



Evaluation of the CGIAR Research Program on Roots, Tubers and Bananas (RTB)

Volume 2 – Annexes

December 2015



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Independent
Evaluation
Arrangement

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Correct citation: CGIAR-IEA (2015), Evaluation of CGIAR Research Program on Roots, Tubers and Bananas (RTB). Rome, Italy: Independent Evaluation Arrangement (IEA) of CGIAR

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ANNEX A: Evaluation Team biodata

Team Leader

Jillian Lenné has 36-year career in tropical agricultural research, management & development, including 15 years with CGIAR institutes (CIAT and ICRISAT). She has wide experience as a consultant in project and programme review in more than 30 countries in Latin America, Asia and sub-Saharan Africa; across tropical and semi-arid crop management systems. Most recently Dr. Lenné was Team Leader for the ICARDA Centre-Commissioned External Review (CCER) of integration of crop-livestock research. She has served as Team Leader for the IITA Centre-Commissioned External Review (CCER) of the Systems-wide Programme for Integrated Pest Management, and reviewed the Sub-Saharan Challenge Program at its inception phase. Dr. Lenné also served as Deputy Director General – Research at ICRISAT. She is author, co-author or editor of over 150 publications and co-Editor in Chief of *Field Crops Research*.

Team Members

Milla McLachlan is Professor at the Division of Human Nutrition, Faculty of Health Sciences, University of Stellenbosch in South Africa. She has more than 25 years of experience in international social development, with a focus on food security and nutrition, to support institutional transformation for social and ecological benefit. As an independent consultant her clients in the past have included CIP, IFPRI, UNICEF, NEPAD and the World Bank. Her board and steering committee memberships have included the Sweetpotato for Profit and Health Initiative (SHPI), the Global Alliance for Improved Nutrition (GAIN), and the UN Standing Committee on Nutrition. To understand and facilitate transformative change processes, particularly in food systems, Dr. McLachlan has led capacity building and action research activities, and supported the design, implementation, assessment and documentation of food and nutrition security policies and programs.

KV Raman is Adjunct International Professor of Plant Breeding & Genetics at Cornell University, as well as Associate Director for Special Projects in International Programs, and Faculty Fellow at the David R. Atkinson Center for a Sustainable Future. He has worked extensively on root and tuber crops. In 1977-92 Dr. Raman worked at CIP, conducting research and technology transfer in effective pest control for potato and sweet potato improvement in collaboration with several national programs in Africa, Asia and Latin America. His Ph.D. research included field studies at IITA. Dr. Raman's past consultancies include review of the Cassava Biological Control Program at IITA (UNDP); project review of Cassava genetic resources at CIAT (ISAAA); and reviews of CIP's IPM program in Bolivia and Peru (UK-ODA) and of biotechnology program (USAID). He is an author of over 100 international journal publications on root and tuber crop improvement.

Laurian Unnevehr is Professor Emerita, Department of Agricultural and Consumer Economics, University of Illinois at Urbana-Champaign. She served as Director of the Food Economics Division of USDA Economic Research Service. She spent two years as Senior Research Fellow at IFPRI and at that time was involved in the CRP on Agriculture for Nutrition and Health. Since her Ph.D. dissertation at Stanford on “Cassava Marketing and Price Behavior on Java,” much of Dr. Unnevehr’s research has focused on value chain performance for food security, with emphasis on policy, markets, food safety and quality. Consultancies include service to the Gates Foundation, WTO, OECD, USAID, the World Bank, and IRRI , which is where she began her career as a post-doctoral fellow. She has served on the Editorial Boards of *Food Policy* and the *Review of Agricultural Economics* and in 2009 was recognized as a Fellow of the Agricultural and Applied Economics Association (AAEA).

Selçuk Özgediz is an independent consultant specializing in governance and management issues. During a 34-year tenure at the World Bank, Dr. Özgediz served the CGIAR Secretariat for 27 years. As Management Adviser he promoted changes to improve the overall accountability, health and performance of the CGIAR system. In 2012 Dr. Özgediz prepared a 40-year institutional history of the CGIAR, published by the Fund Office. Among others, he initiated external management reviews of CGIAR centers; governance, leadership and management development programs for CGIAR center executives and served as a resource on system- and center-initiated change management efforts. He is a veteran of over twenty CGIAR External Program and Management Reviews (EPMRs). Recent consultancies include work for the World Bank Inspection Panel on change management, the Russia Department on establishment of a agricultural research institute, the Middle East department on improving the governance of a water management institute, and evaluation of research proposals for the European Commission. Prior to joining the World Bank he taught at Boğaziçi University in Istanbul.

ANNEX B: Itinerary and field visits

Phase/Country	Period	Main outputs	Responsibility
Preparatory Phase	Sep 2014 – Jan 2015	Final ToR Evaluation team recruited	IEA
Inception Phase	Feb 2015 – Apr 2015	Inception meeting Inception Report	Evaluation team
Inquiry phase	May – July 2015	Various analysis products as defined in Inception Report	Evaluation team
Leuven, Belgium	March 2015	Field visit	KV Raman
Montpellier, France	March 2015	Field visit	KV Raman
Lima, Peru	May 2015	Field visit	Selcuk Ozgediz
Vietnam	May 2015	Field visit	Laurian Unnevehr Sirkka Immonen
Philippines	June 2015	Field visit	Laurian Unnevehr
Colombia	May 2015	Field visit	KV Raman Matthew FisherPost
West Africa -Nigeria	June 2015	Field visit	Milla McLachlan Jill Lenné
East Africa -Kenya, Tanzania, Uganda	June 2015	Field visit	Milla McLachlan KV Raman Jill Lenné
Lima, Peru	July 2015	Field visit	Jill Lenné K V Raman
Presentation of preliminary findings	Aug 2015	Interaction with and feedback from main stakeholders	Evaluation team IEA
Reporting phase			
Preparing of Report	Aug – Oct 2015	Draft Evaluation Report Final Evaluation Report	Evaluation team
Management Response	Dec 2015	Management Response	CRP Management
Dissemination phase	Dec 2015	Communications products	IEA Team Leader CRP Management

ANNEX C: Survey of RTB researchers

In an online survey conducted from 18 June-14 July, the IEA team evaluating RTB invited 190 scientists and researchers to participate, of whom 106 responded (including partial), for a 56 percent response rate.

➤ What is your home institution?

Answer Options	Response Percent	Response Count
CIP	31.1%	33
IITA	25.5%	27
CIAT	13.2%	14
Bioversity	18.9%	20
CIRAD/other	9.4%	12
Other (please specify)	1.9%	2
<i>answered question</i>		106
<i>skipped question</i>		0

➤ Gender

Answer Options	Response Percent	Response Count
Male	74.5%	79
Female	25.5%	27
<i>answered question</i>		106
<i>skipped question</i>		0

➤ What is your research area?

Answer Options	Response Count	Response Percent
Genetics and plant breeding	38	35.8%
Crop and natural resource management	33	31.1%
Social sciences	15	14.2%
Other (please specify)	29	27.4%
<i>answered question</i>	106	106
<i>skipped question</i>	0	0

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➤ CGIAR Tenure (time at current institution)

Answer Options	Response Count	Response Percent
< 5 yrs	29	27%
5-9 yrs	27	25%
10-19 yrs	31	29%
> 20 yrs	19	18%
<i>answered question</i>		106
<i>skipped question</i>		0

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

Title	Response Count	Avg. strength of contribution (in % time spent on CRP)
Roots, Tubers and Bananas (RTB)	99	68%
Agriculture for Nutrition and Health (A4NH)	20	28%
Managing and Sustaining Crop Collections (Genebanks)	9	43%
Integrated System for the Humid Tropics (HT)	13	30%
Policies, Institutions, and Markets (PIM)	11	22%
Climate Change, Agriculture and Food Security (CAAFS)	12	15%
Forests, Trees and Agroforestry (FTA)	7	24%
Dryland Systems (DS)	3	40%
Maize	5	24%
Water, Land and Ecosystems (WLE)	3	30%
Rice (GRiSP)	2	20%
Grain Legumes	3	13%
Wheat	1	10%
Dryland Cereals	1	10%
Aquatic Agricultural Systems (AAS)	0	0%
Livestock and Fish (L&F)	0	0%
Question Totals		105
<i>skipped question</i>		1

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- To which Theme(s) do you contribute in RTB? Please rank using scale of 6 where 1 is most and 6 is least.

