



Evaluation of the CGIAR Research Program on Global Rice Science Partnership (GRiSP)

Volume 2 – Annexes

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Independent
Evaluation
Arrangement

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ANNEX A: Evaluation Team Members –Short BIOS

Derek Byerlee (Team Leader) from Australia is currently Visiting Scholar at Stanford University, USA and Adjunct Professor, Georgetown University, USA. He worked with the World Bank as Lead Economist, Rural Strategy and Policy Adviser, Leader of Agricultural and Rural Development in the Ethiopia Country Office, and Director of the World Development Report in 2008: Agriculture for Development. Previously he worked at CIMMYT for 17 years as Regional Economist, South Asia and then Director of CIMMYT's Economics Program. In 2009-12 he served as Chair of the Standing Panel on Impact Assessment of the CGIAR's Science Council. He has a PhD in Agricultural Economics from Oregon State University, USA.

Flávio Breseghello from Brazil has a PhD on genetics and plant breeding from Cornell University. He has been DDG-R&D and currently is the Director General of CNPAF, the EMBRAPA institute for rice and beans, and is a member of EMBRAPA's Program Management Committee. He has experience in rice breeding and technology transfer, having released several rice cultivars. In 2009 he participated at the AfricaRice Center Commissioned External Review of the Rice Diversity and Improvement Program.

Olivier Panaud is a Professor at the University of Perpignan Via Domitia, France where he has acted also as Vice-President for Research. He has a PhD from University of Paris, Orsay in Plant genetics. His research interests are in genomics and genetic resources (including sequencing the genome of African rice, *Oryza Glaberrima*). He was a PhD fellow at IRRI in 1989-92.

Benjavan Rerkasem is Professor Emeritus from Chiang Mai University in Thailand. She was Professor of Agronomy for 10 years and before that of Plant Nutrition. She has a PhD on plant nutrition from University of Western Australia. Recently she received a Crawford Fund Award for services to international agriculture. Her academic interests include crop nutrient management, agroecology and conservation agriculture. She has been an external reviewer of CIAT activities in Asia and of IRRI's upland rice research for the CGIAR Science Council, among other reviews for international agencies.

Abdoul-Aziz Sy is an international consultant (agricultural research and capacity building specialist) from Senegal who has an academic background in crop sciences and did his PhD at the Institut National Polytechnique, Toulouse, France. He has worked on evaluations of a range of agricultural and science & technology programs and activities, mostly in Africa and including rice research and adoption. In the 1990s he worked at WARDA as Principal Plant Pathologist.

Paul Teng is Professor and Dean of the Graduate Studies and Professional Learning at the National Institute of Education, Nanyang Technological University in Singapore. He has a PhD on Agricultural microbiology/System research from University of Canterbury in New Zealand. In early 2000 he was DDG of Reach at the World Fish Center and previous to that worked for Monsanto as Asia Pacific Vice President on Public Affairs and Asia-Pacific Director on Science & Technology. In 1990s he was at IRRI as Program leader on cross-ecosystems research. He participated in several boards, advisory bodies and reviews on S&T.

Martha ter Kuile currently works as Minister at the Bloor Street United Church, Toronto Ontario, Canada. She has a PhD on Ethics from the University of Ottawa. In the past she has held several positions at the Canadian International Development Agency, including Head of Aid at the Canadian Embassy in Guatemala, and was the Canadian representative to the CGIAR. She has served in the Boards of international organizations, including CIP, and participated in External Program and Management Reviews of two CGIAR centers, including IRRI in 2009.

ANNEX B: GRiSP evaluation country visits

Country	Date	Travel purpose	Team involvement	Focus
Philippines	1-7 February	Inception meeting	All	All GRiSP, IRRI
Benin	9-12 February	Africa Rice Center Science Week	DB, AS, MtK	AfricaRice
France	8-10 March	GRiSP Oversight Committee meeting in Montpellier	MtK, OP	Governance, Consortium relations
France	June	CIRAD and IRD	AS	Links to core non-CGIAR partners
Bangladesh	28-31 March	Field visit	DB, PT, BR, IEA	Rainfed/irrigated and partnerships; CSISA, STRASA, IFAD/EC grants
India	1-7 April	Field visit	DB, PT, BR, IEA	Rainfed/irrigated and partnerships; CSISA, STRASA, IFAD/EC grants
Senegal	6-12 May	Field visit	DB, AS, OP	Africa Rice, National partners
Nigeria	12-16 May	Field visit	DB, AS, OP	Africa Rice, National partners
Myanmar	20-22 May	Field visit	BR, IEA	CURE, CORIGAP
Vietnam	23-16 May	Field visit	BR, PT, IEA	CORIGAP, CLUES, National partners
Colombia	24-30 May	Field visit	DB, FB, IEA	CIAT rice research, FLAR, Fedearroz
Peru	27-30 May	Field visit	FB	National partners
Tanzania	6-12 June	Field visit	AS, FB	Africa Rice, IRRI, National Partners
Kenya	12-16 June	Field visit	AS, FB	Africa Rice, IRRI, National Partners
Rome	5-8 Sept	Writing workshop	All	Draft final report

ANNEX C: List of people interviewed

Name	Title/Organization	Country
Alfredo Marin	Leader of the Rice Program, INTA Argentina	Argentina
Nick Austin	ACIAR	Australia
Robert Edis	ACIAR	Australia
A.K.M. Ferdous	Senior Specialist, Agricultural Research and Development	Bangladesh
Ahmad Salahuddin	IRRI – Consultant, GRiSP, CSISA	Bangladesh
Ansar Ali	BRRI – Director-Research	Bangladesh
Bidyuth K. Mahalder	IRRI – Senior Manager, Operations and Administration	Bangladesh
Bilash Mitra	IRRI – Manager, Monitoring and Evaluation	Bangladesh
Craig A. Meisner	WorldFish – Director, South Asia	Bangladesh
F.H. Ansarey	ACI Agribusiness Ltd. – Executive Director	Bangladesh
Harun ur Rashid	BRRI – Senior Science Officer	Bangladesh
Humnath Bhandari	IRRI – Agricultural Economist, VDSA	Bangladesh
Jiban Krishna Biswas	Bangladesh Rice Research Institute (BRRI) – Director General	Bangladesh
M. Matiur Rahman	IRRI – Coordinator, ACIAR Rice-Pulse	Bangladesh
M. Murshedul Alam	IRRI – Senior Associate Scientist II, RPC and ICT Tools Development	Bangladesh
M.A. Bari	IRRI – Project Scientist and Country Manager, STRASA	Bangladesh
M.G. Neogi	IRRI – Consultant, STRASA, RMS-SA, Sustainable Rice Seed Production and Delivery System (SRSPDS)	Bangladesh
Manoranjan K. Mondal	IRRI – Collaborative Research Scientist	Bangladesh
Md. Ershadul Islam	WorldFish – Khulna Hub Manager, CSISA-BD	Bangladesh
Md. Shahjahan	CIMMYT – Cropping Systems Agronomist, GCAP	Bangladesh

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Name	Title/Organization	Country
Mike Robson	FAO – Representative in Bangladesh	Bangladesh
Paul Fox	IRRI – Representative for Bangladesh	Bangladesh
Shahjahan Kabir	BRRI – Director-Administration	Bangladesh
Sk. Hemait Hossain	Department of Agriculture Extension (DAE) – Additional Director, Khulna	Bangladesh
Sk. Mukular Rahman	Satkhira Seed House – Proprietor	Bangladesh
Tamal Lata Aditya	BRRI – Chief Science Officer	Bangladesh
Thakur Prasad Tiwari	CIMMYT – Cropping Systems Agronomist and Bangladesh Country Representative	Bangladesh
Timothy Russell	IRRI – Chief of Party, Cereal System Initiative for South Asia (CSISA) in Bangladesh Project	Bangladesh
Wais Kabir	FAO – Consultant	Bangladesh
Loretta Hempsall	IRRI – Manager, Corporate Services	Bangladesh
Marufa Fatema	University of Bonn – Student, ARTS	Bangladesh
Mary Achana Costa	IRRI – Senior Assistant, Administrative Coordination	Bangladesh
Prof. Md. Lutful Hasan	Bangladesh Agricultural University – Professor	Bangladesh
Shamima Sultana	IRRI – Assistant Manager, Logistics and Coordination	Bangladesh
Akakpo Cyriaque	INRAB	Benin
Arodokoun Y. David	INRAB	Benin
Iliyath Bello	INRAB	Benin
Marie-Noelle Ndjiondjop	AfricaRice	Benin
Pascal Gbenou	ROPPA Molecular Biologist and Head, Biotechnology Unit	Benin
Adama Traore	AfricaRice	Benin
Arouna Aminou	AfricaRice	Benin
Denis Huneault	AfricaRice	Benin
Ibnou Dieng	AfricaRice	Benin

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Name	Title/Organization	Country
John Manful	AfricaRice	Benin
John Rodenburg	CIRAD/GRiSP	Benin
Joseph Sano	Assistant Scientist - Agricultural Engineering, IRRI	Benin
Kazuki Saito	Agro-Physiologist, AfricaRice	Benin
Kelly Mbokeli	Head of Human Resources, AfricaRice	Benin
Koichi Futakuchi	Program Leader, Sustainable Productivity Enhancement- AfricaRice	Benin
Mandiaye Diagne	Agricultural Economist, AfricaRice	Benin
Marco Wopereis	Deputy Director General and GRiSP Focal Point, AfricaRice	Benin
Masa Iwanaga	President, JIRCAS	Benin
Menozzi Phillippe	AfricaRice/CIRAD	Benin
Moussa Sie	Rice Breeder AfricaRice	Benin
Myra Wopereis-Pura	Knowledge Management & Capacity Strengthening, AfricaRice	Benin
Rose Fiamohe	AfricaRice	Benin
Samuel Bruce-Oliver	AfricaRice	Benin
Takashi Kumashiro	AfricaRice ,Program Leader, Genetic Diversity and Improvement	Benin
Sergio Gini Lopes	Rice researcher, IRGA, Brazil	Brazil
Hamidou Traore	INERA	Burkina Faso
Oueaogo Ibrahim	INERA	Burkina Faso
Rayaisom Louis Oueaogo	INERA	Burkina Faso
Fulgence Niyongabo	ISABU	Burundi
Ndayiragije Alexis	IRRI	Burundi
Ouk Makara	Director CARDI, CURE, submergence and drought working groups	Cambodia
Sakhan Sophany	Deputy Director CARDI, plant breeding	Cambodia

