



Evaluation of the CGIAR Research Program on MAIZE

Volume 2 – Annexes

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Independent
Evaluation
Arrangement

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ANNEX A - Evaluation Team Members – Short Bios

Guido Gryseels - Evaluation Team Leader. Guido is an economist and doctor of agricultural sciences who is currently Director General of the Royal Museum for Central Africa, Belgium, which is a major research institute on Africa in both the human and natural sciences. He is also a member of the Board of Directors of Federal Science Policy and of the Fund for Scientific Research in Belgium, and Chair of the Programme Committee on Food and Business Research at the Netherlands NWO/WOTRO. Earlier, he served as Deputy Executive Secretary of the Technical Advisory Committee of the CGIAR (currently known as ISPC), and Executive Secretary of the CGIAR's Impact Assessment and Evaluation Group as well as Chairman of the Board of Trustees of ICARDA based in Syria.

Javier Betrán - Evaluation Team Member. Javier has a PhD in plant breeding. Javier is currently the Head of the Maize Breeding Europe, Africa and Middle East for Syngenta. He is an expert in Plant breeding, quantitative genetics, agronomy, statistics, biotechnology, environment, abiotic and biotic stresses, and people development. Javier has extensive international experience in maize breeding. He has a large publication record on maize breeding, and was a postdoctoral research and breeder at CIMMYT in 1990s. He has collaborated with international organizations like the Rockefeller Foundation as well as CGIAR centers.

Scott Chapman - Evaluation Team Member. Scott has a PhD in agricultural science and currently does research on genetic and environment effects on growth of field crops, particularly in drought dominated regions, applying quantitative approaches (crop simulation and statistical methods) and phenotyping (aerial imaging, canopy monitoring). He was an Associate Scientist at CIMMYT's Maize Program in the early nineties. Over the last 20 years Scott conducted research at the Commonwealth Scientific and Industrial Research Organisation and is currently an adjunct professor at The University of Queensland in Australia.

Seyfu Ketema - Evaluation Team Member. Before becoming executive secretary of the Association for Strengthening Agricultural Research in Eastern and Central Africa in 2002, Seyfu Ketema served as director general of the Ethiopian Agricultural Research Organization, Ethiopia's minister of agriculture, general manager of the Institute for Biodiversity Conservation and Research and worked for the Institute of Agricultural Research. He was the Regional Representative for Eastern Africa on the CGIAR and served as Board Member for ICARDA and ICRAF. He obtained his M.Sc. and Ph.D. in plant breeding from the University of London.

Paramjit (Pammi) - Sachdeva Evaluation Team Member. Pammi is specialized in program and institutional assessment and HR management with expertise also in capacity development, systems analysis and organizational design. Since 2001 he has worked as an independent consultant and been involved in a number of external reviews of CGIAR Centers and programs, and in international development project and human resource management consultancies. Previously he worked at the World Bank as senior management specialist and advisor and earlier in his career at ISNAR as senior research officer. He has a PhD in social systems sciences.

Sieglinde (Sieg) Snapp - Evaluation Team Member. Sieg is an agronomist and plant physiologist who is currently Professor of Soils and Cropping Systems Ecology at Kellogg Biological Station and Department of Plant, Soil and Microbial Sciences, Michigan State University. She is interested in participatory systems research and extension approaches to natural resource management and

sustainable intensification. She has extensive experience with multidisciplinary teams including scientists, farmers, students, advisors and extension to support research for development. Current research projects include the Long term Ecological Research in Row Crops at MSU, sustainable intensification research through on-farm experimentation and modelling supported by IITA/USAID in Malawi, and systems analysis for perennial grains on smallholder farms in Africa, supported by BMGF.

ANNEX B - List of people interviewed

SURNAME, Name	Position	Organization	Location of interview
A.L. Kanton, Roger	Researcher	SARI	Ghana
Abate, Tsedeke	DTMA Project Leader	CIMMYT Kenya	Kenya
Abdoulaye, Tahirou	Social Scientist Maize CRP	IITA Nigeria	Ghana
Adu, Gloria Baakyewaa	Researcher	SARI	Ghana
Apeti, Felix	n/a	Ghana Grain Council	Ethiopia
Asea, Godfrey	National Maize Coordinator	NARO (Uganda)	Kenya
Badstue, Lone	Gender	CIMMYT	Ethiopia
Bandyopadhyay, Ranajit	Pathologist	ICARDA	Mexico
Bänziger, Marianne	Deputy Director General Research & Partnership	CIMMYT	Mexico
Baudron, Frederic	Senior Scientist	CIMMYT	Ethiopia
Baum, Michael	Director - BIGMP	ICARDA	Mexico
Bhandari, DB	Director	Hariyali Community Managed Seed Co. Thumpakhar	Nepal
Boeber, Christian	Ag Economist	CIMMYT India	Nepal
Braun, Hans	Program Director Global Wheat Program	CIMMYT	Mexico
Briones, Ernesto	Senior Systems Developer	CIMMYT	Mexico
Buah, Saaka	Head of CSIR – SARI -Wa State	CSIR - SARI	Ghana
Bumagat, Sotero	Maize Double Haploid Operations Manager	CIMMYT Kenya	Kenya
Chacha, Watanga	Managing Director	Meru Agro, Tanzania	Kenya
Chikoye, David	R4D Director, IITA-Southern Africa	IITA Zambia	Mexico
Craufurd Peter	SIMLESA strategy leader	CIMMYT	Ethiopia
De la O Elizagaray, Marisa	Manager, Risk Management & International Policy	CIMMYT	Mexico
Devkota, Mina	Agronomist	CIMMYT-Nepal	Nepal
Dilli, K.	Seed value chain specialist	CIMMYT-HMRP Nepal	Nepal
Dixon, John	Senior Adviser, Cropping Systems and Economics (CSE) program	ACIAR	Australia
Dugje, Ibrahim	Systems Agronomist visit SARD-SC	IITA Ghana	Ghana

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SURNAME, Name	Position	Organization	Location of interview
Eerdewijk, Anouka Van	Gender	KIT	Ethiopia
Erenstein, Olaf	Program Director, Socioeconomics Program	CIMMYT	Mexico
Esmail, Saleem	CEO	Western Seed Co	Kenya
Etwire, Prince Maxwell	Researcher	SARI	Ghana
Fisher, Monica	Senior Scientist	CIMMYT	Ethiopia
Fulss, Richard	Head, Knowledge Management	CIMMYT	Mexico
Gautan, I.P.	Plant Path, Director Research Station	NARC	Nepal
Gérard, Bruno	Program Director, Global Conservation Agriculture	CIMMYT	Mexico
Gharki, D.	National Legume Research Coordinator	National Legume Research Coordinator	Nepal
Govaerts, Bram	Associate Director, Global Conservation Agriculture	CIMMYT	Mexico
Guertin, Michelle	Monitoring, Evaluation and Learning Specialist,	CIMMYT	Ethiopia
Gurung, Dil B	Executive Director	NARC	Nepal
Haruna, Alidu	Researcher	CSIR - SARI	Ghana
Hearne, Sara	Senior Scientist, Maize Molecular Geneticist/Pre-breeder	CIMMYT	Mexico
Herremans, Anna	(former) Director, International Finance	CIMMYT	Mexico
Hillbur, Ylva	Deputy Director General for Research	IITA Nigeria	Mexico and Ghana
Hobbs, Huntington	Leader, Strategic Planning and Research Coordination, MasAgro	CIMMYT	Mexico
Idrissi, Zakaria	n/a	Seed Producer Ghana	Ethiopia
Jakobi, Nina	WHEAT Program Assistant	WHEAT	Mexico
Jaleta, Moti	Associate Scientist (Agricultural Economics)	CIMMYT	Ethiopia
Jamel, Abdulei	n/a	Ghana Grain Council	Ethiopia
Justice, Scott	Mechanization and innovation systems specialist	CIMMYT Nepal	Nepal
Kandiwa , Vongai	Social Scientist: Gender and Development,	CIMMYT Kenya	Kenya
Kassie, Menale	Research Scientist	CIMMYT	Ethiopia
Kemetse, Benjamin	CEO	M&B Seed Company	Ghana
Keno, Tolera	Bako Research Center / Maize project Coordination Coordinator	EIAR Ethiopia	Ethiopia
Khadka, Ram Bahadur	Scientists, Maize	NARC	Nepal
Kimotho, Ngila	Managing Director	Dryland Seed Co.	Kenya

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SURNAME, Name	Position	Organization	Location of interview
Kitenge, Kheri	Maize Breeder	SARI (Tanzania)	Kenya
Koirala, K. B.	National Maize Program coordinator for Nepal	NARC	Nepal
Komiok, James	Deputy Director	SARI	Ghana
Kommerell, Victor	WHEAT Program Manager	CIMMYT	Mexico
Koo, Hae	Crop Physiologist	CIMMYT	Ethiopia
Listman, Michael G.	Senior Science Writer, Corporate Communications	CIMMYT	Mexico
Lopez Saavedra, Victor	Manager of Institutional Relations TTF-MasAgro	CIMMYT	Mexico
Lopez-Ridaura, Santiago	Systems scientists	CIMMYT	Skype
Lopez, Diana	Project Management Unit	CIMMYT	Mexico
Lumpkin, Thomas	DG	CIMMYT	Mexico
Mac Carthy, Dirys	Research Fellow, Soil and Irrigation Research Unit	University of Ghana	Ghana
Mahuku, George	Pathologist	CIMMYT Kenya	Kenya
Mallari, Sally	MAIZE Program Assistant	CIMMYT	Mexico
Manyonge, Victor	Director of Eastern Africa and of Social Sciences	IITA Tanzania	Ghana
Medina, Richard	Director, Internal Audit Fernando	CIMMYT	Mexico
Mekuria, Mulugetta	Regional Representative for CIMMYT Southern Africa	CIMMYT	Ethiopia
Mendoza, Fernando P	Senior Internal Auditor	CIMMYT	Mexico
Menkir, Abebe	Maize Breeder and CRP Coordinator	IITA Ghana	Ghana
Mir, Patricia V	Risk Management Analyst	CIMMYT	Mexico
Mureithi, Joseph	DDG-Livestock	KALRO	Kenya
Mwangi, Wilfred	Regional Liaison Office	CIMMYT Kenya	Kenya
Mwimali, Murenga	Research Scientist	KALRO	Kenya
Namh, Stephan	Research Fellow, Soil and Irrigation Research Unit	University of Ghana	Ghana
Obeng-Antwi, Kwadwo	Country Coordinator SARI	IITA Kenya	Ghana
Oikeh, Sylvester	WEMA Project Manager	AATF	Kenya
Olsen, Michael	Trait Pipeline and Upstream Research Coordinator	CIMMYT Mexico	Kenya
Ortiz Monasterio, Ivan	Agronomist, Wheat Harvest Coordinator	CIMMYT	Mexico
Payne, Thomas S.	CIMMYT Board Secretary	CIMMYT	Mexico
Pixley, Kevin	Program Director, Genetic Resources Program	CIMMYT	Mexico
Prasanna, B M	Program Director Global Maize Program	CIMMYT	Mexico and Kenya
Rajasekharan, Nellooli P.	Director, International Human Resources	CIMMYT	Mexico
SURNAME, Name	Position	Organization	Location of

