



Evaluation of the CGIAR Research Program on Wheat

*Volume 2 – Annexes
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Independent
Evaluation
Arrangement

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ANNEX A. - Evaluation Team Members – Short Bios

Wallace (Wally) Beversdorf - Evaluation Team Leader. Since 2005 Wally has been an independent consultant, involved in several reviews of research, including CSIRO Flagship program reviews and 2007 mid-term review of the Generation Challenge Program. Before 2005 he worked over 10 years in the private seed sector, including positions as Head of Novartis world-wide R&D, Head of Syngenta Plant Science and Vice President for Syngenta Biotechnology. He has also worked in the academia, holding positions at the Guelph University. He has a PhD in plant breeding and genetics.

Sylvie Brouder - Evaluation Team Member. Since 2005 Sylvie has served as Professor of Agronomy at Purdue University where she has been working for nearly 20 years. She is also Director of the Purdue University Water Quality Field Station. Her research interests include crop nutrient use efficiency, agroecosystem viability and sustainability and ecophysiology linked to abiotic stress tolerance. Through her teaching, outreach and consultancy activities she has been involved in international agricultural research and science agenda development. She has PhD in ecology.

Deborah (Debbie) Templeton - Evaluation Team Member. Until September 2013 Debbie worked for ACIAR for over 10 years primarily managing the Impact Assessment program. Between ACIAR employment, Debbie also worked for 3 years as social scientist (impact assessment specialist) at IRRI. She has experience in capacity building in research evaluation and impact assessment and in managing and conducting impact assessments. She has PhD in economics.

Rasheed Sulaiman - Evaluation Team Member. Rasheed is the Director of the Centre for Research on Innovation and Science Policy in India (since 2006). Prior to that, he worked as senior scientist at the National Centre for Agricultural Economics and Policy Research at ICAR. He has expertise in agricultural extension systems and policy, and agricultural innovation system. His research also covers the role of private sector and public-private partnerships, developing new approaches to reaching rural women and evaluation of ICTs in agriculture. He has a PhD in agricultural extension.

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.

ANNEX B. - Country visits

Date	Country	Team members		Main schedule
21-24 Sep	Turkey	WB, DT	Ankara	visit CIMMYT/ICARDA office Visit research institutes
			Izmir	Visit Regional Cereal Rust Research Center in the Aegean Agricultural Research Institute
24-26 Sep	Lebanon	WB, DT	Beirut	Terbol, AREC, Kfardan LARI ICARDA offices in Beirut
26 Sep – 1 Oct	Ethiopia	WB, DT	Addis Ababa	Meeting with ICARDA & CIMMYT staff and presentation on Collaborative Activities with Ethiopian NARS
		WB, DT	Debre Zeit	Debre Zeit ARC, Green house, single race & international nurseries, breeding activities, seed producers & farmers seed producers, on farm trials and Gonde seed farm
		WB, DT	Asella	KARC, irrigation facility, international and single race nurseries, seed labs, Breeding and Seed Activities
		WB, DT	Addis Ababa	EIAR Quality Lab and Meeting with EIAR management
1-4 Oct	Morocco	WB, DT	Casablanca	INRA campus (greenhouse, biotech of INRA, quality lab and future building of ICARDA) Meeting with ICARDA staff Bread wheat presentation, Durum wheat presentation

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Date	Country	Team members		Main schedule
			Marchouch	Marchouch station (all wheat personnel attending)
			Annoceur	Annoceur station, visit of durum off-season. Focus on RWA screening.
			Gigu	Arrival to farmers communities in Gigu together with professor Boulif (ENA Meknes), presentation of farmers school (ICARDA's contribution) and of IFAD activities on-farm in Meknes area, visit of the farm and lunch with farmers
8—13 Nov	Bangladesh	RS	WRC Dinajpur	meet with WRC Scientists and DAE (Department of Agricultural Extension) and BADC (Bangladesh Agriculture Development Corporation)
		RS	Rangpur	Discuss with CSISA-CIMMYT, SRFSI staff and OFRD/BARI Scientists NGO partners (RDRS, etc.)
		RS	Dhaka	Discuss with BARI authorities/Seed Certification Agency
14-17 Nov	India	RS SB	Arra and Patna	Zero tillage wheat sowing, interaction with service providers, farmers , KVK and other partners
		RS SB	Samatipur, Pusa	Visit fields with bed planting, zero tillage intercropping of maize and interaction with women farmers in Bandra Visit to BISA farm-Pusa Interaction with Head, IARI Research Station of RAU officials Interaction with ICAR and other partners in ICAR complex-Patna

ANNEX C. - List of people met

SURNAME, Name	Position	Organization	Country visit
Abeyo, Bekele	Wheat Breeder, Global Wheat Program	CIMMYT	Ethiopia
Abinasa, Mohammed	Wheat Breeder	ICARDA	Ethiopia
Adhikari, Mani Krishna	ADO	CIMMYT	Bangladesh
Afram, Michel Antoine	President – Director General	Lebanese Agricultural Research Institute	Lebanon
Aliy, Sheriff	Research Extension Specialist – Technology Promotion Debre Zeit Agricultural Research Center	EIAR	Ethiopia
Amil, Rola	PhD Student	ICARDA	Lebanon
Amri, Ahmed	Head, Genetic Resources Section	ICARDA	Morocco
Andaloussi, Abbad	Head , Plant Protection Department	INRA	Morocco
Asaad, Siham	Head, ICARDA's Seed Health Laboratories	ICARDA	Lebanon
Atilaw, Abebe	Director, Technology Multiplication Directorate and Coordinator, Deployment of Rust Resistant Wheat Varieties in Ethiopia	EIAR	Ethiopia
Austin, Nick	Chief Executive Officer of ACIAR, Pacific Countries representative on the CGIAR Fund Council	ACIAR	Australia
Badstue, Lone	Gender Specialist, SEP	CIMMYT	Mexico
Bakshi, Elahi	Applied Ag Economist	CIMMYT	Bangladesh
Bandyopadhyay, Ranajit	Pathologist	ICARDA	Mexico
Bänziger, Marianne	Deputy Director General Research & Partnership	CIMMYT	Mexico

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SURNAME, Name	Position	Organization	Country visit
Barma, Naresh Ch Deb	Chief Scientific Officer	BARI, Gazipur	Bangladesh
Bassi, Fillipo	Durum Wheat Breeder	ICARDA	Morocco
Baum, Michael	Director - BIGMP	CIMMYT	Mexico
Bennani, Sahar		INRA	Morocco
Bhatt, B. P	Director	ICAR Research Complex for Eastern Region	India
Bishaw, Zewdie	Head, Seed Section	ICARDA	Ethiopia
Bodruzzaman, Md	Principal Scientific Officer (Soils)	Wheat Research Center, Dinakpur	Bangladesh
Braun, Hans	Program Director Global Wheat Program	CIMMYT	Mexico
Briones, Ernesto	Senior Systems Developer	IITA	Mexico
Chand, Ramesh	Professor-cum-Plant Pathologist	Banaras Hindu University	Obrégon
Chanyalew, Solomon	Center Director, Debre Zeit Agricultural Research Center	EIAR	Ethiopia
Chatrath, R	Principal Scientist	Directorate of Wheat Research (DWR), Karnal, ICAR	India
Chikoye, David	R4D Director, IITA-Southern Africa	IITA	Mexico
Chowdhury, S.	Consultant	Borlaug Institute for South Asia	India

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SURNAME, Name	Position	Organization	Country visit
Coffman, Ronnie	Principal Investigator, Durable Rust Resistance Prog	Cornell University	Obrégón
Dababat, Amer	Plant Pathologist and Nematologist Global Wheat Program	CIMMYT	Turkey
Datta, Swapan K	Deputy Director General (Crop Science)	Indian Council of Ag Research	Obrégón
De la O Elizagaray, Marisa	Manager, Risk Management & International Policy	CIMMYT	Mexico
Debele, Tolessa	SARD-SC Coordinator for ESA	ICARDA	Ethiopia
Degite, Gemechu	Chair	Ethiopian Seed Enterprise (ESE) Gonde-Iteya Basic Seed Farm	Ethiopia
Dessalegn, Tadesse	Technical Coordinator, East African Agricultural Productivity Project Wheat Regional Center of Excellence Kulumsa Agricultural Research Center	EIAR	Ethiopia
Dixon, John	Principal Adviser Research and Cropping Systems and Economics (CSE) program manager.	ACIAR	Australia
Duveiller, Etienne	Director of Research for South Asia	CIMMYT	Obrégón
Dwivedi, P K	Programme Coordinator	Krishi Vigyan Kendra, Buxar	India
El Bouhssini, Mustapha	Entomologist	ICARDA	Morocco
El Hassouni , Khaoula	sponsored by GRDC		Morocco
Erenstein, Olaf	Program Director, Socioeconomics Program	CIMMYT	Mexico
Figueroa, Pedro	Plant Pthologise in National Wheat Program	INIFAP	Obrégón
Firke, Asnake	Director, Crop Research	EIAR	Ethiopia
Fisher, Tony	Honorary Research Fellow at CSIRO, Member of WHEAT Stakeholder Committee	CSIRO	Australia

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SURNAME, Name	Position	Organization	Country visit
Freymond, Jean	Secretary	SASAKAWA Africa Association	Obrégón
Fulss, Richard	Head, Knowledge Management	CIMMYT	Mexico
Gathala, Mahesh	Cropping System Agronomist, Leader SRFSI	CIMMYT	Bangladesh
Gérard, Bruno	Program Director, Global Conservation Agriculture	CIMMYT	Mexico
Ghosh, Anup Kumar	Senior Agricultural officer	Resilient Farming Systems Intensification (SRFSI) Project, RDRS	Bangladesh
Girma, Bedada	Durable Rust Resistant Program, Kulumsa Agricultural Research Center	EIAR	Ethiopia
Govaerts, Bram	Associate Director, Global Conservation Agriculture	CIMMYT	Mexico (Texcoco and Obrégón)
Guertin, Michelle	Senior Monitoring, Evaluation & Learning Specialist	CIMMYT	Skype
Gupta, Pryianka	sponsored Borlaug Scholarship	Individual	Morocco
Gupta, R K	Principal Scientist	Directorate of Wheat Research (DWR), Karnal, ICAR	India
Gutterson, Neal	President, CEO	Mendel Biotechnology	Obrégón
Haddad, Nicolas	Manager, Agricultural Research and Education Center (AREC)	American University of Beirut	Lebanon
Hannan, Abdul	Deputy Director	Department of Agricultural Extension	Bangladesh
Haque, Anarul	Extension Agronomist, CSISA, Hub Manager, Rangpur	CIMMYT	Bangladesh
Harris, Abdul	Principal Scientists Agronomy	ICAR Research Complex for Eastern Region	India

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SURNAME, Name	Position	Organization	Country visit
Hassen, Haloma	Consultant in small ruminant research	ICARDA	Morocco
Hearne, Sara	Senior Scientist, Maize Molecular Geneticist/Pre-breeder	CIMMYT	Mexico
Herremans, Anna	(former) Director, International Finance	CIMMYT	Mexico
Hassan, Selima	Sr Scientific Officer	BARI, On Farm Research Division, Rangpur	Bangladesh
Hobbs, Huntington	Leader, Strategic Planning and Research Coordination, MasAgro	CIMMYT	Mexico
Hodson, David	GIS and Decision Support Systems SEP	CIMMYT	Ethiopia
Homma, Shitaye	Durum Wheat Breeder, Debre Zeit Agricultural Research Center	EIAR	Ethiopia
Hossain, Akbar	Senior Agronomist	Wheat Research Center, Dinakpur	Bangladesh
Hossain, Mofazzul	Deputy Director Seed Marketing	Bangladesh Agricultural Development Corporation	Bangladesh
Hossain, Monwar	Scientific Officer (Plant Breeding)	Wheat Research Center, Dinakpur	Bangladesh
Hossain, Zakir	Scientific Officer (Agricultural Engineer)	Wheat Research Center, Dinakpur	Bangladesh
Hundie, Bekele	Plant Pathologist, Kulumsa Agricultural Research Center	EIAR	Ethiopia
Huttner, Eric	Research Program Manager, Crop Improvement & Management	ACIAR	Obrégon and Australia
Idris, Mohammad	Principal Scientist (Entomology)	ICAR Research Complex for Eastern Region	India

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SURNAME, Name	Position	Organization	Country visit
Iraqi, Driss	Coordinator, Biotechnology Unit	INRA	Morocco
Jahan (Belal), Abu Hena Sorwar	Principal Scientific Officer	BARI, Gazipur	Bangladesh
Jakobi, Nina	WHEAT Program Assistant	CRP	Mexico
Jaleta, Moti	Agricultural Economist SEP	CIMMYT	Ethiopia
Jat, H S	Cropping Systems Agronomist, CSISA	Central Soil Salinity Research Institute	India
Jat, M L	Senior Cropping Systems Agronomist & CIMMYT-CCAFS South Asia Coordinator, CIMMYT	CIMMYT	India
Jat, Raj Kumar	Cropping Systems Agronomist	Borlaug Institute for South Asia	India
Kaan, Kathy	Program Manager	BMGF	Obrégón
Kan, Mustafa	Agricultural Economist, Department of Economy, Statistic and Extension	Bahri Dagdas International Agricultural Research Institute	Turkey
Karim, Rezaul	Upzilla Agricultural Officer	Department of Agricultural Extension	Bangladesh
Kassie, Grima T	Agricultural Economist, SEPRP	ICARDA	Morocco
Keil, Alwin	Senior Agricultural Economist	CIMMYT	India
Kemal, Seid Ahmad	Pathologist	ICARDA	Ethiopia
SURNAME, Name	Position	Organization	Country visit
Keser, Mesut	IWWIP, Coordinator for ICARDA	ICARDA	Turkey

