

RESEARCH PROGRAM ON Livestock and Fish

More meat, milk and fish by and for the poor

More pork by and for the poor: Catalysing emerging smallholder pig value chains in Uganda for Food Security and Poverty Reduction

MONITORING EVALUATION AND LEARNING FRAMEWORK

First Draft

Ochago Robert

May, 2015







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Editing, design and layout—ILRI/Ochago Robert

ISBN:

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Box 30709, Nairobi 00100, Kenya Phone: +254 20 422 3000 Fax: +254 20 422 3001 Email: ILRI-Kenya@cgiar.org

Box 5689, Addis Ababa, Ethiopia Phone: +251 11 617 2000 Fax: +251 11 617 2001 Email: ILRI-Ethiopia@cgiar.org

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Acronyms

COOP	Cooperative Society
ILRI	International Livestock Research Institute
M&E	Monitoring and Evaluation
MAAIF	Ministry of Agriculture, Animal Industry and Fisheries
MEL	Monitoring Evaluation and Learning
NAADS	National Agricultural Advisory Services
NaLIRRI	National Livestock Resources Research Institute
NGO	Non-Governmental Organization
PI	Principal Investigator
SPVCD	Smallholder Pig Value Chain Development in Uganda

Acknowledgement

The MEL team and ILRI Uganda staff for their positive contribution to the preparation of the MEL framework

I Introduction

The Monitoring and Evaluation (M&E) strategy and plan for the smallholder pig value chain Uganda is based on the original proposal for funding to the Smallholder pig value chain by Irish Aid. Objectives, activities and expected outputs and outcomes as well as targets/benchmarks have been defined in the Irish Aid proposal. The framework serves as a basis within which the activities and results of SPVCD can be tracked for accountability and learning. This is made possible through documentation of successes, best practices and lessons learned and plan new strategies. SPVCD will adopt the Results framework approach to facilitate its Monitoring and Evaluation. Through this approach, a logical flow of land marks of the results obtained from planned activities. The targets for the indicators of results, how they will be measured and the parties responsible are clearly highlighted by this method.

2 Purpose, guiding principles, audience and key components of the plan

2.1 Purpose

This Framework aims to monitor the resources invested, the activities implemented, and services delivered as well as evaluate outcomes achieved. It was designed to measure progress towards the achievement of the Project Development Objective (Purpose) as well as associated Results. This will facilitate good planning, close monitoring, deeper reflections and appropriate attitudes for learning and adjustments. It focuses on how to improve reporting, data collection and analysis, conducting surveys, specialized field monitoring, feedback and necessary conditions for M&E.

The Framework specifically, aims to collect and provide information that will be used to:

- Identify gaps and weaknesses in implementation and flag potential risks or challenges emerging from monitoring of project activities and progress to the project coordinators and other relevant stakeholders in order to better plan, prioritize, allocate and manage resources appropriately;
- + To enable project management establish mechanisms for regular reviews and come up/improve best bet interventions and decision making processes geared towards achievement of project objectives.
- To generate a system to compile, process, analyze and store information as concerns project implementation progress;
- To lay the foundations for midterm and final evaluations of the project in order to systematize the experience of the execution and extract lessons that will help to improve the formulation of future development projects.

There are two fundamental questions that have been considered to provide the inherent purpose of the SPVCD monitoring strategy.

Is SPVCD's hypothesis right?

It focuses on ensuring that the changes that were envisaged when the program was formulated are forth coming and being achieved. This question is based answered by the project's logical model. The M&E strategy is to put in place indicators that will be tracked. An impact evaluation framework that will be followed to test the hypothesis outlined is not in the logical model because this is not achievable during the life of the project. Section three will discuss the indicators.

Is SPVCD doing the right thing in a worthwhile way?

Mid-term and End of project evaluations have been put in place to assess how the project will have been implemented mid-way through the implementation and finally after all activities have been implemented. These issues are discussed in more detail in section five.

2.2 Guiding principles

SPVCD project M&E will be implemented through the following activities:

- + Ensuring that monitoring and evaluation functions are established and operating effectively
- Providing M&E data and information to assist the SPVCD project meet its informational needs and reporting for proper decision making
- + Undertaking specialized field monitoring and evaluation studies
- + Developing mechanisms for the feedback and dissemination of experiences
- Documentation of best practices and promoting learning

2.3 Audience

Each stakeholder/actor has different information needs. By determining the most common information needs we can select the best component to address those information needs through reporting. The following table presents an analysis of information needs for various actors/ stakeholders in SPVCD project.