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			interview
Renard, Geneviève	MAIZE and WHEAT Communication Specialis	CIMMYT	Mexico
Ribaut, Jean-Marcel	Director, Generation Challenge Program	CIMMYT	Mexico
Riis-Jacobsen, Jens	Director of Int. Systems and Information Technology	CIMMYT	Mexico
Rijal, Tika Ram	Market coordinator	Global Agri-Tech Nepal	Nepal
Rodeyns, Nicolai	Managing Director	NASECO	Kenya
Rodriguez, Horacio	MasAgro Extension Coordinator	CIMMYT	Mexico
SanVicente, Felix	Breeding lead for the tropics in Mexico	CIMMYT	Mexico
Schulthess, Urs	Crop modeler, Global Conservation Agricultural program	CIMMYT	Mexico and skype
Sherpan, D.P	Soil scientist CSISA-Nepal	CIMMYT Nepal	Nepal
Short, Thomas W.	DDG Support Services	CIMMYT	Mexico
Sim, Graham	Director, International Finance	CIMMYT	Mexico
Teklewold, Adefris	Director, Crops Research,	EIAR Ethiopia	Ethiopia
Tende, Regina	n/a	KALRO	Kenya
Tesfaye, Kindie	Researcher	CIMMYT	Ethiopia
Thorne, Peter	farming systems	ILRI-Ethiopia	Ethiopia
Thornton, Matthew	Hub Coordinator	CIMMYT	Mexico
Tovar Mondragon, Jose Ramiro	Manager, Financial Planning	CIMMYT	Mexico
Trachsel, Sam	Scientist, Global Maize Program	CIMMYT	Mexico
Van Lauwe, Bernard	Director of Central Africa and of Natural Resources Management	IITA	Ghana
Wangai, Anne	n/a	KALRO	Kenya
Watson, David	MAIZE Program Manager	CIMMYT	Mexico
Wegary, Dagne	Maize breeder	CIMMYT	Ethiopia
Willcox, Martha	Senior Scientist working with the Seeds Discovery (Seed) project	CIMMYT	Mexico

ANNEX C - MAIZE evaluation timeline

MAIN EVENTS	PERIOD/DATE	ACTIVITIES	PEOPLE INVOLVED
PREPERATORY and INCEPTION PHASE			
Preparatory Phase	Jan - Oct 2014	<ul style="list-style-type: none"> Finalizing ToR Recruitment of Evaluation Team Establishment of Reference Group 	IEA
1st RG consultation	10 – 25 Jan 2014	<ul style="list-style-type: none"> Feedback on draft ToR 	RG + IEA
Inception meeting	25 – 30 May 2014	<ul style="list-style-type: none"> Work on evaluation methodology Start preparing the Inception Report Briefing on MAIZE program and CIMMYT 	MAIZE + ET + IEA
2nd RG consultation	8-18 Sep 2014	<ul style="list-style-type: none"> Feedback on draft Inception Report 	RG + TL + IEA
Final inception report	Oct 2014	<ul style="list-style-type: none"> Final inception report published on IEA homepage 	IEA
INQUIRY PHASE			
Field visits			
		Key points covered:	
<ul style="list-style-type: none"> Ghana 	7 – 13 Sep 2014	<ul style="list-style-type: none"> Visit of DTMA field trials Interaction with IITA MAIZE team Presentations of MAIZE bilateral projects Interviews with partners and stakeholders (like SARD-SC Innovation Platform, seed companies, etc) 	Guido Gryseels, Seyfu Ketema
<ul style="list-style-type: none"> Kenya 	1 – 3 Oct 2014	<ul style="list-style-type: none"> Meetings with CIMMYT staff in Nairobi and briefings Meetings with MAIZE partners Visit of DH facility and other facilities in Kiboko Visit of Maize Lethal Necrosis Screening Facility in Naivasha 	Javier Betran, Scott Chapman, Seyfu Ketema,
<ul style="list-style-type: none"> Ethiopia 	6 – 8 Oct 2014	<ul style="list-style-type: none"> General presentation of CIMMYT-Ethiopia and MAIZE activities Presentations by partners Field visit to Bako Agricultural Research Center FACASI and SIMLESA visits 	Guido Gryseels, Scott Chapman, Seyfu Ketema, Sieg Snapp
<ul style="list-style-type: none"> Nepal 	11-16 Oct 2014	<ul style="list-style-type: none"> Briefing on CIMMYT work in Nepal Visit of CSISA and HMRP projects Community interactions at Hariyali Interviews with key stakeholders in Kathmandu 	Sieg Snapp
Research staff survey	Nov – Dec 2014	<ul style="list-style-type: none"> Design and piloting of survey Conduct of survey 	ET + IEA
Other inquiry phase activities	Oct – Dec 2014	<ul style="list-style-type: none"> Interviews with partners and stakeholders and external experts Documentation review 	ET

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Publication review	Nov 2014 – Jan 2015	<ul style="list-style-type: none"> Qualitative assessment of sample publications 	ET
REPORTING PHASE Jan- Mar 2015			
Analysis, synthesis	Jan 2015	<ul style="list-style-type: none"> Survey analysis Drafting of roll out case study reports and research case study reports Synthesis of publications review 	ET + IEA
Drafting of report	Jan 2015– Feb 2015	<ul style="list-style-type: none"> Drafting of evaluation report 	ET
Writing meeting	26 – 30 Jan 2015	<ul style="list-style-type: none"> Review findings and sections prepared by team members Discuss and agree on conclusions and recommendations 	ET + IEA
Feedback and comments	2 – 23 Mar 2015	<ul style="list-style-type: none"> MAIZE management and RG provide feedback and comments MAIZE management to start working on management response 	MAIZE +RG
Incorporation of comments	23 – 28 Mar 2015	<ul style="list-style-type: none"> Review and revisions of draft report 	TL +IEA
Final Evaluation Report	7 Apr 2015	<ul style="list-style-type: none"> Final Evaluation Report incl. MAIZE management response submitted to CGIAR Fund Council 	IEA
Dissemination phase	Apr- May 2015	<ul style="list-style-type: none"> Communications products 	MAIZE + TL + IEA

ET= Evaluation Team, TL = Evaluation Team Leaders, RG= Evaluation Reference Group, MAIZE = MAIZE management

ANNEX D - List of publications (for qualitative assessment)

Selection of individual publications for assessment

The team intended to assess 40 publications in total. The publications were categorized according to the Center that issued them (CIMMYT and IITA) and to discipline (i.e. whether they related to agronomy, breeding or socio-economics). Target numbers were then developed based on how many publications each Center had published in the 3 disciplines (see Table 1 below). Publications for assessment were then selected randomly from the database according to these target numbers.

Table 1 - Criteria for selection of sample publications

	CIMMYT	IITA	TOTAL SAMPLE		CIMMYT	IITA
Agronomy	77%	23%	12	11	9	2
Breeding	68%	32%	24	21	14	7
Socio-econ	57%	43%	4	8	5	3
			40	40	27	13

After all publications had been identified, an assessor was assigned for each one, bearing in mind the areas of competence, expertise and experience of the assessors. Two team member did not complete their assessments due to time constraints (additional data collection activities), therefore only 22 publications were assessed during the evaluation.

The publications assessed by the evaluation team are shown in the table below.

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Table 2 - Sample Publications analyzed by the Evaluation Team

Assessor	CENTER	Authors	Title	Year	Source	CATEGORY
SN	CIMMYT	Schulthess, U., Timsina, J., Herrera, J.M., McDonald, A.	Mapping field-scale yield gaps for maize: An example from Bangladesh	2013	Field Crops Research, Vol. 143, pp.151-156	Agronomy
SN	CIMMYT	Devkota, M., Martius, C., Lamers, J.P.A., Sayre, K.D., Devkota, K.P., Gupta, R.K., Egamberdiev, O., Vlek, P.L.G.	Combining permanent beds and residue retention with nitrogen fertilization improves crop yields and water productivity in irrigated arid lands under cotton, wheat and maize	2013	Field Crops Research, Vo. 149, pp. 105-114	Agronomy
SN	CIMMYT	Sims, B.G., Thierfelder, C., Kienzle, J., Friedrich, T., Kassam, A.	Development of the conservation agriculture equipment industry in sub-Saharan Africa	2012	Applied Engineering in Agriculture, Vol. 28, Issue 6, pp. 813-823	Agronomy
SN	CIMMYT	Hellin, J., Erenstein, O., Beuchelt, T., Camacho, C., Flores, D.	Maize stover use and sustainable crop production in mixed crop-livestock systems in Mexico	2013	Field Crops Research, Vol. 153, pp. 12-21	Agronomy
SN	CIMMYT	Cairns, J.E., Sonder, K., Zaidi, P.H., Verhulst, N., Mahuku, G., Babu, R., Nair, S.K., Das, B., Govaerts, B., Vinayan, M.T., Rashid, Z., Noor, J.J., Devi, P., San Vicente, F., Prasanna, B.M.	Maize production in a changing climate. impacts, adaptation, and mitigation strategies	2012	Advances in Agronomy, Vol. 114, pp. 1-58	Agronomy
SC	CIMMYT	Weber, V.S., Melchinger, A.E., Magorokosho, C., Makumbi, D., Bänziger, M., Atlin, G.N.	Efficiency of managed-stress screening of elite maize hybrids under drought and low nitrogen for yield under rainfed conditions in Southern Africa	2012	Crop Science, Vol. 52, Issue 3, pp. 1011-1020	Breeding

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Assessor	CENTER	Authors	Title	Year	Source	CATEGORY
SC	CIMMYT	Wen, W., Guo, T., Tovar, V.H.C., Li, H., Yan, J., Taba, S.	The strategy and potential utilization of temperate germplasm for tropical germplasm improvement: A case study of maize (<i>Zea mays</i> L.)	2012	Molecular Breeding, Vol. 29, Issue 4, 951-962	Breeding
SC	IITA	Akaogu, I. C. *, Badu-Apraku, B., Adetimirin, V. *, Vroh Bi, I., Oyekunle, M. and Akinwale, R. *	Genetic diversity assessment of extra-early maturing yellow maize inbreds and hybrid performance in Striga-infested and Striga-free environments,	2012	The Journal of Agricultural Science	Breeding
SK	CIMMYT	Kassie, M., Jaleta, M., Shiferaw, B., Mmbando, F., Mekuria, M.	Adoption of interrelated sustainable agricultural practices in smallholder systems: Evidence from rural Tanzania	2013	Technological Forecasting and Social Change, Vol. 80, Issue 3, pp. 525-540	Socio-econ
GG	CIMMYT	Hellin, J., Keleman, A., López, D., Donnet, L., Flores, D.	The importance of niche markets. A case study of blue and pozole-making maices in México [La Importancia De Los Nichos De Mercado. Un Estudio De Caso Del Maíz Azul Y Del Maíz Para Pozole En México]	2013	Revista Fitotecnia Mexicana, Vol. 36, Suppl. 3, pp. 315-328	Socio-econ
GG	CIMMYT	Beuchelt, T.D., Virchow, D.	Food sovereignty or the human right to adequate food: Which concept serves better as international development policy for global hunger and poverty reduction?	2012	Agriculture and Human Values, Vol. 29, Issue 2, pp. 259-273	Socio-econ
GG	CIMMYT	Hellin, J.	Agricultural extension, collective action and innovation systems: Lessons on network brokering from Peru and Mexico	2012	Journal of Agricultural Education and Extension, Vol. 18, Issue 2, pp. 141-159	Socio-econ