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Name	Title/Organization	Country
Seng Vang	Deputy Director CARDI, Crop management and agronomy	Cambodia
Dorothy Malaa	IRAD	Cameroon
Ngome Francis Ajebesone	IRAD	Cameroun
Christophe Khadji	Deputy Director, Global Programs and Initiatives, Global Food Security Division, Department of Foreign Affairs, Trade, and Development, Government of Canada	Canada
Rebecca Smart	Senior Analyst, Global Food Security Division, Department of Foreign Affairs, Trade and Development Government of Canada	Canada
Kondayen Igor Hervé	ICRA	CAR
Mbedane Hervé	ICRA	CAR
Le Huy Ham	Director, AGI	China
Shaobing Peng	Professor and Director, Crop Physiology and Production Center (CPPC), College of Plant Science and Technology, Huazhong Agricultural University	China
Z Li	CAAS	China
Cheng Shi-hua	CNRRI (China National Rice Research Institute)	China
Luo Ju	Deputy Division-Chief, CNRRI (China National Rice Research Institute)	China
Camila Reboledo	Postdoc CIAT	Colombia
Cecile Grenier	CIRAD/CIAT	Colombia
Constanza Quintero	CIAT	Colombia
Edgar Torres	CIAT	Colombia
Eduardo Graterol	FLAR – Agronomy	Colombia
Gloria Mosquera	CIAT	Colombia
Jaime Gomez	CIAT	Colombia
Joe Tohme	CIAT	Colombia

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Name	Title/Organization	Country
Jorge Duitama	CIAT	Colombia
José Maria Martinez	CIAT	Colombia
Maria Fernanda Alvarez	CIAT Director General	Colombia
Mathias Lorieux	IRD	Colombia
Michael Selvaraj	CIAT	Colombia
Patrícia Guzman	Fedearroz	Colombia
Paul Chavarriaga	CIAT	Colombia
Ruben Echeverria	CIAT DG	Colombia
Sana Valdez	CIAT	Colombia
Santiago Jaramillo	FLAR	Colombia
Satoshi Ogawa	JICA	Colombia
John Hamer	CIAT	Colombia
Maria Garcia	CIAT	Colombia
Adiko Amoncho	CNRA	Cote d'Ivoire
Bouet Alphonse	CNRA	Cote d'Ivoire
Jonas Nwankwo Chianu	AfDB	Cote d'Ivoire
Kouassi Nazaire	CNRA	Cote d'Ivoire
Yté Songe	CNRA	Cote d'Ivoire
Paul Mbempie Mafuka	INERA	DR Congo
Fentahun Mengistu	EIAR	Ethiopia
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Evaluation of the CGIAR Research program on GRiSP

Name	Title/Organization	Country
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Ansumana K JARJU	NARI	Gambia
Grace Bolfrey-Arku	Council for Scientific and Industrial Research (CSIR), Ghana	Ghana
Paa-Nii Torgbor Johnson	CSIR/CRI, Ghana	Ghana
Yemi Akinbamijo	FARA	Ghana
Famoi Beavogui	IRAG	Guinea
Tidiane Dialo Sankarella	IRAG	Guinea
Ramesha	IRRI – Scientist, CSISA	India
Alwin Keil	CIMMYT – Senior Agricultural Economist	India
Arindam Samaddar	IRRI – Social Scientist	India
Ashok Kumar	IRRI – Hub Coordinator, CSISA Odisha	India
Avinash Upadyay	Digital Green – Regional Manager	India
B. Giri	Directorate of Agriculture and Good Production, Bhubaneshwar – State Consultant, NFSM	India
D. Konar	Ramnagar Seed Farm Pvt. Ltd. – Advisor	India
D.P. Ray	OUAT – Vice-Chancellor	India
J.K. Ladha	IRRI – Principal Scientist and Representative for India and Nepal	India
J.K. Roy	CRRI – Former Joint Director	India
Jyotirmoy Guha	GMS Agritech Pvt. Ltd. – Director	India
Manzoor Dar	IRRI - Senior AssoCIATe Scientist	India
P.K. Joshi	IFPRI – Director, South Asia	India

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Name	Title/Organization	Country
Parvesh Chandna	IRRI – Scientist, Remote Sensing and GIS	India
Ramesh Chand	National Institute of Agricultural Economics and Policy Research, ICAR – Director	India
S.k. Bardhan Roy	Centre for Strategic Studies, Kolkata	India
Sheetal Sharma	IRRI – Post Doctoral Fellow-Soil Scientist/ Nutrient Management Specialist	India
Sudhanshu Singh	IRRI – Rainfed Lowland Agronomist, South Asia	India
Sudhir Yadav	IRRI – Irrigated Systems Agronomist	India
Swati Nayak	IRRI – Assistant Scientist - Social Sciences	India
T.C. Dhoundiyal	IRRI – Project Manager, IRRI South Asia	India
Trilochan Mohapatra	Central Rice Research Institute (CRRI), Indian Council of Agricultural Research (ICAR) – Director	India
Uma Shankar Singh	IRRI – Senior Scientist II and South Asia Regional Project Coordinator for STRASA project	India
Vijaya Kumar Marthi	IRRI – Manager, Liaison and Coordination	India
Vinod Kumar Gaur	National Seeds Corporation Ltd. – Chairman cum Managing Director	India
Sk. Abdoul Sabbar	Ramnagar Seed Farm Pvt. Ltd. – Managing Director	India
Hasil Sembiring	Directorate General of Food Crops, Ministry of Agriculture, Republic of Indonesia	Indonesia
Inastuti Rumanti	Indonesian Center for Rice Research	Indonesia
Rita Ni	ANADER (Ivory Coast), Facilitator	Ivory Coast
Masa Iwanaga	President, JIRCAS	Japan
Osamu Koyama	JIRCAS	Japan
DeVries Joseph D.	Director Programme/Africa's Seed Systems, PASS, AGRA	Kenya
Ininda Jane	Programme Officer/CROP Improvement, PASS, AGRA	Kenya
Kayode Sanni	Project Manager/Rice, AATF	Kenya
Kore Winfred	Rice Breeder/KARI/KALRO/Kisumu, AfricaRice Breeding TF Coordinator	Kenya

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Name	Title/Organization	Country
Njuguna Michael M.	CFO/Deputy CEO, Africa Harvest Technology	Kenya
Satoyama Takanori	General Coordinator, CARD	Kenya
Umagai Yuichi K	Technical Coordinator, CARD	Kenya
Wambugu Florence	CEO, Africa Harvest Technology	Kenya
SATOYAMA Takanori	General Coordinator	Kenya
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Phetmanyseng Xangsayasane	Plant Breeding, Plant Genetic Resources Conservation & Management, Agriculture Research Center, Ministry of Agriculture & Forestry	Lao PDR
Jacqueline	FOFIFA	Madagascar
Aime Lala Razafinjara	FOFIFA, Ministry of Agriculture and Rural Development	Madagascar
Rabeson Raymond	FOFIFA (Madagascar) Chief of Department of Rice Research	Madagascar
Yaro Niamoye Diarisso	IER	Mali
Abdoulaye Hamadoun	IER	Mali
Boureimùa Dembele	IER	Mali
Gaoussou Traore	NCoS/RCoE	Mali
Salimata Dembele	IER	Mali
Baba Ahmed Naghra	CNRADA	Mauritania
Carlos Zandamella	IIAM	Mozambique
Aboubacar Ichahou	INRAN	Niger
Vivian Ojehomon	National Cereals Research Institute (NCRI), Nigeria	Nigeria
Abo M E.	Head of Rice Hub, Director Research Operations Department,	Nigeria
Bulus Sube	National Agricultural Seeds Council	Nigeria

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Name	Title/Organization	Country
Chijioke Osuji	Post-Harvest Specialist, Rural Transformation Agenda, AfricaRice	Nigeria
Danbaba Nahemiah	Post-Harvest Specialist, NCRI, Badeggi	Nigeria
Francis Nwilene	Regional Representative & Coordinator, AfricaRice	Nigeria
Gbenga Akinwale	Seed Specialist, AfricaRice	Nigeria
Honore Kam	Postdoc, AfricaRice	Nigeria
Idinoba Philip	Rice Value Chain Leader, Rural Transformation Agenda, AfricaRice	Nigeria
Ikhadeunu Arrende Anew	Rice Value Chain Leader, Federal Dept of Agriculture	Nigeria
L.T. Ogunremi	NCRI	Nigeria
Mamadou Fofana	Physiologist, AfricaRice	Nigeria
Mande Semon	Upland Rice Breeder, AfricaRice	Nigeria
Mavrotas George	IFPRI Rep, Abuja, Nigeria	Nigeria
Olu Osiname	TRA Team Leader, Rice Transformation Agenda, FMARD, Abuja	Nigeria
Salami Olaitan S.	National Coordinator, NRMC Ibadan	Nigeria
Samuel Bakare	NCRI	Nigeria
Tswako Maji Alhassan	Rice Breeder, NCRI, Badeggi	Nigeria
Umolu Thaddeus	National Agricultural Seeds Council	Nigeria
Venuprassad Ramaiah	Lowland Rice Breeder, AfricaRice	Nigeria
Victor O. Okurywa	Researcher/Lecturer, Department of Agric. Econ, University Ibadan, Ibadan	Nigeria
Vivian Ojehomon	Agricultural Economist, NCRI, Badeggi	Nigeria
Aleida Vigil	INIA	Peru
Carlos Bruzzone	El Potrero, ex-INIA	Peru
Eduin Chaves	Rice grower	Peru
Fernando Monteiro	INIA	Peru

