



## ISPC Assessment of Flagship-3 (Livestock feeds and forages) of the CGIAR Research Program on Livestock Agri-Food System (2017-2022)

## 1. Summary

Flagship 3 (feeds and forages) of the Livestock CRP aims to increase livestock productivity and reduce environmental impacts by identifying, testing, and delivering superior feed and forage strategies and options. In its September 2016 assessment, the ISPC rated FP3 as weak on the basis of weak track record of delivery at scale; inadequate articulation of its comparative advantage, particularly in relation to the private sector; and lack of detail on research priorities, science outputs, and timelines.

The ISPC's rating of this FP's resubmission is still weak. The FP-level targets have been adjusted, in response to concerns about exaggerated targets. However, the research program is not convincingly aligned with major opportunities in various contexts (dual purpose crops, delivery and market linkages, etc.) and the associated constraints in the forages and feed sector to deliver impact. In the absence of a track record and *ex-ante* evidence, the assumptions underlying the impact pathway are too optimistic. The candid acknowledgement of this lack of evidence (*ex-ante* as well as *ex-post*) on the uptake of research-related feed and forage innovation, and an intent to address this gap is appreciated. However, the balance of efforts on this issue between FP3 and FP5 CoA1, which seems the logical place to locate foresight activities, is not evident. Moreover, the comparative advantage of the CGIAR *vis-à-vis* the private sector and NARS is not convincingly argued.

## 2. Assessment of CRP response to the ISPC major comments on the FP

Previous ISPC	CRP response/changes proposed	ISPC assessment
comments (14 Sep		
2016)		
1. Weak track record	The overly optimistic targets	At the FP-level targets have been
of delivery at scale	acknowledged, and more conservation	adjusted downward, and there is more
	assumptions on uptake of research	clarity on priority countries for research
	outputs and ensuing impact on poverty	outputs under each CoA. The number of
	adopted. Specifically, a 200% spill over	farmers reached and acreage for
	effect had been assumed and has been	improved cultivar dissemination,
	reduced to 50%. One country-level	however, has remained the same at the
	(Pakistan) target was also reduced since	CoA level.
	there will be limited activities, due to	
	reductions in bilateral funding. Cross-FP	Candid acknowledgement of the lack of
	effort on foresight and prioritisation will	ex ante as well as ex post evidence on
	prioritize the improvement of parameters	uptake of improved forages is
	in models that underline these numbers.	appreciated. It is important to reflect on
		the reasons for this data / knowledge gap,
	Acknowledge that evidence on improved	considering the decades of effort and
	forage adoption is scarce. Information is	investments.
	available for LAC (>700k ha adoption of	
	hybrids related to the CRP, and overall	The emphasis on <i>ex ante</i> assessments (as
	estimated on improved forage adoption	well as <i>ex post</i> ) is appropriate, and using
	at 150 mn ha, and 120 mn ha attributable	critical assessments of past experience
	to Brazilian NARS). Proposed targets:	and changing opportunities to revise the
	2mn ha by 2022 in LAC, E. Africa and	theory of change and impact pathways is
	SEA and 600,000 farmers using	called for. At the same time, the linkage

with FP5 and the balance of efforts improved forages – this is based on growing interest of private forage and between FP3 and FP5 is not clear. seed sector. Dearth of *ex ante* assessments is another gap that the FP will address, but existing (even if limited) ex ante assessments indicate huge potential in Africa. Sections on 'rationale and scope' as well 2. Comparative The increased emphasis on delivery as 'partnerships' revised to present recognizes an acknowledged constraint advantage vis-a-via other comparable arguments on why the CGIAR maintains to new forage/feed solutions having a clear comparative advantage via-a-vis research and the impact. Whether this will enhance the development of the the private sector, NARS and other likelihood of success is questionable private sector feed actors, including that a major seed since the outputs that this FP/CRP industry is unclear multinational continues to rely on focuses on (improved forage varieties) CGIAR for its forage breeding. At the are misaligned with the demand / same time, the private sector is a crucial opportunities for forage and feed player in dissemination of research solutions in South Asia, South-east Asia outputs – this is highlighted in the and Sub-Saharan Africa. In many areas rationale and partnership sections as of these regions, it would appear that the well. opportunities are in dual purpose crops. Acknowledge that addressing forage and The assertion that seed multinationals feeds constraints is a delivery issue, and rely on CGIAR breeding programs for this dimension given priority / cultivars is insufficient to make a case prominence in the narrative as well. for investments – there is a paucity of W1/W2 funds shifted to achieve a better evidence on whether this pathway would balance between development (CoA 2), lead to significant positive impacts on targeting (CoA 1), delivery and the CGIAR SLOs. It also raises the monitoring uptake (CoA 4). question whether public funds should underwrite commercial R&D efforts. The comparative advantage of this effort vis-à-vis the private sector and NARS partners remains unaddressed. From the evidence on uptake presented, partners such as Embrapa have a stronger track record in forage research and delivery than the CGIAR. 3. Lack of detail on Sections on 'rationale and scope' and The clarification and implied shift research priorities, 'science quality' reworked to show how towards food-feed crops is appreciated. science outputs and past experience has shaped priorities, and The narrative includes some description of past Livestock and Fish CRP work to timelines identifies existing constraints that can be overcome through this CRP/FP's generate demand scenarios, and domains research. Similarly, changes to COA for selected crops (e.g. maize, sorghum, section showcases a more focussed and cowpea) and geographies to inform research agenda, and explicitly defined decisions on new full-purpose crop priorities and outputs that will be cultivars. But, information on lessons achieved. from these analyses and the extent of influence on research plans remains FP focuses mainly on three sub-IDOs: unclear. more efficient use of inputs; closed yield The balance of efforts between 'fodder' gaps; and technologies that reduce women's labour and energy expenditure and 'feed' (a much broader concept) is

developed/disseminated. Acknowledge that the appropriate research focus is on closing livestock yield gap by delivering better feed material and other interventions that enhance animal productivity. Contribution to other sub-IDOs (capacity development, environmental issues) is through collaboration with FP4 (environment) and FP5 (LLAFS).

Connections and common work with other CRPs, CGIAR Centers and external partners highlighted, including food-feed crops initiative with AFS-CRPs and commodity Centers, and the Biological Nitrification Inhibition (BNI) consortium.

not evident. Superior forages appear to be the focus, and there may be opportunities in the broader feed sector that are being missed. For instance, improving cost-effectiveness of feed innovation, which may not necessarily be delivered through research. This is applicable to South Asia, Southeast Asia and parts of sub-Saharan Africa where opportunities for improved fodder, as acknowledged, are limited.

## 3. Characterization of the Flagship

Main strengths	Weaknesses
Potentially high strategic relevance as animal nutrition is a constraint to productivity increases, especially within the targeted smallholder systems. Key sub-sector in livestock-related GHG emissions, potential for sequestration / mitigation outcomes	Absence of track record as well as <i>ex ante evidence</i> – to support the assumptions underlying the impact pathways
Collaboration across the CGIAR on feeds and forages	Comparative advantage <i>vis-à-vis</i> other comparable research and the development of the private sector feed industry is not convincingly argued  Lack of detail on research priorities and science outputs