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Assessor	CENTER	Authors	Title	Year	Source	CATEGORY
GG	IITA	Kostandini, G., La Rovere, R. and Abdoulaye, T.	Potential impacts of increasing average yields and reducing maize yield variability in Africa	2013	Food Policy, Vol. 43, pp. 213-226	Socio-econ
GG	IITA	La Rovere, R., Abdoulaye, T., Kostandini, G., Guo, Z., Mwangi, W., MacRobert, J. and Dixon, J.	Economic, production, and poverty impacts of investing in maize tolerant to drought in Africa: an ex-ante assessment	2014	The Journal of Developing Areas, Vol. 48, Issue 2	Socio-econ
GG	IITA	Meenakshi, J. *, Banerji, A. *, Manyong, V., Tomlins, K., Mittal, N.* and Hamukwala, P.*	Using a discrete choice experiment to elicit the demand for a nutritious food: Willingness-to-pay for orange maize in rural Zambia	2012	Journal of Health Economics, Vol 31, Issue 1, pp. 62-71	Socio-econ
GG	CIMMYT	Kassie, G.T., Erenstein, O., Mwangi, W., MacRobert, J., Setimela, P., Shiferaw, B.	Political and economic features of the maize seed industry in southern Africa	2013	Agrekon, Vol. 52, Issue 2, pp. 104-127	Socio-econ
SK	IITA	Idrisa, Y. L., Abdoulaye, T., Mohammed, S. T. , Ibrahim, A. A.	Analysis of Drought-Tolerant Maize Adoption and its Effect on Food Security among Farmers in the Sudan Savanna of Northeastern Nigeria	2014	Asian Journal of Agricultural Extension, Economics & Sociology, Vol. 3, Issue 6	Socio-econ
SK	CIMMYT	Donnet, L., Hellin, J., Riis-Jacobsen, J.	Linking Agricultural Research with the Agribusiness Community from a Pro-Poor Perspective: the Importance of Human Capital Development	2012	International Food and Agribusiness Management Review Vol. 15 Special Issue A	Socio-econ
SC	CIMMYT	Witt, S., Galicia, L., Lisec, J., Cairns, J., Tiessen, A., Araus, J.L., Palacios-Rojas, N., Fernie, A.R.	Metabolic and Phenotypic Responses of Greenhouse-Grown Maize Hybrids to experimentally Controlled Drought Stress	2012	Molecular Plant, Vol. 5, Issue 2, pp. 401-417	Breeding

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Assessor	CENTER	Authors	Title	Year	Source	CATEGORY
SC	CIMMYT	von Mérey, G.E., Veyrat, N., Lange, E.D., Degen, T., Mahuku, G., Valdez, R.L., Turlings, T.C.J., D'Alessandro, M.	Minor effects of two elicitors of insect and pathogen resistance on volatile emissions and parasitism of <i>Spodoptera frugiperda</i> in Mexican maize fields	2012	Biological Control, Vol. 60, Issue 1, pp. 7-15	Breeding
SC	CIMMYT	Perez-Elizalde, S., Jarquin, D., Crossa, J.	General Bayesian Estimation Method of Linear–Bilinear Models Applied to Plant Breeding Trials With Genotype × Environment Interaction	2012	Journal of Agricultural, Biological, and Environmental Statistics, Vol. 17, Issue 1, pp. 15-37	Breeding
SN	CIMMYT	Dendooven, L., Gutiérrez-Oliva, V.F., Patiño-Zúñiga, L., Ramírez-Villanueva, D.A., Verhulst, N., Luna-Guido, M., Marsch, R., Montes-Molina, J., Gutiérrez-Miceli, F.A., Vásquez-Murrieta, S., Govaerts, B.	Greenhouse gas emissions under conservation agriculture compared to traditional cultivation of maize in the central highlands of Mexico	2012	Science of the Total Environment, Vol. 431, pp.237-244	Agronomy

ANNEX E - MAIZE researcher survey

Sent out: 13 Nov 2014

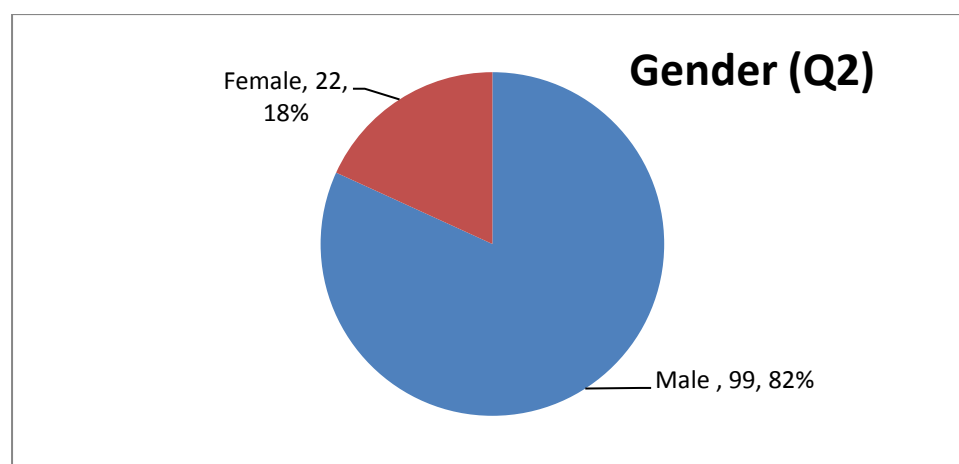
Reminder sent by CIMMYT: 2 Dec 2014

Closed: 11 Dec 2014

	Total	CIMMYT	IITA	Other
Survey sent to	523	263	31	228
Responses	121	94	15	12
Response rate	23%	36%	48%	5%
Complete Reponses	95	73	14	8
Completed response rate	18%	28%	45%	4%

Survey population

Figure 1: Q 2. Please indicate your gender



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Figure 2: Q 3. What is your research position?

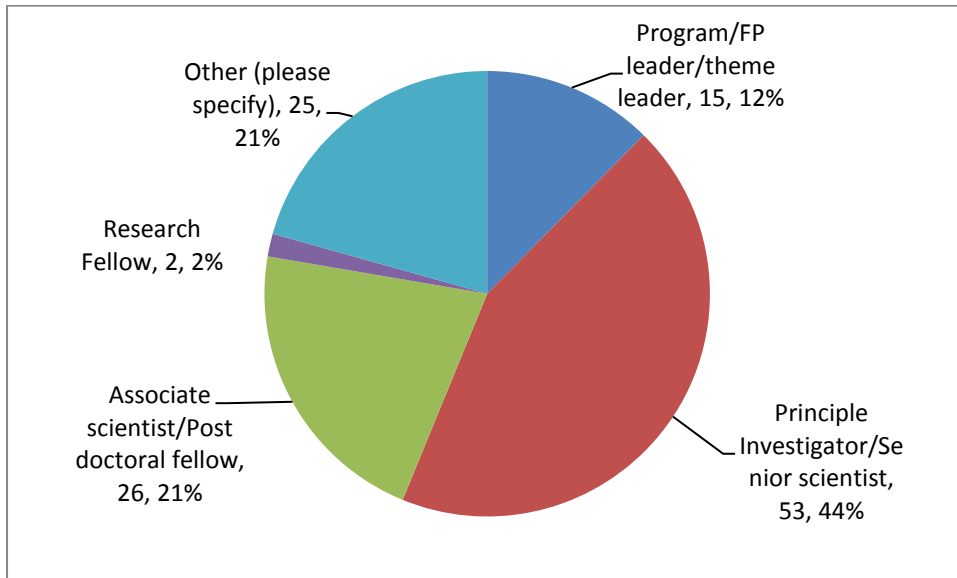


Figure 3: Q 4. What is your research area?

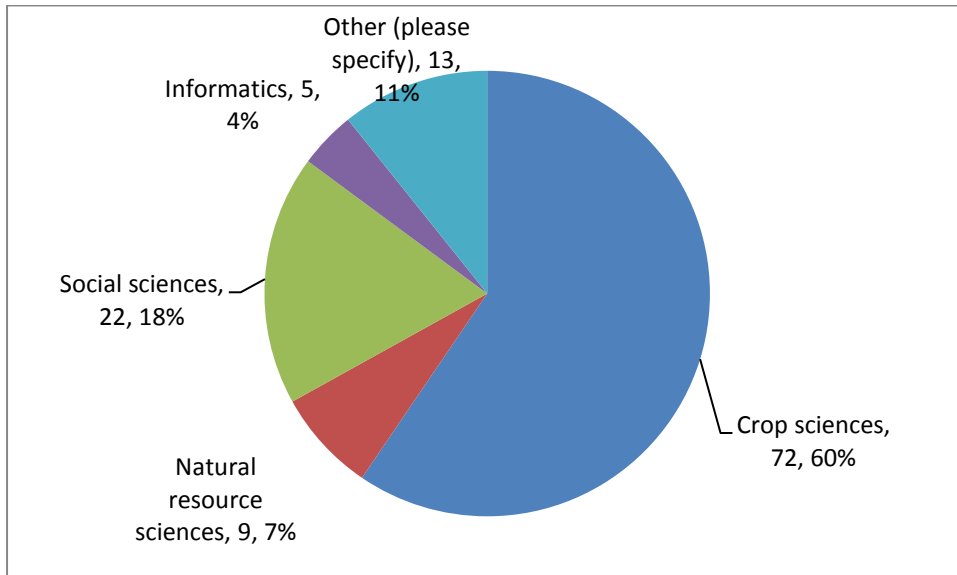


Figure 4: Q 5. Since when have you been working with your current organization? Please

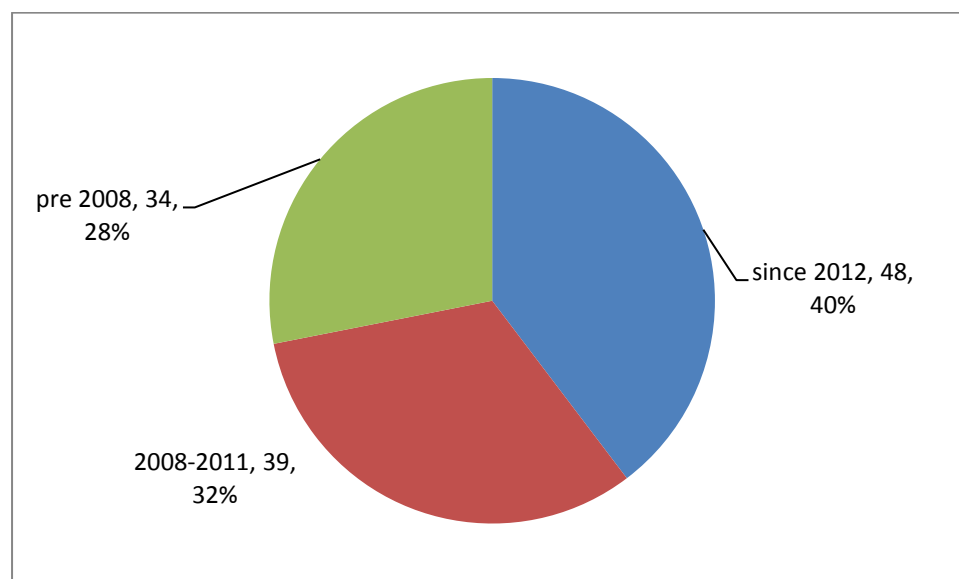


Table 3: Q 6. In what country are you currently based?

Country	Number of respondents
Mexico	28
India	16
Kenya	13
Zimbabwe	13
Nigeria	12
Ethiopia	10
Bangladesh	6
China	6
Nepal	4
Pakistan	3
Ghana	2
Austria	1
Colombia	1
Congo - Kinshasa	1
Guatemala	1
Mali	1
Netherlands	1
South Africa	1
Zambia	1

CRP engagement

Figure 5: Q7. For which CRP(s) do you currently work?