Table 1: Audience and associated inform	nation needs
---	--------------

Audience	Level	Importance of the Framework to them
Smallholder pig producers	Local	Collect data that will help in improving productivity
		and income levels
Live pig traders, butchers, feed traders, and	Local	Understand the profitability of the hub and how to
their organizations.		entice other actors to stick with them
Service providers/ Business development		
Service Providers		Understand the viability of the hub, farmers needs so
The pig business hub/cooperative union		that they design products that suit their clients
Public (MAAIF, Ministry of Health and Local	District	Build capacity in pork slaughter and handling,
Government – Animal Production		Improved linkages with value chain actors, Effectively
department, NAADS, Uganda Bureau of		advocate for pork safety and quality assurance systems
Standards)		for inputs.
National policy makers in the livestock sub-	National	To provide evidence on the scope and potential of
sector, UBOS, NALLIRI, private sector		smallholder pig value chains on development. Provide
associations, and NGOs		strong advocacy for pro-poor smallholder pig value
		chain development
SPVCD project staff	National	Understand whether the project is viable so as to
	and Global	build a case of enticing other players to participate
Funders	National	See value-for-money of the intervention
	and Global	Potential funding opportunities
Private sector	National	Guiding investment decision and value for money
Research and learning institutions	National	Build evidence-base on pro-poor pig value chains thus
	and Global	facilitating research and learning

2.4 Key components of the plan

The SPVCD plan will include among many, four key components: logical framework, indicator framework, evaluation and the accompanying toolkit

3 Logical framework

3.1 Mission and Vision

Vision

Livestock and Fish CGIAR research program's vision for the Uganda Pig Value Chain is an efficient, all-inclusive and sustainable pig value chain for safe and affordable products contributing equitably to improved livelihoods in Uganda by 2023. This vision is based on indicative statements of what success would look like for key value chain actors as summarized below:

a)Poor pig value chain actors would want to:

i.earn sustainable and reliable income,

ii.be heard and be able to influence,

iii.be capable of producing, organizing, and marketing their pig products,

iv.access technical, marketing, and financial support, and

v.be connected to wider value chains.

b)Wider pig value chain system actors would want to have:

i.access to safe and high quality pork products,

ii.consistent and reliable supply and demand for pork products,

iii.legal policy arrangements that support contracts,

iv.reduced negative environmental impacts of pig production, and

v.lower transaction costs and increased coherence between chain segments.

c)Wider stakeholders including (development agents and researchers) would want to see:

i.high potential to consume pork products,

ii.high return on investment/ value for money in pig production, evidence of potential for the pig industry

The program will therefore meet the following goals:

a) Improved livelihoods, incomes, and assets of smallholder pig producers, especially the vulnerable, in a sustainable manner through increased productivity, reduced exposure to risk, improved market access, and lower associated negative environmental impacts.

b) Poor consumers have sustainable access to affordable, high quality, and safe pork and pork products.

3.2 Objectives

These aims are to be achieved through the proposed 2-year research-for-development project working with research and development partners to:

I. Develop, test and evaluate best-bet options on improved pig husbandry and manure management practices, swine health, breeding management and improved diets to strengthen the pig value chain through improved productivity and environmentally sustainable practices at the farm level.

2. Develop, test and evaluate best-bet options on sustainable organizational marketing mechanisms and waste management practices to strengthen the pig value chain through improved pork safety and better access to inputs, services and output markets.

3. Develop, test and evaluate best-bet options to increase utilization of edible pig parts and increase consumer awareness about benefits of consumption of animal source foods.

4. Inform policy to recognize and appropriately promote the role of pro-poor pig value chains in Uganda.

3.3 SPVCD Impact path ways-Adapted from ILRI Uganda achieves



4 Indicator framework

4.1 Indicators

In session one, the facilitator used power point slides to point out the fact that pigs are like humans who require a certain nutrient intake for

(i) Increased income levels of smallholder pig producers generated through innovations that improve productivity and enhance access to inputs, services and output markets.

(ii) Improved swine health for smallholder pig enterprises as a result of more resilient and face fewer risks associated with pig diseases, through innovations that enhance swine health.

(iii) Better nutrition of smallholder pig-producing households through greater consumption of a more diverse and nutritious diet.

(iv) Improved safety and nutritious pork products for a better quality diet for consumers through innovations that increase quantity and quality of pork supplied locally.