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Name	Title/Organization	Country
Olivier Husson	AfricaRice/CIRAD	Peru
Orlando Palacios	INIA	Peru
Bas Bouman	IRRI	Philippines
Thelma Padolina	Senior Research Scientist, PhilRice	Philippines
David Johnson	IRRI	Philippines
Eero Nissila	IRRI	Philippines
Finbarr Horgan	IRRI	Philippines
Fiona Hay	IRRI	Philippines
Hei Leung	IRRI	Philippines
Sonia Akter	IRRI	Philippines
Takashi Yamano	Senior Scientist IRRI	Philippines
V. Bruce J. Tolentino	IRRI	Philippines
Yoichiro Kato	IRRI	Philippines
Hope Webber	IRRI	Philippines
Liz Humphreys	Water Scientist IRRI	Philippines
Martin Gummert	Senior Scientist in Postharvest Development, IRRI	Philippines
Matthew Morrell	Deputy Director-General, Research, IRRI	Philippines
Nese Sreenivasulu	Head of Grain Quality and Nutrition Center IRRI	Philippines
Noel Magor	Head of Training Center and Manager of the Rice Knowledge Bank, IRRI	Philippines
Paul Fox	IRRI	Philippines
Robert Ziegler	IRRI Director General	Philippines
Rosa Paula Cuevas	IRRI	Philippines
Sam Mohanty	Head of Social Sciences Division, IRRI	Philippines

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Name	Title/Organization	Country
Abdelbagi M Ismail	IRRI	Philippines
Balde Alpha Bocar	Agronomy/Climate Change, AfricaRice	Senegal
Bimpong Isaac Kofi	Molecular Breeder, AfricaRice	Senegal
Cissé Madiama	Agronomist, ISRA	Senegal
Cissokho Saibane	Accountant, ISRA	Senegal
Diagne Mandiaye	Agricultural Economist, AfricaRice	Senegal
Diop Bintou	Vice Presidente, Khaar Yala Gueye	Senegal
Diop Papa Madiama	Agricultural Machinery, ISRA	Senegal
Djaman Koffi	Scientist, AfricaRice	Senegal
El-Namaky Raafat	Rice Breeder, AfricaRice	Senegal
Fall Alioune	ISRA	Senegal
Fall Amadou Abdoulaye	Agro-Economist, ISRA	Senegal
Faye Oumar Ndour	Rice Breeder, ISRA	Senegal
Guèye Fota	Head Documentation, ISRA	Senegal
Gueye Sawdjatou	Présidente, Khaar Yala Gueye	Senegal
Maimouna Ndour	Research Assistant, Sociologist, AfricaRice	Senegal
Malick Ndiaye	GIE-Agritech	Senegal
Manneh Boubacarr	Rice Breeder, AfricaRice	Senegal
Massiyandima Mutsa	Hydrologist, AfricaRice	Senegal
Mbaye Abdoul-Aziz	Plant Pathologist, ISRA	Senegal
Mbodj Yamar	Hub Rural	Senegal
Moukoumbi Yonnelle Déa	Scientist, AfricaRice	Senegal
Ndao Seyni	Director General, SAED	Senegal

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Name	Title/Organization	Country
Ndiawar Diop	President Union de Boundoum FPA & ASPRODEP	Senegal
Ndiaye A. Malick	Conception & Fabrication de Materiel Agricole & Industriel, Fourniture et Installation, GIE Agritech	Senegal
Ndiaye Mamadou Kabirou	Regional Representative, AfricaRice	Senegal
Ndiaye Ousseynou	Responsable UNIS Union national Interprofessionnelle	Senegal
Ndiaye Ramatoulaye	Soil Scientist, ISRA	Senegal
Ngom Abdoul-Aziz	Head Administration, ISRA	Senegal
Njoya Aboubakar	Programme Director, CORAF/WECARD	Senegal
Penda Gueye	FEPRODES	Senegal
Sall Mamadou	Hydrobiology, ISRA	Senegal
Sarr Fallou	ITA	Senegal
Sérémé Paco	Acting Executive Director, CORAF/WECARD	Senegal
Sow Aminata Ba	Gender Specialist, ISRA	Senegal
Thiam Amadou	Directeur Développement & Appui aux Collectivités Locales (DDAC), SAED	Senegal
Traore El Hajj	ISRA	Senegal
Traoré Karim	Expert Qualité du grain & système semencier, AfricaRice	Senegal
Joseph M. Kargbo	SLARI	Sierra Leone
Akshaya Kamath	Head of Rice, Syngenta	Singapore
David Hoskins	Head, Business Development, Rice, Syngenta	Singapore
Khong Mun Pew	Head PAGA Asia Pacific, Bayer CropScience	Singapore
Mahesh Girdhar	Global Crop Manager Rice, Bayer CropScience	Singapore
Yi Hsing	Academia Sinica	Taiwan
Amé Khady Nani	Molecular Biologist/DES Africa Rice	Tanzania

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Name	Title/Organization	Country
Ashura Luzi-Kihupi	Professor, Sokoine University of Agricultural (SUA)	Tanzania
Bigirimana Joseph	Regional Coordinator IRRI-ESA & Plant Pathologist	Tanzania
Bogdanski Anne	Agriculture Officer, FAO	Tanzania
Chisawillo Peter	Owner/Private Manufacturer, Intermech Engineering Ltd.	Tanzania
Cissoko Mamadou	Molecular Biolgist/PDF, AfricaRice	Tanzania
Florence Muvella	Msufiniula Irrigation Scheme (Kilombero Valley Hub)	Tanzania
Gebeyehu Setegn	gronomist, IRRI	Tanzania
Georges Iranga	ARI/Cholima	Tanzania
Judith Hubert	AfricaRice, Sokoine University of Agricultural (SUA)	Tanzania
Kajiru Geoffrey	Director DRD/MAFC	Tanzania
Kamanda Josey	PDF/Innovation Systemss, AfricaRice	Tanzania
Kanyeka Zakaria	Rice Breeder/Tanzania, IRRI	Tanzania
Kayeke Juma Mohamed	Agronomist, Michocheni Agricultural Research Institute	Tanzania
Kessy Theodore T	Breeding TF Focal Point, ARI-Katrin/Ifakara	Tanzania
Kiepe Paul	Regional Representative, AfricaRice	Tanzania
Kitulu Joshua	Agronomist, ARI-Katrin/Ifakara	Tanzania
Kulwa Furahisha	Post-Harvest & Processing, ARI-Katrin/Ifakara	Tanzania
Lupembe Allen	Research Technician, AfricaRice DES	Tanzania
Mangu Juliana	Field Technician, ARI-Katrin/Ifakara	Tanzania
Mbembela Peter	Irrigation Technician, Ruvu Irrigation Scheme (Ruvu Cooperative Members)	Tanzania
Mchijuko Tunu	Board member, Ruvu Irrigation Scheme (Ruvu Cooperative Members)	Tanzania
Mghase Jerome	Actg Officer in Charge, ARI-Katrin/Ifakara	Tanzania

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Name	Title/Organization	Country
Mhaiki rietha	Secretary, Ruvu Irrigation Scheme (Ruvu Cooperative Members)	Tanzania
Mkuya Mohamed S.	IRRI/Dakawa, ARI/Dakawa/Cholima ARC	Tanzania
Mmanga Omar Mohamed	Environmental Science, ARI-Katrin/Ifakara	Tanzania
Mnyinga Fred	IRRI	Tanzania
Mujawamariya Gaudiose	Value Chain Economist, AfricaRice	Tanzania
Murori Rosemary	Breeder, IRRI	Tanzania
Phrek Gypmantasiri	Chiang Mai University, member of the IRRC meta-impact assessment team	Thailand
Soong Chotechuen	Senior RD rice researcher, formerly head of rice genebank	Thailand
Vorapong Chamarerk	Senior RD rice researcher oversees CURE and CORIGAP as well as molecular rice work, formerly CURE rainfed lowland rice working group	Thailand
Waree Chaithep	Formerly deputy director of Rice Department and CURE upland rice working group	Thailand
Wyn Ellis	Sustainable Rice Platform, Bangkok	Thailand
Koffi Akaror	AfricaRice/Retiree	Togo
Koffi Tamara	ITRA	Togo
Achim Dobermann	Rothamsted Res	UK
Gonzallo Zorrilla	Director of the National Rice Research Program at INIA-Uruguay, former Director of FLAR	Uruguay
David Spielman	IFPRI	USA
Eija Pehu	Science Advisor, World Bank	USA
Georgia Eizenga	ARS, USDA	USA
Karen Brooks	PIM Director, IFPRI	USA
Michael Johnson	IFPRI	USA

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Nora Lapitan	USAID	USA
Tim Dalton	Kansas State University	USA

Evaluation of the CGIAR Research program on GRiSP

Name	Title/Organization	Country
Tom Walker	Consultant and Evaluator, CSISA	USA
Susan McCouch	Cornell University	USA
Marco Antonio Acevedo Barona	Director of Research at Escuela Socialista de Agricultura Tropical, Leader of the Rice Program at INIA Venezuela	Venezuela
Grant Singleton	IRRI	Vietnam
Ho Van Chien	Director, Southern Region Plant Protection Center, Tien Giang Province	Vietnam
Le Quoc Cuong	Deputy Director, Southern Region Plant Protection Center, Tien Giang Province	Vietnam
Ngo Dang Phong	IRRI	Vietnam
Nguyen Ngoc De	Vice Dean of College of Rural Development, Can Tho University	Vietnam
Nguyen Quang Tuyen	Senior Lecturer in Social Science, Can Tho University	Vietnam
Nguyen Thi My Phung	Deputy Director, An Giang DARD, Can Tho University	Vietnam
Pham Thi Minh Hiey	DARD Deputy Director, Can Tho University	Vietnam
Pham Van Quynh	Director, Department of Agriculture and Rural Development, Can Tho University	Vietnam
R Wassmann	IRRI	Vietnam
Tran Van Hao	Horticulture, Can Tho University	Vietnam
Senthilkumar Kalimuthu	Syste Agronomist	Vietnam
Mchijuko Tunu		
Maurício Fisher	DDG-R&D, IRGA	
Sidi Val Sidi Yeslem	Private Mechanization Task Force	

ANNEX D: Survey of GRiSP Researchers

In an online survey conducted from April 28 – June 1, the IEA team evaluating GRiSP invited 204 researchers to participate, of whom 112 responded (including partial), for a 55 percent response rate.