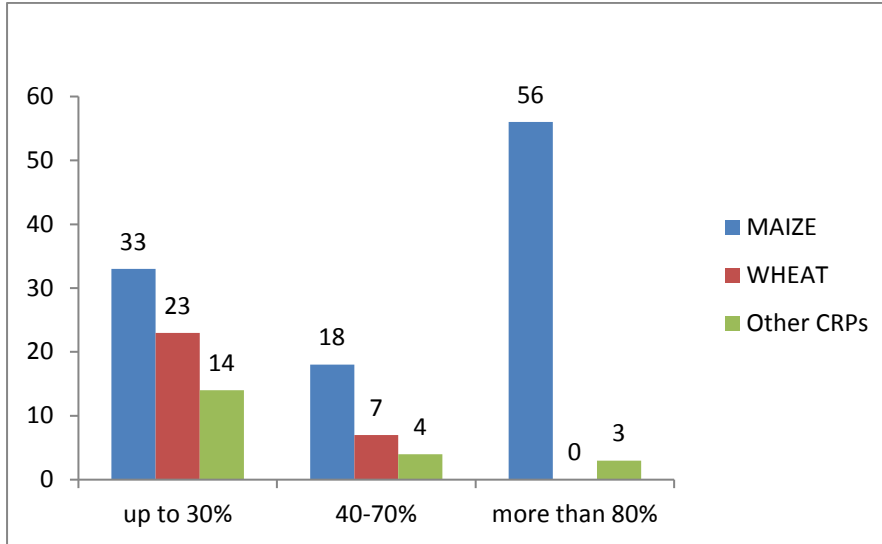
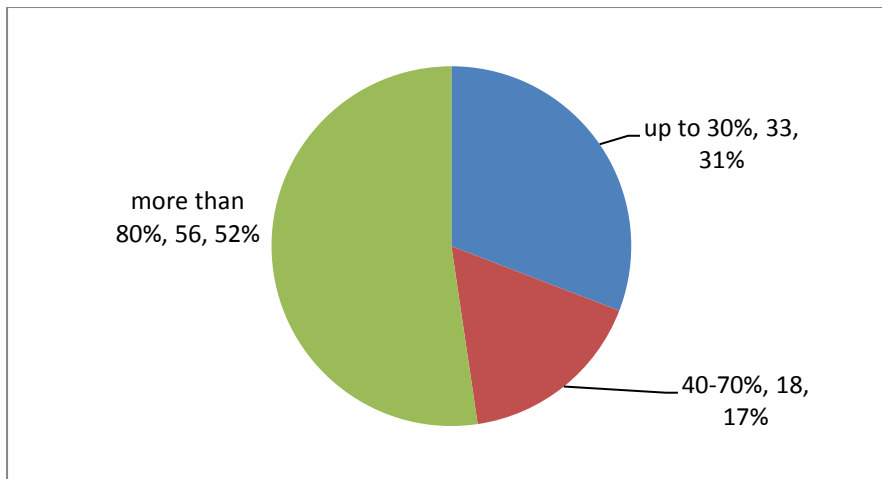


Figure 6: Q7. Please estimate the proportion of your total working time spent on each CRPs (up to four).



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Figure 7: Q 8. To which three Strategic Initiatives (SI) do you contribute? Please rank depending on time spent, with 1 (first position) being the time most spent on SI

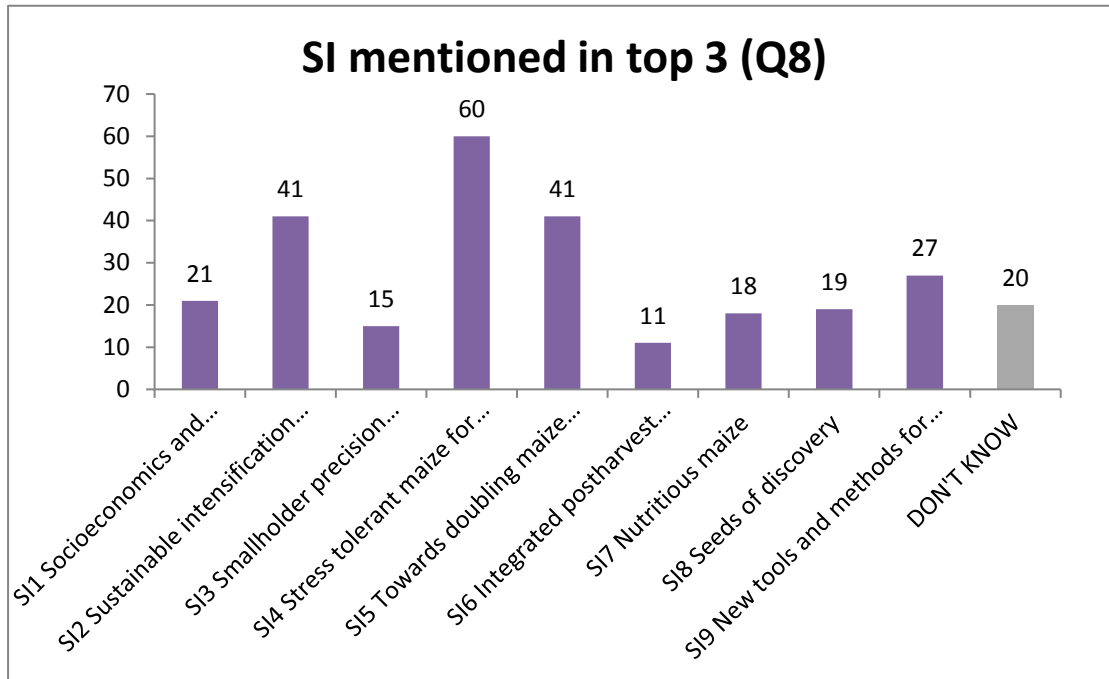
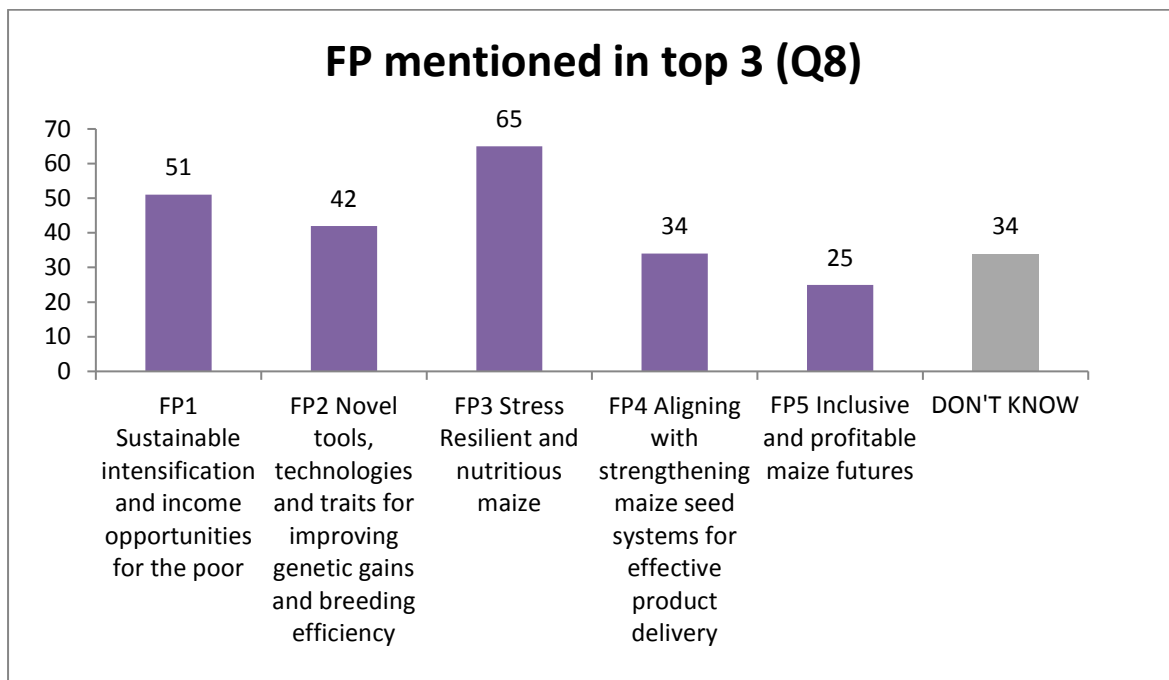


Figure 8: Q 9. To which three Flagship Projects (FP) do you contribute? Please rank depending on time spent, with 1 (first position) being the time most spent on FP



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Figure 9: Q 10. What entity/organization do you primarily identify with?

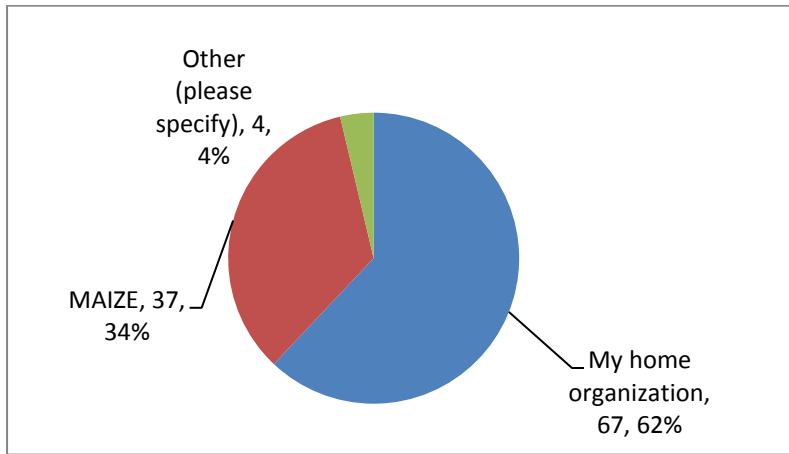
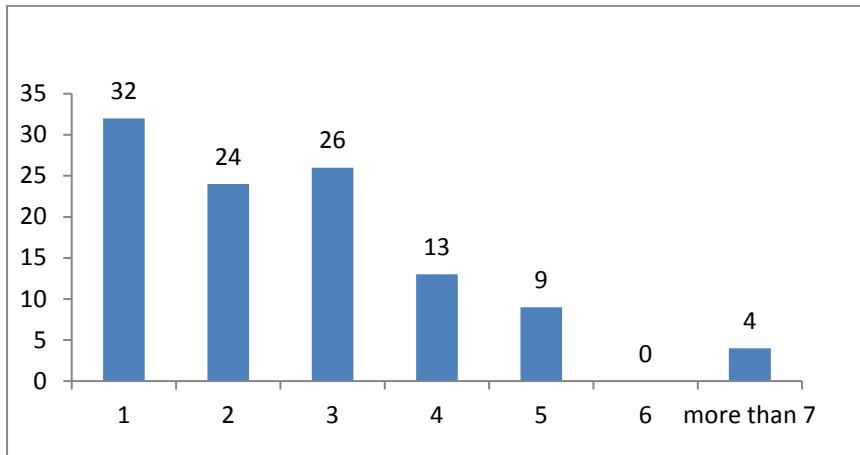


Figure 10: Q 11. How many different projects in MAIZE are you currently working on?

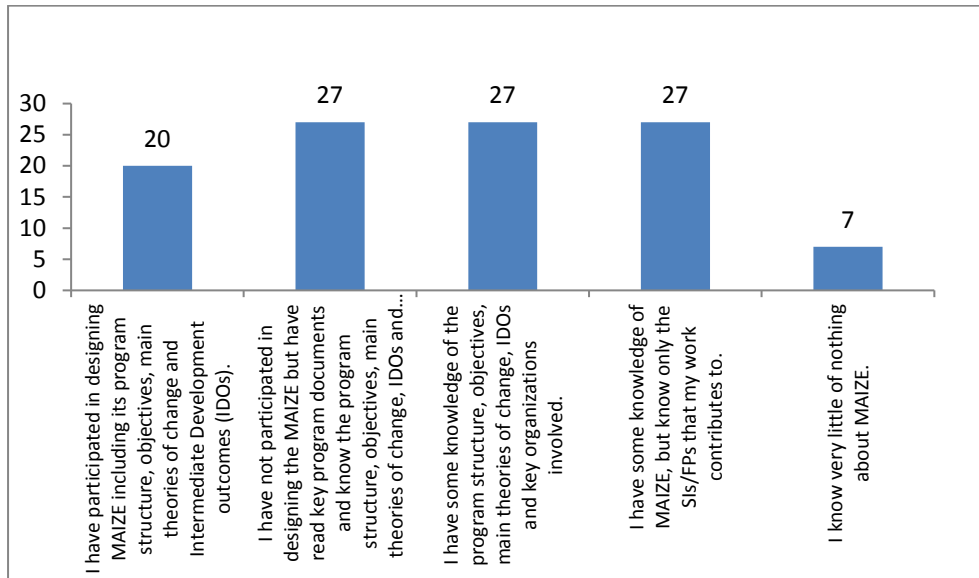


Q 12. How many reporting lines run through you? (please enter number of people)

Answer Options	Response Average
I report to	2.03
People reporting to me	5.86

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Figure 11: Q 13. How well do you know MAIZE?



