Independent Evaluation Arrangement Evaluation of CGIAR Research Program on MAIZE: Management Response and Action plan April 20, 2015

Dear FUND Council members, Consortium Board, Reviewer Team and IEA colleagues:

We are pleased to send herewith the Management Response to the Evaluation of the CGIAR Research Program on MAIZE.

- 1. The MAIZE Independent Stakeholder Committee (MAIZE-ISC) and Management Committee (MAIZE—MC) thank the evaluation team and the Independent Evaluation Arrangement for the conscientious and professional implementation of the review. We thank the many researchers and partners who took time to provide input. We also appreciate the candid and useful feedback received from the evaluation team, which will be used to frame the MAIZE Phase II Proposal.
- 2. Management noted with satisfaction the team's conclusions, in particular that
 - a. "MAIZE is an effective and efficient program that is oriented towards results and impact" and that its "success rests on strong partnerships and good quality science".
 - b. "MAIZE is currently on target regarding its milestones and on the basis of its observations of MAIZE field operations, partnerships and science quality, the Evaluation Team considers it highly plausible that MAIZE and its partners will reach the medium term goal, which is to increase maize productivity in the two MAIZE target groups by 7% in 2020 and 33% in 2030".
 - c. "the added value from MAIZE compared with the pre-CRP center-based approach is clear and becoming more evident as MAIZE evolves".
 - d. "MAIZE is a strong program that is addressing appropriate research issues for meeting the challenges to increasing maize productivity and maize systems' sustainability, and it continues to contribute substantially to the goals of the CGIAR"
- 3. Management appreciates the team's acknowledgement that with "19% of MAIZE funding from W1/W2" MAIZE had a "relatively small proportion of unrestricted (W1/2) funding". We would have appreciated to have a stronger endorsement to increase such funding, especially as these would go a long way to implement review recommendations. Currently MAIZE operates at <55% of the W1/W2 budget approved by the FUND Council. It is hence not surprising that strategic and global progress is occasionally limited for having to rely largely on a portfolio of bilateral funding.</p>
- 4. We confirm the observations of the reviewers that CIMMYT and IITA are close to establishing a single global maize program, led by the MAIZE CRP Director. This will integrate efforts of the two centers and improve the efficiency and effectiveness of MAIZE.

Please see below the detailed Management Response Matrix / Action Plan.

Management Response Matrix / Action Plan

Evaluation Recommendation	Management Response to the	Management Follow up			
	Recommendation	Actions to be taken	Who	Timefra	Is additional
			Responsible for	me	funding required
			Action		to implement
					recommendation?
Recommendation 1: Given the	Accepted in full.	1.1 Undertake	MAIZE	Underta	Yes. A minimum
evolution of the private sector,		analyses to determine	Management	ke	of US\$250k per
MAIZE will need to continue to		recommendation	Committee.	analyses	(re-)assessment is
assess its target smallholder		domains for specified		every	required every 3
groups, ecologies, geographies and		MAIZE germplasm		three	years. If additional
commercial seed markets. This		outputs and technical		years.	funding is not
assessment should aim at: 1)		support.			forthcoming,
Accurately defining the germplasm					resources would
products and associated					need to be
technologies needed – regarding					redistributed from
delivery of improved lines, parental					existing Windows
lines, hybrids (finished products)					1&2 activities in
and technical issues of maturity,					FP3 and FP4.
disease and stress tolerance, and					
grain quality attributes and its					
unique support of managed stress					
networks, and; 2) Establishing					
'rules' to customize and change					
MAIZE roles and involvement, e.g.					
default focus should be delivery of					
regionally-adapted improved lines					
and expert science/capability					
development in markers, traits and					
phenotyping.					
Recommendation 2: MAIZE should	Partially accepted. MAIZE in principle	2.1 Undertake	MAIZE	Underta	Yes (see 1.1
review its priorities in FPs 4 and 5	does not engage and use international	analyses of maize	Management	ke	above).