➤ What is your home institution?

Answer Options	Response Percent	Response Count
IRRI	56.8%	63
AfricaRice	33.3%	37
CIAT	6.3%	7
CIRAD/IRD	3.6%	4
<i>answered question</i>		111
<i>skipped question</i>		1

➤ Gender

Answer Options	Response Percent	Response Count
Male	78.4%	87
Female	21.6%	24
<i>answered question</i>		111
<i>skipped question</i>		1

➤ CGIAR Tenure (time at current institution)

Answer Options	Response Percent	Response Count
0-2 Years	29.7%	33
3-5 Years	31.5%	35
6-10 Years	23.4%	26
> 10 years	15.3%	17
<i>answered question</i>		111
<i>skipped question</i>		1

➤ What is your research position?

Answer Options	Response Percent	Response Count
Program/ Theme Leader	6.3%	7
PI/ Senior Scientist	35.1%	39
Scientist	32.4%	36
Research Fellow	0.0%	0
Postdoctoral Fellow	24.3%	27
Other	4.5%	5
<i>answered question</i>		111
<i>skipped question</i>		1

➤ What is your research area?

Answer Options	Response Percent	Response Count
Genetics and plant breeding	44.1%	49
Crop/ NRM	27.9%	31
Social sciences	12.6%	14
Other	21.6%	24
<i>answered question</i>		111
<i>skipped question</i>		1

➤ In what country are you currently based?

Answer Options	Response Percent	Response Count
Philippines	45.9%	51
Benin	13.5%	15
Colombia	9.0%	10
Tanzania	9.0%	10
Senegal	6.3%	7
India	5.4%	6
Nigeria	3.6%	4
Myanmar [Burma]	2.7%	3
Japan	1.8%	2
Madagascar	1.8%	2
Bangladesh	0.9%	1
Other	0.0%	0

- For which CRP(s) do you currently work? Please estimate the proportion of your total working time spent on each CRP.

CRP	# contributors to CRP	Avg. strength of contribution (in % time spent on CRP)
GRiSP	106	88%
CCAFS	16	23%
A4NH	4	23%
Grain Legumes	4	23%
RTB	3	27%
All others	12	19%
<i>answered question</i>	108	
<i>skipped question</i>	4	

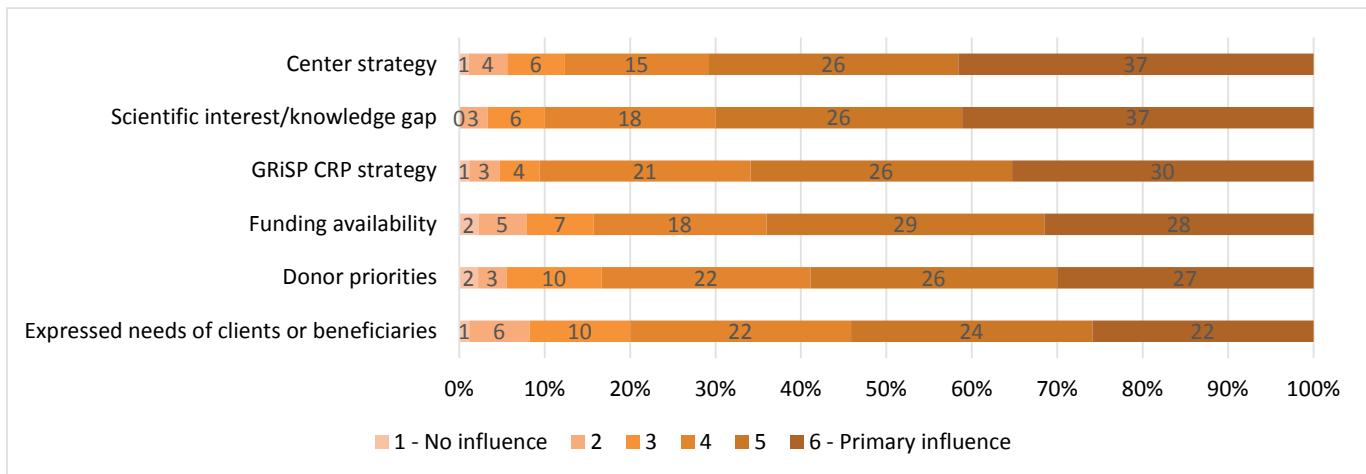
- To which Themes do you contribute in GRiSP? Please rank according to time spent.

Theme	# contributors to Theme	# non-contributors to Theme	Avg. strength of contribution (1 = most; 6 = least)
Theme 1	72	36	2.25
Theme 2	75	33	1.89
Theme 3	70	38	2.09
Theme 4	53	55	3.66
Theme 5	56	52	3.27
Theme 6	59	49	4.02
<i>answered question</i>	108		2.76
<i>skipped question</i>	4		

- How well do you know the CRP GRiSP?

Answer Options	Percent	Count
"I have participated in designing GRiSP" or "have read key program documents and know the program structure, objectives, main theories of change, Intermediate Development Outcomes (IDOs) and key organizations involved."	67.6%	73
"I have some knowledge of the CRP structure and objectives" but know little of it beyond "the Theme(s) that my work contributes to."	32.4%	35
<i>answered question</i>	108	
<i>skipped question</i>	4	

- What is your perception of the factors influencing the choice of research topics in the Themes you mostly contribute to?

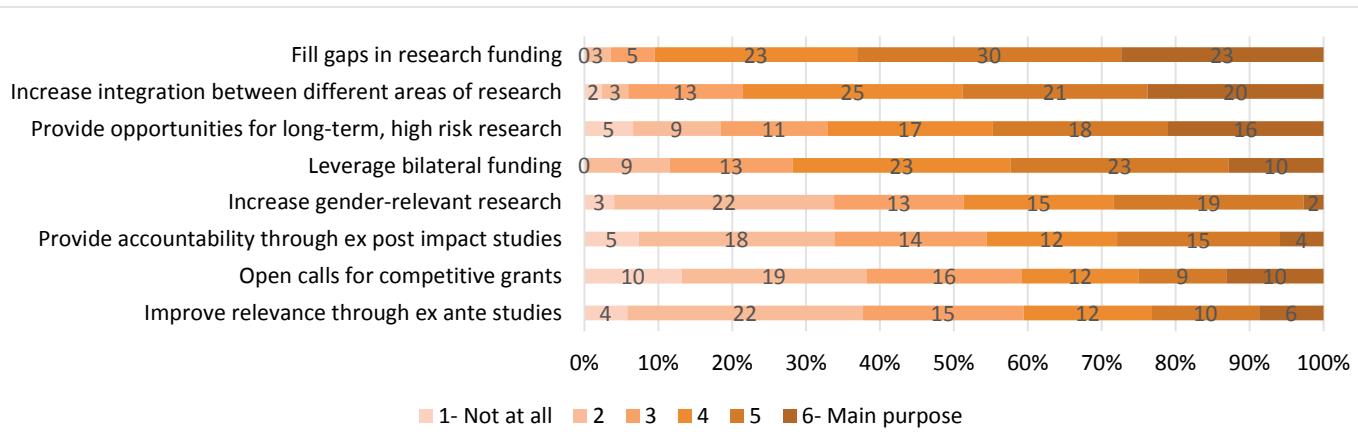


- Regarding the balance among different kinds of activities in the GRiSP Themes you mostly contribute to, please indicate in percentages your perception of the current balance and whether the emphasis should be changed.

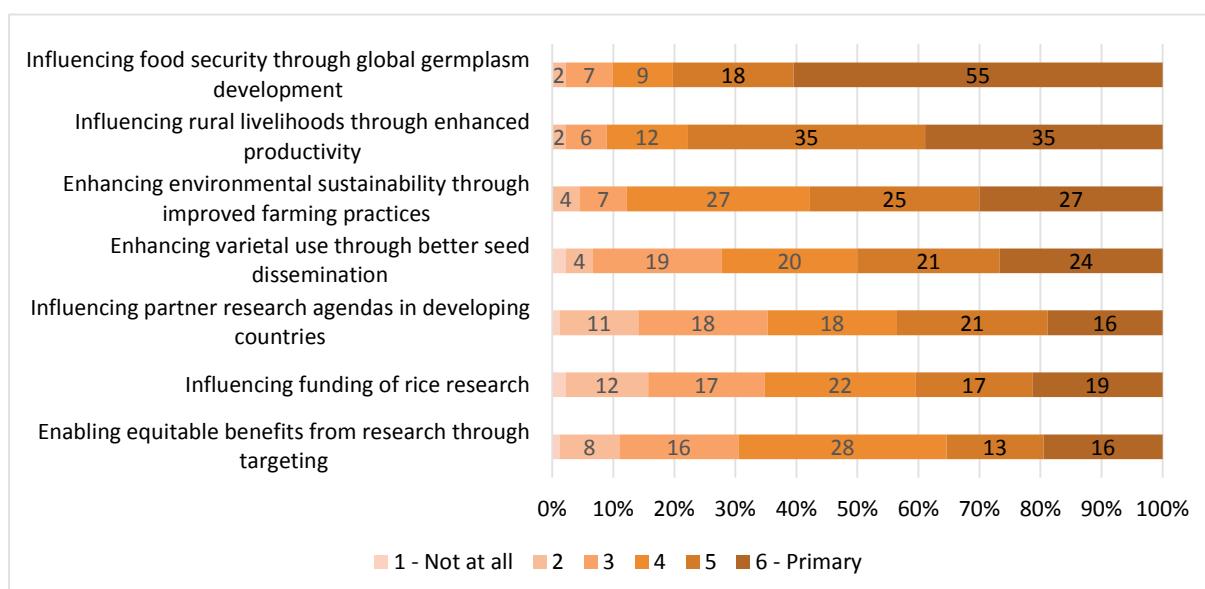
“Current balance” (Actual) vs. “Where emphasis should be” (Ideal)

	Actual	Ideal
Strategic research to produce international public goods (IPG)	39%	39%
Local or adaptive research for synthesis to global research	29%	33%
Scaling-out of research results	25%	30%
Capacity development	24%	29%
Technical assistance	20%	21%
“Blue sky,” high risk research	14%	20%