4.2 Indicator tracking sheet

Objective/	Indicators	Indic	Indicator	Unit of	Level of	Data	Data	Frequ	Responsibilit	Data	Who/H	Targets	Means of
Result		ator	definition	measure	disaggre	and	collecti	ency	у	analysis	ow	at	verification
		level			gation	data	on				data	project	(MV)
						source	method				will be	sites in	
											used	2 years	
Goal:	·Percent c	Impa	Mean pig	Uganda	HH	Small	Survey	Start	M&E	Cash	SPVD:	10%	M&EL
Improved	hange in	ct	productio	shillings	wealth	holder	of the	of the	specialist	income	Guage	income	framework
livelihoods	HH pig		n income		ranking	pig	small	proje	and the PI	from sale	project	increase	and tools,
for value	income		from all		and sex	value	holder	ct		of	impact	in the	baseline
chain	from		participati			chain	househ	and		pigs=averag	on the	pig	reports and
actors and	participatio		ng			househ	olds	after		e price per	liveliho	rearing	impact
better	n in pig		household			olds		five		pig	od of	househ	assessment
performan	value		s					and		multiplied	the	olds	reports
ce of	chain,							ten		by the	target		
smallholde								years		number	benefici		
r pig value										sold	aries		
chain	Participatin	Impa	The	Percent	Sex,	Small	Survey	Start	M&E	Cash	SPVD:	·At	· Impact
systems in	g farmers	ct	percentag		Type of	holder	of the	of the	specialist	income	Gauge	least	assessment
selected	living		e of SHFs		major	pig	small	proje	and the PI	from sale	project	2400	reports
areas in	below the		HHs		activity	value	holder	ct		of	impact	pig	
Uganda.	poverty		supported			chain	househ	and		pigs=averag	on the	produce	
	line		by SPVCD			househ	olds	after		e price per	liveliho	rs and	
			whose pig			olds		five		pig	od of	1000	
			income(or					and		multiplied	the	other	
			expenditu					ten		by the	target	value	
			re) is less					years		number	benefici	chain	
			than USD							sold and all	aries	actors	
			1.25							multiplied		reached	
										by 100%		•	

Objective/ Result	Indicators	Indic ator level	Indicator definition	Unit of measure	Level of disaggre gation	Data and data source	Data collecti on method	Frequ ency	Responsibilit y	Data analysis	Who/H ow data will be used	Targets at project sites in 2 years	Means of verification (MV)
Outcome I: Smallholde r pig producers generate more income through innovation s that improve productivit y and enhance access to inputs and services.	 Percenta ge increase in HH pig income 	out com e	Mean pig productio n income from all participati ng household s	Uganda shillings	HH wealth ranking and sex	Small holder pig value chain househ olds	Survey of the small holder househ olds	Start of the proje ct and annua Ily	M&E specialist and the PI	Cash income from sale of pigs=averag e price per pig multiplied by the number sold	SPVCD : Manage ment and annual reporti ng.	5%	Routine monitoring data and reports
	Percentage change in farm productivit y-Change in the Annual pork yield/carc ass weight per house	out com e	Annual pork yield/carca ss weight per house Annual pork yield/carca ss weight per household	Kilogram / househol d/ year	Sex, Type of major activity	Small holder pig value chain househ olds- Farmer records (Animal live	Survey of the small holder househ olds	Start of the proje ct and Annu ally	Pig hub/coopera tive union leaders and M&E specialist and the PI		Farmer: improv e on farm practice s Coop: know whethe r there are pigs	Increas e in pig product ivity by at least 5% in the project areas due to improve	Routine monitoring data and reports

Objective/	Indicators	Indic	Indicator	Unit of	Level of	Data	Data	Frequ	Responsibilit	Data	Who/H	Targets	Means of
Result		ator	definition	measure	disaggre	and	collecti	ency	у	analysis	ow	at	verification
		level			gation	data	on				data	project	(MV)
						source	method				will be	sites in	
											used	2 years	
	hold		closely			weight					sold to	d diets,	
			correlated			before					other	swine	
			with the			slaughte					traders;	health,	
			effective			r, age					know	good	
			amount of			of					farmers	manage	
			meat			animal					still	ment	
			produced			at					need	and	
			by each			slaughte					support	breedin	
			animal and			r (in	g	
			achieved			days),n					terms	practice	
			by specific			umber					of	s.	
			feeding			of					marketi		
			regime			slaughte					ng and		
			and			red					other		
			quality of			animals					services		
			husbandry)					Service		
			practices,			through					S		
			many of			surveys					provide		
			which will			and					rs:		
			include			disaggre					Know		
			those			gated					how		
			recomme			by					much		
			nded by			manage					to		
			the			ment					invest		
			program.			system (feeding					SPVCD		
						(feeding and					: Managa		
											Manage		
						husban					ment		
						dry					and		

Objective/ Result	Indicators	Indic ator level	Indicator definition	Unit of measure	Level of disaggre gation	Data and data source	Data collecti on method	Frequ ency	Responsibilit Y	Data analysis	Who/H ow data will be used	Targets at project sites in 2 years	Means of verification (MV)
						s)					annual reporti ng. Farmer: assess how much technol ogy can improv e product ivity Coop: know the kind of help to be provide d to farmers		