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Kircalioğlu, Gün	Research Coordinator	Aegean Agricultural Research Institute	Turkey
Kiwan, Pierre	Assistant Researcher , Terbol Research Station	ICARDA	Lebanon
Kommerell, Victor	WHEAT Program Manager	CIMMYT	Mexico
Kumar, Mithilesh	Director of Research	Rajendra Agricultural University, Pusa, Samastipur	India
Kumar, Virender	Cropping Systems Agronomist	CIMMYT	India
Legesse, Wasihun	Wheat Breeder , Debre Zeit Agricultural Research Center	EIAR	Ethiopia
Listman, Michael G.	Senior Science Writer, Corporate Communications	CIMMYT	Mexico
Lopez Saavedra, Victor	Manager of Institutional Relations TTF-MasAgro	CIMMYT	Mexico
Lopez, Diana	Project Management Unit	CIMMYT	Mexico
Lumpkin, Thomas	DG	CIMMYT	Mexico
Machlab, Hassan	Country Manager/Lebanon	ICARDA	Lebanon
Malaker, Paritosh Kumar	Director	Wheat Research Center, Dinakpur	Bangladesh
Mallari, Sally	MAIZE Program Assistant	CIMMYT	Mexico
Mallik, R. S.	Senior Agronomist And Csis Objective 1 Leader	CIMMYT	India
Mamo, Beditu	Chair	Memher Agera Seed Multiplication and Marketing Cooperative	Ethiopia

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SURNAME, Name	Position	Organization	Country visit
Medina, Richard	Director, Internal Audit	CIMMYT	Mexico
Members of the Mahila Kisan Sakhi	CSISA - Bihar, Mahila Samaykhya, Muzaffarpur	n/a	India
Mendoza, Fernando P	Senior Internal Auditor	IITA	Mexico
Menkir, Abebe	Team leader for maize improvement research at IITA, Focal Point for CRP at IITA	IITA	Mexico
Mert, Zafer	Phytopathologist / Plant pathologist, Department of Crop Diseases and Resistance Breeding	The Central Research Institute for Field Crops (TARM), Ministry of Food, Agriculture and Livestock (MFAL)	Turkey
Mir, Patricia V	Risk Management Analyst	CIMMYT	Mexico
Mishra, Satya Prakash	Officer	VST Tillers Tractors Ltd	India
Mishra, V.K.	Professor, Dept. of Genetics and Plant Breeding	Banaras Hindu University	Obrégon
Mitiku, Demessie	Seed Agronomist, Supporting Seed Demonstration for Private Seed Growers	AMUARI High Yield Varieties and Agricultural Products PLC	Ethiopia
Mittal, Surabhi	Economist	CIMMYT	India
Miyamoto, Masaaki	Chief Executive Officer	SASAKAWA Africa Association	Obrégon
Momin, Abdul	Cropping Systems Agronomist, Manager-CSISA Jessore Hub	CIMMYT	Bangladesh
Nachit, Miloudi	Former Durum Wheat Breeder and now Consultant with focus on pre-breeding and on farm trials	ICARDA	Morocco
Nasserlehaq, Nsarellah	Durum Wheat Breeder	INRA	Morocco
Nawar, Fawzy	Senior documentation specialist, Genetic Resources Section	ICARDA	Morocco

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SURNAME, Name	Position	Organization	Country visit
Nazari, Kumarse	Plant Pathologist, Cereal Rust Regional Center	ICARDA	Turkey
Ortiz Monasterio, Ivan	Agronomist, Wheat Harvest Coordinator	CIMMYT	Mexico
Ozdemir, Fatih	Director, Bahri Dagdas International Agricultural Research Institute, IWWIP Coordinator for Turkey	BDIARI	Turkey
Ozkan, Isa	Head, Field Crops Research Department	MFAL	Turkey
Pandit, D B	Cropping Systems Agronomist, Manager-CSISA Mymensingh	CIMMYT	Bangladesh
Payne, Thomas S.	CIMMYT Board Secretary	CIMMYT	Mexico
Peksuslu, Ali	Director,	AEGEAN Agricultural Research Institute	Turkey
Pfeiffer, Wolfgang H	Deputy Director, Operations	HarvestPlus	Obrégon
Pixley, Kevin	Program Director, Genetic Resources Program	CIMMYT	Mexico
Powell, Wayne	Chief Science Officer	CGIAR	Obrégon
Rahman, Ataur	Specialist Conservation Agriculture	BARI, Gazipur	Bangladesh
Rajasekharan, Nellooli P.	Director, International Human Resources	CIMMYT	Mexico
Rashid, Mamunur	A&E Coordinator	Resilient Farming Systems Intensification (SRFSI) Project, RDRS	Bangladesh
Renard, Geneviève	MAIZE and WHEAT Communication Specialis	GCP	Mexico
Reynolds, Mathew	Head Wheat Physiology	CIMMYT	Obrégon
Reza, Mustafa Alir	Senior Scientific Officer, (Wheat Pathology)	Wheat Research Center, Dinakpur	Bangladesh

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SURNAME, Name	Position	Organization	Country visit
Ribaut, Jean-Marcel	Director, Generation Challenge Program	CIMMYT	Mexico
Riis-Jacobsen, Jens	Director of Int. Systems and Information Technology	CIMMYT	Mexico
Rodriguez, Horacio	MasAgro Extension Coordinator	CIMMYT	Mexico
Rorisa, Bejiqa	Cooperative Farmer	Guchi Habe Badosa Bread Wheat and Seed Multiplication and Value Chain Cooperative	Ethiopia
Rossi, Frederik	Agricultural Economist, Manager-CSISA Faridpur Hub	CIMMYT	Bangladesh
Rugema, Hilary	Coordinator, Crop Productivity Improvement	SASAKAWA Africa Association	Obrégon
Saidi, Seddik	Head, Plant Breeding Department	INRA	Morocco
Saint Pierre, Carolina	Scientist, Wheat Phenotyping Coordinator Seed	CIMMYT	Obrégon
Sanchez –Garcia, Miguel	Spring Wheat Breeder	ICARDA	Morocco
SanVicente, Felix	Breeding lead for the tropics in Mexico	CIMMYT	Mexico
Sarker, Abu Zaman	Princial Scientific Officer (Agronomy)	Wheat Research Center, Dinakpur	Bangladesh
Sayem, Abu	Regional Director	Agricultural Information Service (Ministry of Agriculture)	Bangladesh
Schulthess, Urs	Crop modeler, Global Conservation Agricultural program	CIMMYT	Mexico
Sefera, Tadessa	Center Director, Kulumsa Agricultural Research Center	EIAR	Ethiopia
Segovia, Vanessa	Post Doctorial Fellow	ICARDA	Turkey
Senthil, R.	Principal Scientist	Directorate of Wheat Research (DWR), Karnal, ICAR	India

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SURNAME, Name	Position	Organization	Country visit
Shahjahan, Md	Cropping Systems Agronomist, , Manager-CSISA Khulna Hub	CIMMYT	Bangladesh
Sharma, Indu	Director and Member, Wheat Management Committee (CRP-Wheat)	Directorate of Wheat Research (DWR), Karnal, ICAR	India
Sharma, P C	Head, Crop Improvement	Central Soil Salinity Research Institute	India
Sharma, R K	Principal Scientist	Directorate of Wheat Research (DWR), Karnal, ICAR	India
Short, Thomas W.	DDG Support Services	CIMMYT	Mexico
Silim, Said Nahdy	Country Manager ICARDA Ethiopia and Coordinator Sub-Saharan Africa Regional Program	ICARDA	Ethiopia
Sim, Graham	Director, International Finance	CIMMYT	Mexico
Singh, Ravi P	Head, Bread Wheat Improvement & Rust Res	CIMMYT	Obrégon
Singh, Satyavir	Principal Scientist	Directorate of Wheat Research (DWR), Karnal, ICAR	India
Sohail, Quahir	Spring Wheat Breeder	ICARDA	Morocco
Solanki, I S	Head	Indian Agricultural Research Institute	India
Solh, Mahmoud	DG	ICARDA	Lebanon
Souihka, Allah	Manager, Marchouch Station	ICARDA	Morocco
Sugandhi, ?	Gender Coordinator, CSISA	CIMMYT	India
Tadessa, Zerihun	National Coordinator, Wheat Program	EIAR	Ethiopia
Tadesse, Wuletaw	Bread Wheat Breeder	ICARDA	Morocco
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Tafesse, Mekasha	Driver and Logistical Assistant	ICARDA	Ethiopia
Tanwir, Niayer	Secretary	Creation Welfacer Society	India
Tawkaz, Sawsan	Head, ICARDA's Double Haploid Laboratory	ICARDA	Lebanon
Teklu, Kifle	Participating Farmer	Memher Agera Seed Multiplication and Marketing Cooperative	Ethiopia
Tesfaye, Bezabih	Seed Specialist	AMUARI High Yield Varieties and Agricultural Products PLC	Ethiopia
Tessema, Alemu	Chair	Denkaka Megertu Cooperative	Ethiopia
Thornton, Matthew	Hub Coordinator	CIMMYT	Mexico
Tiwari, Ratan	Principal Scientist	Directorate of Wheat Research (DWR), Karnal, ICAR	India
Tiwari, T. P.	Cropping System Agronomist & Country Representative	CIMMYT	Bangladesh
Tovar Mondragon, Jose Ramiro	Manager, Financial Planning	CIMMYT	Mexico
Trachsel, Sam	Scientist, Global Maize Program	CIMMYT	Mexico
Tsivelikas, Athanasios	Genebank Manager	ICARDA	Morocco
Uddin, Mohdi	Cropping System Agronomist, Manager-CSISA Faridpur Hub	CIMMYT	Bangladesh
Udupa, Sripada	Senior Scientist, Biotechnology,	ICARDA	Morocco
van Ginkel, Maarten	DDGR	ICARDA	Lebanon
Wakjira, Adunga	Deputy Director General	EIAR	Ethiopia

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SURNAME, Name	Position	Organization	Country visit
Ward, Rick	Principal Scientist, Global Wheat Program	CIMMYT	Obrégon
Watson, David	MAIZE Program Manager	CIMMYT	Mexico
Willcox, Martha	Senior Scientist working with the Seeds Discovery (SeeD) project	CIMMYT	Mexico
Worku, Zewuditu	Woman Farmer	n/a	Ethiopia
Yai, Kebede	Cooperative Farmer	Guchi Habe Badosa Bread Wheat and Seed Multiplication and Value Chain Cooperative	Ethiopia
Yasmin, Samina	Cropping Systems Agronomist, Manager-CSISA Barisal Hub	CIMMYT	Bangladesh
Yazbek, Mariana	Post Doc Fellow, Genetic Resources	ICARDA	Lebanon
Zaim, Meryem	sponsored by GRDC	n/a	Morocco
Zehr, Usha Barwale	Chief Technology Officer, Maharashtra Hybrid Seeds Co. Ltd.	MAHYCO	Obrégon

ANNEX D. - List of sample projects

A total of 40 projects were selected from the project database. These included the 10 largest projects (according to the budget allocated to WHEAT) as well as 30 projects which were randomly selected by Flagship. Projects had to be replaced from the initial selection and some projects ultimately could not be reviewed because information was found insufficient or was only available in Spanish, or treated as confidential. The evaluation team looked at a total of 34 projects listed below:

No	Title	FP	Lead
A4031.09.19	Accelerating adoption of yellow rust resistance winter varieties in Central Asia	4	Other
A4031.09.24	The Potential for Wheat Production in Sub-Saharan Africa: Analysis of Biophysical Suitability and Economic Profitability	1	CIMMYT
A4031.0918	Enhanced quality and healthy seed testing system for International Winter Wheat Improvement Program (IWWIP)	3	Other
B 1198	Enhancing cotton germplasm, improving resistance to cotton leaf curl virus and supporting cotton best management practices for small farmers.	4	ICARDA
B1146	Joint ICARDA-ARC Wheat Improvement Program	2	ICARDA
B1202	Pakistan Wheat production enhancement	3+4+5	ICARDA
B1202	Pakistan Wheat Production Enhancement Initiative	2+3+5	ICARDA
B1287	Support to Agricultural Research for Development of Strategic Crops in Africa (SARD-SC)'	5	ICARDA
B1313	Wheat Productivity Improvement towards Food Self-sufficiency	5	ICARDA
B1355 and 1356	Mobilizing Novel Genes from Wheat	2	CIMMYT/ICARDA
C0035	Cereal Systems Initiative for South Asia (CSISA)-Phase II	4	CIMMYT

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No	Title	FP	Lead
C0037	Cereal Systems Initiative for South Asia (CSISA)-India	4	CIMMYT
C0040	MASAGRO-Desarrollo sustentable con el agricultor	4	CIMMYT
C0064	Africa Rising: Research in Sustainable Intensification for the next generation	4	CIMMYT
n/a	Wheat Addressing the challenge of climate change for sustainable food security in Turkey, Iran, Pakistan, Uzbekistan, Morocco and Spain through the exploitation of wheat Genetic Resources, adoption of resilient improved varieties on farmers fields and their socio-economic impact.	2	CIMMYT
R0148	MASAGRO-Descubriendo la diversidad genética de las semillas	4	CIMMYT
T0083	Expansion of the Cereal Systems Initiative for South Asia (CSISA) in Bangladesh	4	CIMMYT
W 0286	Development of Heat Tolerant Wheat for South Asia	3	CIMMYT
W0101	Desarrollo de nuevas variedades de trigo duro, trigo harinero y triticales a partir de germoplasma procedente del CIMMYT-Phase III	3	CIMMYT
W0204	Identification and utilization of novel sources of resistance against soil borne pathogens in wheat (CIM00014)	3	CIMMYT
W0205	Enhanced Delivery of CIMMYT Germplasm to Australia	3	CIMMYT
W0212	Development of Cereal Germplasm and the Screening for Disease Resistance and End-Use Quality: CIMMYT - Triticale Improvement Component	3	CIMMYT
W0235	Identifying new genetic sources and evaluating United States wheat germplasm for resistance to stem rust in Eastern Africa (25856)	3	CIMMYT
W0239	Pakistan Wheat production enhancement	3+4+5	CIMMYT

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No	Title	FP	Lead
W0250	Durable Rust Resistance in Wheat (Phase II	3	CIMMYT
W0252	Genetics and Physiology of Wheat Development to Flowering: Tool to breed for improved adaptation and yield potential:	2	CIMMYT
W0265	Sustainable Wheat & Maize Production in Afghanistan (5	CIMMYT
W0266	Agricultural Innovation Programme	4	CIMMYT
W0269	KAI-Agricultural Technologies in Kazakhstan	3	CIMMYT
W0273	Joint Development of Korean Winter Bread Wheat Lines with heat tolerance and high protein	n/a	CIMMYT
W0276	Russia-Omsk Institute	3	CIMMYT
W0281	Field evaluation of Genetically Modified Wheat	2	CIMMYT
W0289	Rapid Development of Climate Resilient Wheat Varieties for South Asia using Genomic Selection	2+3	CIMMYT
W1/2 activity	Socioeconomics & policies for wheat futures,	1	CIMMYT

ANNEX E. - Assessment of publications

Selection of individual publications for assessment

The team intended to assess 37 publications in total. The publications were categorized according to the Center that issued them (CIMMYT and ICARDA) 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

				SAMPLE		ACTUAL	
	CIMMYT	ICARDA	TOTAL	CIMMYT	ICARDA	CIMMYT	ICARDA
Agronomy	85%	15%	10	9	1	6	1
Socio-economics	71%	29%	6	4	2	5	2
Breeding	75%	25%	21	17	4	19	3
Number of Publications				30	7	30	6

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. Some of the publications were re-classified (especially some of the agronomy publications which related more to breeding). One publications by

Wheat Evaluation

ICARDA was not assessed, as it could not be accessed (Genome-wide association mapping for five major pest resistances in wheat, Molecular Breed).