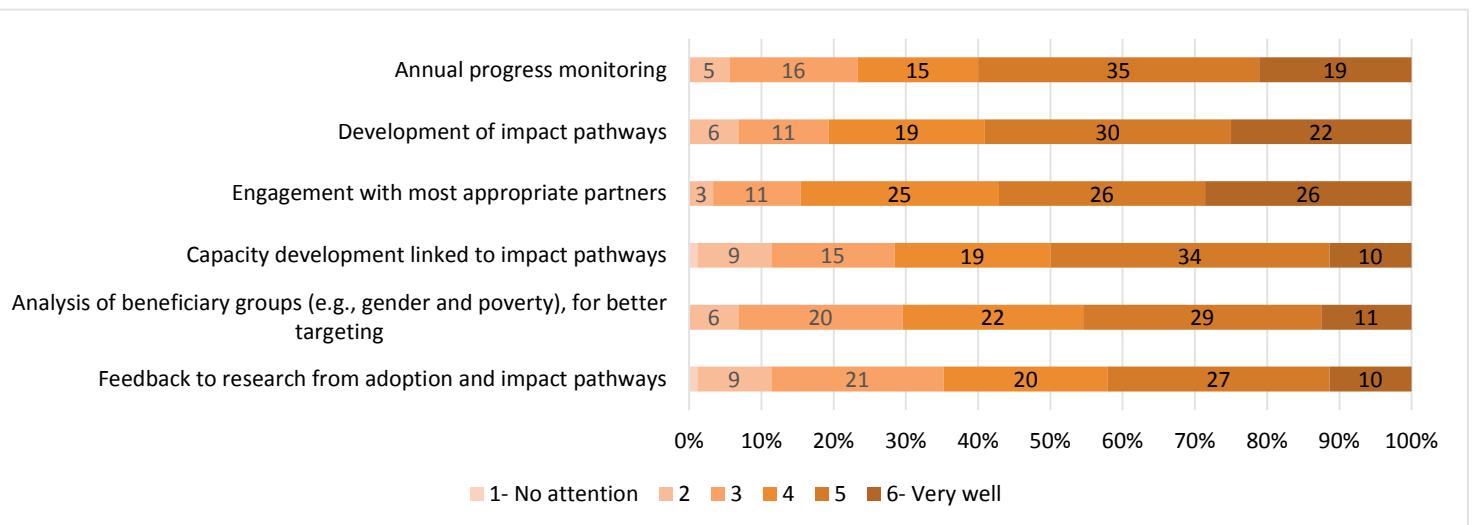
- The CRP receives funding from different sources where the Windows 1 and 2 are of least restricted type. What is your view of how W1/2 funds are used in GRiSP?



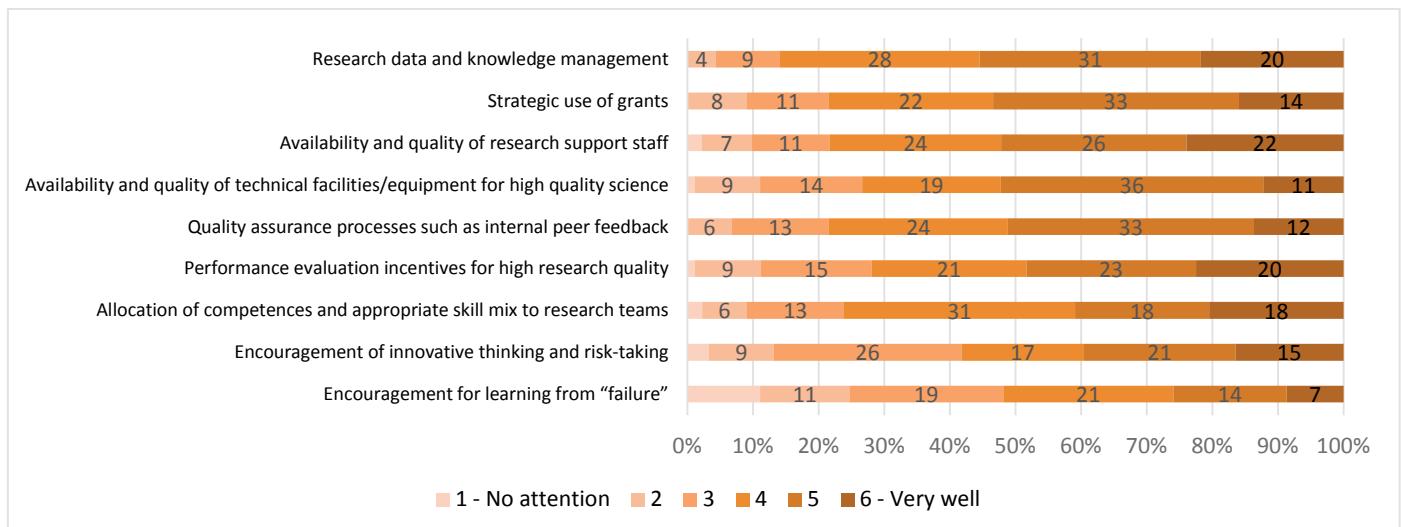
- In your view, what are the primary impact pathways for research through which GRiSP aims to have impact?



- In your view, how well managed in GRiSP are the following aspects of enhancing research effectiveness?

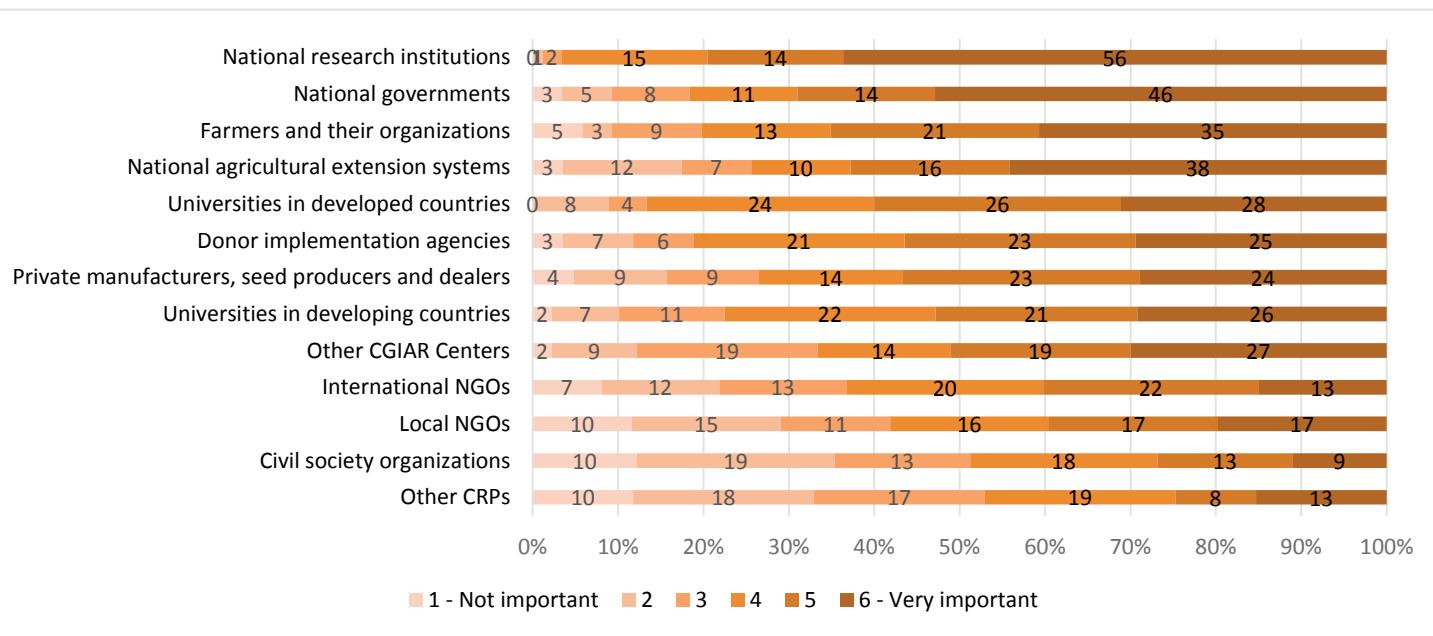


- In your view, how well managed are the following aspects for assuring and enhancing high quality of research?

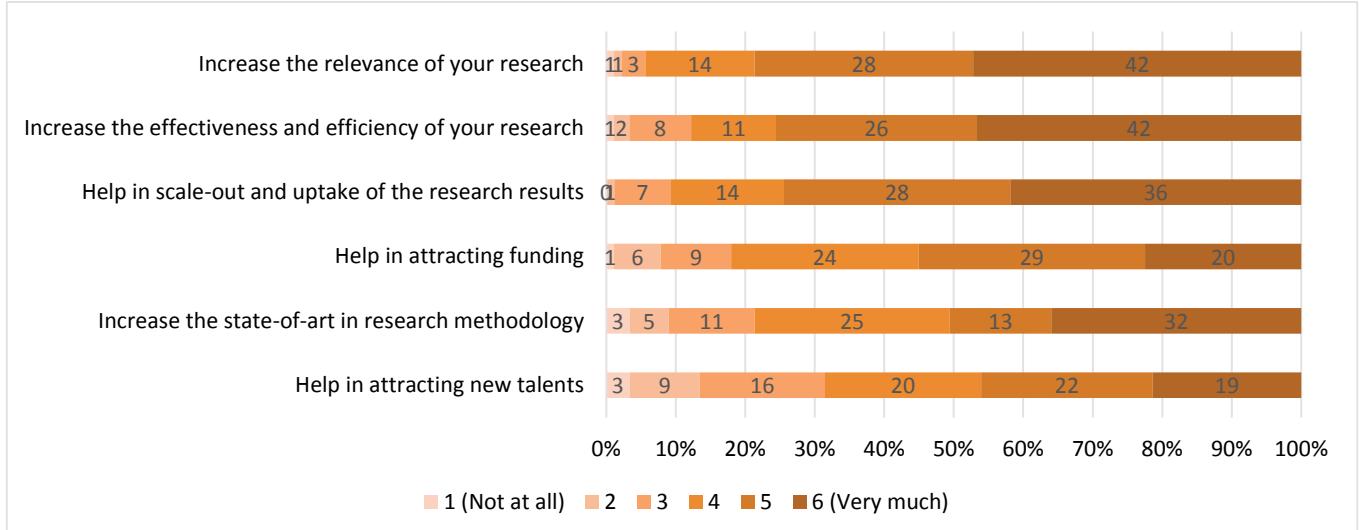


- How important are the following types of partners to the work you do?