Objective/	Indicators	Indic	Indicator	Unit of	Level of	Data	Data	Frequ	Responsibilit	Data	Who/H	Targets	Means	of
Result		ator	definition	measure	disaggre	and	collecti	ency	у	analysis	ow	at	verificati	on
		level			gation	data	on				data	project	(MV)	
						source	method				will be	sites in		
											used	2 years		
	Farmers	out	Proportio	Number	Sex of	Count	Survey	Start	M&E	Increase	Farmer:	20%	Routine	
	adopting	com	n of target	of	househ	Respon	and	of the	specialist	compared	assess		moniroti	ng
	productivit	e	producers	technolo	old	dent,	Qualitat	proje	and the PI	to baseline	how		data	and
	У		applying	gies	head	НН	ive	ct		Proportion:	much		reports	
	enhancing		new or	Number	and	Survey(intervie	and		Number of	technol			
	technologi		improved	of	type of	Farm	ws	annua		target	ogy can			
	es and pig		technologi	farmers	technol	and		lly		producers	improv			
	manageme		es and	accessin	ogy and	househ				applying	е			
	nts		manageme	g each of	manage	old				new or	product			
	practices-		nt	the	ment	Knowle				improved	ivity			
	% of		practices,	technogi	practice	dge				technology				
	farmers		and the	es.	S	Attitud				and	Соор:			
	who used		extent of	Or		e and				managemen	know			
	specific		use by	Proporti		Practice				t practices.	the			
	set of		target	on:		(KAP)					kind of			
	technolog		producers	Expresse		surveys					help to			
	ies as per		. Key	d in		and					be			
	the		livestock	percenta		possibly					provide			
	agreed		technologi	ge of		service					d to			
	threshold		es relate	total		provide					farmers			
	þer year		to: I)Feed	target		r								
			and	produce		surveys					SPVCD			
			feeding, 2)	rs)					:			
			Animal	(e.g.perc		Reports					Manage			
			health, 3)	entage		from					ment			
			breeding,	of		cooper					and .			
			4) Output	farmers		atives					annual			
			quality	using		and					reporti			
			manageme	improve		service					ng			

Objective/ Result	Indicators	Indic ator level	Indicator definition	Unit of measure	Level of disaggre gation	Data and data source	Data collecti on method	Frequ ency	Responsibilit y	Data analysis	Who/H ow data will be used	Targets at project sites in 2 years	Means of verification (MV)
			nt.	d boar breeding services) related to new or improve d technolo gy or manage ment practice.		provide rs							
	Farmers are organized and strengthen ed to access cost effective BDS services through the pig business hub-% of farmers who access	out com e	Productivi ty enhancing services: I.Access to, and use of, technolog y and inputs related to livestock health, breeding, feeding, and	Number of farmers accessin g the BDS services by gender Number of services available at the hub	Sex, Type of BDS services available	Count Respon dent, Reports from cooper atives and service provide rs (i) have a service or technol	Survey and qualitati ve studies	Semi- Annu al	M&E specialist and the Pl	Increase compared to baseline	Coop: know the kind of help to be provide d to farmers SPVCD : Manage ment and annual	50%	Routine monitoring data and reports

Objective/	Indicators	Indic	Indicator	Unit of	Level of	Data	Data	Frequ	Responsibilit	Data	Who/H	Targets	Means of
Result		ator	definition	measure	disaggre	and	collecti	ency	у	analysis	ow	at	verification
		level			gation	data	on				data	project	(MV)
						source	method				will be	sites in	
											used	2 years	
	BDS		manageme			ogy					reporti		
	services on		nt by	Number		availabl					ng		
	check off or		gender	of		e and							
	cash		disaggrega	MOUs		(ii) are							
			tion	signed		using a							
			2.Access	between		given							
			to, and	the		technol							
			use of,	service		ogy or							
			services	provide		service.							
			such as	and the Coop		Informa							
			extension,	Соор		tion on commu							
			training, informatio			nity							
			n and			group							
			finance,			membe							
			and public			rship							
			services			may							
			and			also							
			membersh			provide							
			ip in			valuable							
			groups by			data for							
			gender			this							
			disaggrega			indicato							
			tion			r.							
			3.Member										
			ship of										
			groups by										
			gender										
			disaggrega										