The total of 36 publications assessed by the evaluation team are shown in the table below.

Team member	YEAR	Title	JOURNAL	CENTER	Type
SB	2012	Achieving yield gains in wheat	Plant, Cell & Environment (5.14 in 2012, year of publication)	CIMMYT	Breeding
DT	2012	Agricultural Extension, Collective Action and Innovation Systems: Lessons on Network Brokering from Peru and Mexico	The Journal of Agricultural Education and Extension	CIMMYT	Socio econ
RS	2012	Analysis of genotypic variation for NDVI (normalized difference vegetation index) and its relationship with grain yield in winter wheat under terminal heat stress	Plant Breeding 131(2012)	ICARDA	Breeding
WB	2012	Analysis of leaf and stripe rust severities reveals pathotype changes and multiple minor QTLs associated with resistance in an Avocet × Pastor wheat population	TAG 2012	CIMMYT	Breeding
RS	2012	Breeding progress for yield in winter wheat genotypes targeted to irrigated environments of the CWANA region	Euphytica (2013)	ICARDA	Breeding
RS	2012	Conservation Agriculture in Maize- and Wheat-Based Systems in the (Sub)tropics: Lessons from Adaptation Initiatives in South Asia, Mexico, and Southern Africa	Journal of Sustainable Agriculture (2012)	CIMMYT	Socio econ
RS	2012	Conservation agriculture, increased organic carbon in the top-soil macro-aggregates and reduced soil CO ₂ emissions	Plant Soil (2012)	CIMMYT	Agronomy
DT	2012	Food sovereignty or the human right to adequate food: which concept serves better as international development policy for global hunger and poverty reduction?	Agric Hum Values (2012)	CIMMYT	Socio econ

Wheat Evaluation

Team member	YEAR	Title	JOURNAL	CENTER	Type
WB	2012	From genotype × environment interaction to gene × environment interaction by Crossa, J Current Genomics	Current Genomics 2012	CIMMYT	Breeding
RS	2012	Genetic structures of the CIMMYT international yield trial targeted to irrigated environments	Mol Breeding	CIMMYT	Breeding
WB	2012	Genetic yield gains and changes in associated traits of CIMMYT spring bread wheat in a "Historic" set representing 30 years of Breeding	Crop Science, 2012	CIMMYT	Breeding
WB	2012	Genetic yield gains of the CIMMYT International semi-arid wheat yield	Crop Science (2012)	CIMMYT	Breeding
SB	2012	Global Crop Improvement Networks to Bridge Technology Gaps	J. of Exp. Botany (5.242 for 2012 – year of publication)	CIMMYT	Agronomy
RS	2012	Global incidence of wheat rusts and powdery mildew during 1969-2010 and durability of resistance of winter wheat variety Bezostaya 1	Eur J Plant Pathol		Breeding
WB	2012	Lr68: A new gene conferring slow rusting resistance to leaf rust in wheat	Theoretical and Applied Genetics	CIMMYT	Breeding
WB	2012	Multi-trait and multi-environment QTL analyses for resistance to wheat diseases	Open Access PLOS-One (2012)	CIMMYT	Breeding
DT	2012	Performance of biofortified spring wheat genotypes in target environments for grain zinc and iron concentrations	Field Crops Research 137 (2012)	CIMMYT	Breeding
WB	2012	Phenotyping transgenic wheat for drought resistance (2012)	Journal of Experimental Botany	CIMMYT	Breeding
SB	2012	Physiological Traits for Improving Heat Tolerance in Wheat	Plant Physiology (6.56 in year of publication, 2012)	CIMMYT	Breeding

Wheat Evaluation

Team member	YEAR	Title	JOURNAL	CENTER	Type
SB	2012	Quantifying how winter wheat crops accumulate and use nitrogen reserves during growth	Field Crops Research (2.47 in year of publication, 2012)	CIMMYT	Agronomy
SB	2012	Stay-green in spring wheat can be determined by spectral reflectance measurements (normalized difference vegetation index) independently from phenology	J. of Experimental Botany (5.242 for 2012 – year of publication)	CIMMYT	Breeding
DT	2012	The Production Functions of Wheat Production in Turkey	Bulgarian Journal of Agricultural Science, 18 (No 2) 2012	ICARDA	Socio econ
SB	2012	The yield correlations of selectable physiological traits in populations of advanced spring wheat lines grown in warm and drought environments	Field Crops Research;	CIMMYT	Breeding
WB	2012	Virulence of <i>Beauveria bassiana</i> against Sunn pest, <i>Eurygaster integriceps</i> Puton (Hemiptera: Scutelleridae) at different time periods of application	Journal of Entomology and Nematology (2012)	ICARDA	Agronomy
RS	2013	Assessing the impacts of GAFTA on selected members' bilateral agricultural trade: an application of the Gravity Model.	Am-Euras. J. Agric. & Environ. Science (2013)	ICARDA	Socio econ
DT	2013	Crops that feed the world 10. Past successes and future challenges to the role played by wheat in global food security	Food Sec. (2013)	CIMMYT	Socio econ
RS	2013	Earliness in wheat: A key to adaptation under terminal and continual high temperature stress in South Asia	Field Crops Research (2013)	CIMMYT	Agronomy
WB	2013	Genetic analysis of adult plant resistance to yellow rust and leaf rust in common spring wheat	Plant Disease (2013)	CIMMYT	Breeding

Wheat Evaluation

Team member	YEAR	Title	JOURNAL	CENTER	Type
SB	2013	Historical changes in grain yield and quality of spring wheat varieties cultivated in Siberia from 1900 to 2010	Canadian Journal of Plant Science	CIMMYT	Breeding
SB	2013	Identification and characterization of international Fusarium head blight screening nurseries of wheat at CIMMYT, Mexico	J. Plant Pathology (1.71 in 2013, year of publication)	CIMMYT	Breeding
RS	2013	Meta: A suite of sas programs to analyze multienvironment Breed trials	Agronomy Journal Volume 105, Issue 1, 2013	CIMMYT	Agronomy
SB	2013	Mineral nitrogen dynamics in irrigated rice-wheat system under different irrigation and establishment methods and residue levels in arid drylands of Central Asia	European Journal of Agronomy (2.92)	CIMMYT	Agronomy
WB	2013	QTL mapping of slow-rusting, adult plant resistance to race Ug99 of stem rust fungus in PBW343/Muu RIL population	TAG 2013	CIMMYT	Breeding
WB	2014	Association Mapping of Resistance to Yellow Rust in Winter Wheat Cultivars and Elite Genotypes	Crop Science (2014)	ICARDA	Breeding
DT	2014	From adoption claims to understanding farmers and contexts: A literature review of Conservation Agriculture (CA) adoption among smallholder farmers in southern Africa	Agriculture, Ecosystems and Environment 187 (2014) 116–132	CIMMYT	Socio econ
DT	2014	Meeting demands for increased cereal production in China	Journal of Cereal Science 59 (2014) 235e244	CIMMYT	Breeding

ANNEX F. - WHEAT researcher survey

Sent out: 13 Nov 2014

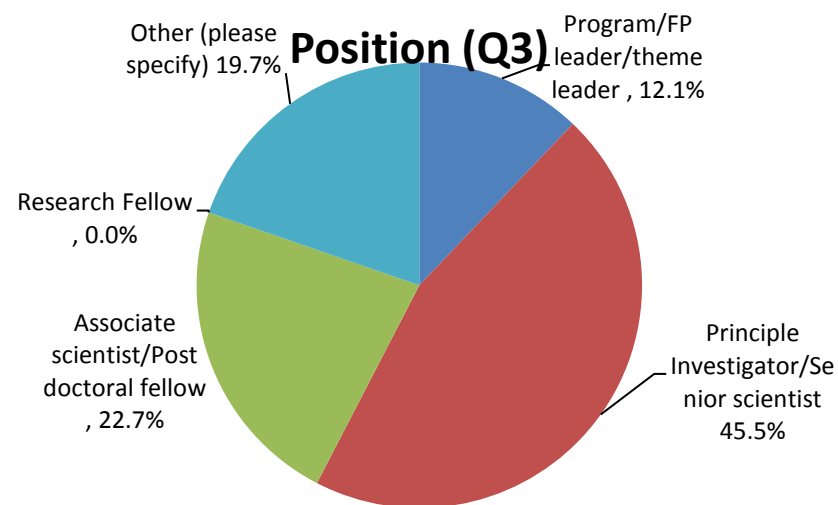
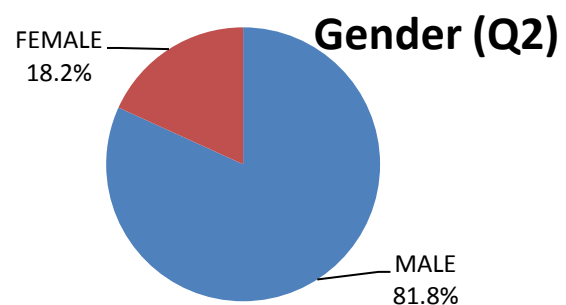
Reminder sent by CIMMYT: 2 Dec 2014

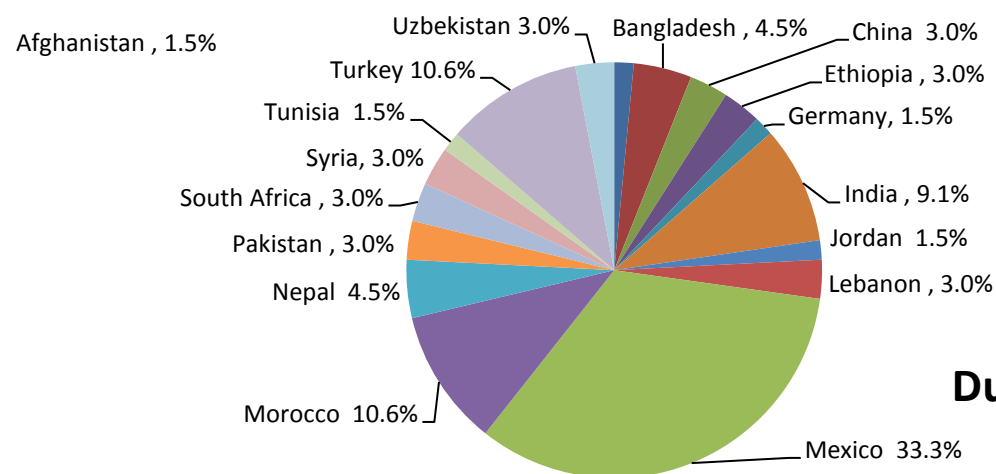
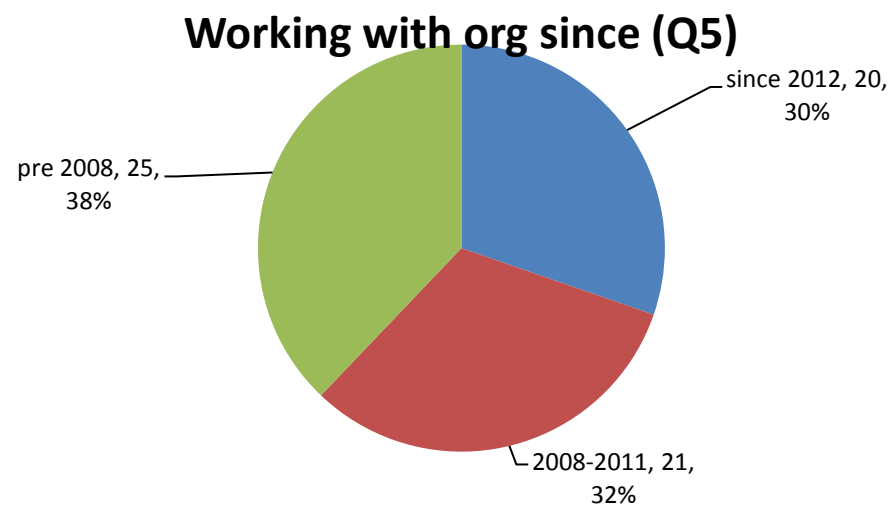
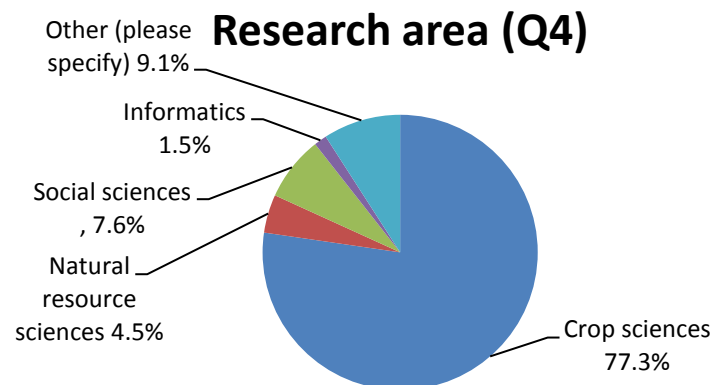
Closed: 11 Dec 2014