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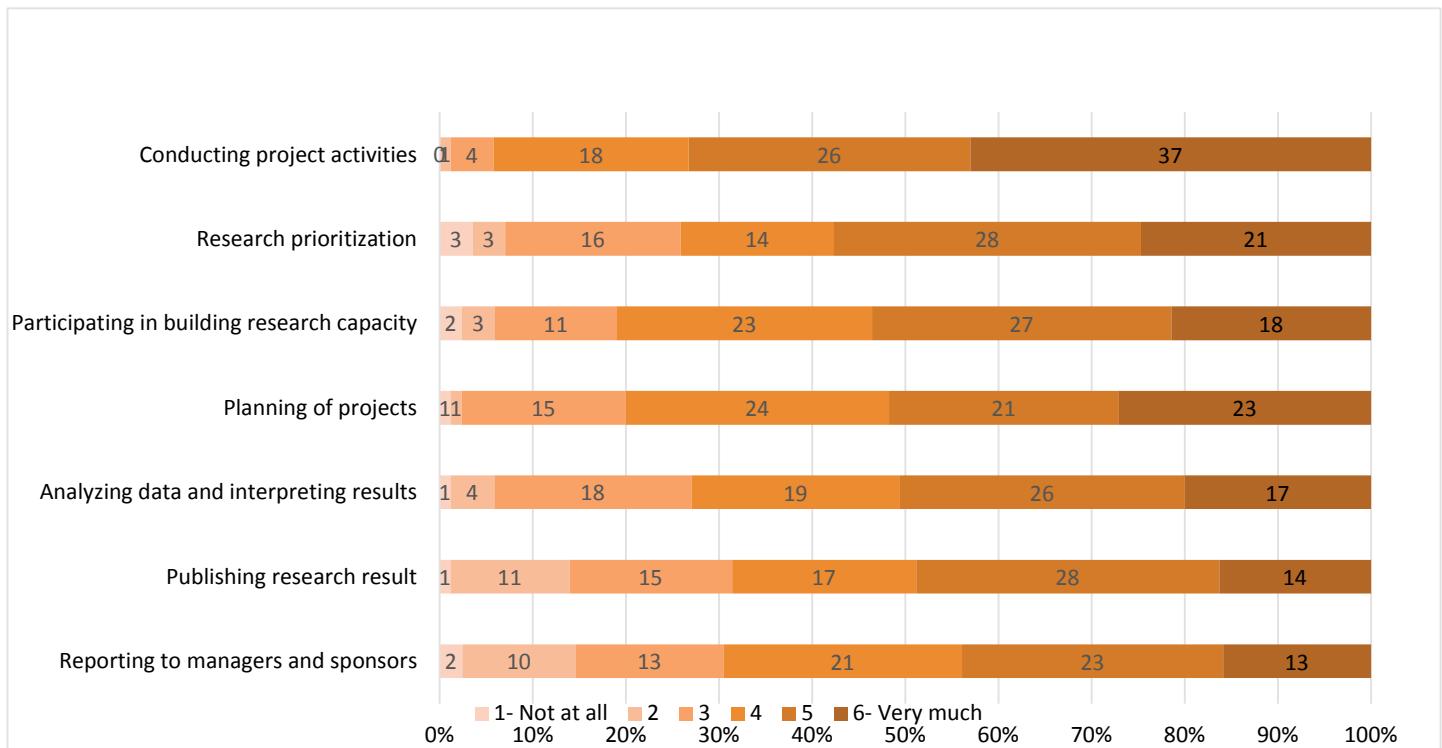


- In your view, to what extent do the current partnerships improve your research in the areas listed below?

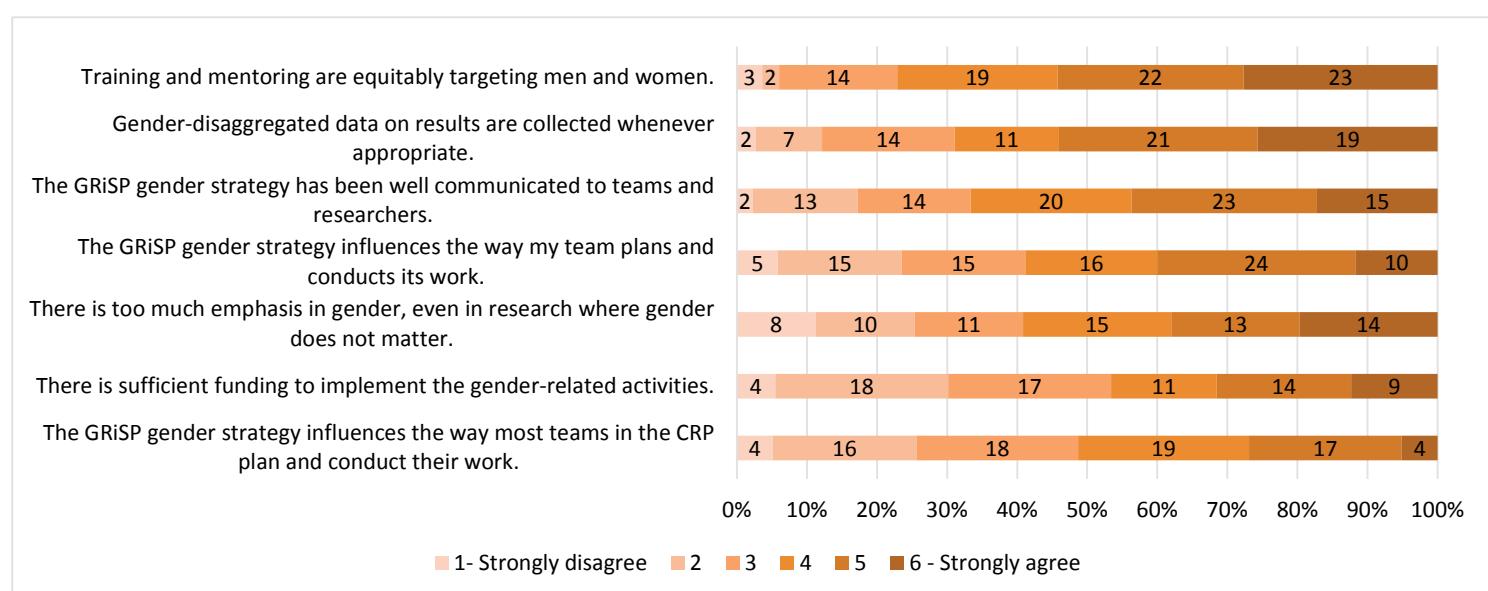


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- In your view, to what extent are your partners in GRiSP involved in program activities as listed below?

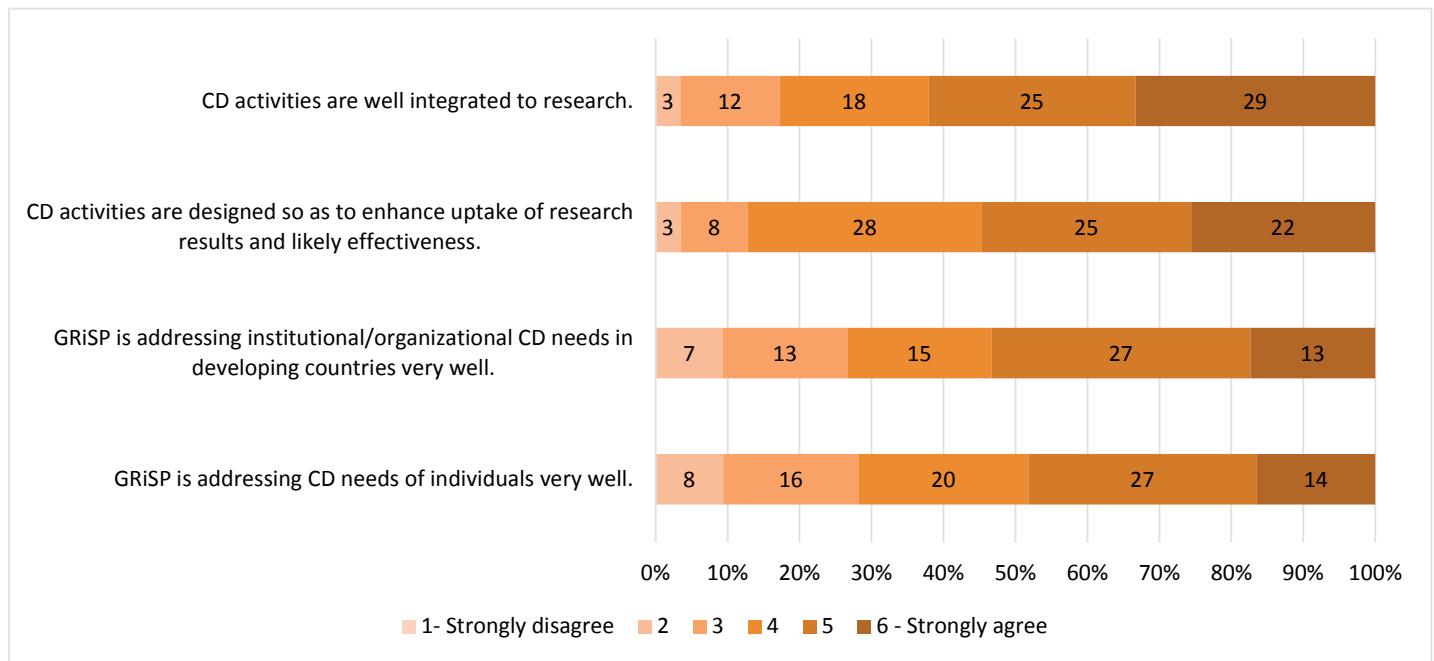


- Please indicate your agreement with the following statements related to mainstreaming of gender issues in your work in GRiSP.