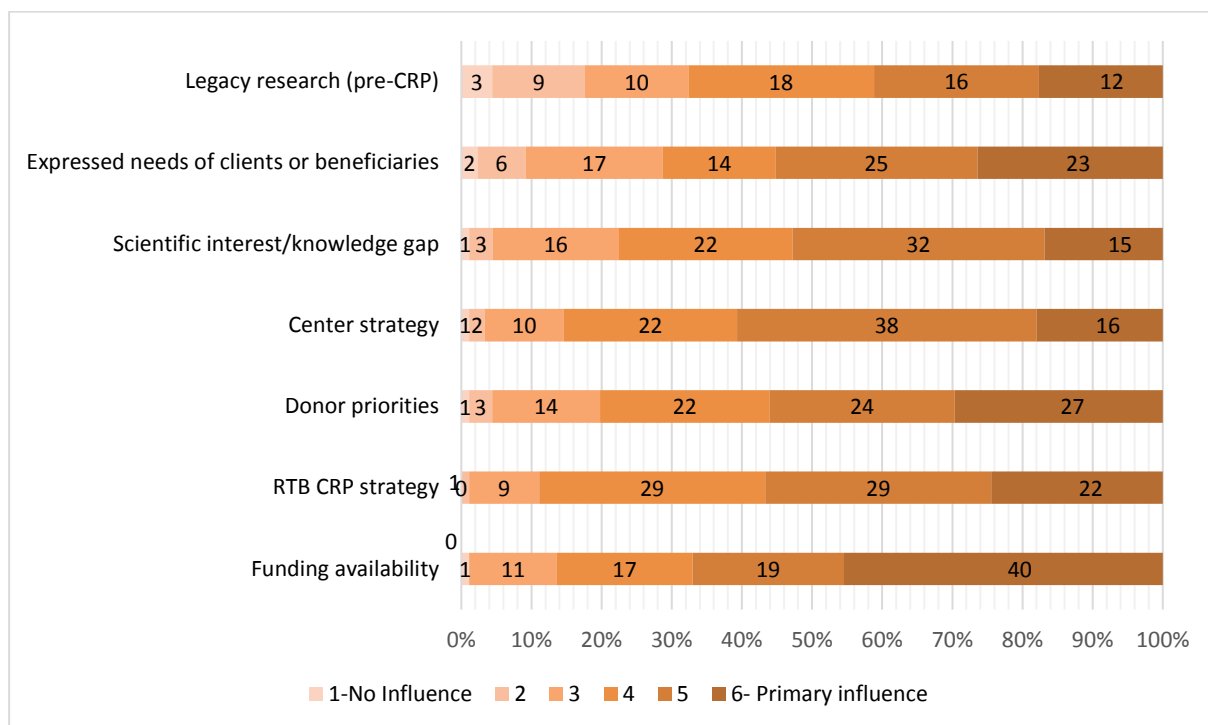
Answer Options	Rating Average
Theme 1: Unlocking the Value and Use Potential of Genetic Resources	4.16
Theme 2: Accelerating the Development and Selection of Varieties with Higher, More Stable Yield and Added Value	4.14
Theme 3: Managing Priority Pests and Diseases	4.40
Theme 4: Making Available Low-Cost, High-Quality Planting Material for Farmers	3.28
Theme 5: Developing Tools for More Productive, Ecologically Robust Cropping Systems	3.05
Theme 6: Promoting Postharvest Technologies, Value Chains, and Market Opportunities	2.42
Theme 7: Enhancing Impact Through Partnerships	2.97
<i>skipped question</i>	1
<i>answered question</i>	105

- How well do you know the CRP RTB?

Answer Options	Response Count	Response Percent
I have participated in designing RTB.	30	28.6%
I have not participated in designing RTB but have read key program documents and know the program structure, objectives, main theories of change, Intermediate Development Outcomes (IDOs) and key organizations involved.	40	38.1%
I have some knowledge of the CRP structure and objectives.	22	21.0%
I know only the Theme(s) that my work contributes to.	12	11.4%
I know very little or nothing about the CRP.	1	1.0%
<i>answered question</i>		105
<i>skipped question</i>		1

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- **What is your perception of the factors influencing the choice of research topics in the Themes you mostly contribute to? (Answered question: 105; Skipped Question: 1)**

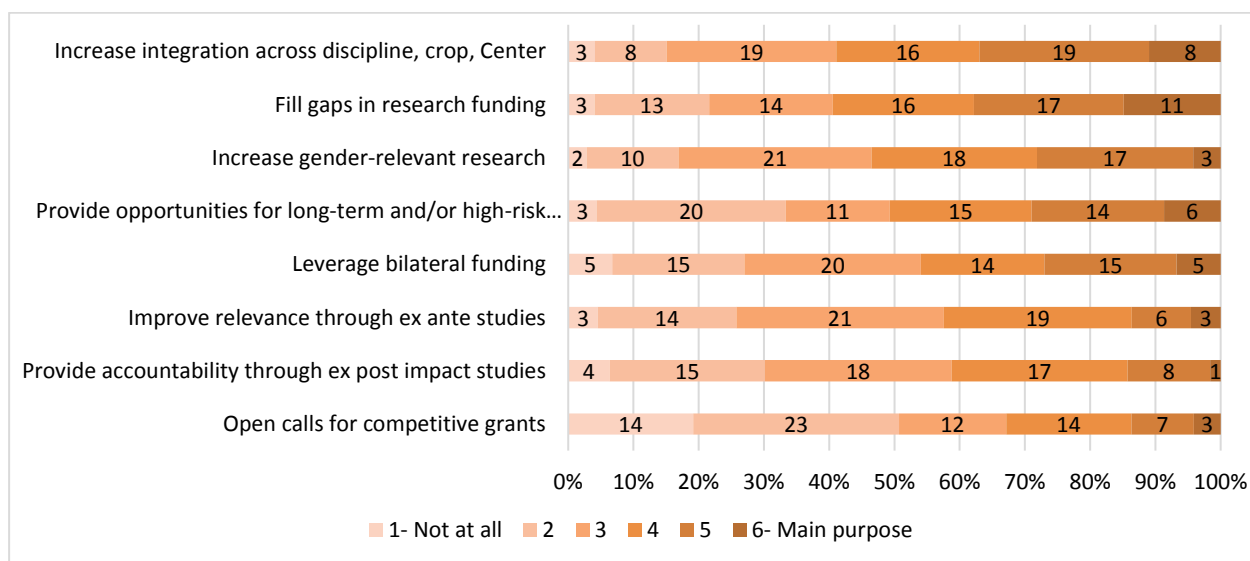


- **Regarding the balance among different kinds of activities in the RTB Themes you mostly contribute to, please indicate in percentages your perception of the current balance and whether the emphasis should be changed.**

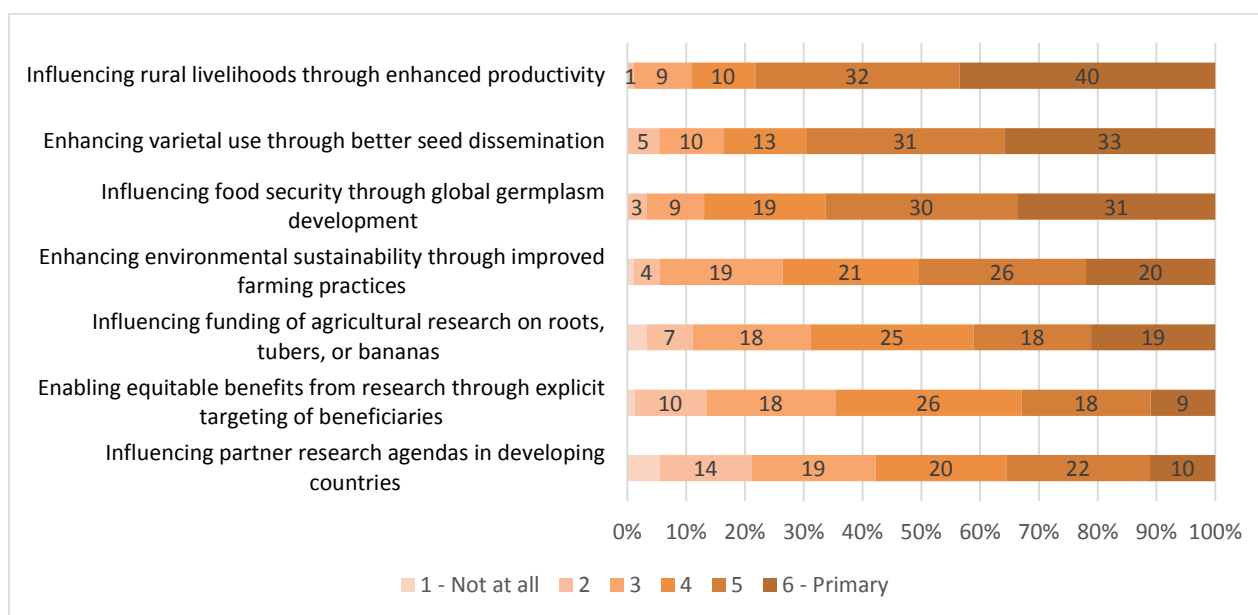
Research Type	Actual	Ideal
Strategic research to produce international public goods (IPG)	16%	23%
Local or adaptive research for synthesis to global research	35%	40%
Scaling-out of research results	29%	34%
Capacity development	24%	35%
Technical assistance	19%	26%
“Blue sky,” high risk research	23%	33%
answered question		97
skipped question		9

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- **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 RTB? (Answered question: 97; Skipped Question: 9)**