	Total	CIMMYT	ICARDA	Other (competitive partner grants)
Survey sent to	109	58	32	19
Responses	66	43	15	9
Response rate	61%	74%	47%	47%
Complete Responses	43	28	9	6
Completed response rate	39%	48%	28%	32%

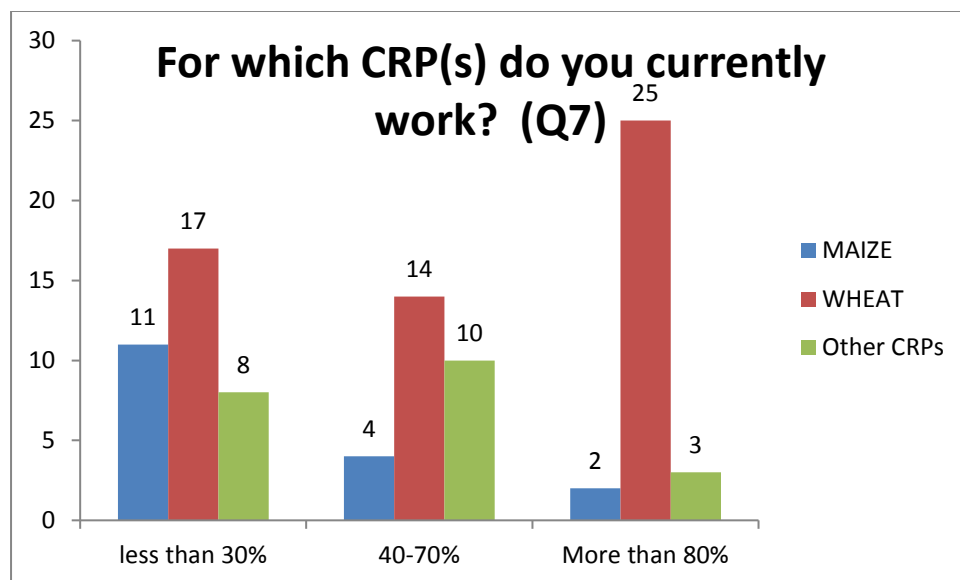
Wheat Evaluation

Survey population

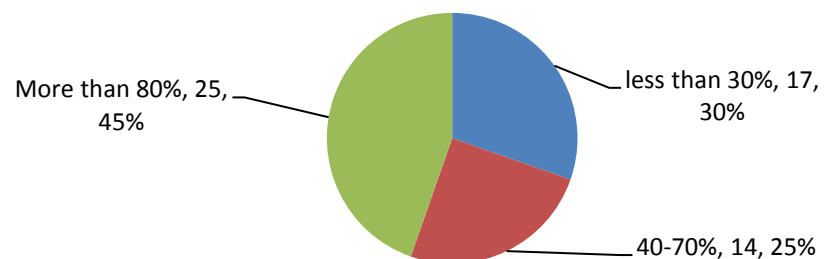




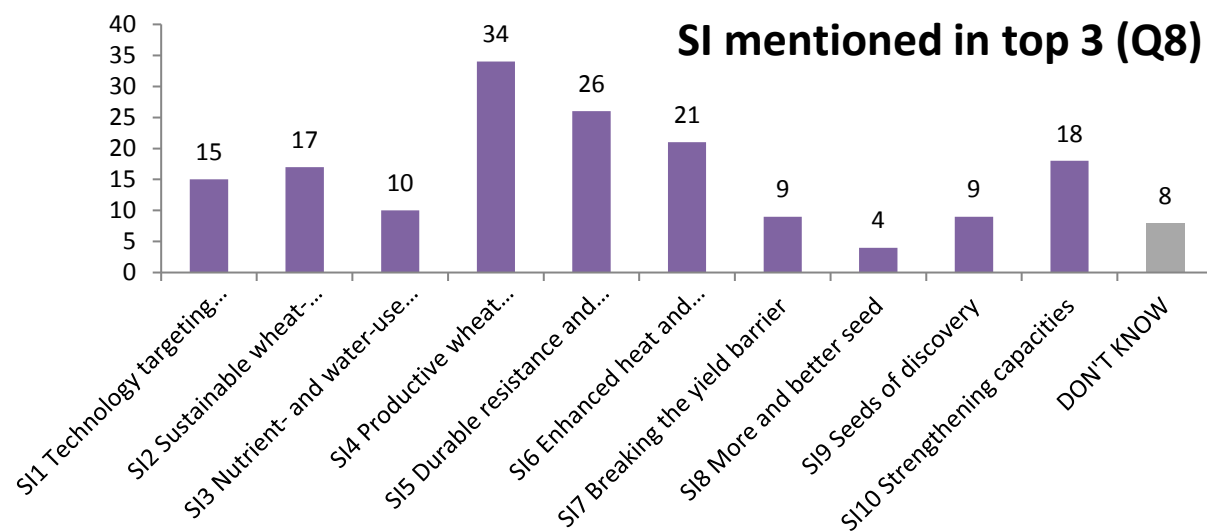
CRP engagement

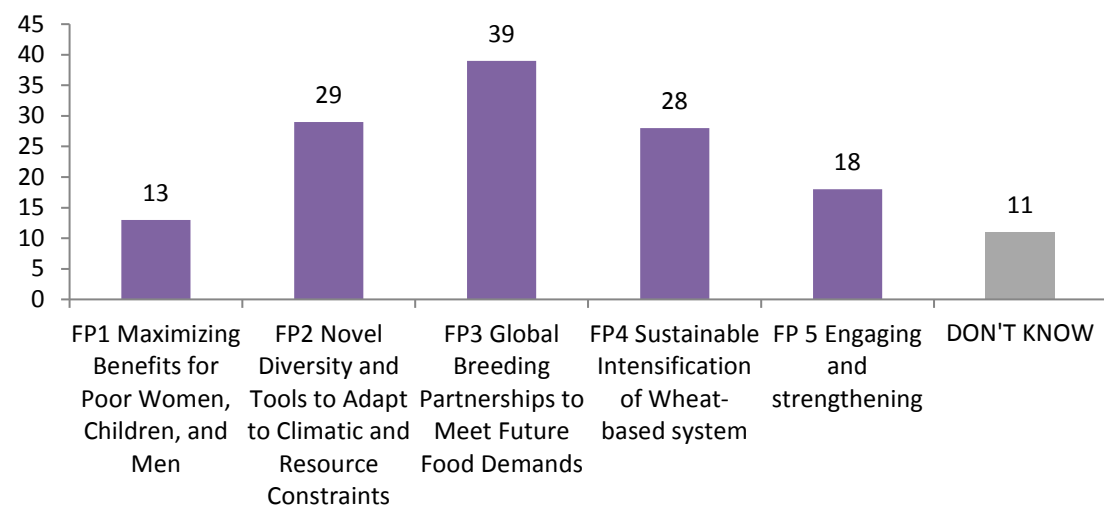


Working for WHEAT..... (Q7)

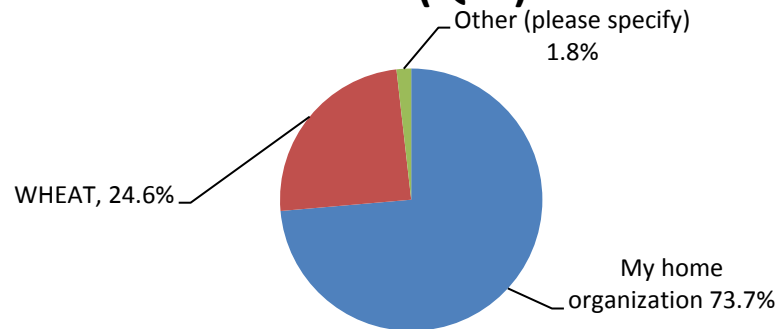


SI mentioned in top 3 (Q8)

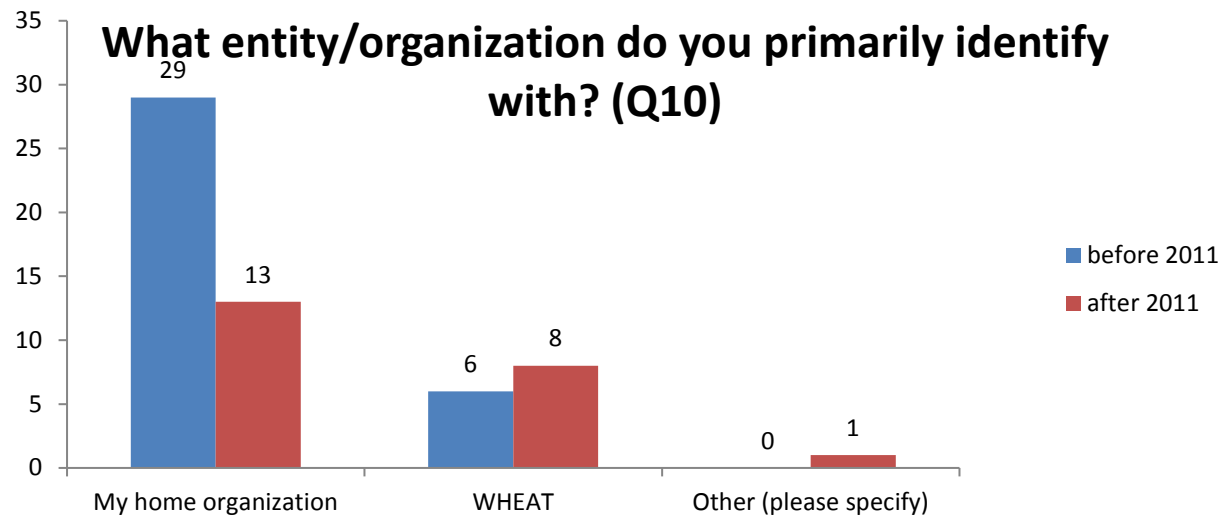


FP mentioned in top 3 (Q8)

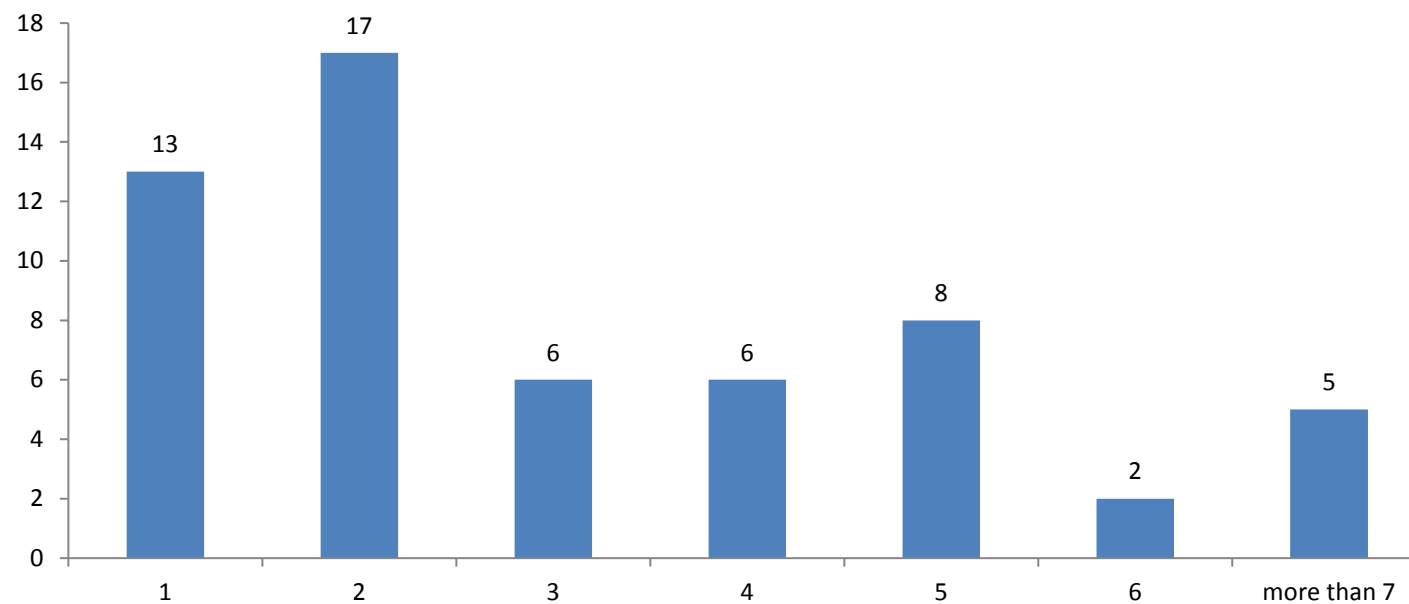
What entity/organization do you primarily identify with? (Q10)

