

**CARD Second Group Country
GM4 Presentation**

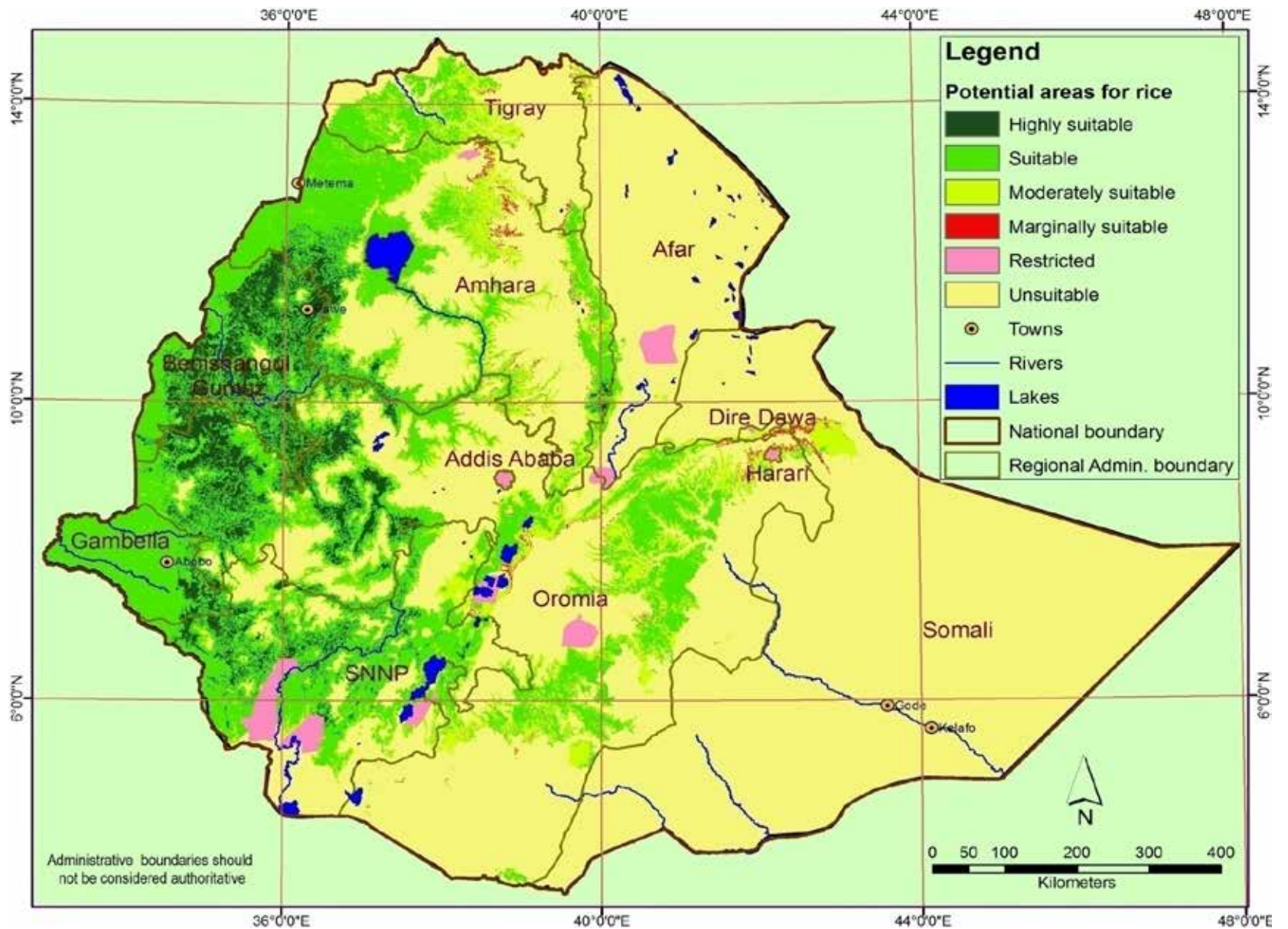
Ethiopia Report

Nov 2011

List of Abbreviations

Abbreviation	Full Name
NRRDS	National Rice Research and Development Strategy
MoA	Ministry of Agriculture
EIAR	Ethiopian Institute of Agricultural Research

Rice Production Map



Trends in Rice and other cereal production (in ton)

Crop	2008	2009	2010	Growth ('10 / '08) in %age
Rice	285,577.0	498,332.0	887,402.2	211
Maize	3,749,749.0	3,932,521.7	4,986,125.5	33
Teff	2,992,923.5	3,028,018.1	3,483,482.6	23
Wheat	2,314,488.5	2,537,639.8	2,855,681.7	16
Barley	1,354,807.0	1,519,404.2	1,703,346.5	26