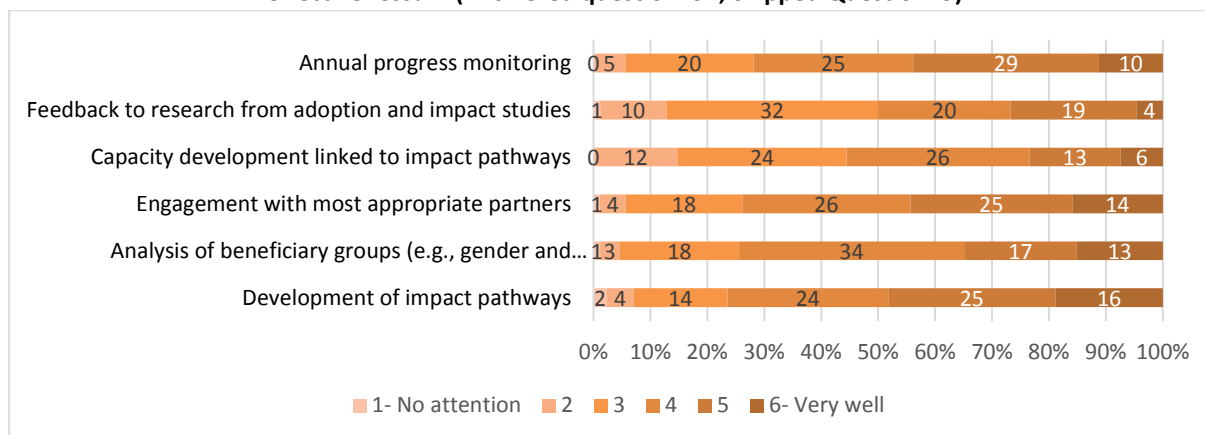


- **In your view, what are the primary impact pathways for research through which RTB aims to have impact? (Answered question: 97; Skipped Question: 9)**

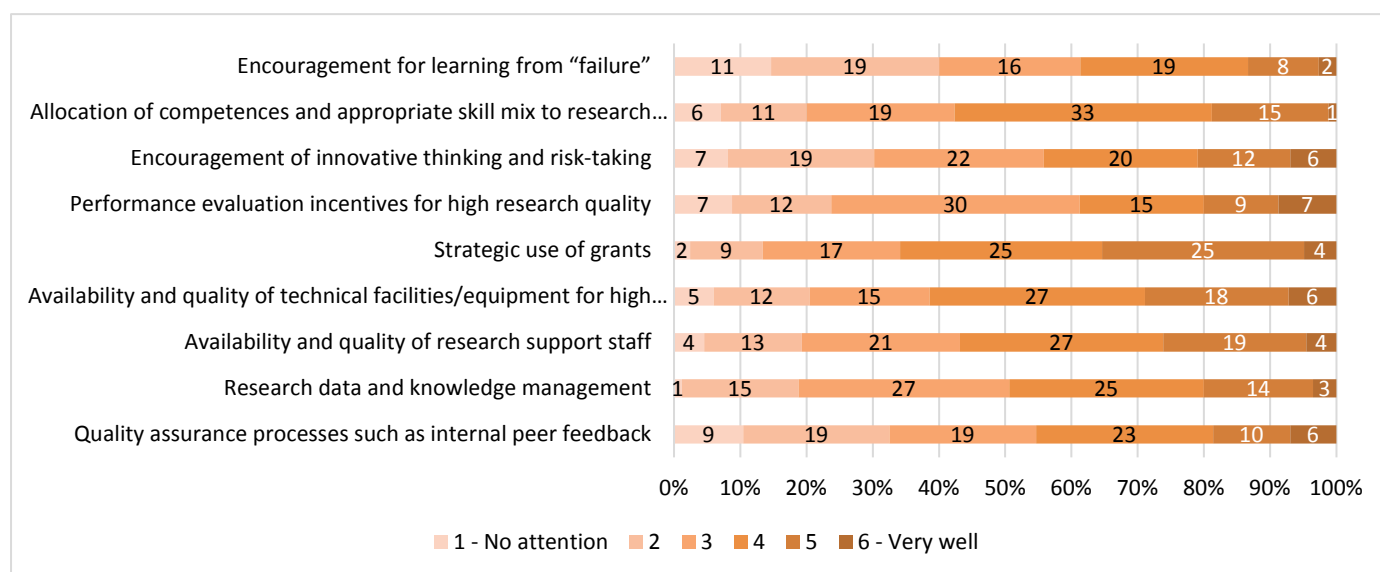


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➤ **In your view, how well managed in RTB are the following aspects of enhancing research effectiveness? (Answered question: 97; Skipped Question: 9)**

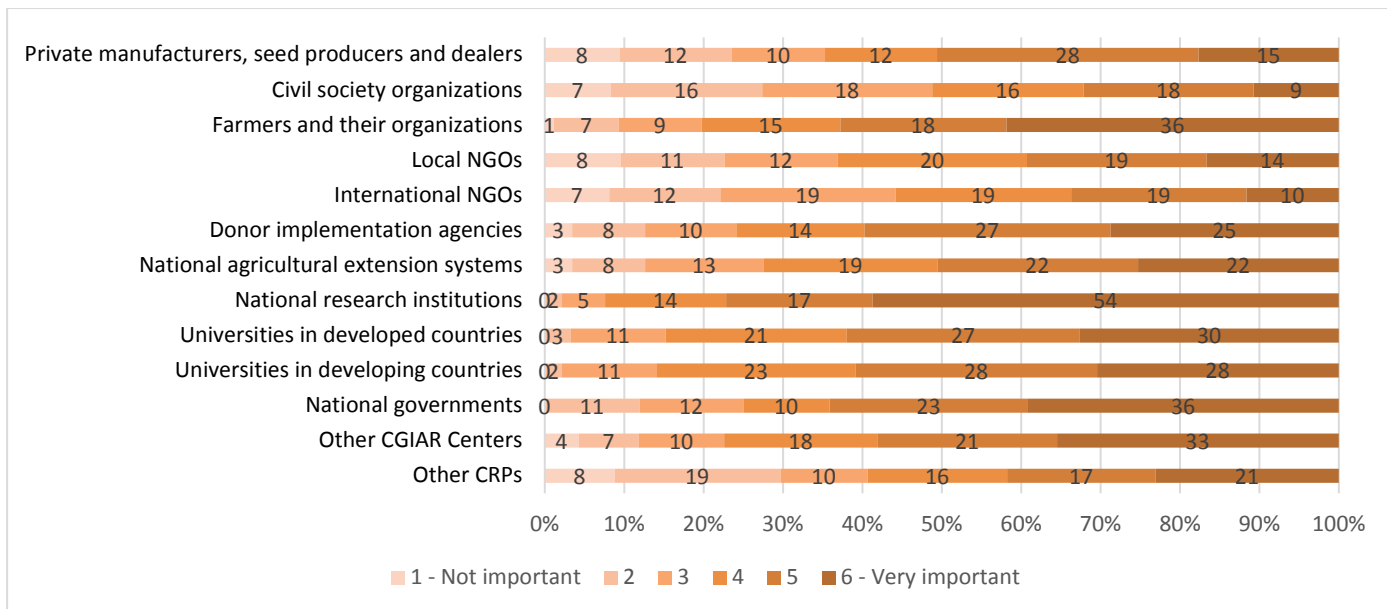


➤ **In your view, how well managed are the following aspects for assuring and enhancing high quality of research? (Answered question: 97; Skipped Question: 9)**

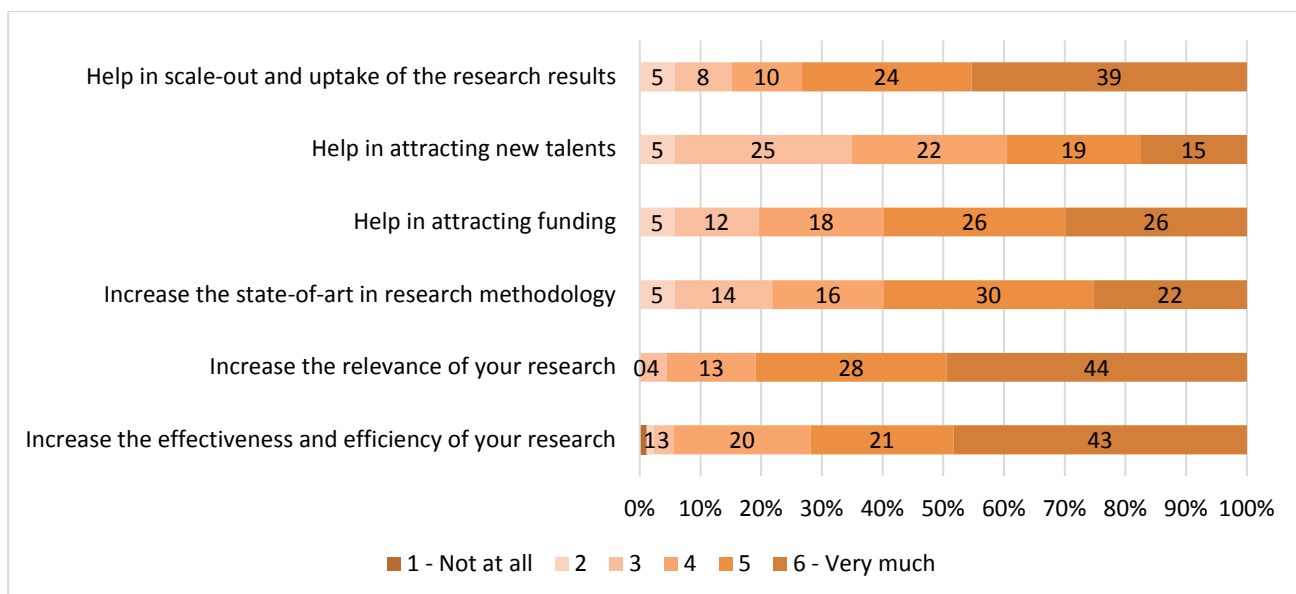


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➤ **How important are the following types of partners to the work you do? (Answered question: 94; Skipped Question: 12)**