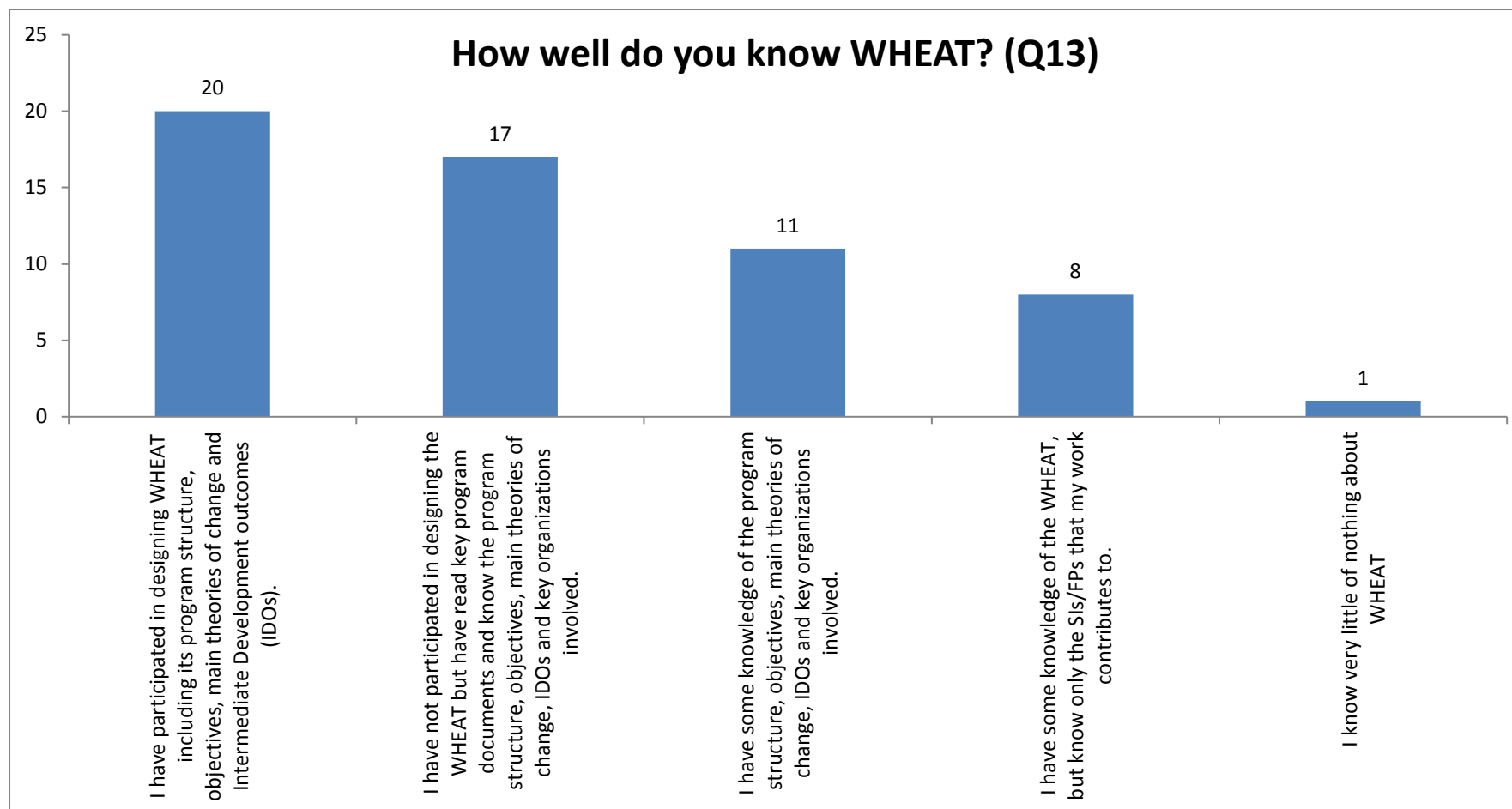


What entity/organization do you primarily identify with? (Q10)



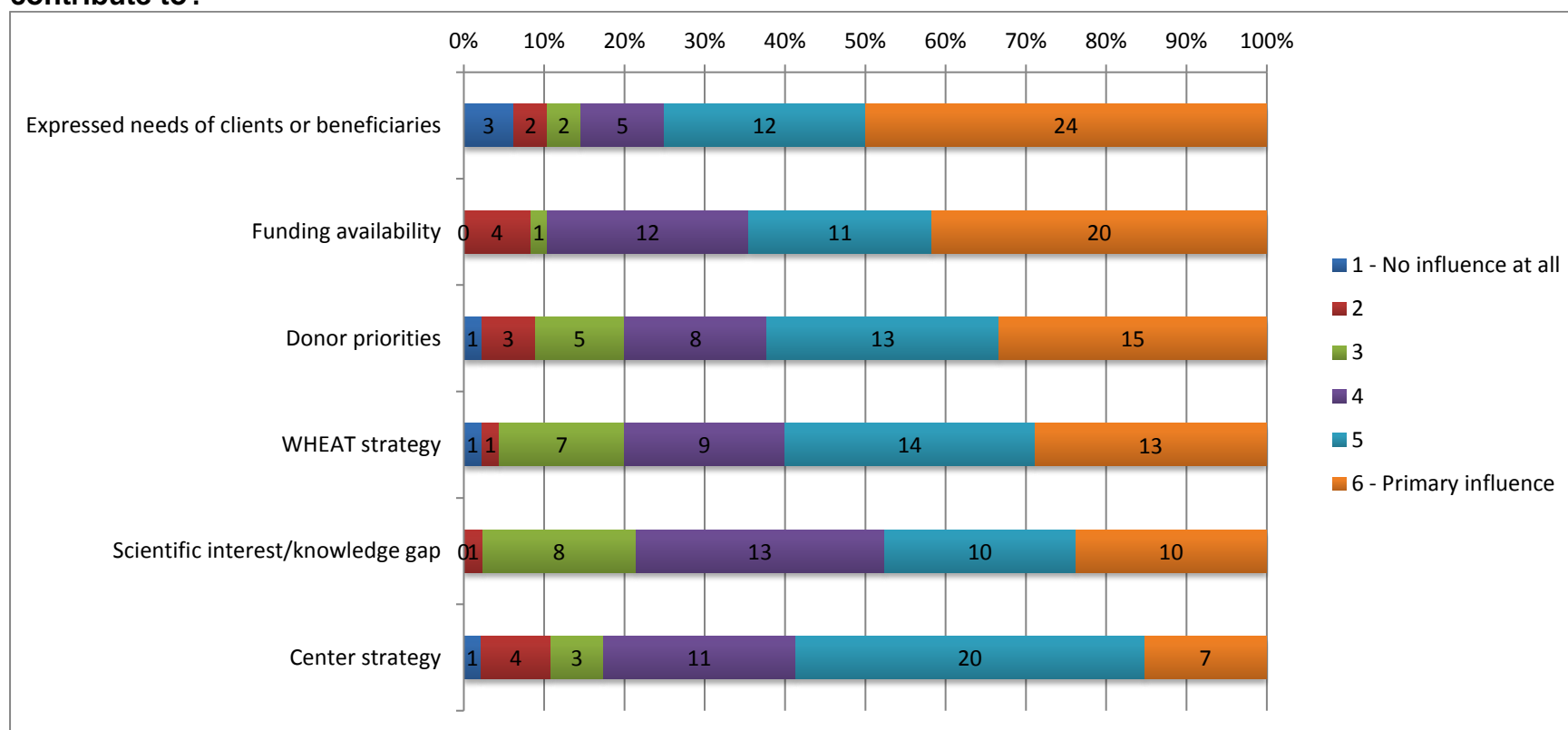
How many different projects in WHEAT are you currently working on? (Q11)





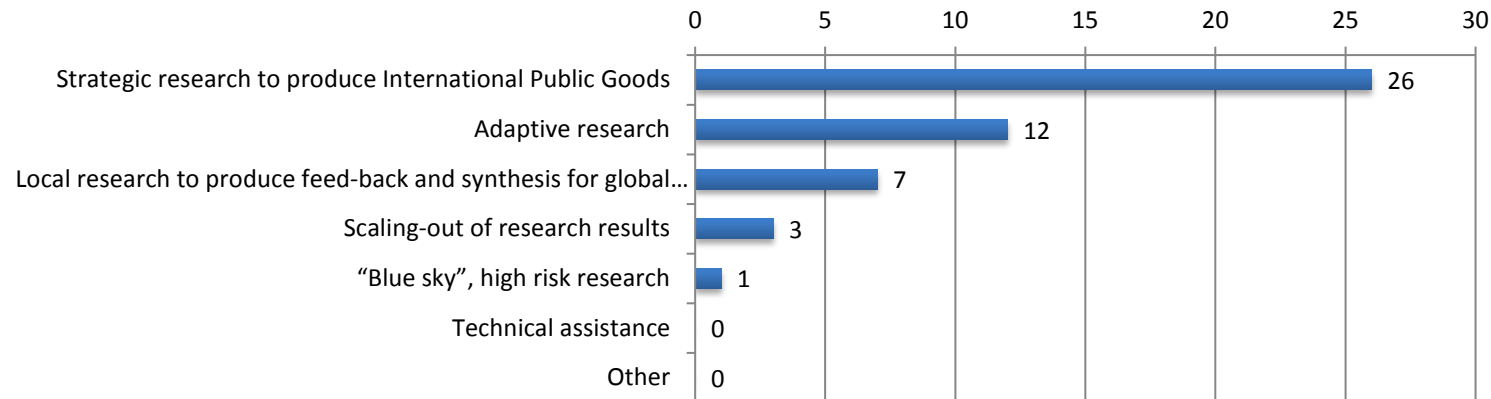
RESEARCH

Q 14. What is your perception of the factors influencing the choice of research topics in the WHEAT Flagship you mostly contribute to?

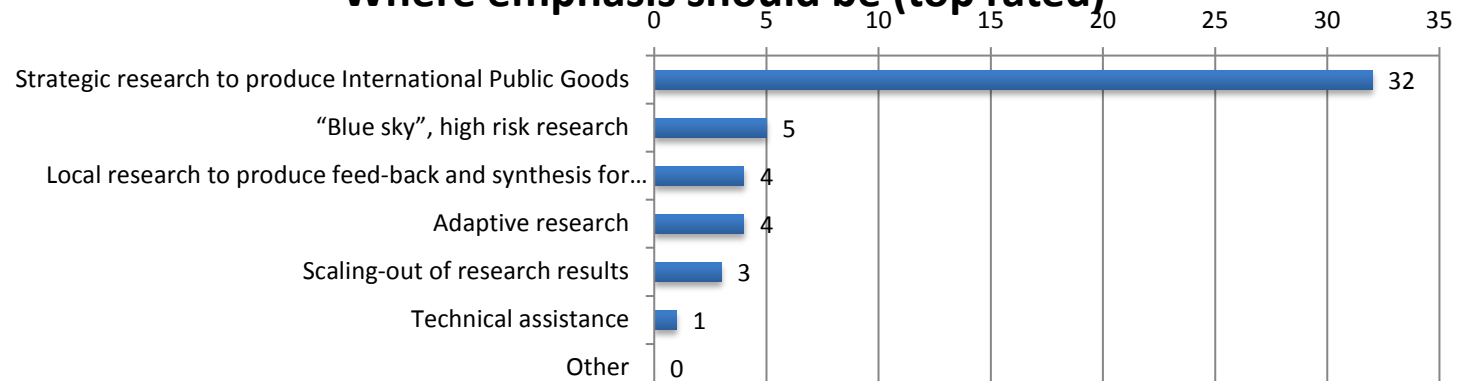


Q 15. According to you, which are currently the three most important research activities within WHEAT and where you think the emphasis should be?

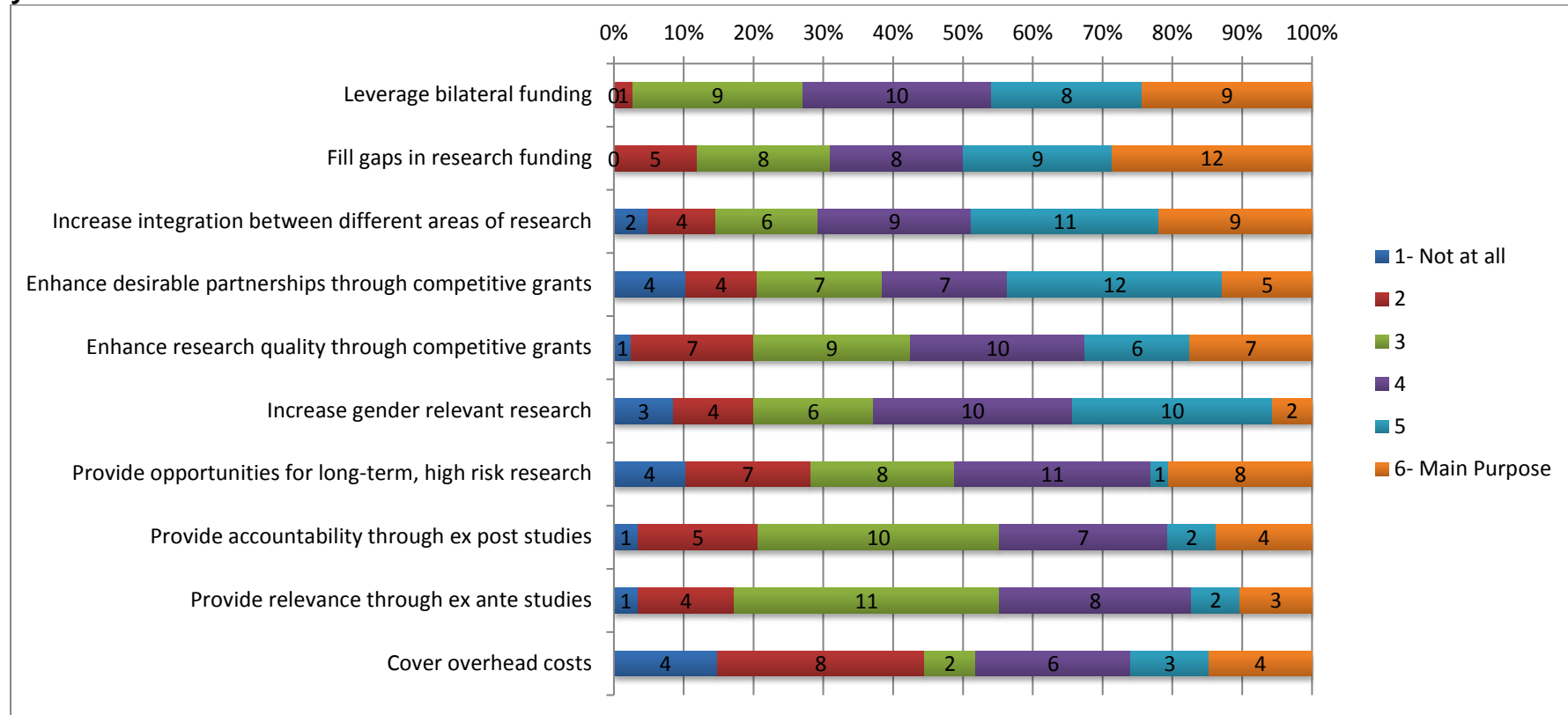
Current most important research activities (top rated)