Production Target & Priority Agro-Ecologies (revised)

Rice Production Area, Yield & Production in 2009 and Targets in Future by Agro-ecological Condition

Year	Area in ha				Paddy Grain Production in ton			
	Upland rain-fed	Lowland rain-fed	Irrigation	Total	Upland rain-fed	Lowland rain-fed	Irrigation	Total
2009	43,855	85,251	26,780	155,886	118,409	272,802	107,120	498,332
2014	104,030	281,846	77,728	463,604	332,895	1,127,385	427,504	1,887,784
2019	163,011	442,833	167,660	773,504	570,538	2,214,165	1,173,620	3,958,323

Capacity Development Target of Human Resources

Number of Researchers, Technicians, and Extension Workers in 2009 and Targets in Future

Year	Agricultural researchers with BSc MSc or Ph. D			Research Technicians			Rice Seed Technologists			Extension Workers <i>spend about 5 -10 hours a week on rice promotion</i>		
	Total	Rice Specialists (Fulltime)	Rice Specialists (Part time)	Total	Rice Specialists (Fulltime)	Rice Specialists (Part time)	Total	Rice Specialists (Fulltime)	Rice Specialists (Part time)	Total	Rice Specialists (Fulltime)	Rice Specialists (Part time)
2009	23	6	17	12	4	8	7		7	160	-	160
2014	69	18	51	36	12	24	15		15	488	-	488
2019	186	48	138	101	36	65	25		25	1,326	-	1,326

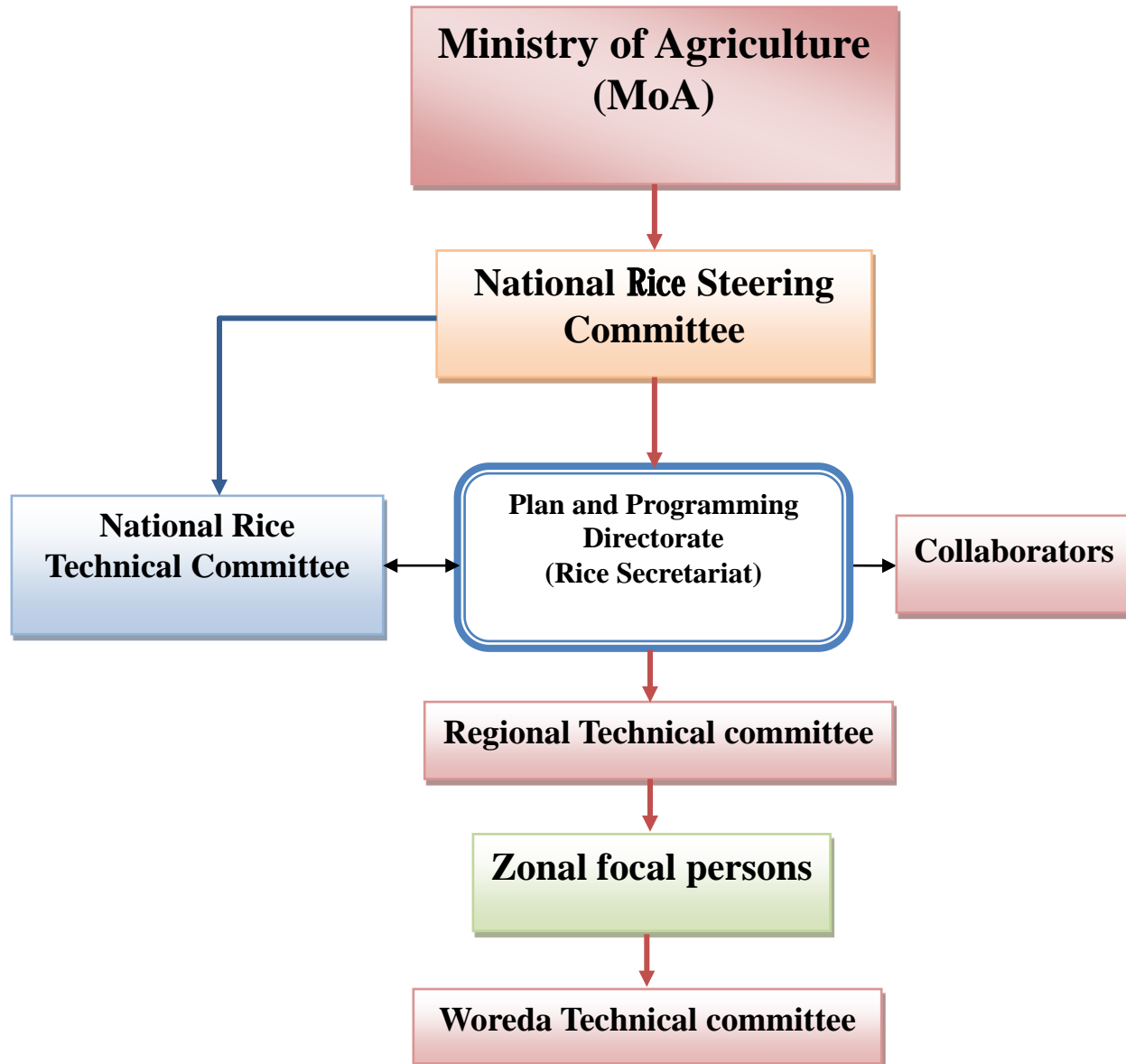
Rice Sector Analyses – Subsector Intervention Element Matrix (SIEM)