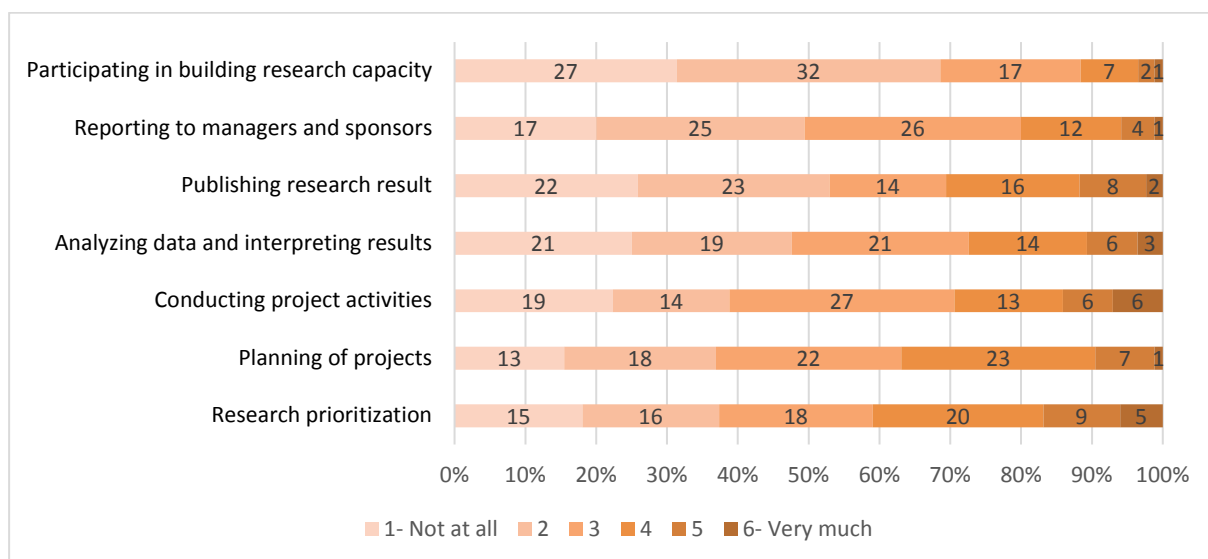


➤ **In your view, to what extent do the current partnerships improve your research in the areas listed below? (Answered question: 94; Skipped Question: 12)**

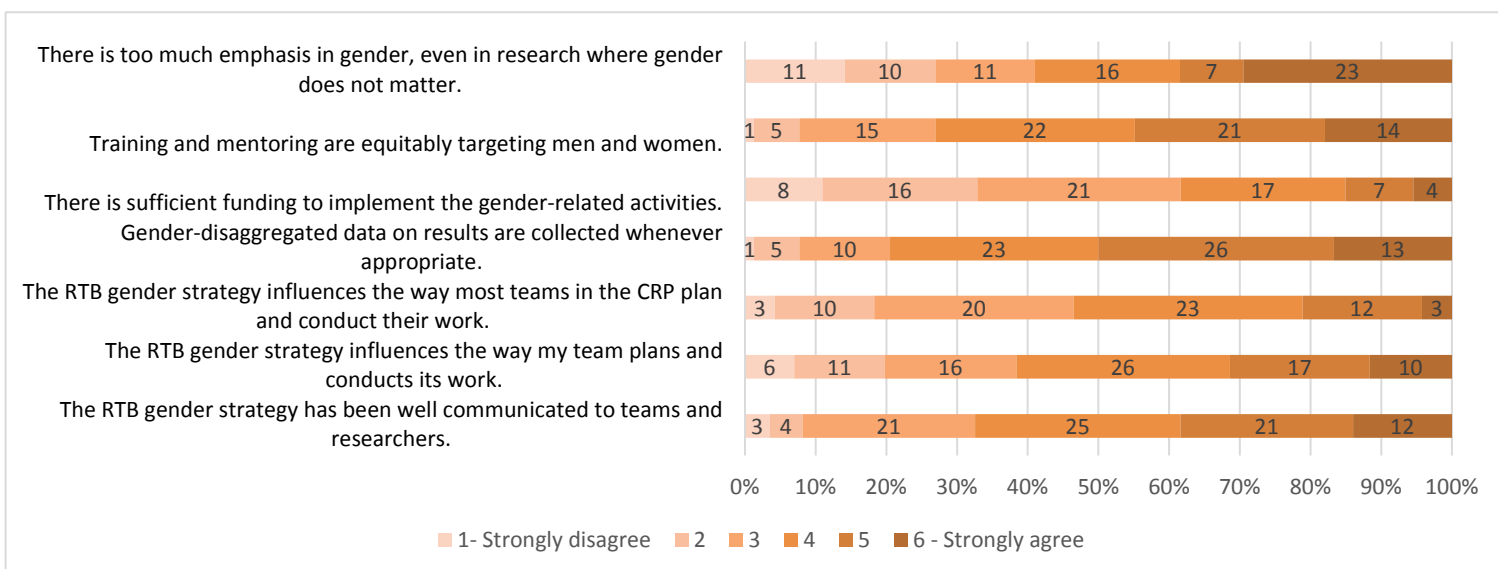


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➤ In your view, to what extent are your partners in RTB involved in program activities as listed below?
(Answered question: 94; Skipped Question: 12)

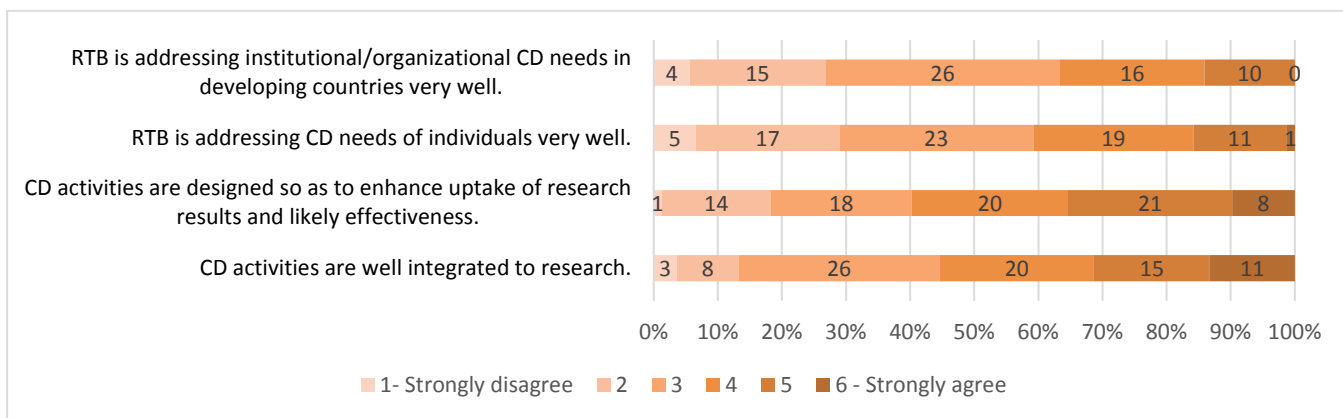


➤ Please indicate your agreement with the following statements related to mainstreaming of gender issues in RTB (Answered question: 94; Skipped Question: 12)

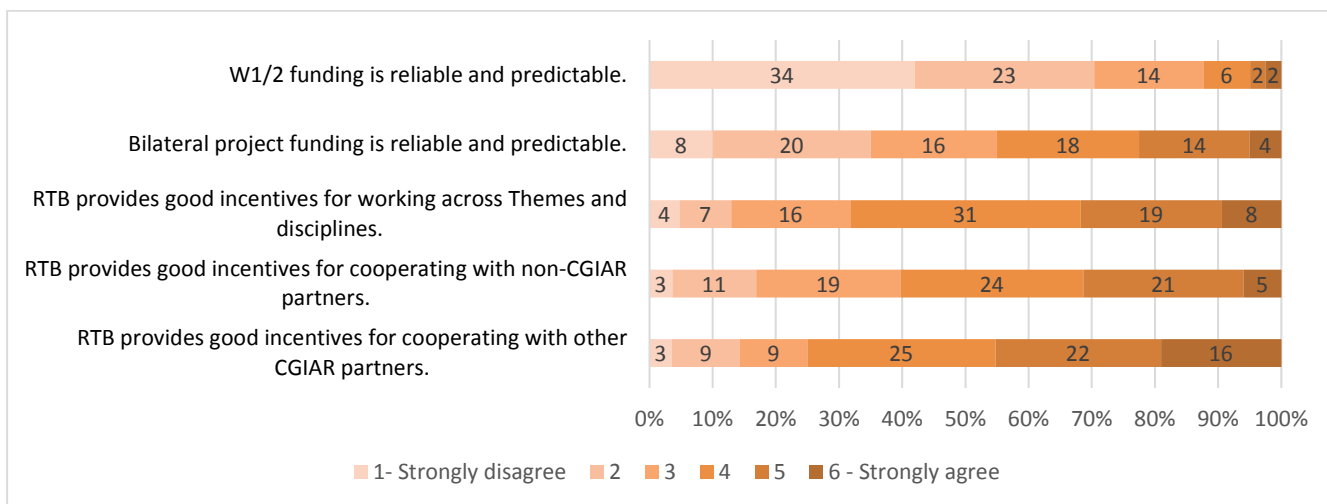


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- Please indicate your agreement with the following statements related to capacity development (CD) in RTB. (Answered question: 94; Skipped Question: 12)