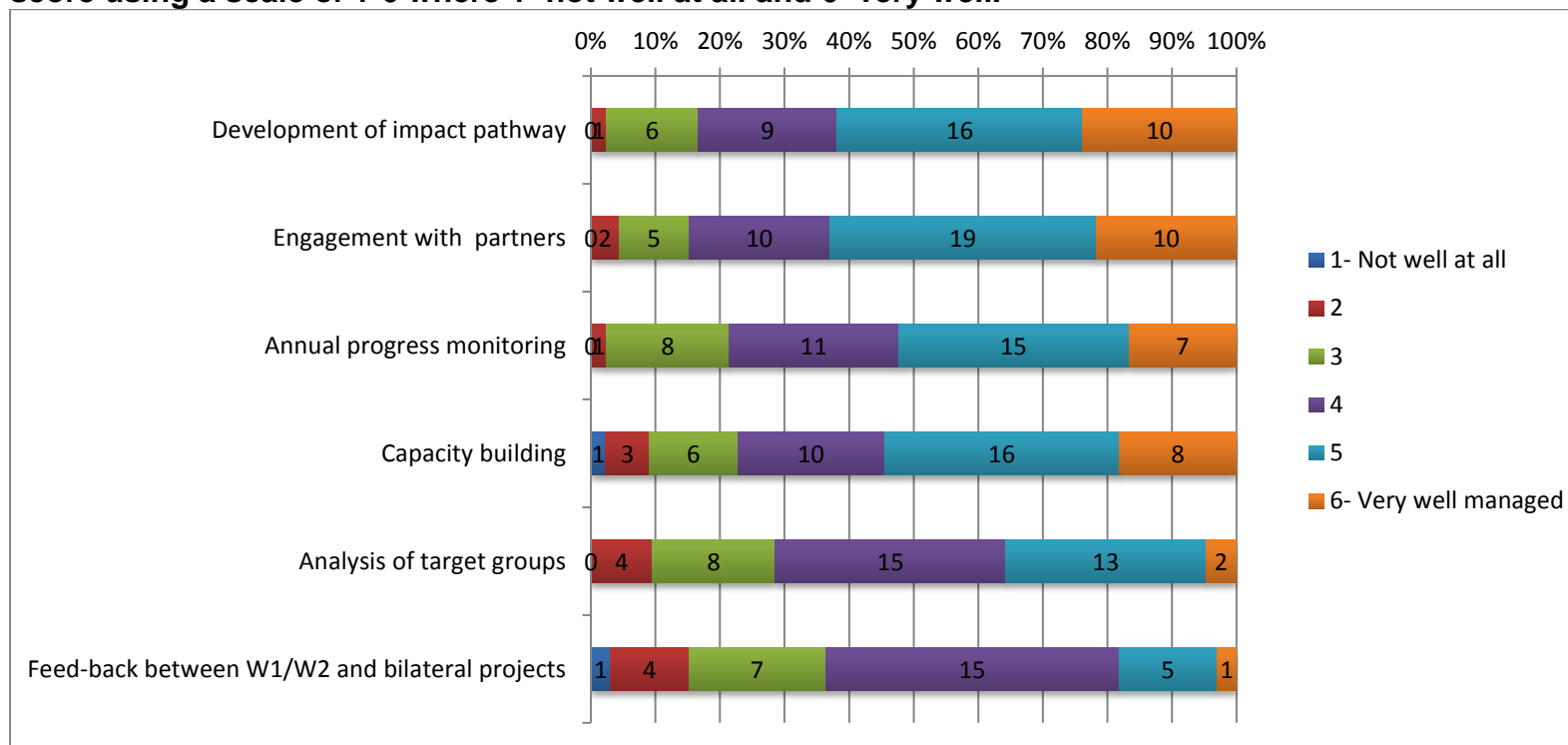
Where emphasis should be (top rated)



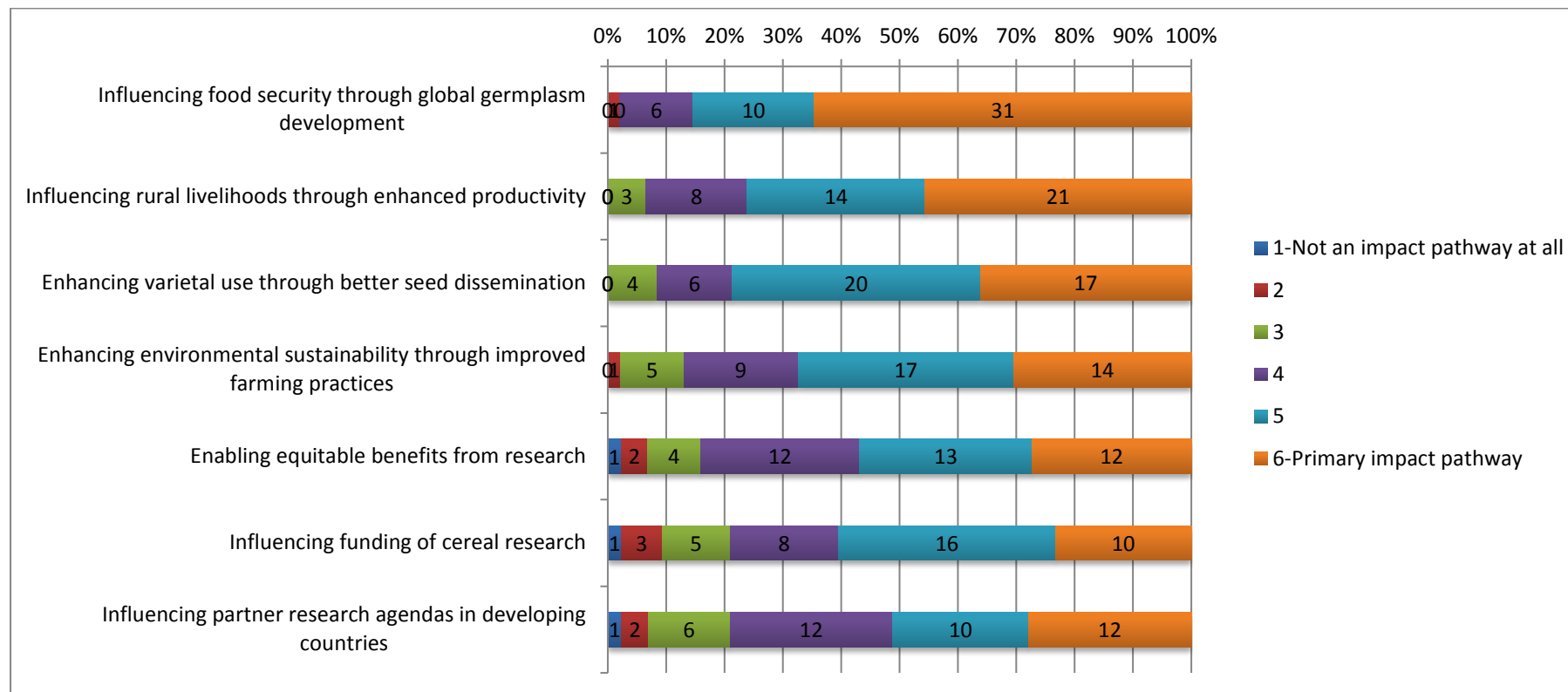
Q 16. The CRP receives funding from different sources where the Windows 1 and 2 are of least restricted type. What is your view of how W1/2 funds are used in WHEAT?



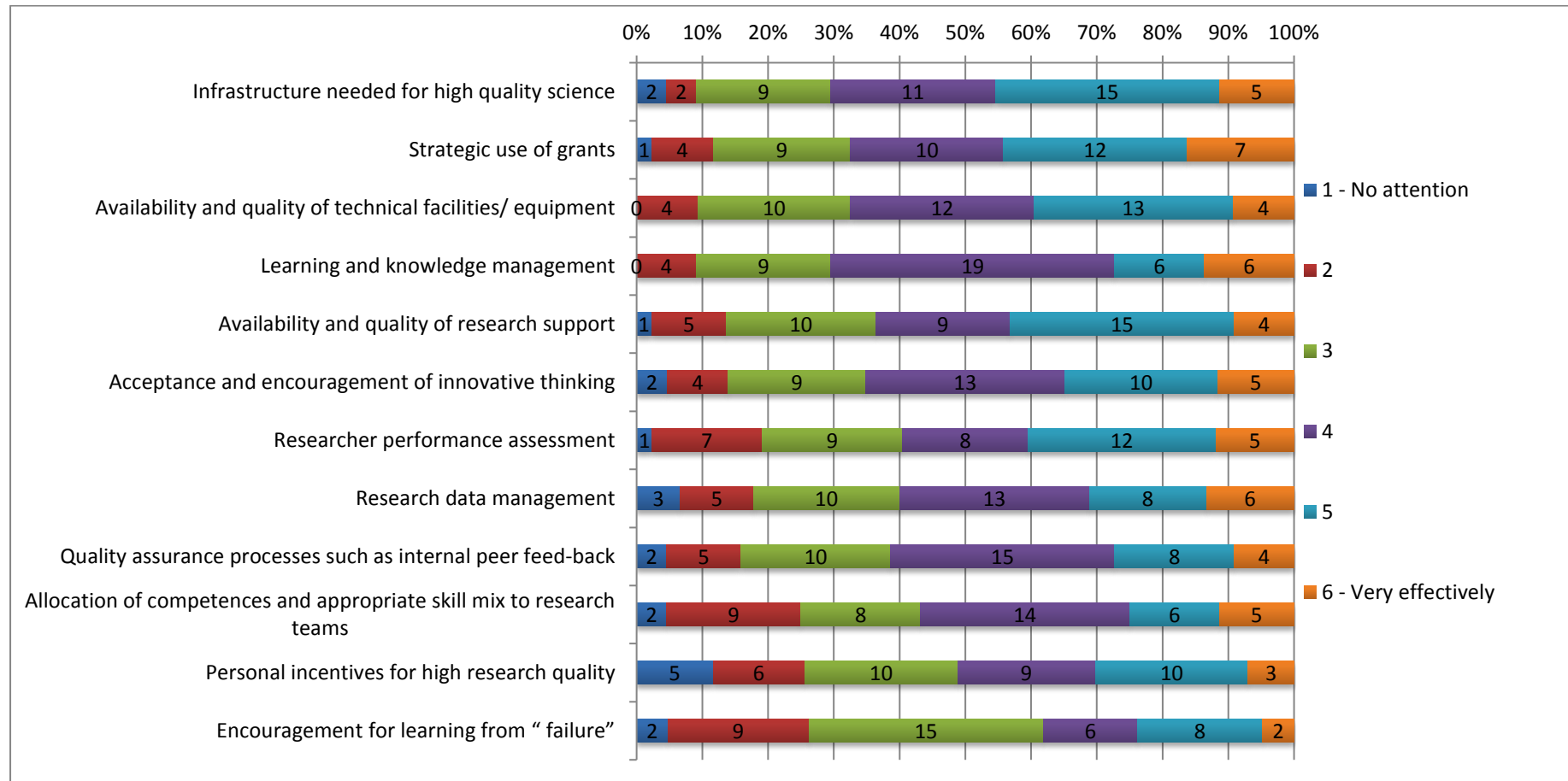
Q 17. In your view, how well are the following aspects for enhancing the effectiveness of WHEAT managed? Please score using a scale of 1-6 where 1=not well at all and 6=very well.



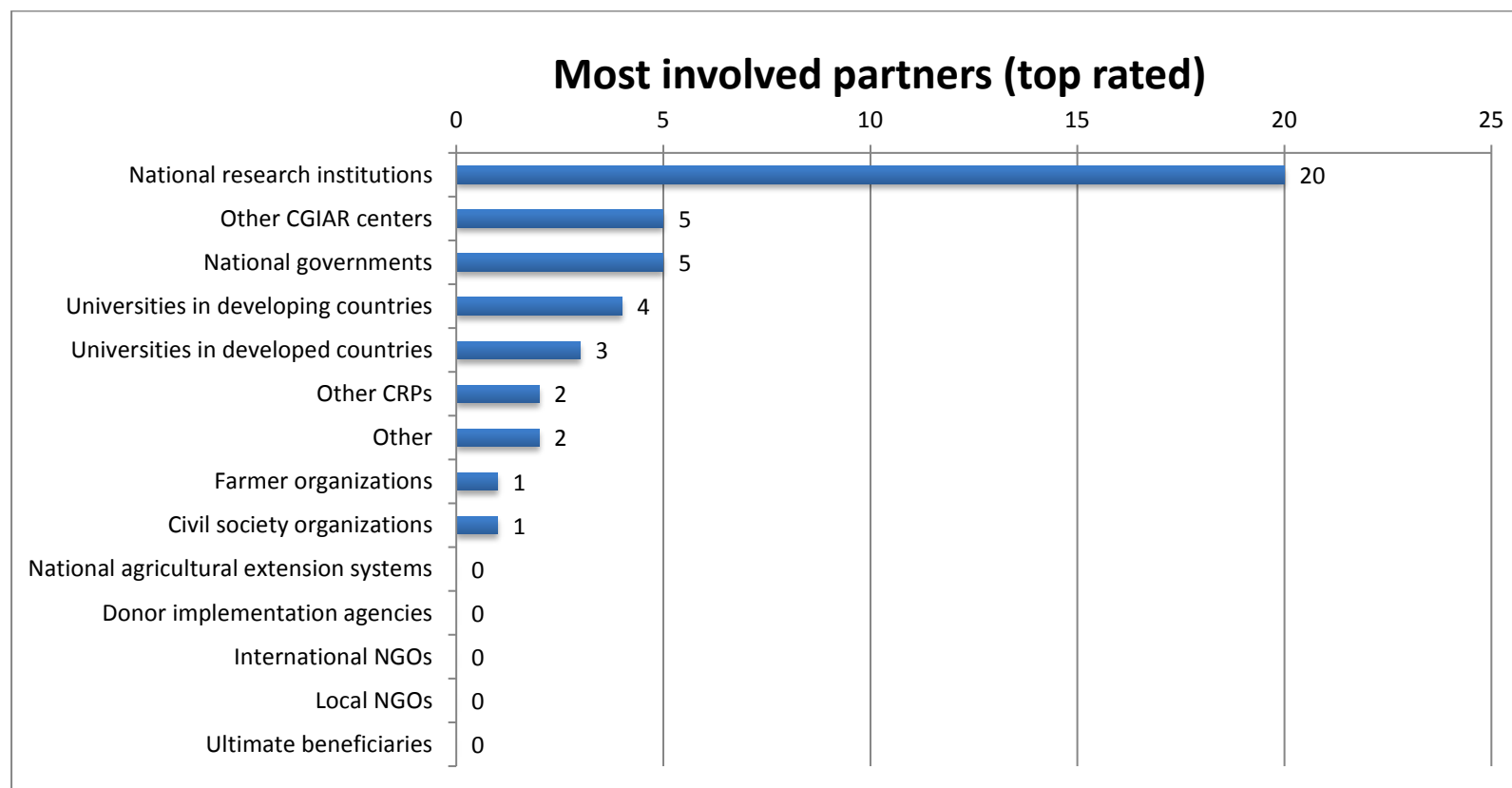
Q 18. In your view, what are important pathways through which research in WHEAT aims to have impact? Please score using a scale of 1-6 where 1=not an impact pathway at all and 6=primary impact pathway.