1	oublic funded capacities where strong	seed sector evolution	Committee.	analyses	
_	national or private sector are engaged.	in the contrasting		every	
already have a certain access to E	Even where the seed sector is strong	target environments		three	
appropriate technology. This needs (e	e.g., in Asia or Latin America), their	of Africa, Asia and		years.	
to be considered in the light of the e	efforts are targeted towards the	Latin America for the			
large proportion of W3 funding. In w	wealthier farmers in more favourable	next 10 to 15 years			
particular, MAIZE needs to consider m	markets with highest margins. MAIZE	and the role and			
reducing efforts in final product e	efforts in Asia and Latin America are	comparative			
(hybrid) delivery where the private ta	argeted towards developing and	advantage of suppliers			
sector is strong. MAIZE should also d	deploying (through partners) high-	of international public			
consider reducing investments in yi	rielding stress resilient cultivars that	goods with relevant			
the non-germplasm components of ca	can make a difference to the rainfed	traits (like CIMMYT			
FP5 areas of aflatoxin and m	maize productivity, which is often	and IITA) vis-à-vis			
postharvest storage research where co	considered as an "unfavourable	private sector; such an			
other agencies have greater m	market" environment by the private	analyses must include			
comparative advantage.	sector institutions (= large players with	relevant assumptions,			
b	preeding strength). The abiotic stress	for proper forecasting.			
to	colerance network of MAIZE is not				
re	reciprocated by the private sector.	2.2 The role of	MAIZE	June	No
Α	Also the small and medium sized seed	Aflatoxin and post-	Management	2015-	
C	companies that are willing to target	harvest storage	Committee and	Decemb	
lc	ower margin markets and those in	research in FP5 will be	Independent	er 2016.	
a	areas unattractive to the multinational	reviewed as part of	Steering		
b	preeding sector typically do not have a	the development	Committee.		
b	oreeding program.	process of the MAIZE			
		Phase II proposal.			
Recommendation 3: MAIZE should P	Partially accepted. Whilst this	3.1 Discuss	Consortium	June	Yes, significant
establish pro-active research and re	recommendation is sound in principle,	importance of, and	Board and	2015-	additional
monitoring capability to provide b	out it has significant resource	funding modalities for,	Fund Council.	Decemb	resources would
foresight on emerging issues in ir	mplications and would require strong	establishing capacity		er 2016.	be required
diseases and to support a	and sustained commitment from the	in MAIZE for foresight			beyond those
environmental characterization. d	donor community.	on emerging issues in			approved in the
1		diseases and to			extension
•					

		environmental characterization. 3.2 Recruitment of senior Foresight and targeting specialist (part-time for MAIZE, co-funded MAIZE for WHEAT) to develop foresight portfolio for MAIZE, including emerging biotic stresses	СІММҮТ	2015	No, provided MAIZE is funded at approved levels. Currently MAIZE operates at < 55% of the W1/W2 budget approved by the FUND Council.
Recommendation 4: MAIZE should Improve deployment of new phenotyping technologies into breeding and extend science into trait dissection, plant-based phenotyping and modelling for adaptive traits through engagement with other CRPs and groups of excellence. A study to benchmark research activities in MAIZE with best-practice in private sector should be conducted to identify opportunities for improvement.	Accepted in full.	4.1 Opportunities for the deployment of new phenotyping technologies into breeding and the extension of science into trait dissection, plant-based phenotyping and modelling for adaptive traits will be reviewed on an annual basis by the FP2&FP3 team.	FP2&FP3 team	Annual	Yes for conducting a study into comparing MAIZE with best-practice in private sector to identify opportunities for improvement. Estimated costs: US\$ 30,000 to 50,000
Recommendation 5: MAIZE should continue to support the deployment of a broad array of germplasm options and genetic resources and broaden the funding base for discovery and development of high-value trait	Accepted in full	5.1 The role of fee-based consortia or other income generating mechanisms are being assessed to the extent they do not contradict	MAIZE Management Committee and Centre Boards	June 2015- Decemb er 2016.	No.

