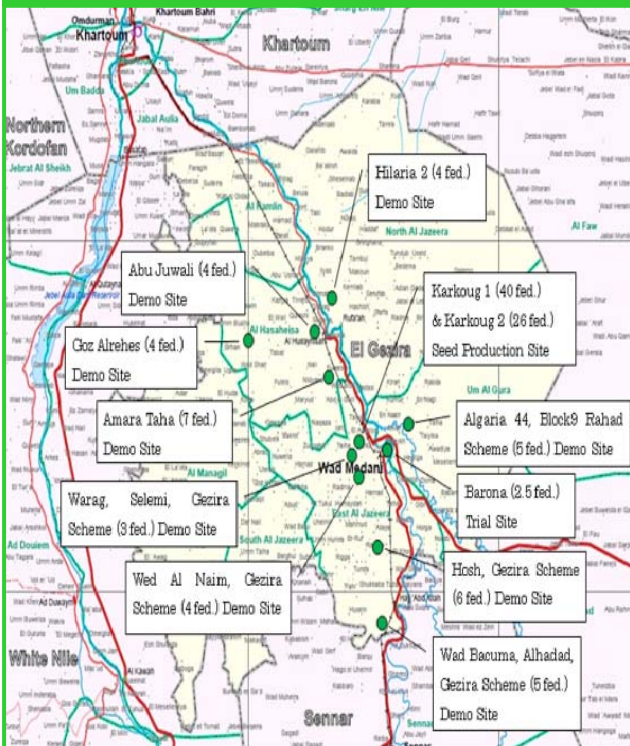
NERICA is a name of the variety standing for 'New Rice For Africa' which developed by WARDA (West Africa Rice Development Association) located in Cote d'Ivoire.



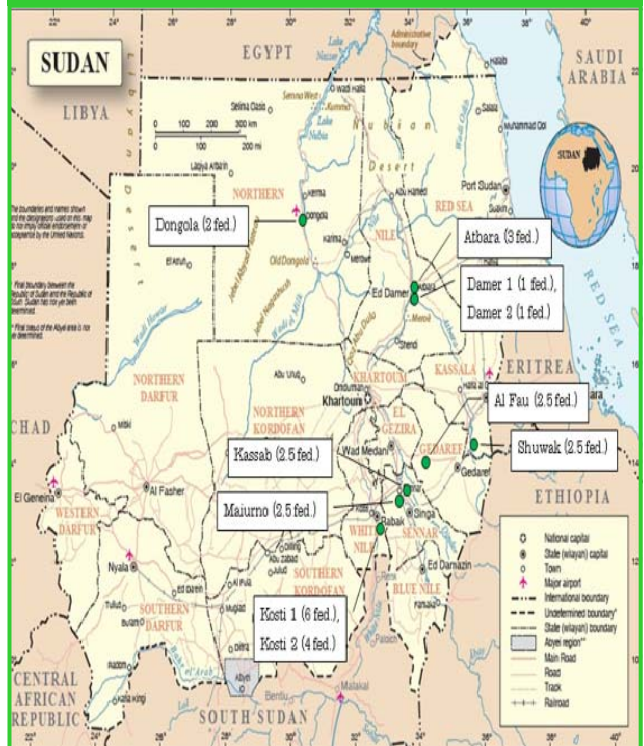
Expanding irrigated upland rice cultivation from Gezira State to other 5 States (Basic Concept)



Sites of Demonstration, Seed Production and Trial Site in Gezira State in 2012



Demonstration Sites in Sennar State, Gedaref State, White Nile State, Northern State and River Nile State in 2012



Training including Field Day and Wrap up Meeting in State MoA

On the Job Training in Demonstration, Seed Production and Trial Sites



(Minister of agriculture, Gedaref State on the right)



(Minister of Agriculture Sennar State on the right)

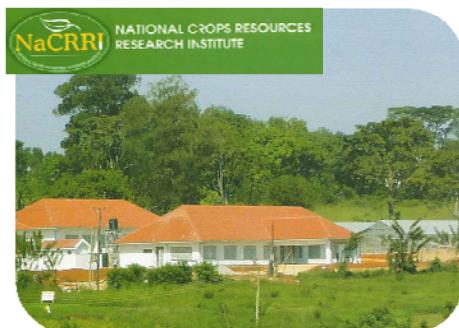


Study Trip in Japan



(Agricultural Ministers from Gezira, Gedaref, Sennar, White Nile and Northern States, DG of ICI & National Rice Coordinator from FMoAI and DG of MoA from River Nile State)

Training in Uganda For extensionists



(Training Center in Uganda)



Wrap up Meeting

Field Day in Gezira State



(Gezira State Minister of Agriculture (left), Governor of Gezira State (middle) and Japanese Ambassador (right))





9. Winnowing

3 tons/ha in the Demonstration Sites

Yield Result of Demonstration Farms in Gezira State in 2012

Demo Site	Area (Fed)	Yield (Whole area) (kg/ha)	Yield (Whole area) (kg/fed)	Yield (By sampling) (kg/ha)	Yield (By sampling) (kg/fed)
Amara Taha(1)	4	2552	1070	2728	1146
Abu Juwali	4	3112	1310	3957	1662
Al garia 44 Block 9 Rahad Scheme	5	3125	1316	3192	1341
Wad Al Naim, Gezira Scheme	4	3371	1412	4571	1920
GozAlhead	4	2659	1200	3102	1303



8. Harvest by combine / hand



Before harvest



2-3 months after sowing



1. Plowing



2. Harrowing



3. Leveling



4. Sowing by seed driller



4. Sowing by hand



7. Irrigation



6. Weed control (hand weeding)



5. Weed control (herbicide application by hand)



5. Weed control (herbicide application by machine)

Cost & Benefit of rice production in Gezira experience in 2012

Crop	Cost (SDG)/feddan	Total benefit SDG/feddan	Net benefit SDG/feddan
Sorghum	1120 (830)	2500 (1740)*	1380 (910)
Ground nuts	1050 (840)	3300 (2249)*	2250 (1400)
Upland rice	1455 (948)	3650 (3600)	2195 (2652)

(Data estimated by Gezira SMOA. Data in blanket shows estimation in 2011.)

*: including crop residues

To get more yield, Need more effort

Technical Points on Cultivating Upland Rice before Post-harvest;

1. Using Good Seed
2. Good Land Preparation (Leveling)
3. Proper Sowing Operation
4. Sowing at Optimum Time
5. Effective Weed Control
6. Appropriate Irrigation
7. Harvesting at Proper Time

Key points to get more yield;

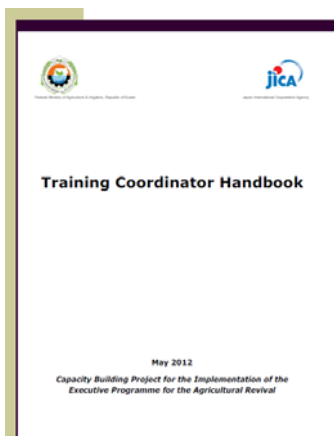
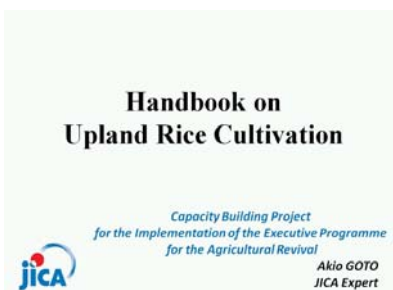
< Technical aspects >

Practice / observation and ask rice about condition of rice

< Institutional aspects >

Tight linkage between Farmers [Workers] – Extensionists - Experts

TECHNICAL HANDBOOKS



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