- Please indicate your agreement with the following statements related to incentives and funding in RTB. (Answered question: 93; Skipped Question: 13)



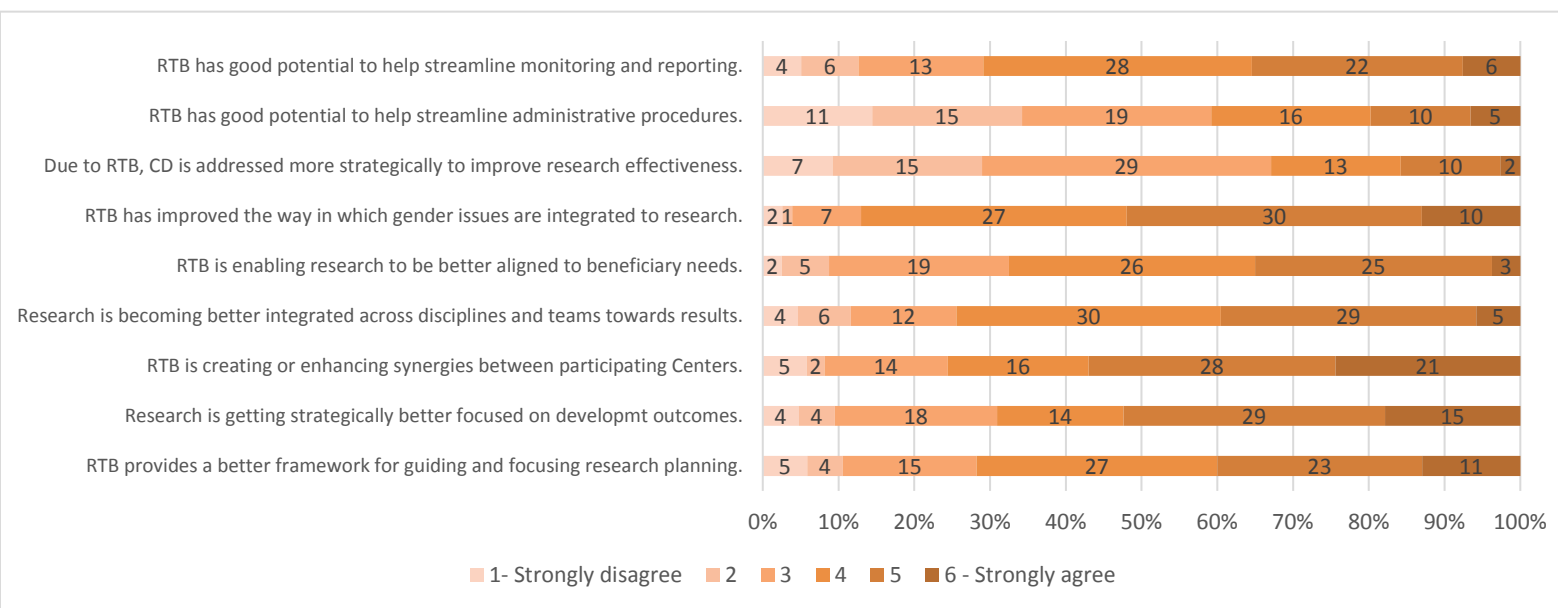
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- Please indicate your satisfaction with the amount of time you allocate to the following activities, using a scale of 1-5 where 1 is "too little," 3 is "just right," and 5 is "too much."

(average) rating

To management, administration and reporting (within the CGIAR and to donors)	3.97
To travel and meetings	3.38
To coordination among partners (CGIAR and non-CGIAR)	3.31
To adaptive/applied research (national public goods)	2.72
To training and mentoring	2.59
To delivery and extension of research results (local public goods)	2.56
To basic/strategic research (international public goods)	2.45
answered question	93
skipped question	13

- Please indicate your agreement with the following statements related to the value RTB has had or is likely to have in influencing the success of your research, as compared to past Center-based implementation of the research. (Answered question: 93; Skipped Question: 13)



ANNEX D. List of people interviewed

Name Surname	Title	Organization	Country Visit
Nick Austin	CEO	ACIAR	Australia
Richard Marham	Project director	ACIAR	Australia
Dr. Miar Uddin	Postharvest technology Division	Bangladesh Agricultural Research Institute	Bangladesh
Bart Panis	Senior Scientist, Banana Conservation	Bioversity-ITC Leuven	Belgium
Ines van den Houwe	Scientist, Germplasm Conservation	Bioversity-ITC Leuven	Belgium
Rony Swennen	Honorary Research Fellow, Banana Breeder	Bioversity-ITC Leuven	Belgium
Sebastien Carpentier	Division of Crop Biotechnics	Bioversity-ITC Leuven	Belgium
Inge Van den Bergh	RTB Center Focal Point, Bio-Engineer/musa genetic resources Coordinator	Bioversity, PROMUSA	Belgium
Haruna Braimah	Entomologist	IITA	Benin
Clair Hershey	Head Cassava Program, RTB Center Focal Point	CIAT	Colombia
Mark Lundy	Economist	CIAT	Colombia
Andy Jarvis	Head of CIAT Decision and Policy Analysis office (DAPA)	CIAT	Colombia
Bernardo Ospina	Director	CLAYUCA	Colombia
Claude Fauquet	Executive Director GCP 21	CIAT (GCP21)	Colombia
Daniel Debouck	Leader, Germplasm Centre	CIAT	Colombia
Dominique Dufour	Food Science & Food Engineering RTB Theme 6 Leader	CIRAD (CIAT)	Colombia
Elizabeth Alvarez	Plant Pathology (Banana and Cassava)	CIAT	Colombia
Elzbieta Golemic	Tissue Culture Specialist (Doubled Haploids)	CIAT	Colombia

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Name Surname	Title	Organization	Country Visit
Germán Sánchez	Director for Innovation	Corporación Colombiana de Investigación Agropecuaria (CORPOICA)	Colombia
Glenn Hyman	Geographic Information Systems (RTB Maps)	CIAT	Colombia
Hernan Ceballos	Cassava Breeder	CIAT	Colombia
Joe Tohme	Director, Agrobiodiversity RTB MC member	CIAT	Colombia
Jorge Duitama	Bioinformatics	CIAT	Colombia
Kate Meola	RTB Gender Focal Point	CIAT	Colombia
Luis Augusto Becerra Lopez-Lavalle	Cassava molecular geneticist RTB Theme 2 Leader	CIAT	Colombia
Martín Moreno Santander	Agricultural Engineer, Universidad del Valle	CIAT	Colombia
Maya Rajasekharan	Head, Program Coordination (DG office)	CIAT	Colombia
Oriana Muriel	CIAT-RTBProject Management Officer	CIAT	Colombia
Paul Chavarriaga	Transformation Lab	CIAT	Colombia
Ricardo Labarta	Impact Economist, RTB-CIAT Impact Assessment Focal Point	CIAT	Colombia
Roosevelt Escobar	Rapid Propagation Systems	CIAT	Colombia
Ruben Eccheveria	DG	CIAT	Colombia
Soroush Parsa	Entomologist	CIAT	Colombia
Wilmer Cuellar	Virology Unit	CIAT	Colombia
Zaida Lentini	Dean Biology Department	ICESI University	Colombia
Alberto Cenci	Associate Scientist, Genetic Resources	Bioversity	France
Angelique d'Hont	Genome organization and evolution Leader	CIRAD Montpellier	France
Dietmar Stoian	Scientist, Value Chains and Private Sector Engagement	Bioversity	France
Elizabeth Arnaud	Scientist, Genetic Resources Theme	Bioversity	France
Julie Sardos	Associate Scientist, Genetic Resources	Bioversity	France
Marie-Line Caruana	Biodiversity of exogenous and endogenous badnavirus, Leader	CIRAD Montpellier	France

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Name Surname	Title	Organization	Country Visit
Max Ruas	Information System Analyst	Bioversity	France
Nicolas Roux	Senior Scientist, Genetic Resources Conservation and Use RTB Theme 1 Leader	Bioversity	France
Rachel Chase	Research Assistant	Bioversity	France
Robert Domaingue	Deputy Director, Genetic Improvement and Adaptation of Mediterranean and tropical plants- RTB Focal Point for CIRAD and French Partners	CIRAD	France
Mathieu Rouard	Bioinformatics Scientist	Bioversity	France
Valentin Guignon	Bioinformatics Specialist	Bioversity	France
Yann Hueber	Bioinformatics Specialist	Bioversity	France
Marlene Diekmann	Donor	GIZ	Germany
Edward (Ted) Carey	Sweetpotato breeder	CIP	Ghana
Swarup Chakraborty	Director	Central Tuber Crops Research Institute, Trivandrum	India
Tim Kelley	Economist	SPIA/ISPC	Italy
Malu Ndavi	Senior Programme Officer	IFAD	Italy
Mark Holderness	Executive Secutive	GFAR	Italy
Stephan Weise	Deputy Director General – Research RTB MC member	Bioversity	Italy
Mohammad Ehsan Dulloo	Program Leader, Conservation and Availability	Bioversity	Italy
Abigail Ngogi	Potato breeder PhD student	CIP	Kenya
Adiel Mbabu	Regional Director	CIP	Kenya
Alan Mweke	Officer-in-Charge	Kenya Plant Health Inspectorate Service (KEPHIS)	Kenya
Benjamin Kivuva	Root & Tuber Crops Program, Katumani	KALRO	Kenya
Branwell Wanjala	Sweetpotato virologist (Ph.D. – SASHA)	CIP	Kenya
Bruce Ochieng	Ph.D candidate – soil health	CIP	Kenya
Dai Peters	Project Director	Catholic Relief Services (CRS)	Kenya
Daniel Mbiri	Potato scientist – genomics	CIP	Kenya