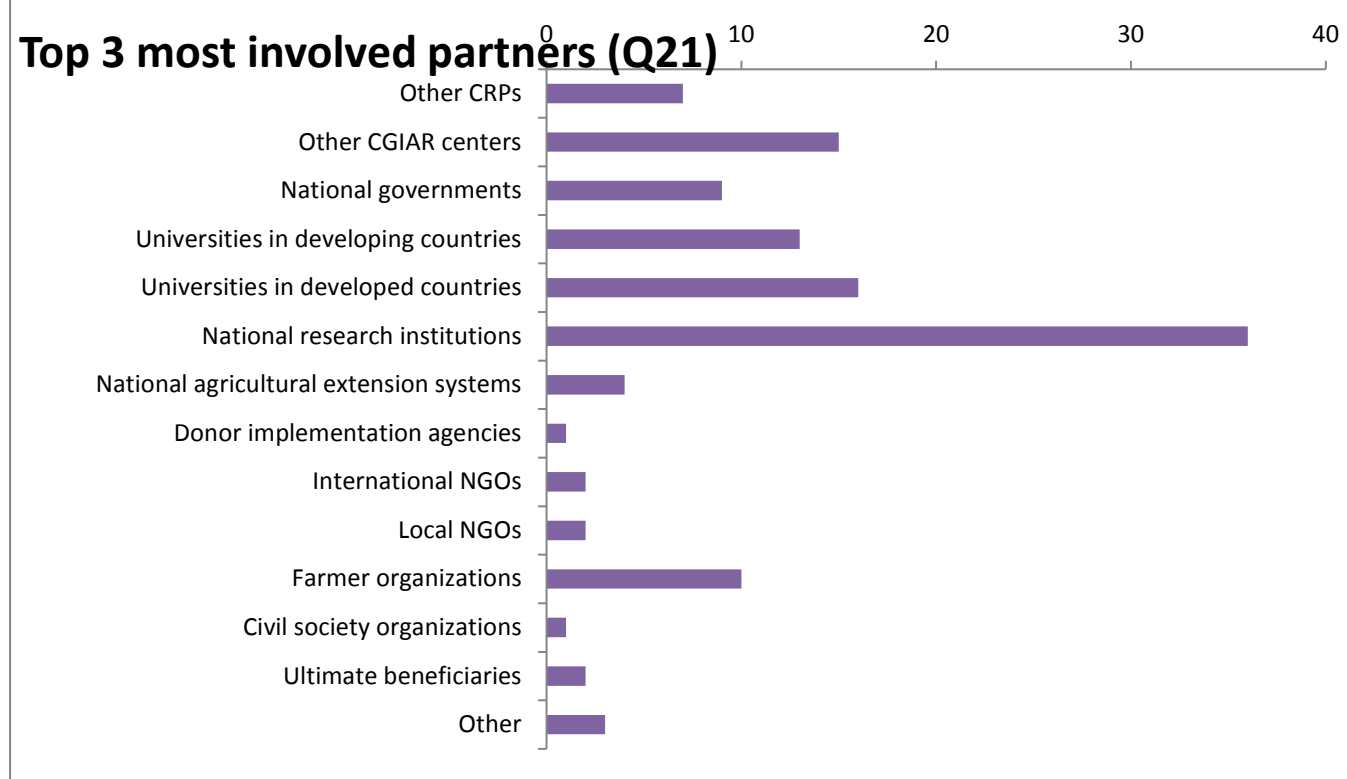


Q 19. In your view, how effectively are the measures listed below managed in your Center/CRP for assuring and enhancing high quality of research? Please score using a scale of 6 where 1=no attention at all and 6=very effectively.

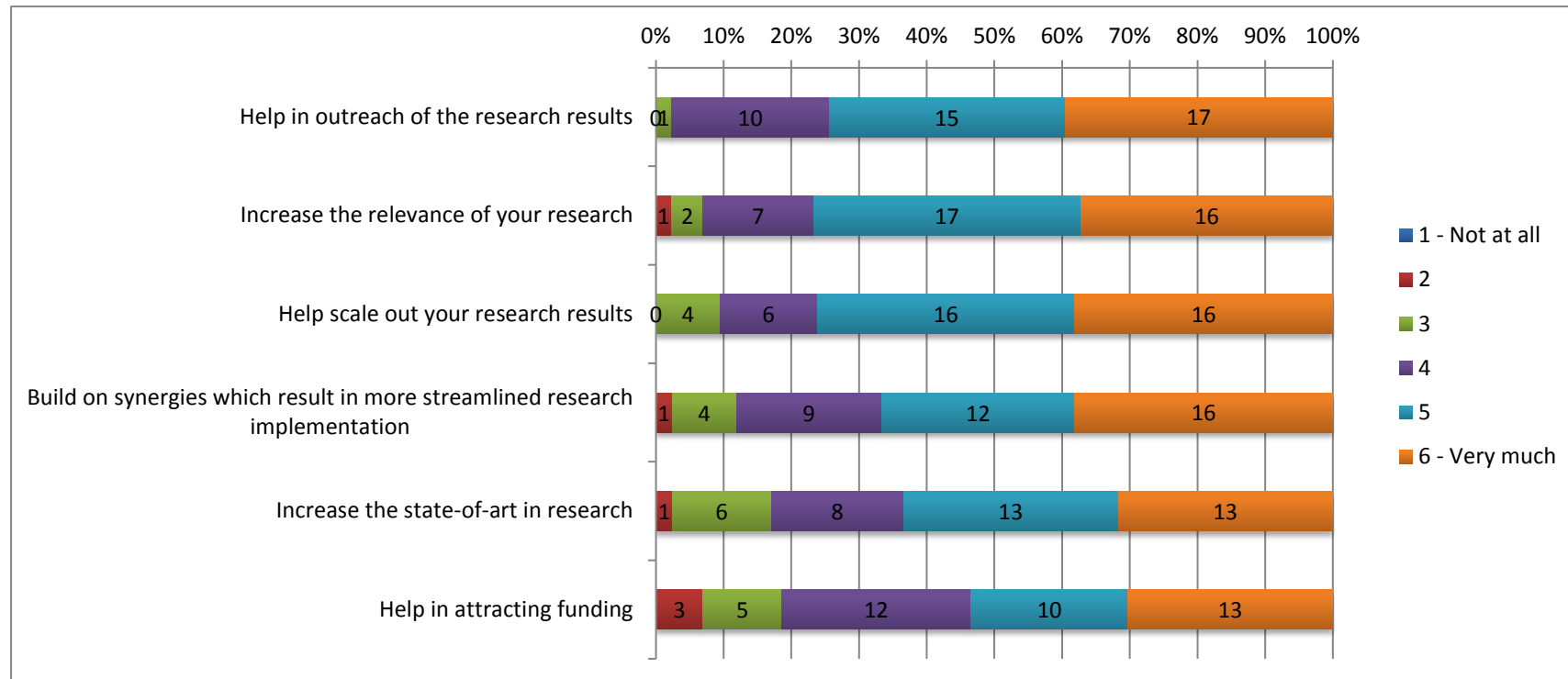


PARTNERSHIPS

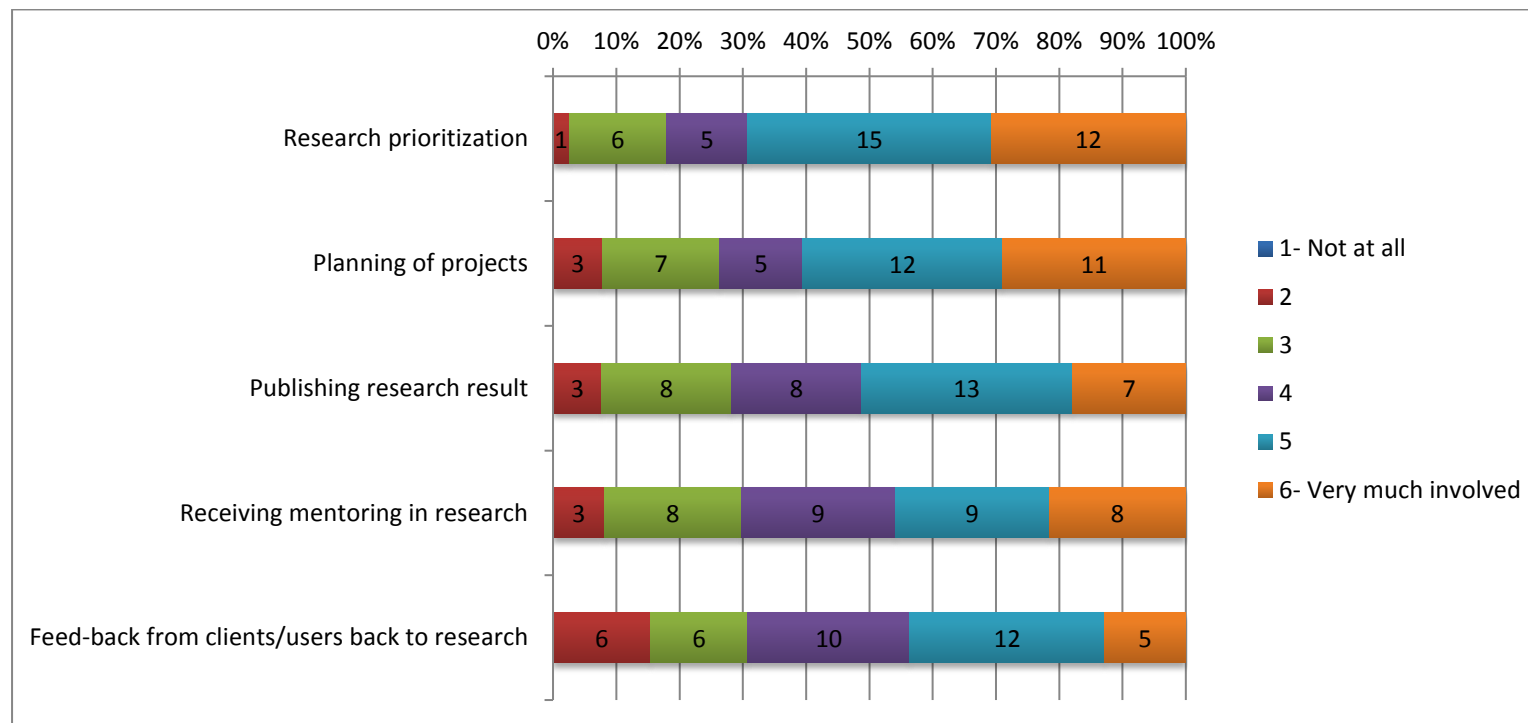




Q 22. In your view, to what extent do the current partnerships increase the likely effectiveness of your WHEAT-related research in areas listed below? Please score in scale of 6 where 1 = not at all; and 6 = very much

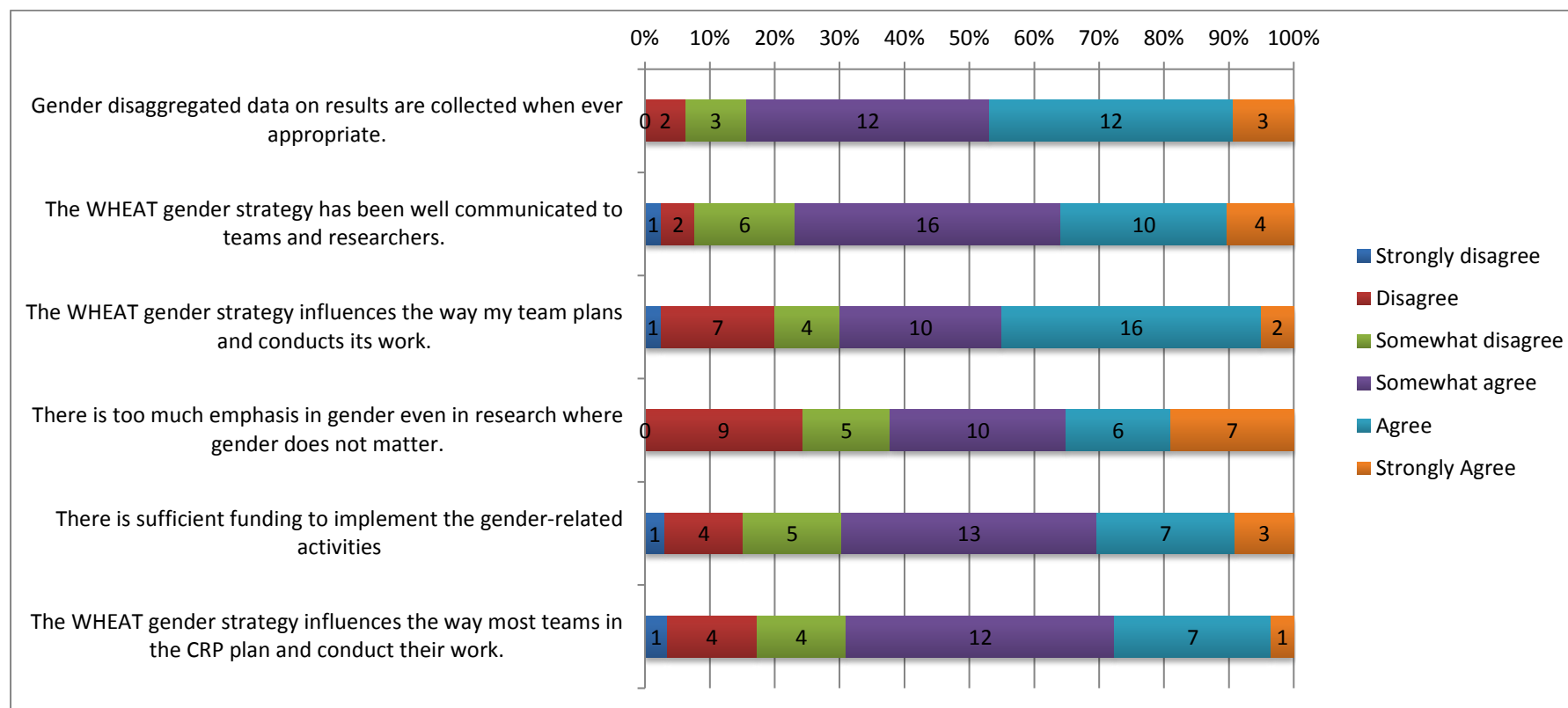


Q 24: In your view, to what extent are the partners in WHEAT involved in Program activities as listed below? (Please score in scale of 6 where 1 = not at all; and 6 = very much involved)