Objective/ Result	Indicators	Indic ator level	Indicator definition	Unit of measure	Level of disaggre gation	Data and data source	Data collecti on method	Frequ ency	Responsibilit y	Data analysis	Who/H ow data will be used	Targets at project sites in 2 years	Means of verification (MV)
			tion										
	Increased number women participatio n in the pig value chain- household and Hub	out com e	Women engaging in various value chain activities (transport ation, productio n, trade, input and service provision and control of productiv e assets	Number s and percent	Sex, househ old type	Count, HH Survey Cooper ative union data	Survey and qualitati ve studies	Start of the proje ct, after six mont hs and end of proje ct	M&E specialist, Gender focal person and the PI	Trends, incentives for women participatio n (differentiat ed by value chain activity and by tradeoff between types of leadership)	Coop: Inform future training s Coop leaders hip: Review Gender related instituti ons: policy formula tion	5% Increase	Routine monitoring data and reports

Objective/	Indicators	Indic	Indicator	Unit of	Level of	Data	Data	Frequ	Responsibilit	Data	Who/H	Targets	Means of
Result		ator	definition	measure	disaggre	and	collecti	ency	у	analysis	ow	at	verification
		level			gation	data	on				data	project	(MV)
						source	method				will be	sites in	
											used	2 years	
			and								and		
			benefits)-								advocac		
			% of								у		
			women										
			actively								SPVCD		
			participa								:		
			ting in								Manage		
			the pig								ment		
			value								and		
			chain with								annual		
											reporti		
			respect to the								ng. Inform		
			total								progra		
			number								mming		
			of								on		
			persons.								future		
			Women's								use of		
			decision								these		
			making								practice		
			on use of								s.		
			technolo										
			gy inputs										
			Increased										
			women										
			sharehold										
			ers at										
			Соор										
			level										

Objective/	Indicators	Indic	Indicator	Unit of	Level of	Data	Data	Frequ	Responsibilit	Data	Who/H	Targets	Means of
Result		ator	definition	measure	disaggre	and	collecti	ency	у	analysis	ow	at	verification
		level			gation	data	on				data	project	(MV)
						source	method				will be	sites in	
											used	2 years	
	increase	out	Pigs	Number	Pig		Survey	Semi-	M&E		Coop:	5%	Routine
	production	com	supply to		types,	Respon	and	Annu	specialist,		know	Increase	monitoring
	and	е	the		type of	dent,	qualitati	al	Gender		the		data and
	expanding		market-		supply	Reports	ve		focal person		kind of		reports
	Pig		ownership		contract	from	studies		and the PI		help to		
	markets		indirectly		S,	cooper					be		
	and		implied			atives					provide		
	increasing		and sales			and					d to		
	market		Supply			service					farmers		
	and		contracts			provide							
	employme		with pig			rs					Coop:		
	nt-		traders			Numbe					know		
	Increased		MOUs			r of					the		
	quantity		signed			pigs					profitab		
	and		with			supplie					ility of		
	improved		service			d to the					the hub		
	quality of		providers			market-					and		
	pork		No of			owners					percent		
	supplied		farmers			hip					age		
	from the		using such			indirect					contrib		
	target		transport			ly					ution		
	small-scale		services			implied					to		
	production		Number			Numbe					househ		
	and		of farmers			r of					old		
	marketing		accessing			pigs					income		
	systems;		market			sold							
			informatio			Numbe							
			n			r of					SPVCD		
			Pig			supply					:		

Objective/	Indicators	Indic	Indicator	Unit of	Level of	Data	Data	Frequ	Responsibilit	Data	Who/H	Targets	Means of	F
Result		ator	definition	measure	disaggre	and	collecti	ency	у	analysis	ow	at	verification	
		level			gation	data	on				data	project	(MV)	
						source	method				will be	sites in		
											used	2 years		
			collection			contrac					Manage			
			centers at			ts with					ment			
			the hub			pig					and			
			Number			traders					annual			
			of			No of					reporti			
			slaughter			MOUs					ng.			
			slab			signed								
			Number			with								
			Pig			traders								
			weighing			No of								
			scales at			transpo								
			collection			rters								
			centers			with								
			Number			MOUs.								
			of new			No of								
			pig/pork			farmers								
			transport			using								
			practices			such								
			Proportio			transpo								
			n of			rt								
			women			services								
			who make			Numbe								
			decisions			r of								
			on sale of			farmers								
			pigs/pork			accessi								
			Proportio			ng								
			n of			market								
			women			informa								
			who make			tion								

Result ator definition measure disaggre and collecti ency y analysis ow ator data proj level level definition measure disaggre and collecti on on data on data proj will be sites source method nethod	in
source method will be used sites decisions Mumbe Numbe Image: Source Image	in
Image: Constraint of the second se	
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income collecti	
from pig on	
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r of	
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pig/por	
transpo rt	
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Proport	
ion of	
women	

Objective/ Result	Indicators	Indic ator level	Indicator definition	Unit of measure	Level of disaggre gation	Data and data source	Data collecti on method	Frequ ency	Responsibilit Y	Data analysis	Who/H ow data will be used	Targets at project sites in 2 years	Means of verification (MV)
						who make decisio ns on sale of pigs/por k Proport ion of women who make decisio ns on use of income from pig sales							