lines. More focused product design, network trial results and seed market assessments should be used to decide when to withdraw to a 'regional role'. A study should be commissioned on collaboration models, such as fee-based hybrid consortia, to explore options for funding support toward the development of parental lines.		the CGIAR Intellectual Asset Principles. 5.2 More focused product design; network trial results and seed market assessments will be included in the analyses above in relation to 1.1.	MAIZE Management Committee.	Underta ke analyses every three years.	Yes. See 1.1 above.
Recommendation 6: MAIZE should institute management measures to ensure efficiency and effectiveness in management of staff and research activities over the long term. These measures should include: 1) processes for engaging and motivating staff in delivery	Partially accepted. A major disincentive for this to happen is the lack of stable longer term funding and high levels of direct costing imposed by donors that often pursue a very short-term project focus. In the case of W1/W2, MAIZE is currently funded at less than 55% of the W1/W2 budget	6.1 Allocate a greater proportion of W1/W2 to coordinate cross-disciplinary and cross-institutional learning activities and events.	MAIZE Management Committee.	Instigate during 2016	Yes. Cost = approximately USD\$150,000 per year.
oriented research through mentoring, training, and cross disciplinary and cross-institutional lateral learning; 2) protocols for data collection and management; 3) streamlined processes for linking exploratory science and research outputs through multiple stages to intermediate products and final	approved by the FUND Council.	6.2 Develop and operationalise protocols for data collection and management. This process is already initiated.	ICT/Knowledge management departments with FP2/FP3/FP4 teams.	2016	No, provided MAIZE is funded at approved levels. Currently MAIZE operates at < 55% of the W1/W2 budget approved by the FUND Council.
products delivered by MAIZE, and; 4) integration of project implementation to program objectives over medium- and long- term through innovation platforms		6.3 Role specialization within the breeding team (for optimization of	FP2/FP3/FP4 Leadership	2015 to 2017	No

and long-term field trials.		breeding pipelines through discovery, validation and deployment), and necessary linkages between specific stages of product development, have been devised and the process of implementation is already underway.			
		6.4 Review project alignment / misalignment and suggest opportunities to promote greater alignment. Ensure alignment with ongoing discussions regarding the development of Site Integration Plans.	FP & Strategy Leads	June 2015 to Decemb er 2015.	No
Recommendation 7: MAIZE should improve its links in agronomy research with other CRPs such as Humid Tropics. This would serve development of sustainable intensification indicators and metrics.	Accepted in full.	7.1 Expand current work on the standardisation of indicators and metrics with commodity-focused CRPs to systems CRPs (Humid Tropics and Dry Land Systems). This is presently taking place	CRP Management Office.	June 2015 to Decemb er 2015.	Yes. Cost = approximately USD\$150,000.

Recommendation 8: MAIZE should take action to improve its gender orientation. It should maintain	Accepted in full.	under leadership of Africa Rising (i.e. recent USAID San Diego convening on indicators and metrics for SI attended by CIMMYT, IITA, ILRI, CIAT,). Given the importance of Landscape scale approaches stronger linkages with CRP Water, Land and Ecosystems is also desirable. 8.1 Implementati on newly approved MAIZE gender	CIMMYT; IITA	2015 onward.	Yes. Cost = approximately USD\$500,000 per
investments in gender/social inclusion and sharpen its focus on gender analysis at project level. MAIZE should take measures to enhance the employment of women scientists at all levels by improving recruitment, and by developing an enabling environment to attract and retain women scientists.		strategy – which includes entry points per flagship and identifies investment needs in gender and social inclusion. 8.2 Increase investment on gender analysis at project level. Includes gender-relevant projects	MAIZE Management Committee.	2016 onward.	year in addition to fully funding MAIZE W1/W2 at their FUND Council approved levels. No – if adequately budgeted by project and accepted by donor.
		proposing adequate budget lines for gender analysis.			