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Name Surname	Title	Organization	Country Visit
Daniel Mbogo	Research associate – OFSP	CIP	Kenya
Dennis Kyetere	Director General	African Agricultural Technology Foundation (AATF), Kenya	Kenya
Edward Mgugua	Manager	Genetics Technologies International Ltd.	Kenya
Edward Ouda	Agricultural Extension Officer	Emboga Health Centre	Kenya
Elmar Schulte- Geldermann	Potato scientist - soil health	CIP	Kenya
Felister Kimunya	Farmer - potato seed quality	Farmer	Kenya
Florence Munguta	Plant health officer	KEPHIS	Kenya
Francesca Stomeo	Genomics platform	BECA-ILRI	Kenya
Francis Musatumi	Director	KEPHIS	Kenya
Gabriel Oduor	Factory manager	Emboga Health Centre	Kenya
Grace Nyatika	Facility in Charge	Emboga Health Centre	Kenya
Hilda Munyua	Sweetpotato Scientist – OFSP	CIP	Kenya
Jagger Harvey	Nutrition lab	Biosciences east and Central Africa (BecA)	Kenya
James Kimunya	Farmer - potato seed quality	Farmer	Kenya
Jan Low	Project leader – OFSP	CIP	Kenya
Julius Osaso	Capital equipment	BECA-ILRI	Kenya
Leena Tripathi	Scientist – transgenics	IITA	Kenya
Lusike Wasilwa	Head, Crop systems	KALRO	Kenya
Marc Ghislain	Potato Scientist – genomics	CIP	Kenya
Margaret McEwan	Potato scientist - seed systems	CIP	Kenya
Margaret Muchui	Director, Togoni	KALRO	Kenya
Margaret Onyango	Principal Research Scientist	KALRO	Kenya
Mark Wamalwa	Bioinformatics platform	BECA-ILRI	Kenya
Maureen Ochieng	Community Health	PATH	Kenya
Mercy Kitavi	Scientist – cassava molecular breeding	IITA	Kenya

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Name Surname	Title	Organization	Country Visit
Monica Parker	Potato scientist – pathology	CIP	Kenya
Morag Ferguson	Cassava Molecular Geneticist	IITA	Kenya
Moses Nyonge	Deputy director, Tigoni	KALRO	Kenya
Penina Muoki	Value chain specialist	CIP	Kenya
Nasser Yao	Plant Breeding platform	BECA-ILRI	Kenya
Netsayi Mudege	Gender scientist CIP-RTB Gender focal Point	CIP	Kenya
Robert Ngeno	Nutrition & Mycotoxin platform	BECA-ILRI	Kenya
Robert Ondieki	Community Health Extension worker	Emboga Health Centre	Kenya
Samuel Ogwen	Community Health Extension worker	Emboga Health Centre	Kenya
Simon Heck	Program leader, Sweetpotato	CIP	Kenya
Stephen Walsh	Consultant - seed systems	RTB/CIP	Kenya
Tawanda Muzhingi	Scientist – OFSP	CIP	Kenya
Wellington Ekaya	Capacity building	BECA-ILRI	Kenya
Zachary Kengue	Former Crop Protection Coordinator	KALRO - NARL	Kenya
Nadezda Amaya	Regional Gender Researcher Specialist	CIP	Kenya
Stewart Gee	Program Leader	Concern Worldwide	Malawi, Ethiopia, Tanzania
Abigael Abass	Cassava quality	IITA	Nigeria
Acho Okike	Economist & Regional Director	ILRI	Nigeria
Abass Adebayo	Economist	IITA	Nigeria
Aneas Gisell	Bioinformatician	IITA	Nigeria
Antonio Lopez-Montes	Yam Breeder	IITA	Nigeria
Badara Gueye	Genebank	IITA	Nigeria
Badara Maroya	Yam seed systems	IITA	Nigeria
Busie Maziya-Dixon	Food Scientist	IITA	Nigeria
Chiedozie Egesi	Cassava breeder	NRCRI	Nigeria

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Name Surname	Title	Organization	Country Visit
Christine Kreye	Agronomist	IITA	Nigeria
Claudia Perea	Bioinformatics	CIAT	Nigeria
David Dashell	Director	IITA	Nigeria
David De Koeyer	Yam breeder	IITA	Nigeria
Delphine Amah	Plantain breeder (PhD student)	IITA	Nigeria
Elizabeth Oladejo	Gender Person	IITA	Nigeria
Elizabeth Parkes	Cassava breeder (nutritive value and end-user needs)	IITA	Nigeria
Gueye Badara	RTB Genebank	IITA	Nigeria
Hilda Dixon	Head, Partnership Coordination Office	IITA	Nigeria
Hilde Koper-Limbourg	Head Project Admin Office	IITA	Nigeria
Ismail Y. Rabbi	Bioscientist	IITA	Nigeria
Kathy Lopez	Communications & Publishing manager	IITA	Nigeria
Kathy Okanlawan	OFSP farmer	IITA	Nigeria
Lava Kumar	Virologist	IITA	Nigeria
Louw Burger	Managing Director/CEO	Thai Farm International Ltd, Nigeria	Nigeria
Mrs Adeyerin	Genebank	IITA	Nigeria
Kola Adeniji	Cassava processor	Niji Lukas Ltd.	Nigeria
Noebert Maroya	Yam seed systems, YIFSWA	IITA	Nigeria
Olufemi Aina	Agronomist/breeder	IITA	Nigeria
Peter Kulakow	Head Cassava Breeding Unit	IITA	Nigeria
Ranjit Bandyopadhyay	Plant Pathologist	IITA	Nigeria
Ranjana Bhattacharjee Bhattacharjee	Molecular geneticist – yam	IITA	Nigeria
Richard Ofei	IITA-RTB Project Management Officer	IITA	Nigeria
Richard Iromini	Humidtropics focal point	IITA	Nigeria
Richardson Okechukwu	Cassava breeder	IITA	Nigeria

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Name Surname	Title	Organization	Country Visit
Robert Asiedu	Director , W. Africa RTB-MC member	IITA	Nigeria
Stefan Hauser	Agronomist RTB Theme 5 Leader	IITA	Nigeria
Tahirou Abdoulaye	Economist, RTB-CIAT Impact Assessment Focal Point	IITA	Nigeria
Ylva Hillbur	DDG-Research	IITA	Nigeria
Zoumana Bamba	Head Capacity Development	IITA	Nigeria
Aes Casas	Agronomist	CIP	Peru
Alberto Dante Maurer Fossa	Head of Area	INIA	Peru
Antonio Ricardo Sanchez	RTB Finance Officer	RTB/CIP	Peru
Awais Khan	Senior Scientist	CIP	Peru
Barbara Wells	Director General	CIP	Peru
Benny Ordoñez	Research Assistant	CIP	Peru
Bettina Heider	Post-doctoral researcher	CIP	Peru
Bhawana Upadhyay	Gender Research Coordinator	RTB	Peru
Carlos Chuquillanqui	Virologist	CIP	Peru
Cecilia Turin	Climate change adaptation and gender scientist	CIP	Peru
Christina Rivera	Research assistant	CIP	Peru
Dagmar Wittine	Senior Program Manager	RTB	Peru
David Ellis	Head of the Genetic Resources- Genebank	CIP	Peru
David Ramirez	Head of the Crop Ecophysiology and Modeling Laboratory	CIP	Peru
Dunstan Spencer	Agricultural Economist, RTB Independent Steering Committee Member	RTB	Peru
Elisa Mihovilovich	Associate Scientist – Geneticist	CIP	Peru
Eugene Terry	Senior Technical Adviser of TransFarm Africa, RTB Independent Steering Committee Member	RTB	Peru