Objective/	Indicators	Indic	Indicator	Unit of	Level of	Data	Data	Frequ	Responsibilit	Data	Who/H	Targets	Means	of
Result		ator	definition	measure	disaggre	and	collecti	ency	У	analysis	ow	at	verification	
		level			gation	data	on				data	project	(MV)	
						source	method				will be used	sites in 2 years		
	Increased		Net pig	Index	sex,	Farmer	Surveys	Annu	M&E	Increase	Coop:	5%		
	net pig		income is		househ	records	and	ally	specialist,	compared	know	increase		
	income for		any		old type		qualitati	,	Gender	to baseline	the			
	producers/		revenue			The	ve		focal person	Trend	kind of			
	farmers		generated			cooper	studies		and the PI	compared	help to			
			from the			ative				to the	be			
			following			reports				preceding	provide			
			items:							year (this	d to			
			pork; Live							will be	farmers			
			pigs.							disaggregat ed	Соор:			
										according	know			
										to source	the			
										and	profitab			
										gender)	ility of			
											the hub			
											and			
											percent			
											age			
											contrib ution			
											to			
											househ			
											old			
											income			
											SPVCD			
											:			

Objective/	Indicators	Indic	Indicator	Unit of	Level of	Data	Data	Frequ	Responsibilit	Data	Who/H	Targets	Means	of
Result		ator level	definition	measure	disaggre	and data	collecti	ency	У	analysis	ow	at	verification (MV)	
		level			gation		on method				data will be	project sites in	(111)	
						source	method				used	2 years		
											Manage	2 years		
											ment			
											and			
											annual			
											reporti			
											ng.			
						-	A 11					50/		
	Increase in	out	This is the	Number	Sex,	Farmer	Qualitat	Start	Pig	Increase	Coop:	5%		
	number of	com	total	s	househ	records	ive	of the	hub/coopera	compared	know	increase		
	pigs reared	е	number of		old type	The	studies	proje	tive union leaders	to baseline	the kind of			
	at household		pigs reared in					ct, after	leaders	Compare	help to			
	level-					cooper ative		six	Hub	numbers at	be			
	Change in		a given time			reports		mont	manager	household	provide			
	the		period.			reports		h and	manager	level(produ	d to			
	average		period.					end		ction)to	farmers			
	number of							of		the what is				
	pigs							proje		delivered	Coop:			
	reared per							ct		to the hub	know			
	household										the			
	, Number									Trend	profitab			
	of pig sold									compared	ility of			
	to the									to the	the hub			
	hub,									preceding	and			
	Number									year	percent			

Objective/	Indicators	Indic	Indicator	Unit of	Level of	Data	Data	Frequ	Responsibilit	Data	Who/H	Targets	Means of
Result		ator	definition	measure	disaggre	and	collecti	ency	У	analysis	ow	at	verification
		level			gation	data	on				data	project	(MV)
						source	method				will be	sites in	
											used	2 years	
	of pigs										age		
	sold to										contrib		
	other traders										ution		
	traders										to househ		
											old		
											income		
											lincome		
											SPVCD		
											:		
											Manage		
											ment		
											and		
											annual		
											reporti		
						-	-		-		ng.		
	Pig farmers	out	Active:	Number	Individu	Count,	Survey	Start	Business	Annual	Coop:		
	are active	com	Farmers	of active	al	Соор	and	of the	Advisors/Co	Quarter	manage		
	members	e	supplying	farmers	(Note: a	Record	qualitati	proje	ntracted	target	ment		
	of the		pigs to hub at	by	single	s.	ve studies	ct, after	partner will collect from	achievemen	decisio		
	Cooperati ve		hub at least	gender who are	househ old can		studies	six	Coop	t	ns		
	ve Union/Hub		three	member	have			mont	records Are	% of active,	Соор		
			times/year	s of the	multiple	Соор		h and	you going to	non-active	leaders		
			or access	Соор	member	records		end	hire	members	hip:		
			inputs/ser	Number	s)	and		of	Business		Review		
			vices or	of	-/	Service		proje	Advisors??	Disaggregat			
			accessing	farmers		Provide		ct		ed gender	SPVCD		