	Policy / Institutional	Infrastructure	Human resource capacity	Provision / support	Information / knowledge
Seed	Seed Regulatory Laws Private Sector Seed Certification	Storage Facilities Breeding Facilities (Germplasm, Glasshouse)	Breeders, Seed technologists, Technicians Plant Protection Scientists	Ecology specific varieties Hybrid rice Salt/Stress tolerant rice Aroma/Flavor/Cooking quality	Seed Use Sources of availability
Fertilizer	Incentives Access to Credit	Soil laboratory equipments, chemicals	Soil technicians Soil Scientists Agronomists Extensionists	Soil reclamation Site-specific fertilizer recommendations and Integrated Soil Fertility Management Soil testing services	Timely availability/distribution Price fluctuations Profitability (advantages) Fertilizer Use Efficiency Micro Nutrients Integrated Soil Management
Pesticides	Adulteration Regulation (quality, expiry)		Plant Protection Scientists Extension Agents	Emergency reserves of chemicals against major epidemics Seasonal Forecasting Efficiency of new chemicals	Awareness of appropriate chemicals, availability and usage
Irrigation / water management	Ownership and responsibility conflicts of irrigation schemes, structures Water Fees	Catchments in Uplands Rain Water Harvesting Bore-wells Dams River diversions Canals Rehabilitation of existing infrastructure Pumps	Short term training courses for farmers, development agents, and specialists	Irrigation scheme designs Water potential assessment Technical assistance on operation and maintenance of small pumps	Water Use Efficiency Maintenance and responsibility of irrigation structures Drainage

Rice Sector Analyses (Contd.) – Subsector Intervention Element Matrix (SIEM)

	Policy / Institutional	Infrastructure	Human resource capacity	Provision / support	Information / knowledge
On-farm technology dissemination (E)		Training Center of Excellence	Extension/Development agents Extension Researchers Technology Evaluation	Comprehensive packaging of technologies Extension Materials Demonstration/Promotion	Communications of research information
Mechanization	Raising the limits of foreign currency Tariff reduction (Small scale import tariff, sales tax) on machineries, spare parts, implements Incentives (soft loans, tax)	Training and Testing Center	Rural artisans Mechanics Operators Extension agents Engineers Post harvest technologists	Small Tools (Weeders, sprayers) Implements (levelers, threshers, power tillers, rotavators) Service/Maintenance	Awareness Profitability (Cost/Benefits) Knowledge of applications
Quality improvement	Standards of mills and milling process Grading (at local mills) Quality/Standards (purities, broken %, hygiene, packaging) Incentive (Differential pricing for good quality rice) Rice Millers Association	Assembly Hubs Rural Electric Supply Fuel Storage in rural areas Quality testing laboratories	Food technologists Milling technicians Training on post harvest handling, storage and marketing	Small Mills and other machineries Value Addition	Awareness on linkage between quality and price Best post harvest handling and storage practices
Access to market	Minimum support price Rural trading of paddy Predetermined Contracts between cooperatives and millers Cooperative output markets	Feeder roads Transportation Storage Market Information Infrastructure (Price, trade)	Economists Market Informers Trading Entrepreneurs	Rural communication facilities Monitoring of trade activities Training on trading Collective bargaining (Cooperatives)	Market Information (Price, trade (import/export volumes))