RESEARCH

Figure 12: Q 14. What is your perception of the factors influencing the choice of research topics in the MAIZE SI/FP you mostly contribute to? Please score the factors below in scale 1-6 where 1=no influence and 6=primary influence

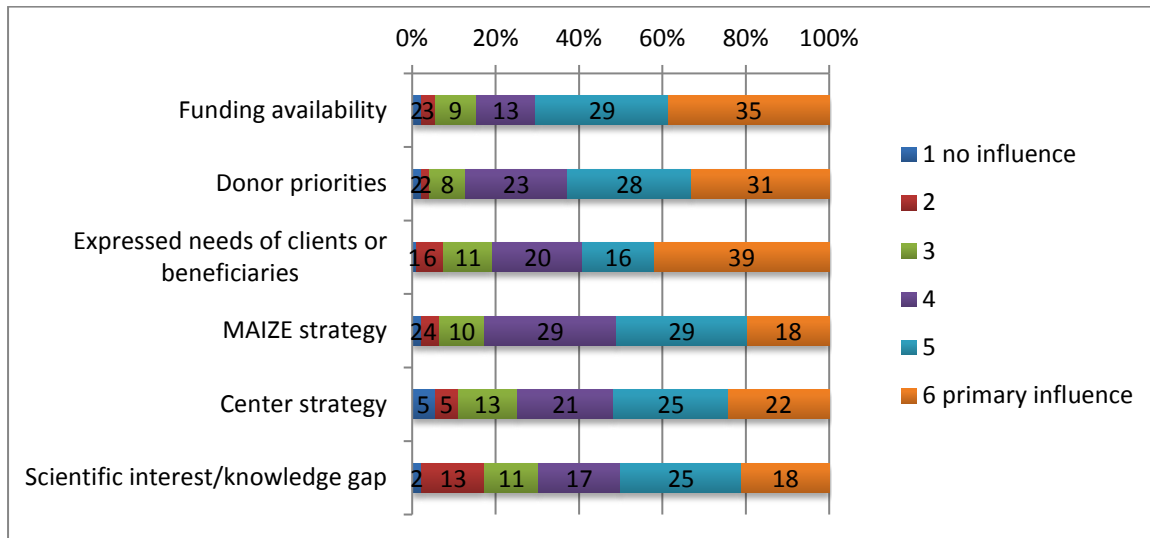
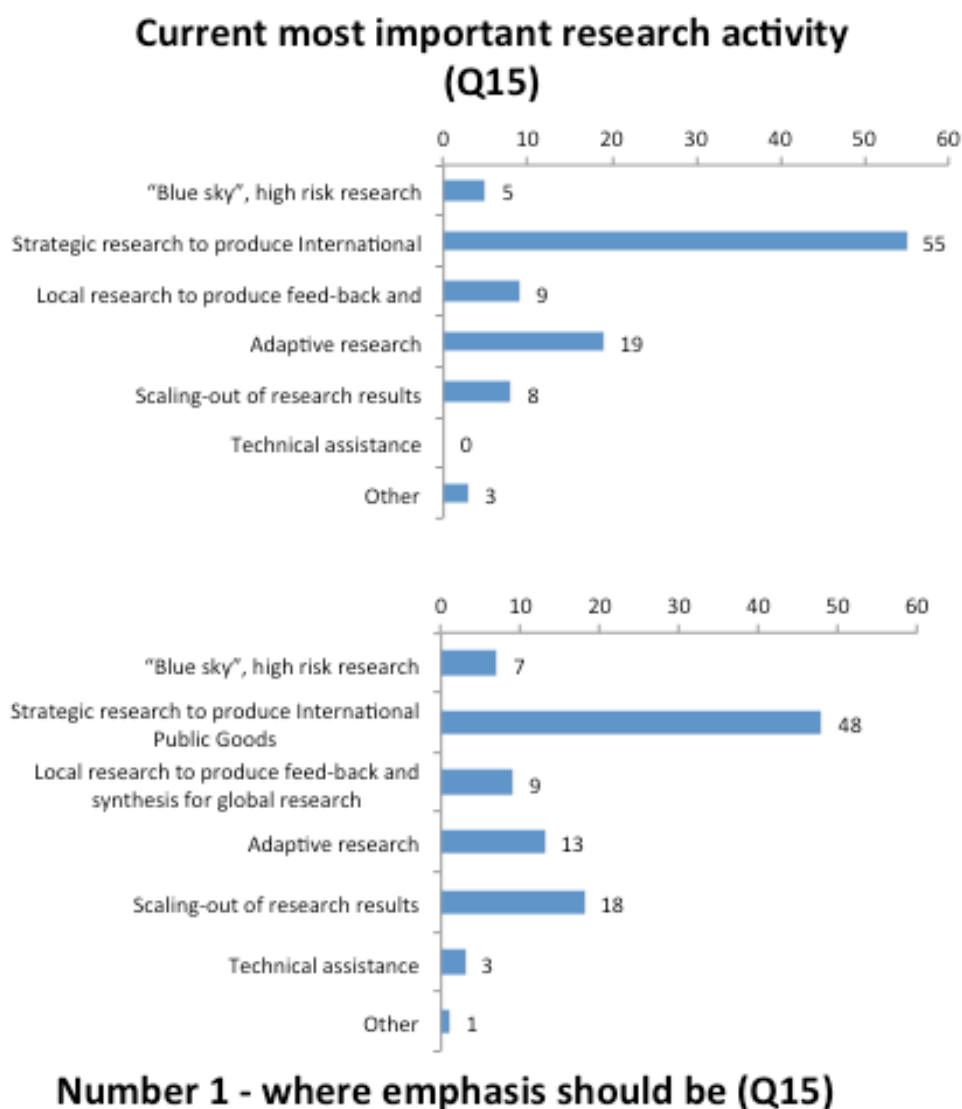


Figure 13: Q 15. According to you, which are currently the three most important research activities within MAIZE and where you think the emphasis should be?



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Figure 14: Q 16. 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 MAIZE? Please score using scale of 6 where 1 = not at all and 6=main purpose

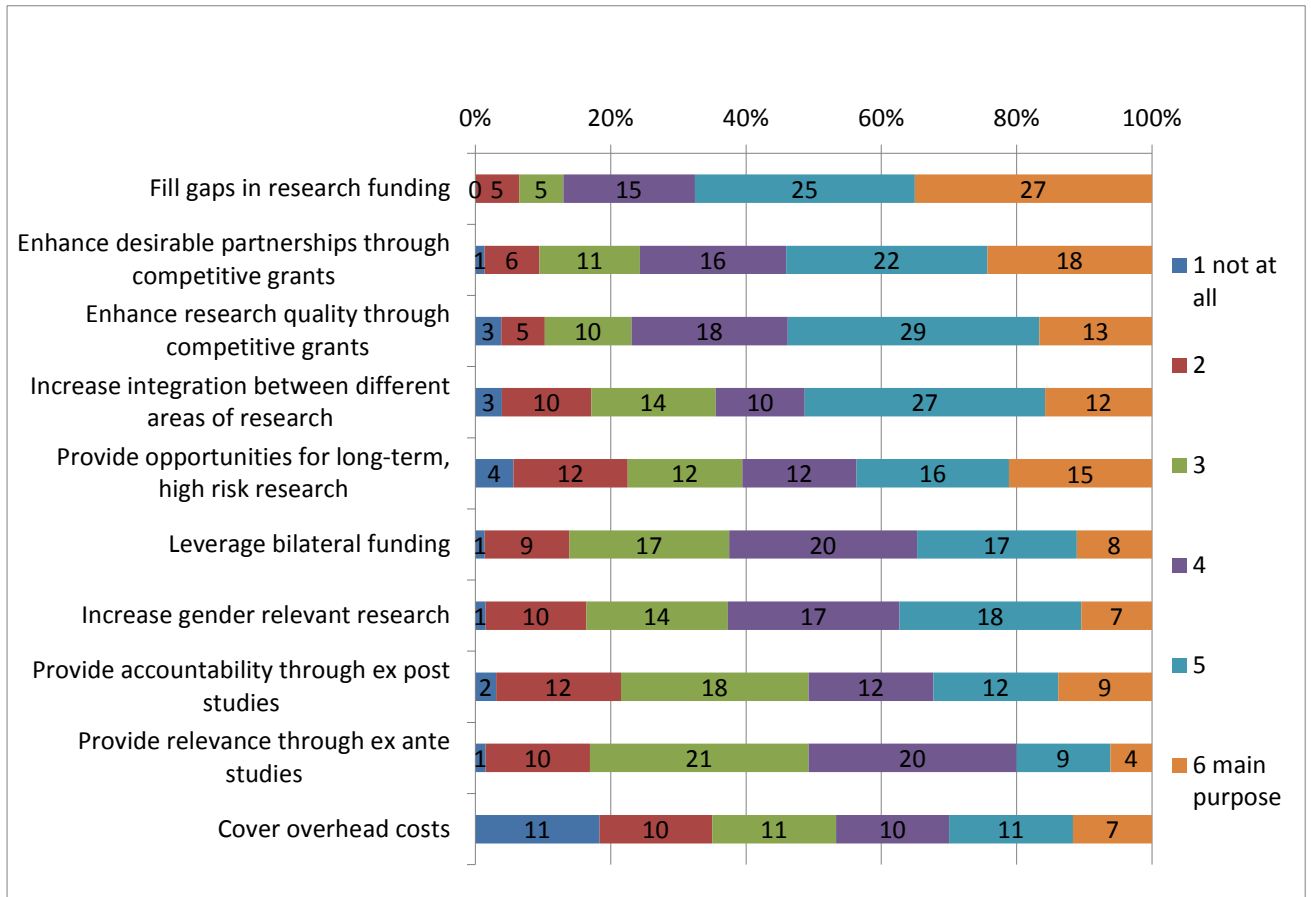
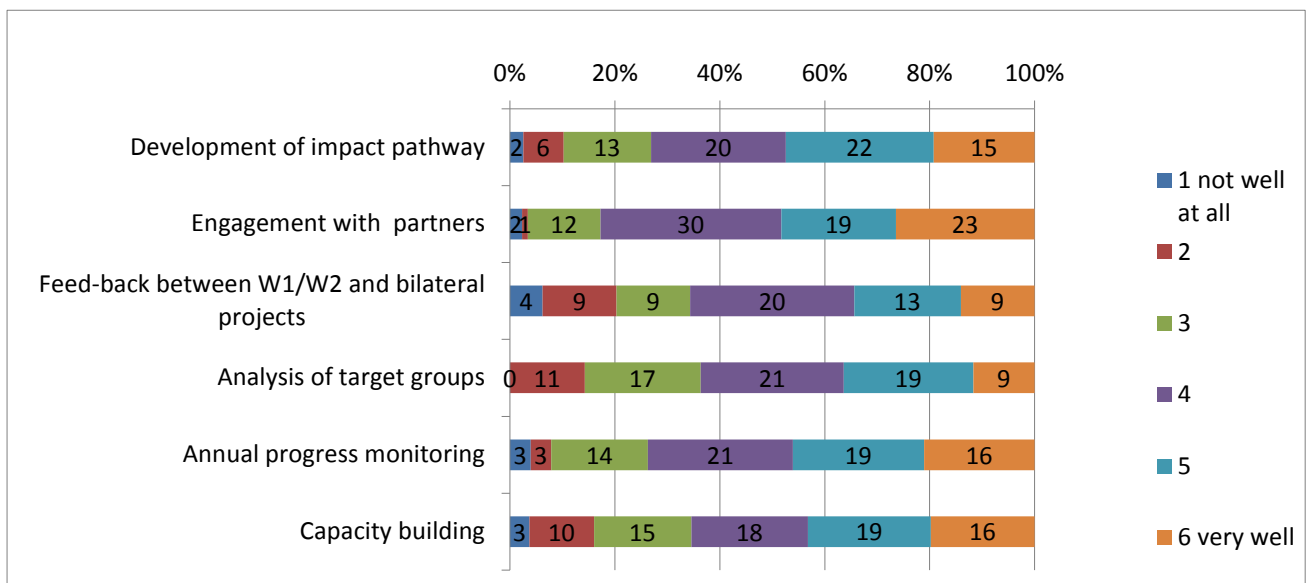
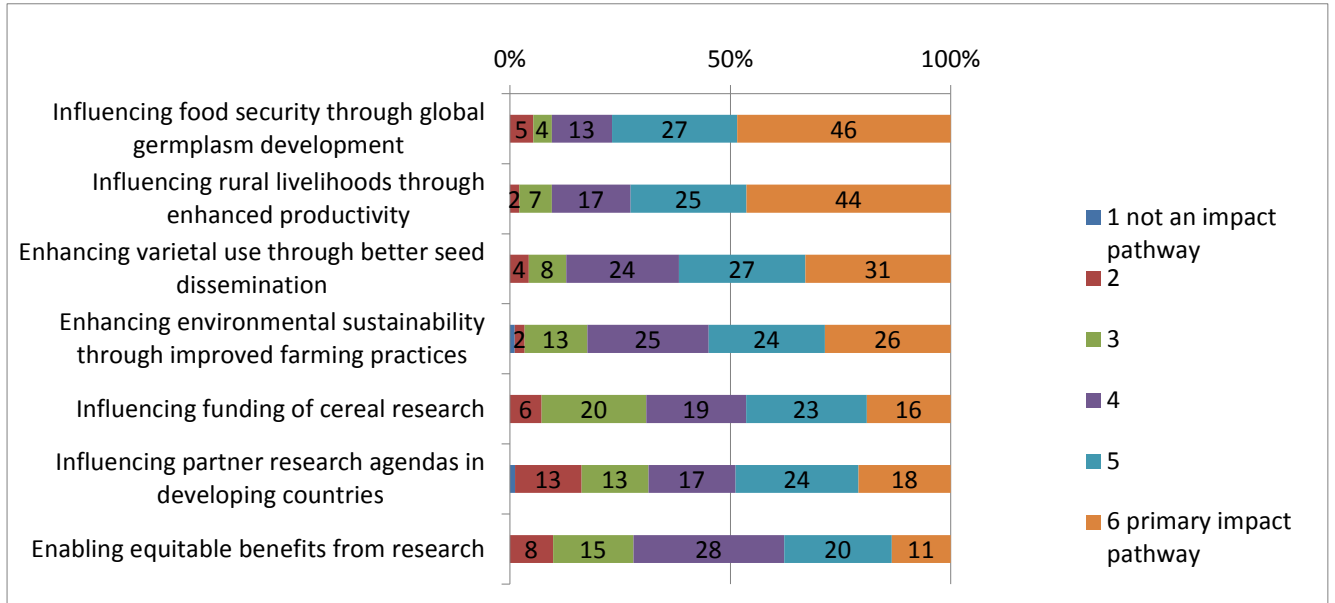