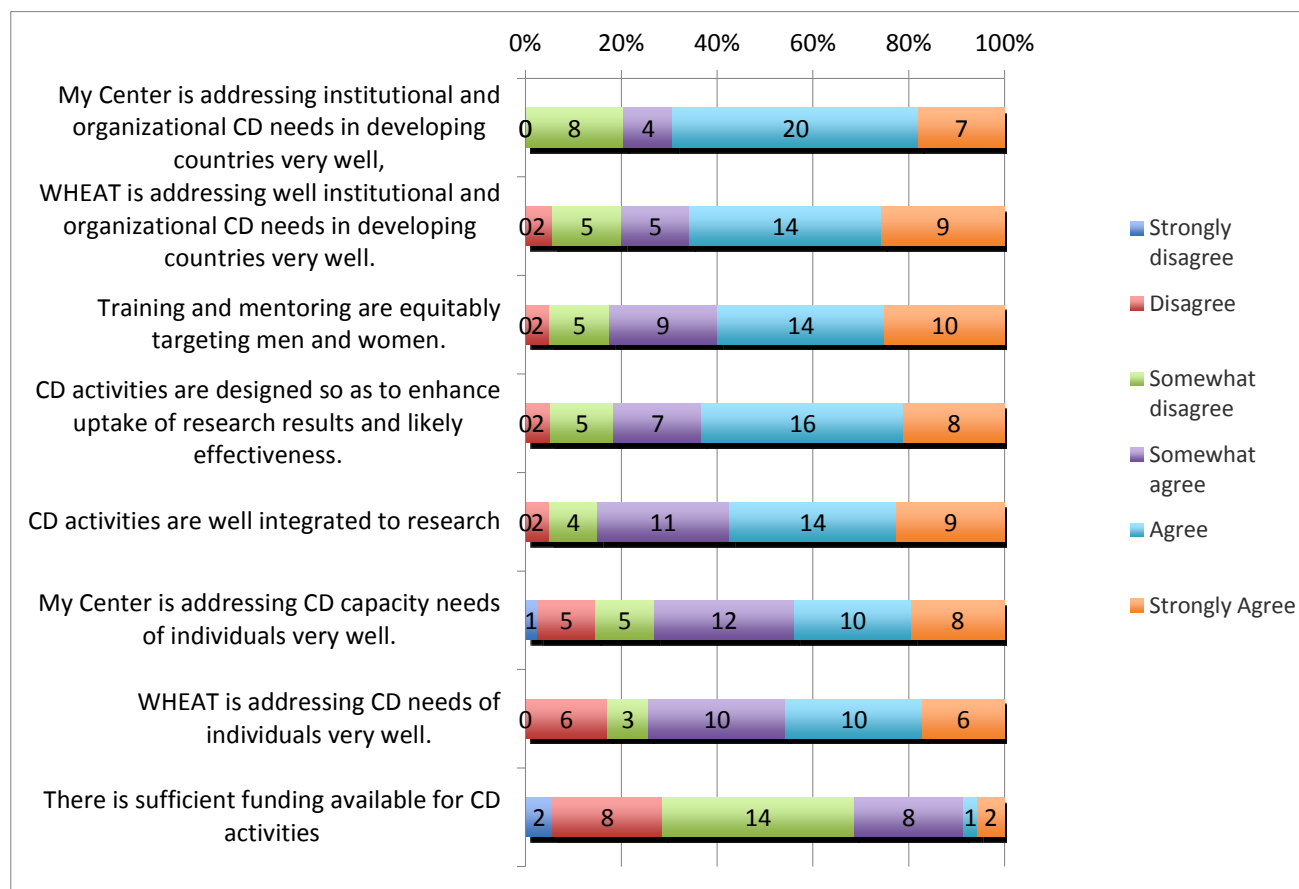
GENDER

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



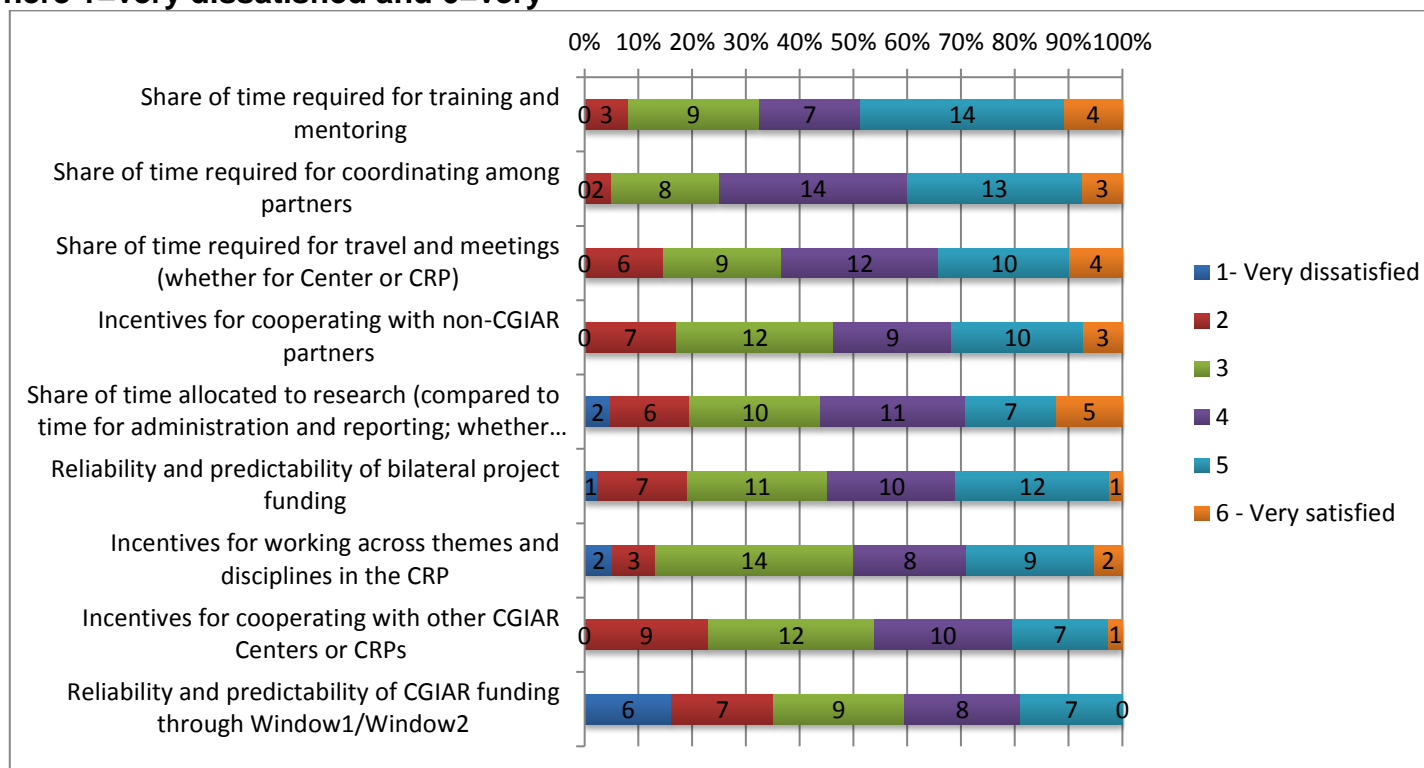
Capacity development

Q 26. Please indicate your agreement your agreement with the following statements that related to capacity development (CD) in your work and WHEAT. Please score in a scale of 6 where 1=very dissatisfied and 6=very satisfied.

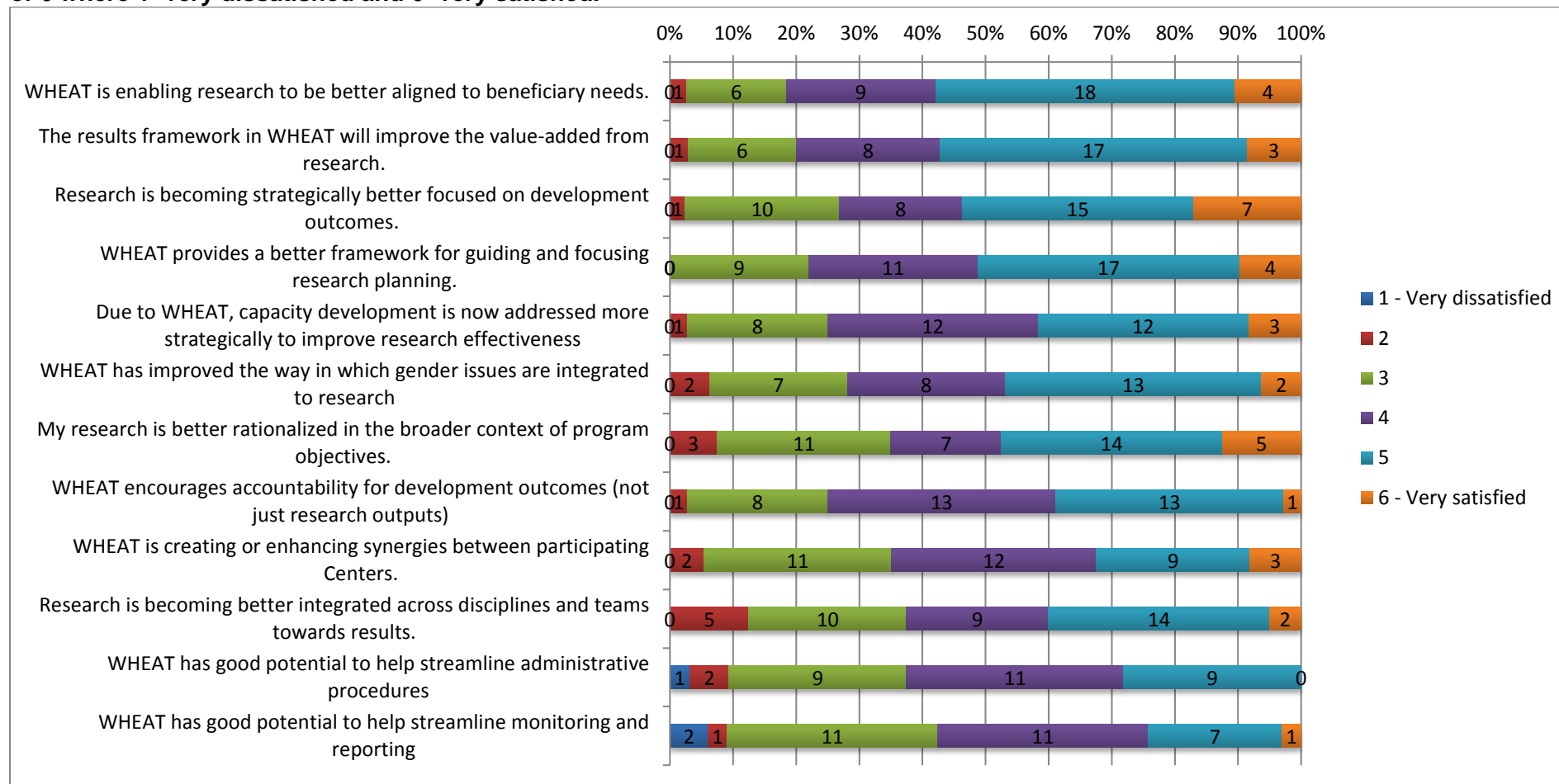


Satisfaction/value added

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



Q 28. Please indicate your agreement with the following statements related to the value WHEAT 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=very dissatisfied and 6=very satisfied.



ANNEX G. - Sample project assessment - TEMPLATE

PROJECT NUMBER: (if applicable)

PROJECT TITLE:

FLAGSHIP PROJECT NUMBER:

TYPE OF PROJECT: RESEARCH <-> more downstream DEVELOPMENT ORIENTED – *please explain briefly*

LEAD: CIMMYT/ICARDA/other

Filled out by:

Date:

Documentation used for assessment:

RELEVANCE AND COHERENCE:

Alignment with WHEAT 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 WHEAT CRP?

- To what extent is the project/activity aligned to the FP (or specific SI) objectives and WHEAT IDOs?
 - Very well
 - Moderately
 - Poorly

Comments:

1.

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?

2.

SCIENCE QUALITY

- Is the research addressing researchable issues?

3.

- Are research hypothesis clearly formulated and testable?

4.

- Does the project use state of the art methodology?

5.

6. 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?

7.

- 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?

8.
 - How has progress been in terms of research results and outputs?
9.
 - Are limitations and delays explained?
10.
 - How does the project design address the scaling-up and out of research outputs?
11.
 - Does the project include an implementation modality (partnerships, management) which reflects an appropriate role for CIMMYT/IITA?
12.
 - What has been the main success so far? (*MENTION ONE MAJOR ACHIEVEMENT*) *Assess its significance.*
13.

Are constraints to research outputs as well as uptake/impact and challenges mentioned and addressed?
14.
 - 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?
15.
 - How is the work divided between CIMMYT/ICARDA 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

16.

- Does the project/research strategy address gender specific issues?

17.

- 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

18.

- 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

ANNEX H. - 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/ICARDA

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

19.

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.