		8.3 Continue to pro-actively explore and implement measures to the employment of female scientists.	CIMMYT & IITA senior Mgt	2015 onward.	Yes – to be determined.
		8.4 Operationalise key recommendations from Gender Competency Framework and Modular Capacity Strengthening Program Report (currently being developed in 2015).	MAIZE Management Committee.	2016	Yes – to be determined.
Recommendation 9: MAIZE should develop a strategy for impact assessment that sets clear priorities for focusing such assessments, provides an analytical framework and elaborates on the use of impact pathways in planning and documenting scaling up of results and impact.	Accepted in full.	9.1 Develop comprehensive strategy for MAIZE impact assessment.	CRP Management Office with key FP5 leaders.	By Decemb er 2015.	No, provided MAIZE is funded at approved levels. Currently MAIZE operates at < 55% of the W1/W2 budget approved by the FUND Council.
Recommendation 10: MAIZE should enhance the conduct and use of impact assessment. The steps to be taken include: 1) Adequate resources are allocated in major project proposals to enable	Accepted in full. Challenge though for funding through bilateral project resources – given proper ex post impact assessment normally occurs several years AFTER the project completion.	10.1 Implement the new comprehensive strategy for MAIZE impact assessment (see Rec 9), including	CIMMYT (PMU and RMS) and IITA (Proposal Development Unit and Project Admin	By Decemb er 2015.	No, provided MAIZE is funded at approved levels. Currently MAIZE operates at < 55% of the

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ex-post impact assessment at the	its adequate	Office).		W1/W2 budget
end of project support and	resourcing. All new			approved by the
strengthen feedback to MAIZE for	MAIZE proposals			FUND Council.
portfolio development; 2) Proactive	developed with a total			
planning is done to ensure that	budget of more than			W3/bilateral
results from adoption and impact	USD\$5,000,000 will			projects will be
studies feedback to specification of	propose an adequate			sought to provide
desired technology characteristics	budget line for ex-post			a
in project design, and; 3) More	impact assessment. All			compliment/parti
systematic studies are conducted	substantial projects			al substitute.
on the impact of gender on	(US\$>=1.5 million) will			
technology adoption and its	propose adequate			
implication for technology design.	budget lines for			
	adoption monitoring.			
	10.2 Operationalize	CIMMYT (PMU	Ву	No
	feedback mechanisms	and RMS) and	Decemb	
	of the new	IITA (Proposal	er 2015.	
	comprehensive	Development		
	strategy for MAIZE	Unit and		
	impact assessment	Project Admin		
	(see Rec 9). Includes	Office).		
	active multi-	·		
	disciplinary			
	participation starting			
	in project design. Use			
	impact pathways in			
	planning and			
	documenting scaling			
	up of results and			
	impact. Enhance			
	constructive feedback			
	platforms/processes/o			
	pportunities.			
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		10.3 Implementati on of newly approved MAIZE gender strategy calls for proactive use of gender lens in technology design and adoption studies. Commission additional gender studies on technology adoption and ensure learning internalised through learning activities and events and through the	MAIZE Management Committee. CRP Management Office. CIMMYT (PMU and RMS) and IITA (Proposal Development Unit and Project Admin Office).	Initiate in 2016 onwards	Yes. Cost = approximately USD\$200,000 per year in addition to fully funding MAIZE W1/W2 at their FUND Council approved levels.
		proposal development process.			
Recommendation 11: CIMMYT and IITA should agree on the establishment of a single global maize program in the CGIAR that integrates efforts of the two centers. This MAIZE program should be led by a director.	Accepted in full.	11.1 Subject to ratification by IITA's DG and BoT, CIMMYT and IITA senior management have already agreed to establishment of a single maize programme to be led by a director.	CIMMYT and IITA DGs and BoTs.	By Decemb er 2015.	No