Figure 15: Q 17. In your view, how well are the following aspects for enhancing the effectiveness of MAIZE managed? Please score using a scale of 1-6 where 1=not well at all and 6=very well.



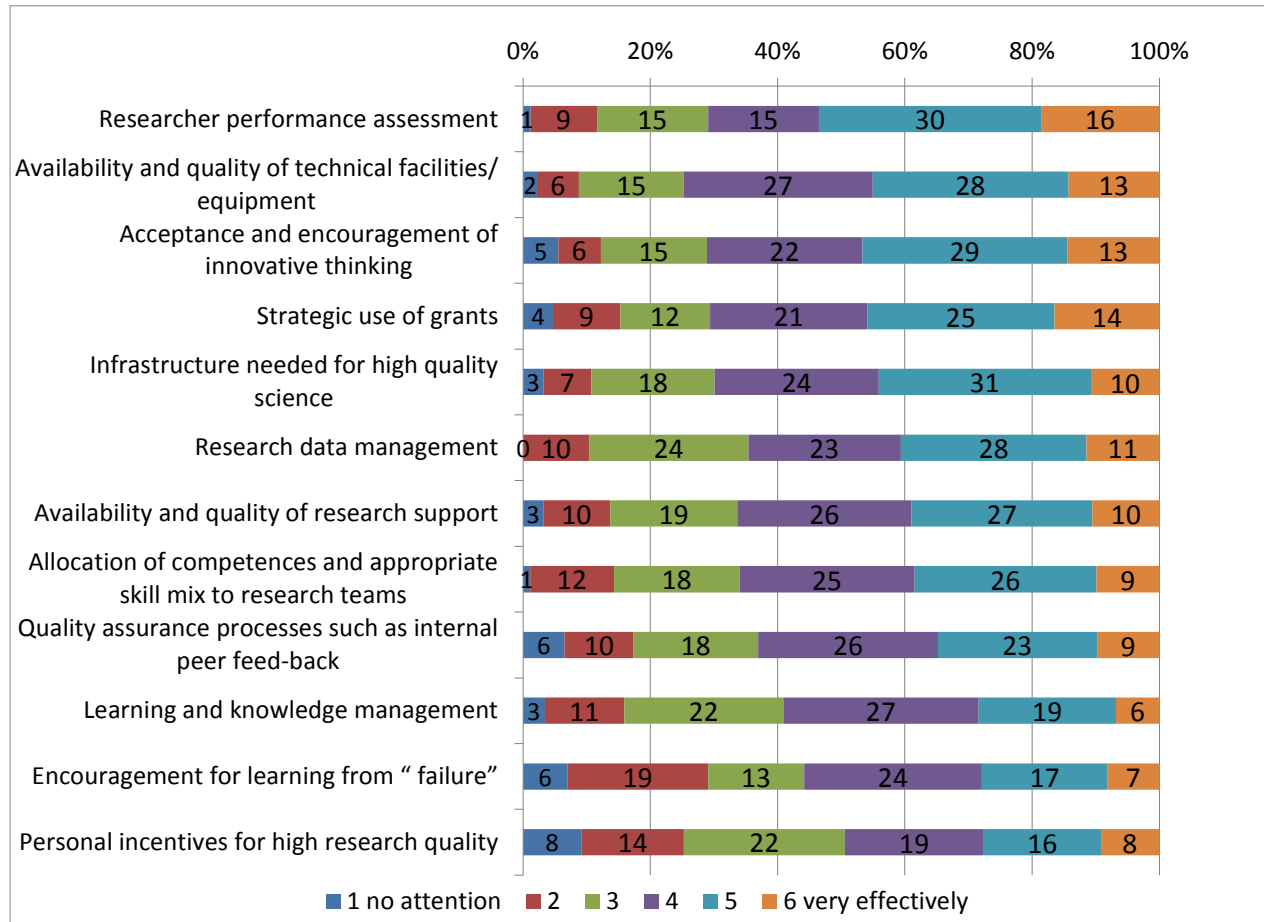
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Figure 16: Q18 In your view, what are important pathways through which research in MAIZE aims to have impact? Please score using a scale of 1-6 where 1=not an impact pathway at all and 6=primary impact pathway.



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Figure 17: Q19. In your view, how effectively are the measures listed below managed in your Center/CRP for assuring and enhancing high quality of research? Please score using a scale of 6 where 1=no attention at all and 6=very effectively.



PARTNERS

Figure 18: Q 21. Please indicate the three most IMPORTANT types of partners, for the work you do and indicate how INVOLVED those partners are in your work (scale 1-6; 1=not involved at all; 6=very much involved).

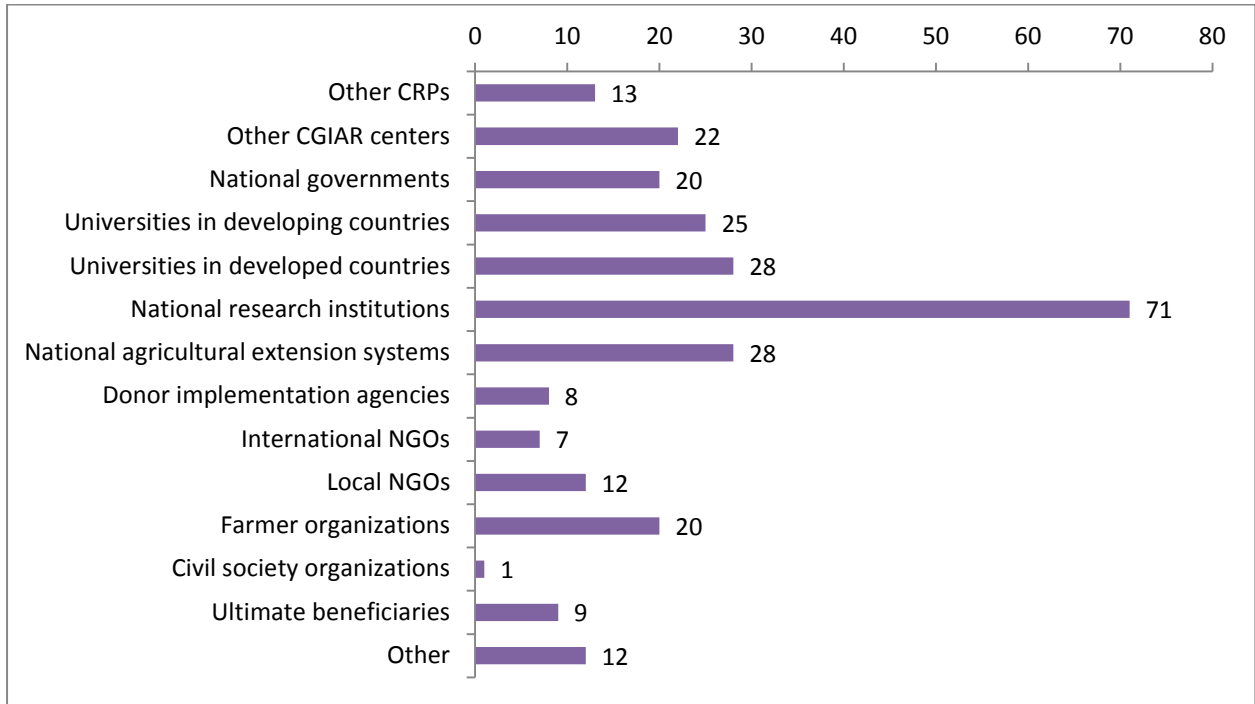
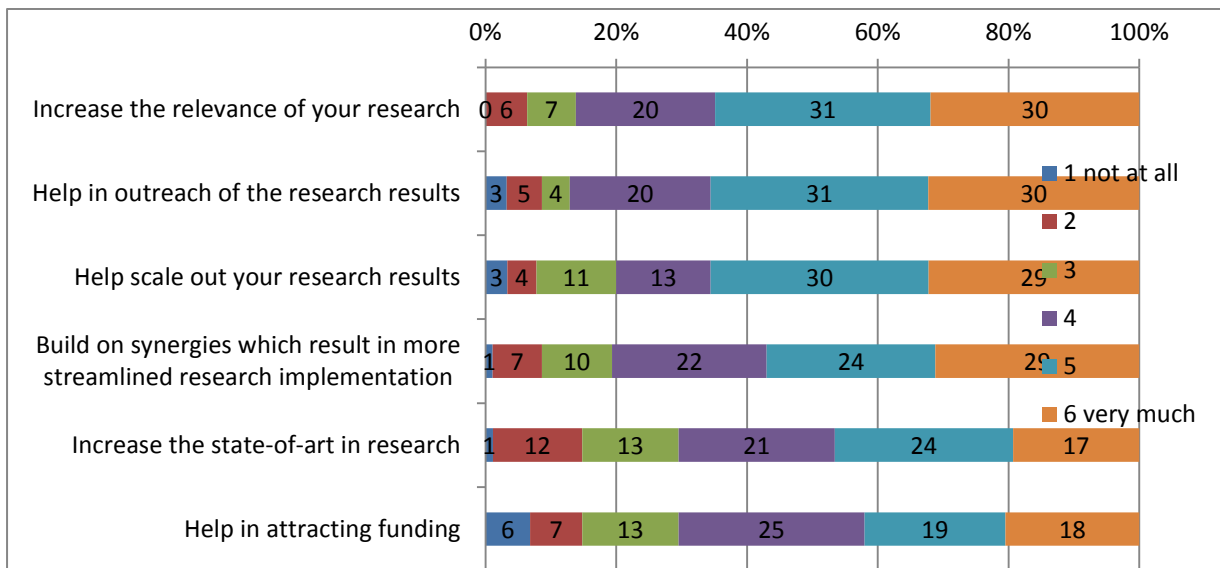