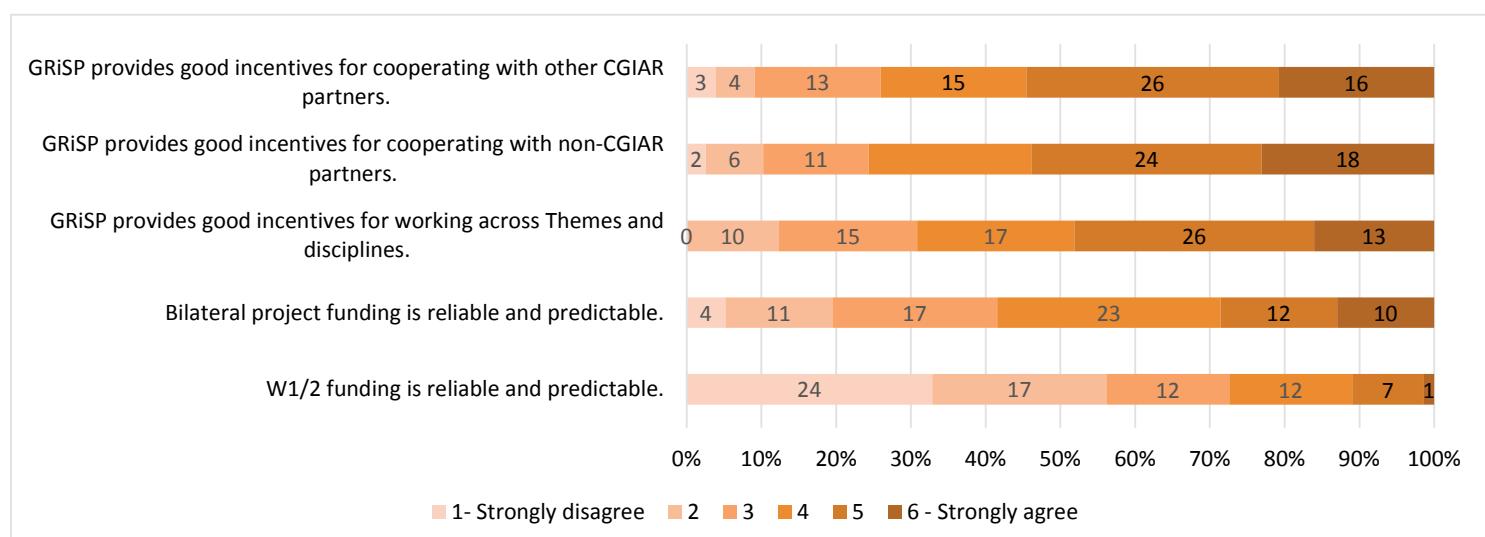


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- Please indicate your agreement with the following statements related to capacity development (CD) in your work in GRiSP.



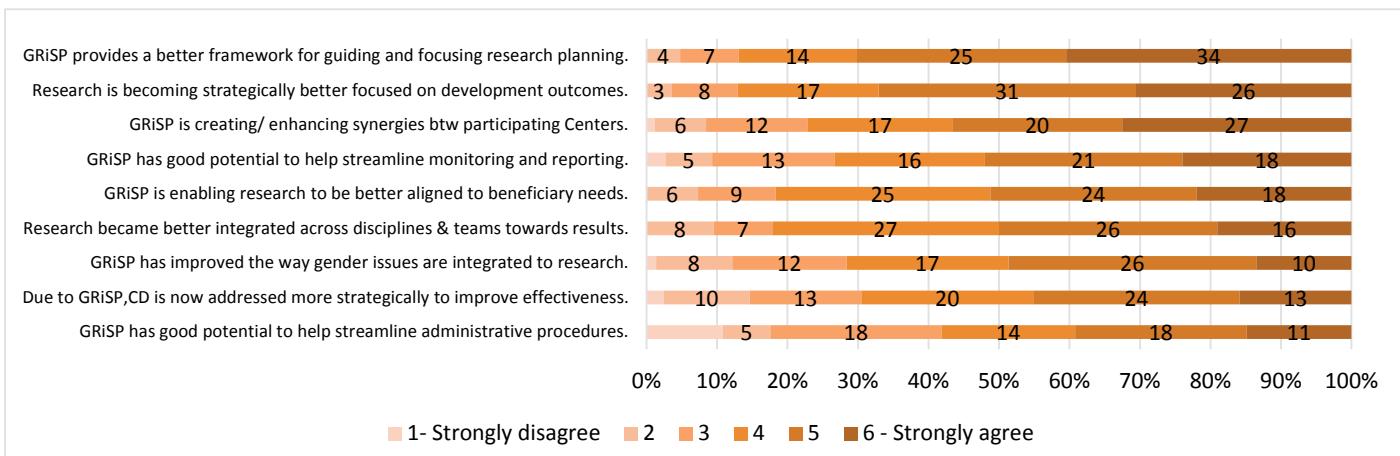
- Please indicate your agreement with the following statements related to incentives in GRiSP.



- Please indicate your satisfaction with the amount of time you allocate to the following activities, using a scale of 1-5 where 1 is "too little," 3 is "just right," and 5 is "too much."

(average) rating	
To management, administration and reporting (within the CGIAR and to donors)	3.40
To travel and meetings	3.10
To adaptive/applied research (national public goods)	3.02
To coordination among partners (CGIAR and non-CGIAR)	2.98
To delivery and extension of research results (local public goods)	2.93
To training and mentoring	2.87
To basic/strategic research (international public goods)	2.80

- Please indicate your agreement with the following statements related to the value GRiSP has had or is likely to have in influencing the success of your research, as compared to past Center-based implementation of the research.



ANNEX E: List of sample projects reviewed

IRRI bilateral projects selected for case study in-depth review

Grant Title	Case Study PLs	Average Annual Budget (USD)	Start Year	Duration (Years)	Donor
Stress-tolerant rice for poor farmers in Africa and South Asia (STRASA) (Phase 2)	2.3; 2.4; 3.1; 3.3; 5.1; 6.1; 6.4	\$6,588,448	2011	3	Bill & Melinda Gates Foundation
STRASA Phase 3 – Stress-Tolerant Rice for Africa and South Asia	2.3; 6.2	\$6,479,442	2014	5	Bill & Melinda Gates Foundation
Expansion of Cereal Systems Initiative for South Asia (CSISA) in Bangladesh	6.2	\$4,691,499	2010	5	United States Agency for International Development
Reinvesment 51586 C4-Rice Phase 2: Supercharging Photosynthesis	N/A	\$3,610,110	2012	4	Bill & Melinda Gates Foundation
Developing the Next Generation of New Rice Varieties for Sub-Saharan Africa and Southeast Asia	1.3; 2.3; 2.4; 6.1; 6.4	\$3,479,504	2010	6	Ministry of Finance - Japan
Creating the second Green Revolution by supercharging photosynthesis: C4-rice	N/A	\$3,003,324	2008	4	Bill & Melinda Gates Foundation
Transforming Rice Breeding	2.3; 2.4	\$2,480,968	2013	5	Bill & Melinda Gates Foundation
Hybrid Rice Development Consortium (Management)	N/A	\$2,390,907			Hybrid Rice Development Consortium Participating Members
Reducing food insecurity and poverty through development and effective delivery of new stress-tolerant rice varieties (for the EC 2013 Allocation)	1.3; 2.1; 3.1; 3.2	\$2,067,248	2013	1	International Fund for Agricultural Development
Cereal Systems Initiative for South Asia (CSISA) (BMGF component) (Phase II)	2.3; 2.4; 3.1; 5.1; 6.1; 6.2	\$2,063,114	2012	3	Centro Internacional de Mejoramiento de Maiz y Trigo

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Accelerating Adoption of Stress-Tolerant Varieties by Smallholder Farmers in Nepal and Cambodia	N/A	\$2,000,000	2014	3	United States Agency for International Development
"Green Super Rice" for the Resource-Poor of Africa and Asia - Phase II (funded by BMGF)	2.3; 2.4; 3.1; 3.3; 5.1; 6.1; 6.4	\$1,766,667	2012	3	Chinese Academy of Agricultural Sciences
CORIGAP: Closing Rice Yield Gaps in Asia (Phase I)	3.1; 4.1; 5.1	\$1,314,589	2013	4	Swiss Agency for Development and Cooperation
Cluster Demonstration on Stress Tolerant Rice Varieties under NFSM Rice 2012-2015	2.3	\$1,211,294	2012	3	Ministry of Agriculture - India
DFID Funding to International Rice Research Institute for 2010	N/A	\$1,199,609	2010	1	Department for International Development
Green Super Rice for the Resource-Poor of Africa and Asia (funded by BMGF)	1.3; 2.3; 2.4; 3.1; 5.1	\$1,158,192	2008	4	Chinese Academy of Agricultural Sciences
The Irrigated Rice Research Consortium (IRRC), Phase IV - Platform for Poverty Alleviation	3.1; 4.1; 6.3	\$1,145,513	2009	4	Swiss Agency for Development and Cooperation
Reducing food insecurity and poverty through development and effective delivery of new stress-tolerant rice varieties (for the EC 2011 Allocation)	N/A	\$1,053,403	2011	1	International Fund for Agricultural Development
Season-long Rice Farming Extension Training Program for Africa	6.4	\$1,003,726	2011	4	Japan International Cooperation Agency
Cereals Systems Initiative for South Asia (India Mission)	1.3; 2.3; 2.4; 6.2	\$1,000,000	2011	1	United States Agency for International Development
Extension Capacity Development for Rice Food Security in Africa (A JICA-IRRI Initiative)	N/A	\$1,000,000	2015	5	Japan International Cooperation Agency
Rice Monitoring System for South Asia (Phase II)	5.1	\$997,637	2014	3	Bill & Melinda Gates Foundation
Strategic Research for Sustainable Food and Nutrition Security in Asia	3.1; 4.1	\$878,248	2010	3	Asian Development Bank - Philippines
Sustainable Soil Management for Food Security of Poor, Small and Marginal Farmers of Active Flood Plain and Charlands of Bangladesh (SUSFER)	3.1; 6.1; 6.2	\$870,035	2010	3	European Commission