Governance and M&E of NRDS



NRRDS Technical Committee Member List

Name	Job Title	Organisation
Mr. Samuel Abiyou	Project Planning, Monitoring and Evaluation Senior Expert	Planning & Programming Directorate, Ministry of Agriculture
Dr. Dawit Alemu	Coordinator, Agricultural Economics Research extension and farmer linkage Chairperson of NRRDS TC	Ethiopian Institute of Agricultural Research
Dr.Tareke Berhe	Advisor Co-Chairperson of NRRDS TC	Agricultural Transformation Agency
Mr. Asefa Ayele	Agronomist	Extension Directorate , MoA
Mr. Mekonen Mekuria	Farmer Extension Linkage Specialist	Rural Capacity Building Project, MoA
Mr. Laeke Kebede	Engineer	Farm Mechanization Directorate, MoA
Mr. Sewagegne Tariku	National Rice Research Coordinator	Amahra Region Agricultural Research Institute
Mr. Ali Adem	Seed expert	Ethiopian Seed Enterprise
Mr. Zewdie Gebre Tsadik	Agronomist	SASAKAWA-GLOBAL 2000

Needs, Resources, and Funding Priorities for Rice Sector

Subsector/Intervention	Policy/Institutional Support	Infrastructure	Human Resource Capacity	Provision/Support	Knowledge/Information
Seed	Sufficient	Gaps	Priorities	Priorities	Insufficient
Fertilizer	Gaps	Gaps	Sufficient	Priorities	Insufficient
Agrochemicals	Gaps	Gaps	Gaps	Insufficient	Insufficient
Irrigation / water management	Gaps	Priorities	Insufficient	Insufficient	Insufficient
On-farm technology dissemination (E)	Gaps	Priorities	Priorities	Sufficient	Insufficient
Mechanization	Gaps	Gaps	Priorities	Insufficient	Insufficient
Quality improvement	Gaps	Gaps	Insufficient	Priorities	Insufficient
Access to market	Gaps	Gaps	Sufficient	Sufficient	Insufficient

 Priorities

 Gaps

 Insufficient

 Sufficient

List of Priority Interventions & Its Alignment of In-Country CAADP Framework

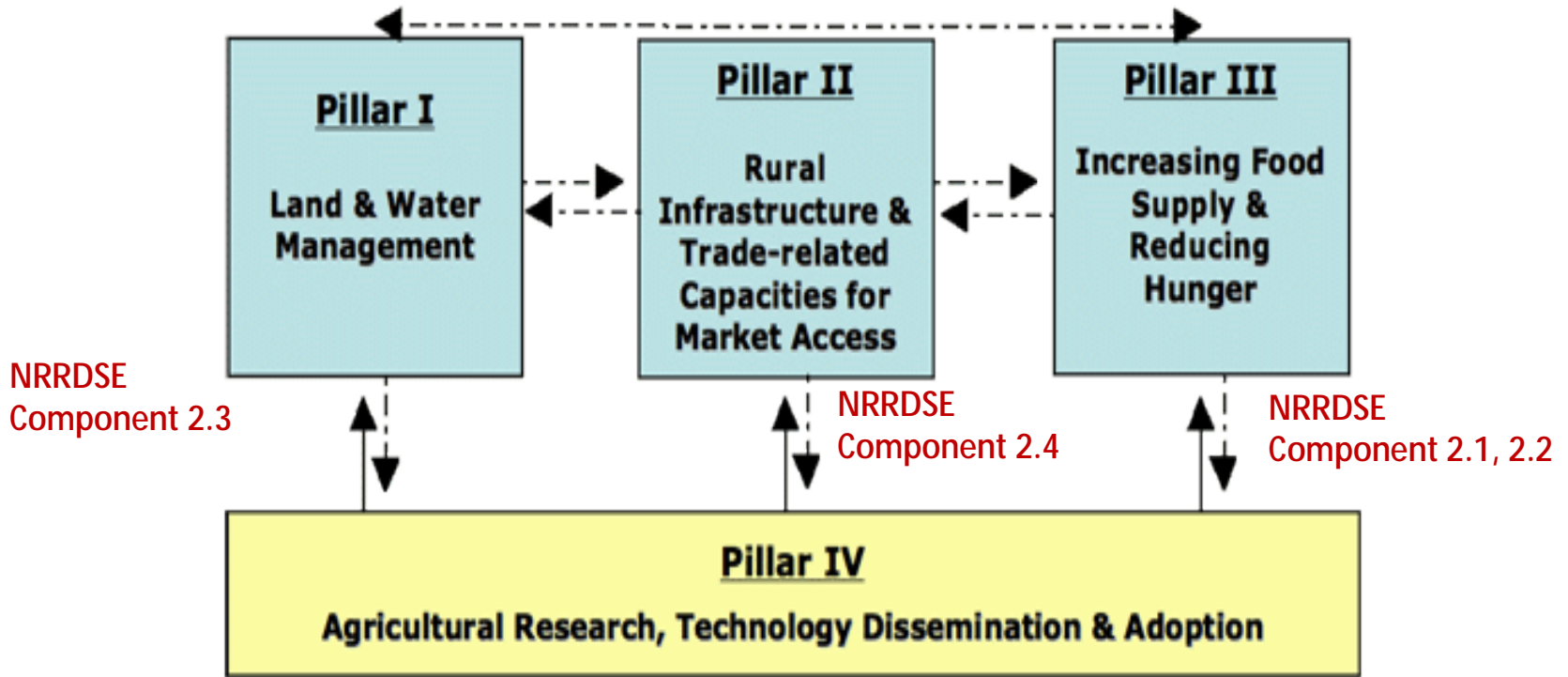
Priority Project	CAADP
Human capacity building for rice research and development by training breeders, crop protection scientists, seed technologists and technicians	Pillar IV
Development of ecology specific and market preferred rice varieties in Ethiopia	Pillar IV
Developing and Promoting site specific fertilizer recommendations and integrated soil fertility management practices in Ethiopia	Pillar IV
Strengthening the capacity of soil testing laboratory services	Pillar III and IV
Participatory evaluation of improved rice technologies	Pillar IV
Capacitate development agents, subject matter specialists and researchers on rice production in rice growing areas	Pillar IV
Establishment of a national centre of excellence for rice research and training	Pillar IV