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Name Surname	Title	Organization	Country Visit
Evelyn Farfan	Research Consultant	CIP	Peru
Flor Rodriguez	Research assistant	CIP	Peru
Gabriela Burgos	Position Manager of the Quality and Nutrition Laboratory	CIP	Peru
Gaia Luziatelli	Research assistant	CIP	Peru
Gordon Prain	Senior Scientist	CIP	Peru
Graham Thiele	Program Director	RTB	Peru
Guy Hareau	Economist, RTB Impact Assessment Leader	CIP	Peru
Hannele Lindqvist- Kreuze	Biotic stress geneticist	CIP	Peru
Helen Hambly	Chair RTB ISC	RTB	Peru
Henry Juarez	Associate Researcher/GIS	CIP	Peru
Jan Kreuze	Head of the Virology and Quarantine units	CIP	Peru
Javier Madalengoitia	RTB Contracts Manager	RTB/CIP	Peru
Joel Ranck	Head, Communications and Public Affairs Department	CIP	Peru
Jorge Andrade-Piedra	RTB Theme 4 Leader	CIP	Peru
Jürgen Kroschel	Head Agroecology	CIP	Peru
Laura Jara	Research Assistant	CIP	Peru
Lucia Pajuelo	Research Scientist	CIP	Peru
Luis Felipe Mendes	Chief Financial Officer	CIP	Peru
Manuel Gastelo	Senior Research Associate	CIP	Peru
Maria Roman	Agronomist	CIP	Peru
Meredith Bonierbale	Potato breeder	CIP	Peru
Michael Gerba	Chief Operating Officer	CIP	Peru
Norma Mujica	Agronomist	CIP	Peru
Octavio Zegarra	Biologist	CIP	Peru

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Name Surname	Title	Organization	Country Visit
Oscar Ortiz	Deputy Director General for Development, RTB MC member	CIP	Peru
Philippe Monneveux	Executive Officer for Research Management, RTB Center Focal Point	CIP	Peru
Raul Eyzaguirre	Researcher	CIP	Peru
Reinhard Simon	Bioinformatics Scientist	CIP/RTB	Peru
René Gomez	Agronomist	CIP	Peru
Ricardo Orrego	Agronomist	CIP	Peru
Rodney Cooke	Board of Trustees Chair	CIP	Peru
Rosario Herrera	Biologist, Research Assistant	CIP	Peru
Sana Manrique	Global Program Genomics and Biotechnology	CIP	Peru
Segundo Fuentes	Senior Research Associate	CIP	Peru
Selim Guvener	Compliance & Intellectual Assets Manager	CIP/RTB	Peru
Severin Polreich	Scientist - Genetic Resources	CIP	Peru
Soledad Gamboa	Research Associate	CIP	Peru
Thanasis Petsakos	Agricultural economist	CIP	Peru
Thomas zum Felde	Plant Quality Biochemist	CIP	Peru
Victor Mares	Climate change scientist	CIP	Peru
Walter Amoros	Agronomist	CIP	Peru
Willmer Pérez	Senior Research Associate	CIP	Peru
Wolfgang Grueneberg	Sweetpotato Breeder and Geneticist	CIP	Peru
Ximena Chirinos	Research Assistant	CIP	Peru
Yvonne Pinto	Agricultural Learning and Impacts Network, RTB Independent Steering Committee Member	RTB	Peru
Ines Gonzales	Director	Northern Philippines Root Crops Research and Training Center, Benguet State University	Philippines

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Name Surname	Title	Organization	Country Visit
Jocelyn Perez	College Secretary	Benguet State University	Philippines
Leonor Verzola	AAIGA coordinator	Second Cordillera Highland Agricultural Research Management Project (CHARMP2)	Philippines
Lilibeth Laranang	Director	Tarlac College of Agriculture	Philippines
Julieta R. Roa	Director	Rootcrops Research and Training Center, Visayas State University	Philippines
Angelica Barlis	Communication Specialist	CIP	Philippines
Arma Bertruso	Research fellow	CIP	Philippines
Chris Wheatley	Senior marketing specialist	CIP	Philippines
Gus Molina	Senior scientist	Bioversity	Philippines
Marietta Nadal	Office Manager	CIP	Philippines
Cameron "Ron" Odysey	Project Manager	Second Cordillera Highland Agricultural Research Management Project (CHARMP2)	Philippines
Rodomirol Ortiz	Professor	SLU	Sweden
Baker Chirimi	Field Officer	ARI-Ukiriguru	Tanzania
Beatrice Bachwenkizi	Research Associate	IITA	Tanzania
Catherine Njuguna	Regional Corporate Communications Officer	IITA	Tanzania
Concessa Bagambisa	Root & Tuber Crops Technician	ARI Maruku	Tanzania
Cornel Massawe	Agricultural Officer	DRD (TARI)	Tanzania
Daniel Maeda	Research Technician	UDSM	Tanzania
Edward Kanju	Cassava breeder	IITA	Tanzania
Elifatio Towo	Scientist	TFNC	Tanzania
Eveline Lukonge	Cassava breeder	ARI-Ukiriguru	Tanzania
Fidelis Myaka	Director of Research & Development	Ministry of Agriculture	Tanzania
Frederick Grant	Sweetpotato breeder	CIP	Tanzania
Geoffrey Mkamilo	Team Leader of Cassava Research	DRD (NARI)	Tanzania

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Name Surname	Title	Organization	Country Visit
George Mahuku	Senior Plant Pathologist	IITA	Tanzania
Geraldina Mushema	Manager	SEFAMACO Project	Tanzania
Hachija Ally	Research Officer	ARI-Ukiriguru	Tanzania
Heneriko Kulembeka	Plant Breeder	DRD (LZARDI)	Tanzania
James Legg	Plant virus scientist, RTB Center Focal Point, RTB Theme 3 Leader	IITA	Tanzania
Jasmeck Kilangy	Field Officer	ARI Maruku	Tanzania
Joseph Matanga	Manager	Ukaya Farm (cassava processor)	Tanzania
Joseph Ndunguru	Biotechnology	Mikocheni Agricultural Research Institute	Tanzania
Kiddo Mtunda	Head of RTB Acting Officer in Charge	DRD (SARI)	Tanzania
Kwame Ogero	Regional Research Associate	CIP/ARI-Ikiriguru	Tanzania
Lembris Laizer	Sweet potato seed systems	ARI-Ukiriguru	Tanzania
Lucas Migendi	Zonal Director	ARI-Ukiriguru	Tanzania
Marcelo Precoppe	Postdoctoral Fellow	IITA	Tanzania
Mikidach Mpina	Extension Officer	DRD	Tanzania
Nessie Luambano	Principal Agricultural Research Officer	DRD (MARI)	Tanzania
Peter Mlay	Soil scientist	DRD (LZARDI)	Tanzania
Rahila Amour	Research Officer	ARI-Ikiriguru	Tanzania
Regina Kapinga	Head of Advocacy and Resource Mobilization	IITA	Tanzania
Rogers Kakuhenzire	Phytopathologiste	CIP	Tanzania
Rudolph Shirima	Research Associate	IITA	Tanzania
Ruiabanzibwa Karugaba	Root & Tuber Crops Technician	ARI Maruku	Tanzania
Salum Kasele	Cassava Breeder	DRD (LZARDI)	Tanzania
Silver Tumwegamire	Postdoctoral fellow, Cassava	IITA	Tanzania
Simon Jeremiah	Virologist	ARI-Ikiriguru	Tanzania

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Name Surname	Title	Organization	Country Visit
Steven Merumba	Sweet potato agronomist	Bukoba	Tanzania
Veronica Uzokwe	Cassava agronomist	IITA	Tanzania
Victor Manyong	Regional Director East Africa	IITA	Tanzania
Zuraith Khlid	Banana farmer	Near Bukoba	Tanzania
Anew Ssenyongo	Quality Analyst	NARO	Uganda
Anna Marie Ball	Head, Africa Strategic Alliances	HarvestPlus, IFPRI	Uganda
Anne Rietveld	RTB Gender focal point	Bioversity	Uganda
Beatrice Ekesa	Nutritionist	Bioversity	Uganda
Benard Yada	Germplasm scientist	NARO	Uganda
Ceah Muhangi	Curator Banana Germplasm	NARO	Uganda
Charles Wasonga	Quality Analyst	NARO	Uganda
Diego Naziri	Post Harvest Specialist, Project leader RTB-ENDURE	RTB/CIP	Uganda
Eldad Karamura	Regional Director East Africa	Bioversity	Uganda
Francis Wachira	Executive Director	ASARECA	Uganda
Geoffrey Arinaitwe	CEO	Biocrops	Uganda
Godfrey Taulya	NRM scientist	IITA	Uganda
Gorrettie Nankinga Ssemakula	Head, Sweetpotato Research Team	National Agricultural Crops Resources Research Institute (NaCRRI)	Uganda
Ivan Rwomushana	Manager - Staple Crops Programme	Association for Strengthening Agricultural Research in Eastern and Central Africa (ASARECA)	Uganda
James Ssemwanga	Fresh Logistics	Exporter Kampala	Uganda
John Ndamira	Farmer trainer	LEAFF Project	Uganda
Michael Batte	Banana breeder	IITA	Uganda
Paul Musana	Entomologist	NARO	Uganda
Phinehas Tukamuhabwa	Genetics and Plant Breeding	Makerere University, Department of Crop Science, Uganda	Uganda