Figure 19: Q 22. In your view, to what extent do the current partnerships increase the likely effectiveness of your MAIZE-related research in areas listed below? Please score in scale of 6 where 1 = not at all; and 6 = very much



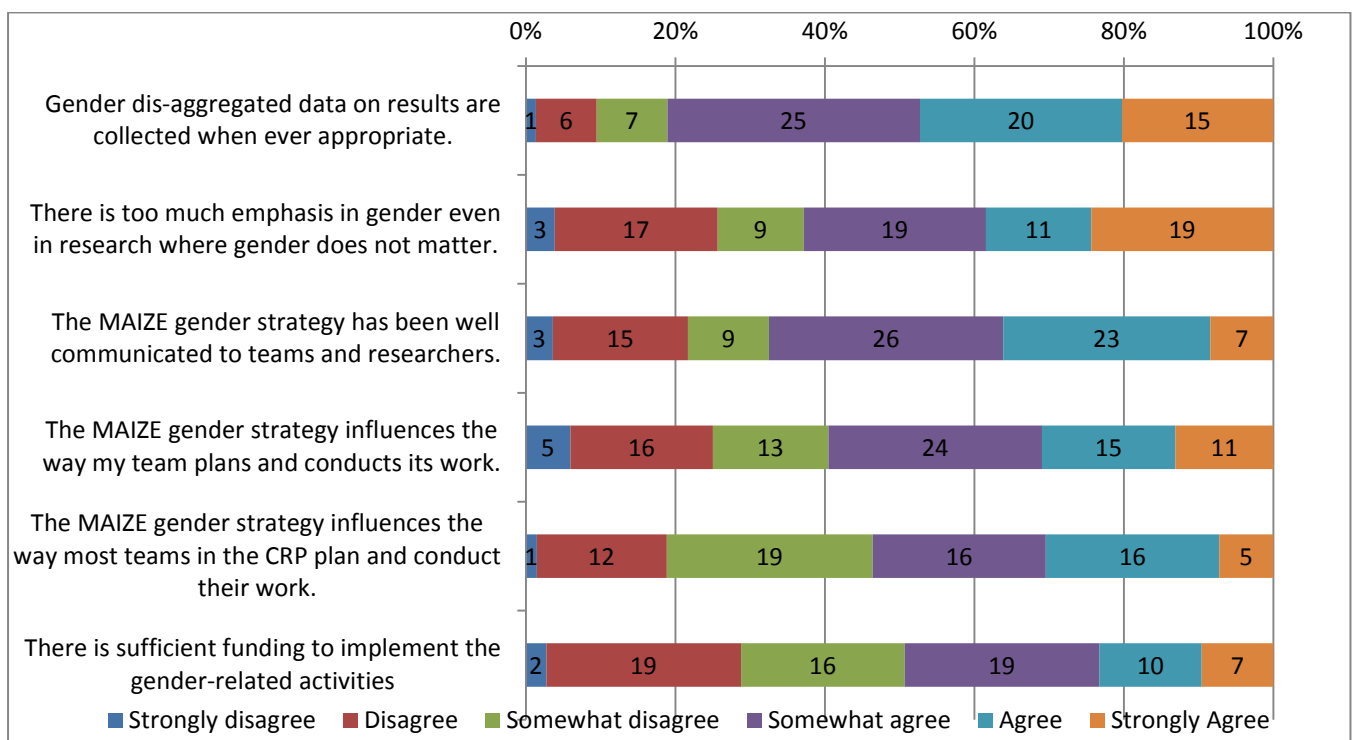
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Figure 20: Q 24. In your view, to what extent are the partners in MAIZE involved in Program activities as listed below? Please score in scale of 6 where 1 -= not at all; and 6 = very much involved



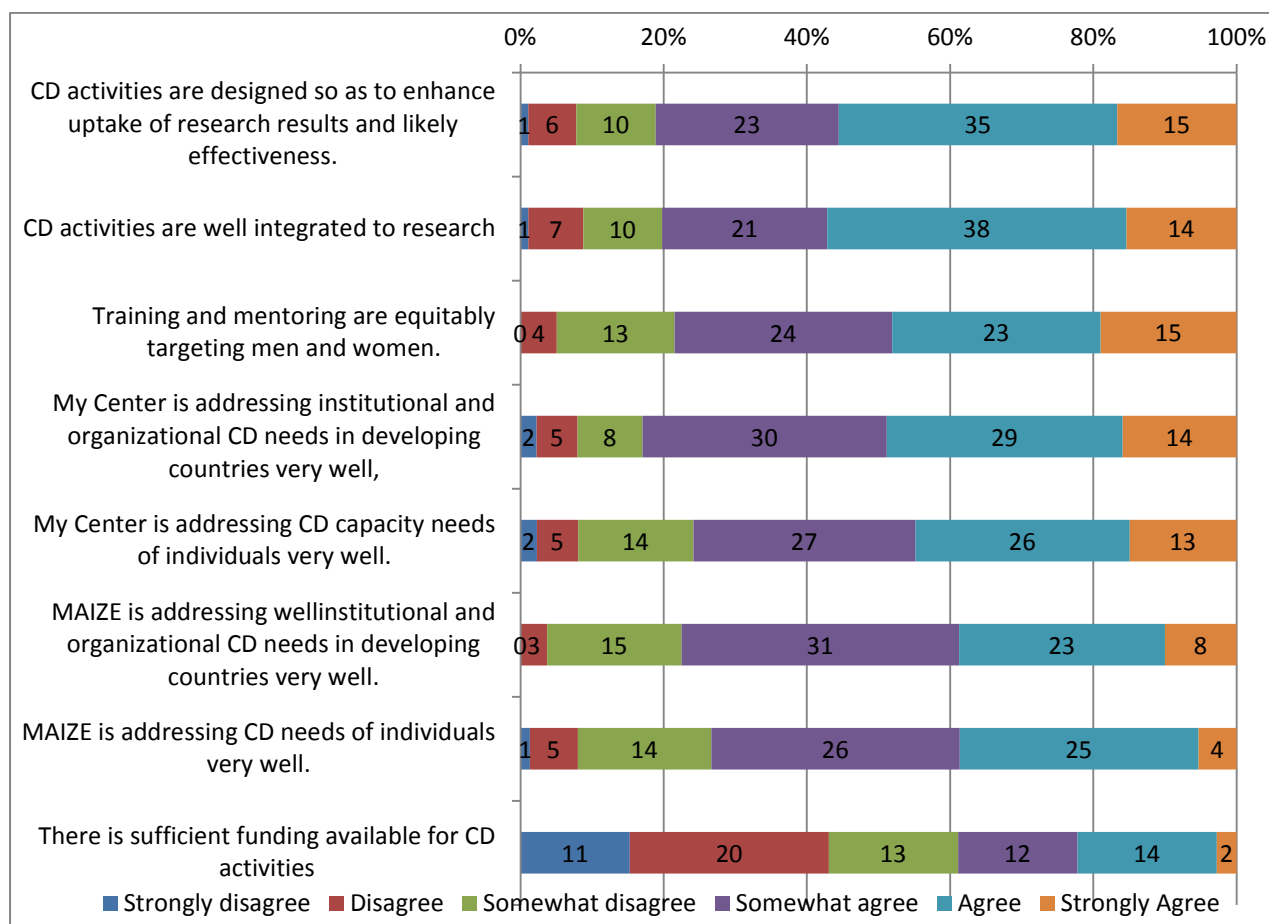
GENDER

Figure 21: Q 25. Please indicate your agreement with the following statements that relate to mainstreaming of gender issues in your work and MAIZE.



Capacity development

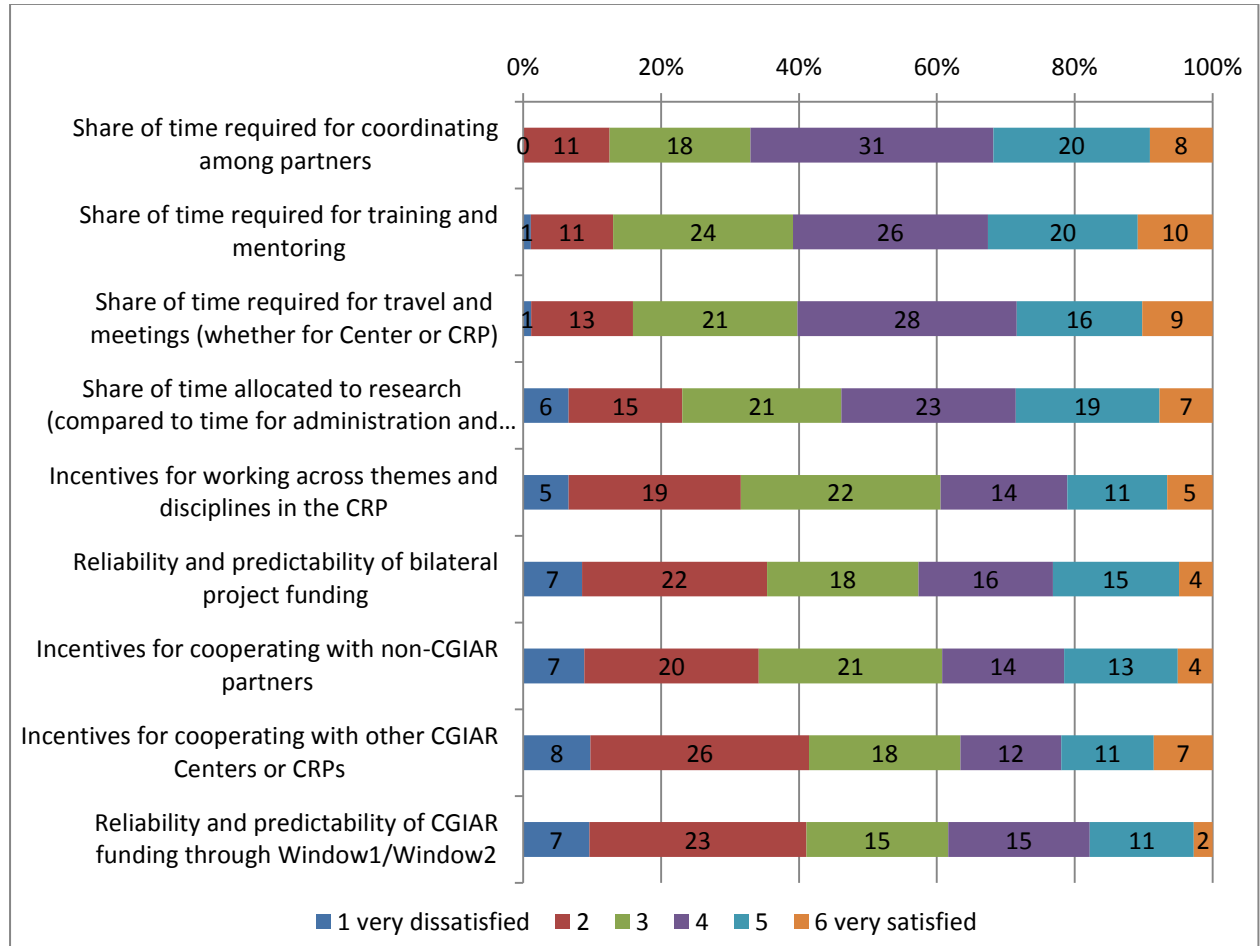
Figure 22: Q 26. Please indicate your agreement your agreement with the following statements that related to capacity development (CD) in your work and in MAIZE.