List of Priority Interventions & Its Alignment of In-Country CAADP Framework

Priority Project	CAADP
Capacitate and operationalize Farmer Training Centres (FTCs) in rice growing areas for effective technology dissemination	Pillar IV
Expansion of rice cultivation area through small scale river diversions in rice growing areas	Pillar I
Promotion of supplementary irrigation through bore wells for small scale rice growers in upland and rain fed ecosystems	Pillar I
Training rural artisans, mechanics and operators on fabrication, maintenance and effective use of agricultural machines	Pillar II
Enhancing national research and development capacity and dissemination of agricultural mechanization technologies	Pillar IV
Training rice growers on post harvest handling, storage and marketing practices	Pillar II
Enhancing access to machineries for improving production and the quality of locally produced rice	Pillar II and III

Harmonization of NRRDSE with CAADP

CAADP – Fostering Growth in African Agriculture



NRRDSE Components: 1, 2.5, 2.6, and 3

List of Champions

Name	Job Title	Organisation
		JICA
		USAID
		KOICA
		CIDA
		BMGF/ATA
		FAO
		IRRI
		AfricaRice
		WB
		AGRA
		AfDB
		IFAD

Action Taken to Materialize: Day 5 Participants List of CARD Week 2

Participating Organizations to the Day 5 meeting
World Bank
FAO
China Embassy
Japan International Cooperation Agency (JICA)
Korea International Cooperation Agency (KOICA)
Sasakawa Africa Association (SAA)
Sasakawa-Global 2000
Mennonite Economic Development Associates (MEDA)
Ministry of Finance and Economic Development

***Action Taken to Materialize:
Other Efforts to Government Sector, CAADP & Development
Partners***

Date	Actions taken (meeting etc.)
July 2011	National Rice R&D steering committee meeting
July 2011	Briefing given on Rice R&D to a committee for action plan development of Agricultural Growth Program (AGP)
Early 2011	The national Advisor for Rice and Teff R&D recruited by Government/ATA become member of the TC
Since early 2011	Preparation for AfricaRice membership

Success /good progress indicators

Priority project	Adoption by the government / CAADP / DPs
Rice Value chain development	MEDA/CIDA
Participatory Research for rice	JICA /FRG II project
Staff recruitment for the establishment of NRR&D Research and Training Center	EIAR/JICA
Land for the site received	
Promoting crop diversification and advanced technologies in Tigray Region	SAA/SG200

Issues/progress

- Focus given to establishment of the National Rice Research and Training Center, one of the priority projects identified during Working week II (Sept, 2011)
 - Briefing made to the Bilateral cooperation department experts of the MoFED for the possibility of ensuring funding
 - Discussion made to ensure partial funding from the on-going projects mainly East African Agricultural Productivity project of the World Bank
 - Discussion made about the possibility of ensuring partial public funding