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Name Surname	Title	Organization	Country Visit
Rabooni Tumuhimbise	Banana breeder	NARO	Uganda
Robert Kawuki	Cassava breeder	NARO	Uganda
Robert Mwanga	Sweetpotato breeder	CIP	Uganda
Susan Ajambo	Research Assistant Gender	Bioversity	Uganda
Titus Alicai	Virologist and Root Crops Programme Leader	NARO	Uganda
William Tinzaara	Banana pathologist	Bioversity	Uganda
Allan Tollervey	Donor	Dfid	UK
Keith Tomlins	Food processing engineer	NRI	UK
Ian Barker	Head of partnerships	Syngenta Foundation, UK	UK
Julia Compton	Leader, Evaluation A4NH	Consultant	UK
Julian Smith	Pest Risk Assessment	FERA	UK
Paul Frazer	Molecular Biologist Metabolomics	Royal Holloway, University of London	UK
Richard Gibson	Sweetpotato virologist	NRI UK	UK
Keith Fuglie	Agricultural economist	USDA	USA
Keith Wiebe	Senior economist	IFPRI	USA
Mywish Maredia	Associate Professor	Michigan State University	USA
Amy Saltzman	Senior Program Analyst	HarvestPlus, IFPRI	USA
Djeinam Toure	Ph.D Scholar	Cornell University	USA
G. Craig Yencho	Professor	North Carolina State University	USA
George Norton	Professor	Virginia Tech	USA
Hale Ann Tufan	Project Manager NextGen Cassava	Cornell University	USA
Jean Luc Jannick	Adjunct Professor	Cornell University	USA
Jim Lorenzen	Senior Program Officer	Bill & Melinda Gates Foundation	USA
John McDermott	Program Director, A4NH	IFPRI	USA
Lawrence Kent	Donor	BMGF	USA
Lukas Muller	Professor	BTI-Cornell	USA

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Name Surname	Title	Organization	Country Visit
Alfred Ozimati	Ph.D. Scholar	Cornell University	USA
Robert Bertram	Chief scientist, Bureau Food Security	USAID	USA
Ugowhukwu Ikegogu	Ph. D Scholar	Cornell University	USA
Duong Van Son	Dean Faculty of Economics and Rural Development	Thai Nguyen Agricultural and Forestry University	Vietnam
Huy Ham	Director General	Advanced Genomics Institute	Vietnam
Keith Fahrney	Agronomist	CIAT	Vietnam
Pham Thi Sen	Liaison for International Cooperation	NOMAFSI ,Northern Mountainous Agriculture and Forestry Science Institute	Vietnam
Cu Thi Le Thuy	Research assistant	CIAT	Vietnam
Dao Huy Chien	Cordinator PotNet-SEA	CIP	Vietnam
Dindo Campilan	Program Director, Asia	CIAT	Vietnam
Greg Forbes	Program leader, Asia	CIP	Vietnam
Jonathan Newby	Agricultural economist	CIAT	Vietnam
Kris Wyckhuys	Entomologist	CIAT	Vietnam
Le Xuan Vi	Deputy Head of Pests Diagnosis and Identification	Plant Protection Research Institute	Vietnam
Ngo Doan Dam	Deputy Director, Field Crops Research Institute	Vietnam Academy of Agricultural Sciences	Vietnam
Nguyen Huu Tho	Vice Director, Office of Science and International Affairs	Thai Nguyen Agricultural and Forestry University	Vietnam
Nguyen The Hung	Vice Rector	Thai Nguyen Agricultural and Forestry University	Vietnam
Nguyen Van Bo	Emeritus scientist	CIAT	Vietnam
Nguyen Van Tuat	Vice President	Vietnam Academy of Agricultural Sciences	Vietnam
Sen Pham Thi	Head of Science and International Cooperation Department	Northern Mountainous Agriculture and Forestry Science Institute (NOMAFSI), Vietnam Academy of Agricultural Sciences (VAAS)	Vietnam
Son Duong Van	Head, Department of Agricultural Extension	Thai Nguyen University of Agriculture and Forestry (TUAF)	Vietnam
Thierry Tran	Food processing engineer	CIRAD	Vietnam
Tin Maung Aye	Agronomist	CIAT	Vietnam
Trinh Xuan Hoat	Deputy Director General	Plant Protection Research Institute	Vietnam

ANNEX E: List of themes and product lines, flagships and activity clusters evaluated

Main research areas	Theme/Product line	Flagship/Activity cluster
1. Pre-breeding and varietal development – breeding pipeline	<u>Theme 1 Conserving & accessing genetic resources</u>	<u>FP 1 Discovery - Enhanced utilization of genetic diversity</u>
	<u>PL 1.1 Ex situ (banana) & in situ conservation (potato)</u> <u>PL 1.3 Collections genotyped & phenotyped</u>	<u>DI 1, DI 3, DI 4</u>
	<u>Theme 2 Varietal development</u>	<u>DI 1, DI 5, DI 2</u> <u>FP 2 Delivery -More productive varieties</u>
	<u>PL 2.2 Trait capture & discovery</u>	<u>CA 1/2, 5; BA 1, 2, 3, 5; PO 2;</u>
	<u>PL 2.3 Population development & pre-breeding</u>	SW 1
	<u>PL 2.4/5 Varietal development for end-user priorities</u>	As above
2. High quality planting material	<u>Theme 4 Low-cost, high quality planting material for farmers</u>	<u>FP 2 Delivery - More productive seed</u>
	<u>PL 4.2 Low-cost, effective mass propagation methods</u>	BA 1, 3; PO 1; YA 1
	<u>PL 4.3 Farmer-based quality seed production</u>	CA 1/2; 3*, 4, 5; PO 1; YA 1; LS 4
3. Resilient cropping systems	<u>Theme 3 Managing pests and diseases</u>	<u>FP 3 Delivery – Resilient cropping systems</u>
	<u>PL 3.1 Detection, surveillance, mapping</u> <u>PL 3.4 Specific management strategies</u>	BA 1, 3; CA 5 BA 1, 2, 3; LS 2
	<u>Theme 5 Ecologically robust cropping systems</u> <u>PL 5.3 Integrated decisions and management tools</u>	PM 1

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4. Post-harvest, value chains & marketing	<u>Theme 6 Promoting post-harvest technologies, value chains & marketing opportunities</u>	<u>FP 5 Delivery – Adding value for income</u>
	PL 6.1 Post-harvest approaches & processing	CA 1/2; 3*, 4, 6
	PL 6.2 Linkages with markets & income generation	CA 1/2; 3*, 4; PO 1
	PL 6.3 Marketing strategies and policies to add value	SW 1*; CA 6; LS 3
5. Cross-cutting - Gender	<u>Theme 7 Enhancing impact through partnerships</u> No specific PL	<u>FP 6 Delivery - Impact at Scale</u> Xx 2
6. Cross-cutting – Capacity building	<u>Theme 7 Enhancing impact through partnerships</u> PL 7.4 capacity strengthening	<u>FP 6 Delivery - Impact at Scale</u> Xx 1
7. Cross-cutting - Partnerships	<u>Theme 7 Enhancing impact through partnerships</u> PL 7.2 Building effective partnerships	<u>FP 6 Delivery - Impact at Scale</u> Xx 1
8. Cross-cutting – Communication & knowledge sharing	<u>Theme 7 Enhancing impact through partnerships</u> PL 7.3 Communication & knowledge sharing	<u>FP 6 Delivery - Impact at Scale</u> Xx 1
9. Cross-cutting – Priority setting	<u>Theme 7 Enhancing impact through partnerships</u> PL 7.1 Targeting and setting priorities	
10. Cross-cutting – Impact assessment	<u>Theme 7 Enhancing impact through partnerships</u> PL 7.5 Outcome & impact assessment	<u>FP 6 Delivery - Impact at Scale</u> Xx 3

ANNEX F: Template for analysis of random sample of publications for science quality

<i>Criterion</i>	<i>Assessment approach</i>
Methodological rigor and coherence of data analysis	Scale (1=poor; 2=mediocre; 3=good; 4=excellent)
Originality, innovativeness	Scale (1=not applicable; 2= not very original, standard methods, established knowledge; 3= rather original; 4= very original, new research, analytical or theoretical concepts;
Referencing (whether referencing is up to date, balanced across relevant disciplines, indicating that the publication takes account of earlier work)	Scale (1=referencing is poor; 4=referencing is excellent)
Is the publication relevant to the key goals and approaches that RTB is designed to address?	Scale (1=not relevant at all; 4=highly relevant)
Quality (and appropriateness) of publication venue	Observation of low-quality or inappropriate venue relative to subject and quality of paper
Collaboration (especially co-authorship) evident	Observation of extent of authorship and with whom. If it is a multi-disciplinary publication, is it co-authored by people with relevant backgrounds? If authorship is very limited, is this justifiable.
Overall quality of publication (including additional criteria at evaluator discretion)	Brief narrative

ANNEX G: Template for assessment of projects (within pl)

1. Major objective as per the research proposal
2. Brief description of the type and location of research being undertaken
3. Assessment of relevance
 - objectives, alignment with CRP objectives, impact pathway
4. Assessment of likely effectiveness
 - including progress in reaching milestones, Theory of change: beneficiary and constraint analysis, measures to address constraints
5. Assessment of quality of science
 - research design, research questions; comment if project is not research
6. Assessment of outcomes including notable examples
 - impacts covered separately
7. Assessment of partnerships with science
8. Assessment of delivery partnerships
9. Assessment of gender mainstreaming
 - targeting, engagement, data collection
10. Assessment of capacity development
11. Assessment of links to other Themes including multi-disciplinary collaboration
12. Value added by CRP
13. Overall summary of major strengths and weaknesses

RESOURCE MATERIALS

- Original proposal, annual reports, and extension proposal
- M&E data especially with respect to milestones
- Review of publications/output most relevant to project/PL
- Country field visit write-ups
- Phone interview write-ups