Objective/	Indicators	Indic	Indicator	Unit of	Level of	Data	Data	Frequ	Responsibilit	Data	Who/H	Targets	Means of
Result		ator level	definition	measure	disaggre gation	and data	collecti on	ency	У	analysis	ow data	at project	verification (MV)
					Sacion	source	method				will be	sites in	()
											used	2 years	
			inputs	by		r				and age	:		
			once in	gender		reports.			Hub		Manage		
			every	who					management		ment		
			quarter	access					Staff		and .		
			D'-	BDS at							annual		
			Pig farmers	the hub.							reporti		
			accessing	The							ng		
			Business	numbers									
			developm	of									
			ent	services									
			Services										
			at the hub										
			on credit										
			or Cash										
			Services										
			accessed on check										
			off										
			system.										
			5/000111										
			Contracts										
			signed										
			between										
			service										
			providers										
			and the										

Objective/ Result	Indicators	Indic ator level	Indicator definition	Unit of measure	Level of disaggre gation	Data and data source	Data collecti on method	Frequ ency	Responsibilit y	Data analysis	Who/H ow data will be used	Targets at project sites in 2 years	Means of verification (MV)
			cooperati ve.										
	Increased social capital at farmer level-% of farmers who are full shareholder s	out com e	Social capital: shareholdi ngs in the hub	Number of persons by sex	Sex	Coop records	Qualitat ive studies	Start of the proje ct, after six mont h and end of proje ct	Pig hub/coopera tive union leaders	Increase compared to baseline Trend compared to the preceding year	Coop: assessin g how much the hub is owned by the commu nity SPVCD : assessin g how much the hub		

Objective/ Result	Indicators	Indic ator level	Indicator definition	Unit of measure	Level of disaggre gation	Data and data source	Data collecti on method	Frequ ency	Responsibilit y	Data analysis	Who/H ow data will be	Targets at project sites in	Means of verification (MV)
						source	metrod				used	2 years	
											is		
											owned by the		
											commu		
											nity;		
											writing		
											of		
											annual		
											report		
Outcome	.Reduction	outc	Percenta	Percent	Sex,	Small	Survey	Start	M&E			•	
2:	in	ome	ge		Type of	holder	and	of the	specialist			Reduce	
Smallholde	exposure		reduction		major	pig	qualitati	proje	and the PI			d pig	
r pig	to		Pig		activity	value	ve	ct,				mortalit	
producers	zoonotic		mortality			chain hausah	studies	after				y rate	
face fewer risks	diseases within the		rate			househ olds	of the small	six mont				by at least	
associated	value chain						holder	h and				6%.	
with pig							househ	end				070.	
diseases,							olds	of					
through								proje					
innovation								ct					
s that													
enhance													
pig health.													

Objective/	Indicators	Indic	Indicator	Unit of	Level of	Data	Data	Frequ	Responsibilit	Data	Who/H	Targets	Means of
Result		ator	definition	measure	disaggre	and	collecti	ency	у	analysis	ow	at	verification
		level			gation	data	on				data	project	(MV)
						source	method				will be	sites in	
											used	2 years	
	· Exposure	out	Percenta	Percent	Sex	Small	Survey	Start	M&E			·Decrea	Routine
	to	com	ge			holder	of the	of the	specialist			se in	monitoring
	zoonotic	е	decrease			pig	small	proje	and the PI			exposur	data and
	diseases at		in			value	holder	ct,				e to	reports
	consumpti		exposure			chain	househ	after				zoonoti	
	on node.		to			househ	olds	six				с	
			zoonotic			olds		mont				diseases	
			diseases					h and				by at	
								end				least	
								of				5%.	
								proje					
								ct					
	.Increased	out	.Percentag	Percent	sex	Smallho	Survey		M&E			·Decrea	Routine
	knowledge	com	е			lder	of the		specialist			se in	monitoring
	on Bio-	е	individual			farming	small		and the PI			exposur	data and
	security		farmer			househ	holder					e to	reports
	control of		knowledg			olds	househ					zoonoti	
	ASF and		e level			and	olds and					с	
	other pig		increase			other	other					diseases	
	diseases					value	actors					by at	
						chains						least	
						actors						5%.	
Out	Percentag	outc	Increase	Percent	Househ	Small	Survey	Start	M&E				
come 3:	e change in	ome	in 		old type	holder	of the	of the	specialist				
Smallholde	HH dietary		household			Pig	small	proje	and the PI				
r pig	diversity.		dietary			value	holder	ct,					
producers			diversity			chain	househ	after					
have			by at least			househ	olds	six					
better			one food			olds		mont					