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Climate Change affecting Land Use in the Mekong Delta: Adaptation of Rice-based Cropping Systems (CLUES)	3.3	\$860,487	2011	4	Australian Centre for International Agricultural Research - Australia
Regional Rice Monitoring Pilot for South Asia	5.1	\$690,327	2013	1	Bill & Melinda Gates Foundation
Development and Dissemination of Climate-Resilient Rice Varieties for Water-Short Areas of South Asia and Southeast Asia	2.3	\$651,786	2014	2	Asian Development Bank - Philippines
Addressing the Pre- and Post-Harvest Challenges of the Rice Supply Chain	3.1; 4.1	\$628,861	2010	3	Asian Development Bank - Philippines
Improved rice germplasm for Cambodia and Australia	2.3	\$580,017	2010	5	Australian Centre for International Agricultural Research - Australia
Increasing productivity of direct seeded rice areas by incorporating genes for tolerance to anaerobic conditions during germination (Large Grant)	1.3; 2.3; 3.3	\$525,533	2013	3	German Federal Ministry for Economic Cooperation and Development
Scientific Know-how and Exchange Program (SKEP II Syngenta)	2.4; 3.3	\$524,207	2013	6	Syngenta Asia Pacific Pte. Ltd.
Safeguarding Asian Rice Production from a Rapidly Warming Climate (Large Grant)	1.3; 2.3	\$443,680	2012	3	German Federal Ministry for Economic Cooperation and Development
Diversification and Intensification of Rice-Based Systems in Lower Myanmar	3.1	\$437,422	2012	4	Australian Centre for International Agricultural Research - Australia
Improved rice crop management for raising productivity in submergence-prone and salt-affected rainfed lowlands in South Asia	2.3; 3.3; 6.2	\$423,846	2010	3	International Fund for Agricultural Development
From QTLs to Variety: Pyramiding Major Drought Responsive QTLs for Sustainable Rice Yields in Asia and Africa (BMZ Large Grant)	1.3; 2.3	\$394,335	2011	4	German Federal Ministry for Economic Cooperation and Development
Tracking Changes in Rural Poverty in Household and Village Economies in South Asia (Gates-Village Level Surveys (Gates-VLS)) (funded by BMGF)	5.1	\$336,757	2009	6	International Crops Research Institute for the Semi-Arid Tropics

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Enhancing and Stabilizing the Productivity of Salt-Affected Areas by Incorporating Genes for Tolerance of Abiotic Stresses in Rice (CFP2007)	1.3	\$314,822	2008	4	German Federal Ministry for Economic Cooperation and Development
Sustainable intensification of rice-maize production systems in Bangladesh (joint project with CIMMYT)	6.2	\$306,070	2008	6	Australian Centre for International Agricultural Research
Climate Change Adaptation in Rainfed Rice Areas (CCARA) (Japan-IRRI Collaborative Project Phase VI)	2.3	\$305,378	2010	5	Ministry of Agriculture Forestry and Fisheries - Japan
Rice Multi-parent Advanced Generation Inter-Crosses (MAGIC) Phase II	N/A	\$258,578	2011	3	Generation Challenge Programme: Cultivating Plant Diversity for the Resource Poor
Decoding rice genetic diversity- a public resource for discovering new genes for rice improvement (Oryza SNP Consortium Project)	N/A	\$253,067	2008	5	Centre de coopération internationale en recherche agronomique pour le développement (CIRAD)
Rice Crop Manager: A Comprehensive Decision Support Tool for Increasing Yields and Income for Farmers in the Philippines – Year 2	3.1; 6.1	\$230,541	2014	1	Bureau of Agricultural Research - Philippines
Project G1: Resource profiles, extrapolation domains and land-use patterns	N/A	\$228,167	2011	4	CGIAR Challenge Program on Water and Food
AXA Chair in Genome Biology and Evolutionary Genomics	N/A	\$138,045	2014	5	AXA Research Fund
Developing multi-scale climate change adaptation strategies for farming communities in Cambodia, Laos, Bangladesh and India (funded by ACIAR)	3.3	\$137,486	2010	5	Commonwealth Scientific and Industrial Research Organisation
Agricultural Research for Development in Portuguese-Speaking Africa: Enhancing Local Research Capacity and Helping to Address Local Challenges	2.4	\$130,906	2014	4	Instituto de Investigacao Cientifica Tropical (CIAT)
Technical support for sustainable rice production program under Agricultural Competitiveness Project (ACP)	3.1; 6.3	\$109,187	2013	1	Ministry of Agriculture and Rural Development - Vietnam

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Increasing Economic and Food Security in Burundi through Rice Production (Phase II) (funded by Liang)	6.1	\$75,000	2012	4	The IRRI Foundation Hong Kong
ARC Centre of Excellence for Translational Photosynthesis (funded by ARC)	N/A	\$0	2014	7	Australian National University

AfricaRice bilateral projects selected for case study in-depth review

Grant Title	Case Study PIs	Average Annual Budget (USD)	Start Year	Duration (Years)	Donor
Multinational-CGIAR project 'Support Agricultural Research for Development of Strategic Crops in Africa (SARD-SC)	N/A	\$3,875,000	2012	4	Benin, Côte D'Ivoire, Ethiopia, Ghana, Madagascar, Niger, Nigeria, Senegal, Sierra Leone, Tanzania, and Uganda
Stress tolerant rice for poor farmers in Africa and South Asia - Phase 3	1.3; 2.1	\$1,600,000	2014	5	Nigeria, Benin, Senegal, Burkina Faso, Ghana, Guinea, Gambia, Mali, Mozambique, Tanzania, Uganda, Ethiopia, Madagascar, Rwanda, Côte D'Ivoire, Sierra Leone, Burundi, Kenya
Developing the next generation of new rice varieties for sub-Saharan Africa and Southeast Asia	1.3; 2.3; 2.4	\$1,600,000	2010	5	Member countries
Rapid mobilization of alleles for rice cultivar improvement in sub-Saharan Africa	1.3; 2.3	\$1,500,000	2013	5	Nigeria, Burkina Faso, Liberia
Enhancing food security in Africa through the improvement of rice post-harvest handling, marketing and the development of new rice-based products	2.3; 6.1; 6.4	\$1,092,000	2011	5	Cameroon, Gambia, Ghana, Mali, Nigeria, Senegal, Sierra Leone, Uganda
Improving rice farmers' decision making in lowland rice-based systems in East Africa	3.1; 6.1	\$600,000	2015	2	Madagascar, Ethiopia, Rwanda
Improving rice productivity in lowland ecosystems of Burkina Faso, Mali and Nigeria through marker-assisted recurrent selection for drought resistance and yield potential	2.3; 3.3	\$506,843	2010	5.5	Africa

Evaluation of the CGIAR Research program on GRiSP

Strengthening rice value chains in West and Central Africa	3.1; 3.3; 4.1; 5.1; 6.1; 6.4	\$490,000	2013	3	Guinea, Sierra Leone, Senegal and DRC
Green Super Rice project for the resource poor of Africa and Asia (Phase 2)	2.4	\$325,000	2012	4	Nigeria, Mali, Senegal
Enhancing partnership among Africa RISING, NAFAKA and TUBORESHE CHAKULA Programs for fast-tracking delivery and scaling of agricultural technologies in Tanzania	3.1; 3.3; 4.1; 5.1; 5.2; 6.1; 6.4	\$300,000	2014	1	Tanzania
Coalition for African Rice Development (CARD) Mechanization project	6.1; 6.4	\$212,000	2013	2	Sub-Saharan Africa
Joint Africa/Asia research on inter-specific hybridization between African and Asian rice species	3.1; 3.3	\$210,000	2014	1	Sub-Saharan Africa
Catalyzing the adoption and use of scalable technologies in Africa	6.1	\$166,250	2014	2	Benin, Côte D'Ivoire, Guinea, Togo
East African Wetlands: Optimizing sustainable production for future food security	3.3; 4.1	\$141,333	2013	3	Rwanda, Tanzania, and Uganda
Realizing the agricultural potential of inland valley lowlands in sub-Saharan Africa while maintaining their environmental services	2.3	\$127,200	2012	2	Benin, Mali, Liberia, Sierra Leone
Realizing the agricultural potential of inland valley lowlands in sub-Saharan Africa while maintaining their environmental services (SMART-Valleys)	3.3	\$118,911	2014	4	Benin, Togo, Liberia and Sierra Leone
Genomic approaches to understanding resistance and virulence in the cereal-Striga interaction for targeted breeding of durable defense	1.3; 3.3	\$86,692	2012	4	Tanzania, Kenya, Uganda, Madagascar
Validating the services of a decision support system for nutrient management for rice in West Africa	3.1; 6.1	\$68,667	2014	1.5	Ghana, Côte D'Ivoire, Senegal
Integrated management of Rice Yellow Mottle Virus (RYMV) in lowland ecosystem	3.1	\$60,200	2014	1	Western and Central Africa (mainly Burkina Faso, Mali, Benin, Senegal and Niger)

CIAT bilateral projects selected for case study in-depth review

Grant Title	Flagship and cluster	Total budget (USD)	Start Year	Duration (Years)	Donor
Fondo Latinoamericano para Arroz de Riego	2 - Cluster 2.4 4 - Cluster 4.1 6- Cluster 6.1	6,306,838	2007	9	FLAR members
Hybrid Rice Consortium for Latin America HIAAL	2 - Cluster 2.5	864,498	2007	8	HIAAL members
Desarrollo Sostenible de la Orinoquía Colombiana, Cambio Climático, Fortalecimiento del Talento Humano y Trabajo Conjunto en otros temas y áreas de cooperación.	2 - Cluster 2.3	218,328	2011	4	MADR
Contrato RC No.0556-2013 Desarrollo e implementación de nuevas tecnologías que ayuden a aumentar los rendimientos del cultivo del arroz en Colombia, con el fin de mejorar la competitividad del cultivo a nivel regional	2 - Cluster 2.2	354,090			COLCIENCIAS