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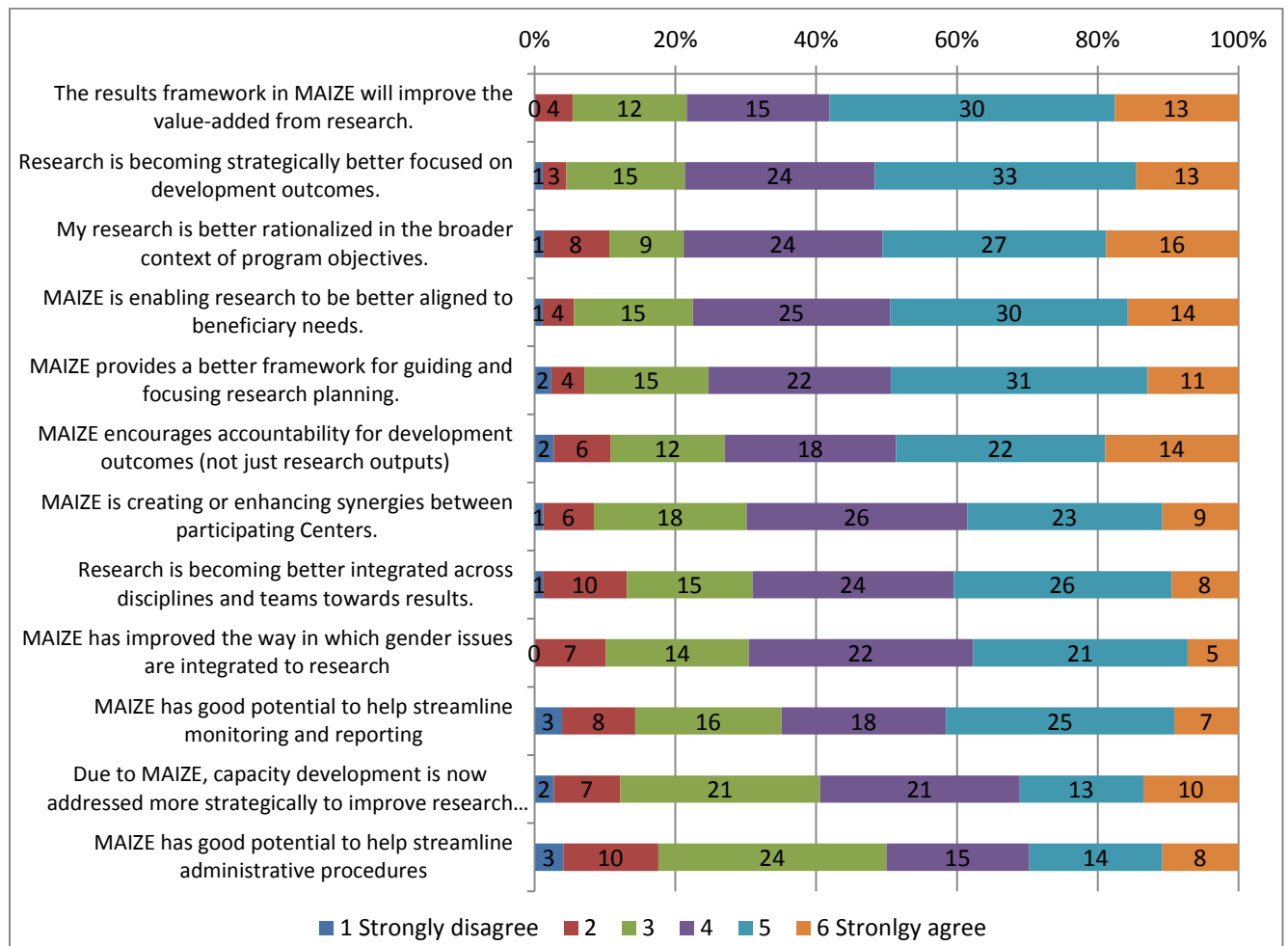
Satisfaction/value added

Figure 23: Q 27. Please indicate how satisfied you are with the following working conditions for your work. Please score in a scale of 6 where 1=very dissatisfied and 6=very satisfied.



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Figure 24: 28. Please indicate your agreement with the following statements related to the value MAIZE has had or is likely to have influencing the success of your research compared to past Center-based implementation of the research. Please score in a scale of 6 where 1=strongly disagree and 6=strongly agree.



ANNEX F - List of sample projects

TITLE	FP	LEAD
Identifying socio economic constraints for faster technology adoption	5+1	CIMMYT
Effective grain storage and approaches to reducing post-harvest losses	3+5	CIMMYT
CASFESA (Conservation Agriculture and Smallholder Farmers in Eastern and Southern Africa)	???	CIMMYT
Cereal Systems Initiative for South Asia (CSISA)	1	
MASAGRO	1	CIMMYT
Sustainable Intensification of Smallholder Maize-Livestock Farming Systems in Hill Areas of South Asia	1	CIMMYT
Sustainable intensification of maize-legume cropping systems for food security in eastern and southern Africa (SIMLESA)	1	CIMMYT
Increasing sustainable agricultural production in Mozambique (Maize/Legume) through conservation agriculture	1	CIMMYT
The Multinational - CGIAR Project: Support to Agricultural Research for Development on Strategic Commodities in Africa (SARD-SC)	1	IITA
Water Efficient Maize for Africa- Phase II	3	CIMMYT
Exploring transgenic approaches for ensuring low-income countries and resource poor farmers' access to transgenic options (Integrated Breeding Platform, Molecular Breeding Platform),	2	CIMMYT
Using decision support tools to develop innovative maize-based technologies for enhancing crop output in northern Ghana	1	CIMMYT
Improved Maize for African Soils (IMAS)	3	CIMMYT
Doubling Maize in Nigeria II	2	IITA
Identifying socioeconomic constraints to and incentives for faster technology adoption: Pathways to sustainable intensification in Eastern and Southern Africa (Adoption Pathways)	1	CIMMYT
Nutritious Maize for Ethiopia (NuME)	3	CIMMYT
Managing maize lethal necrosis (MLN) in eastern Africa through accelerated development and delivery	3	CIMMYT
Maize breeding for drought tolerance as an option to maintain maize production and decrease mycotoxin damage in the actual changing climate	3	CIMMYT
Improving disease resistance of tropical maize germplasm	3	CIMMYT
Heat stress resilient maize for South Asia through a public-private partnership	3	CIMMYT

Evaluation of CGIAR Research Program on Maize - ANNEXES

TITLE	FP	LEAD
Research Project on Aflatoxin Control in Maize Through Aflatoxin Resistant Maize Variety Breeding And Other Aflatoxin Management Methods	5	IITA
Developing maize resistant to stem borer and storage insect pests for Eastern and Southern Africa- IRMA III Conventional	5	CIMMYT
Drought Tolerant Maize for Africa – Phase III	3	CIMMYT
MASAGRO-Estrategia internacional para aumentar el rendimiento del Maíz	4	CIMMYT
MASAGRO-Seeds of Discovery	2	CIMMYT
Colaboración sobre Seguridad Alimentaria Integrado a las Plataformas de Investigación e Innovación del CIMMYT	1	CIMMYT
Genomic Selection: The next frontier for rapid gains in maize and wheat improvement	2	CIMMYT
Integrated breeding platform	2	CIMMYT

ANNEX G - TEMPLATE - qualitative publication assessment

Peer review scoring of a random sample of publications – TEMPLATE

Number of publication (according to our list and file name):
 Name of publication:
 Journal name:
 Center: CIMMYT/IITA
 Area: Agronomy/Breeding/Socio econ
 Team member to review publication

Team members shall assess each publication according to the following standardized criteria and approach:

<i>Criterion</i>	<i>Assessment approach</i>
methodological rigor and coherence of data analysis	Scale ¹
comprehensiveness of research narrative	Scale
innovativeness; novelty	Observation: would novelty be expected, if yes what kind of novelty was observed
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
“fit” with CRP objectives	Observation of outliers
overall quality of publication (including additional criteria at evaluator discretion)	Brief narrative

When there are other outputs than published work – such as germplasm - systematic assessment of quality may be difficult and assessment of quality can be based on project reports, volume of output, extent of use/uptake and user perceptions.

¹ Scale of 4 (1=poor; 2=mediocre; 3=good; 4=excellent) or 6 (1=poor; 2=quite poor; 3=adequate; 4=quite good; 5=good; 6=excellent). Eventually evaluation findings should not have too many scales.

ANNEX H - TEMPLATE – project sample analysis

PROJECT NUMBER: (if applicable)
PROJECT TITLE:
FLAGSHIP PROJECT NUMBER:
TYPE OF PROJECT: RESEARCH <-> more downstream DEVELOPMENT ORIENTED – *please explain briefly*
LEAD: CIMMYT/IITA/other
Filled out by:
Date:
Documentation used for assessment:

RELEVANCE AND COHERENCE:

Alignment with MAIZE objectives

Project alignment means that project objectives and activities to achieve those objectives are clearly defined and match with those of the SI/FP

- Is the project presented as part of MAIZE CRP?
- To what extent is the project/activity aligned to the FP (or specific SI) objectives and MAIZE IDOs?
 - Very well
 - Moderately
 - Poorly

Comments:

Relevance of project

- Are the main target beneficiaries of the project clearly defined?
- Does the project reflect needs and priorities of target group?
- Does the project address globally/regionally important issues where CGIAR has comparative advantage?

SCIENCE QUALITY

- Is the research addressing researchable issues?
- Are research hypothesis clearly formulated and testable?
- Does the project use state of the art methodology?
- To what extent do the choices of research topics and research designs reflect a high quality of scientific thinking, state-of-the-art knowledge of the scientific literature and complements research done elsewhere?
- To what extent does the research reflect an iterative process between downstream and upstream research? Has feedback from downstream work been incorporated in research design?

LIKELY EFFECTIVENESS:

- Is there an impact pathway described and is it realistic?
- How has progress been in terms of research results and outputs?
- Are limitations and delays explained?
- How does the project design address the scaling-up and out of research outputs?
- Does the project include an implementation modality (partnerships, management) which reflects an appropriate role for CIMMYT/IITA?
- What has been the main success so far? (*MENTION ONE MAJOR ACHIEVEMENT*)
Assess its significance.
- Are constraints to research outputs as well as uptake/impact and challenges mentioned and addressed?
- Is the reference to when impact (adoption) is expected and in what scale? How likely do you see this realizing?

PARTNERSHIPS

- What types of partners are included in the project?
 - Are the partners' roles clearly defined?
 - How is the work divided between CIMMYT/IITA and the partners?
 - To what extent are these partners relevant and likely effective in relation to the project's objectives and design -- at the project's conceptual stage?
- High
 - Substantial
 - Modest
 - Low
 - Not mentioned

GENDER

- Does the project/research strategy address gender specific issues?
- Does the project report on gender disaggregated results?
- From the point of view of achieving the objectives of the project, has there been an under-emphasis, appropriate emphasis, or over-emphasis on gender analysis and gender-specific research in terms of achieving the Flagship IDO?
 - Under-emphasis
 - Appropriate emphasis
 - Over-emphasis
 - Not mentioned

CAPACITY DEVELOPMENT

- Are there any capacity building measures mentioned and who do they target?
- What capacity building activities have been implemented?
- From the point of view of achieving the objectives of the project, has there been an under-emphasis, appropriate emphasis, or over-emphasis on capacity development in terms of achieving the Flagship IDO?
 - Under-emphasis
 - Appropriate emphasis
 - Over-emphasis
 - Not mentioned

CONCLUSION/OBSERVATIONS

please briefly explain any qualifiers to the above questions (issues that could not be reflected) as well as briefly state the main strengths as well as issues relating to this project