Objective/ Result	Indicators	Indic ator level	Indicator definition	Unit of measure	Level of disaggre gation	Data and data source	Data collecti on method	Frequ ency	Responsibilit y	Data analysis	Who/H ow data will be used	Targets at project sites in 2 years	Means of verification (MV)
nutrition through greater consumpti on of safe pork products and nutritious foods.			group in at least 50% of the target farmers.					h and end of proje ct					
	Percentage degree of safety and level of nutrition of pork products	out com e	Percentag e increase in the consumpti on of safe pork; Number of new pork safety innovation s	Number and Percent	Househ old type	Small holder pig value chain househ olds	Survey of the small holder househ olds	Start of the proje ct, after six mont h and end of proje ct	M&E specialist and the Pl			increas e in the consum ption of safe pork by at least 5%	
Out come 4: Pig value chain actors generate more income through higher capacity and better	Percentage increased in income for all value chain actors;	out come	 Percentage change in HH pig income from participation in pig value chain, 	Uganda shillings	Actor HH wealth ranking and sex	Small holder pig value chain househol ds and other actors along the	Survey of the small holder household s and other actors	Start of the project , after six month and end of project	M&E specialist and the PI	Cash income from sale of pigs=average price per pig multiplied by the number sold	SPVCD: Managem ent and annual reporting.	5%	Routine monitoring data and reports

Objective/ Result	Indicators	Indic ator level	Indicator definition	Unit of measure	Level of disaggre gation	Data and data source	Data collecti on method	Frequ ency	Responsibilit y	Data analysis	Who/H ow data will be used	Targets at project sites in 2 years	Means of verification (MV)
market linkages						chain							
Out come 4.1 Improved capacity of the pig business hub to respond to the needs of the smallholder farmers	Number of Services provided by the hub	out come	Number of Services provided by the hub of FOs scoring more than the median of its comparable type	Number	Hub, Business type and sex	Hubs	Hub capacity assessmen t survey	Start of the project and end of project	Hub and M&E specialist and PI				
	Targeted SHFs reporting improvement in services offered by hubs	Outco me	Percentage rating of services offered by the Hub	Percent	Sex, type of services	Small holder Househol ds	Member profile	Start of the project , after six month and end of project	M&E specialist and Pl				
	Cooperative union/hub with increased membership	out come	Number of FOs targeted by SPVCD whose membership has increased between 25 and 50% within 2 years	Number	Type of hub, Age, Sex	Cooperat ive union level	Cooperati ve union profiles	Start of the project , after six month and end of project	Pig hub/cooperativ e union leaders				

Objective/ Result	Indicators	Indic ator level	Indicator definition	Unit of measure	Level of disaggre gation	Data and data source	Data collecti on method	Frequ ency	Responsibilit Y	Data analysis	Who/H ow data will be used	Targets at project sites in 2 years	Means of verification (MV)
	Increased number of farmers and hub executive whose capacities are built on business management	Out come	Proportion by gender	Percent	Sex and capacity building for specific subject areas	Cooperat ive union actors: Profile, agribusine ss skills and employm ent	Survey	Start of the project , after six month and end of project	Enterprise Uganda and ILRI tea,				Data and reports
	Improved coop/hub profitability	Out come	Breakeven is the point at which sales exactly cover expenses (sales = costs) Cash flow positive is when the movement of money into the business is greater that the outflow of money (cash in > cash out)	Number of Coops breaking even for at least 6 months Number of Coops with positive cash flows for at least 6 months	Cooperati ve union	Expenditu res and revenues	Count Income statement and Cash flow statement Balance sheets Records review	Start of the project and Annuall y	Business Advisors/Contr acted partners/ILRI agric. Economist	Financial ratios	To assess hub profitabili ty To guide investme nt decisions		Routine monitoring data and report
Outcome 4.2 Enhanced linkage to structured markets by the cooperative	New market linkages established	out come	The number of new markets procuring from coop	Number	Area, coop, market	Cooperat ive union level; profile of customer s	Cooperati ve union records	Start of the project , after six month and	Pig hub/cooperativ e union leaders				

Objective/ Result	Indicators	Indic ator level	Indicator definition	Unit of measure	Level of disaggre gation	Data and data source	Data collecti on method	Frequ ency	Responsibilit Y	Data analysis	Who/H ow data will be used	Targets at project sites in 2 years	Means of verification (MV)
union								end of project					
	Number of farmers sourcing pigs to the Cooperative union	out come	Number of farmers sourcing to the cooperative union	Number	sex, household type	Smallhold er farmers	Cooperati ve union records	Start of the project , after six month and end of project	Pig hub/cooperativ e union leaders				
	Quantity of pork sold to or through the cooperative union	out come	Quantity of pork or pigs sold to or through the cooperative union	Kilogram/ household/ year	sex, household type	Cooperat ive union records (Animal live weight before slaughter, age of animal at slaughter (days),num ber of slaughter ed animals) through surveys and	Cooperati ve union records	Start of the project , after six month and end of project	Pig hub/cooperativ e union leaders and M&E specialist and the PI				Routine monitoring data and reports

Objective/ Result	Indicators	Indic ator level	Indicator definition	Unit of measure	Level of disaggre gation	Data and data source	Data collecti on method	Frequ ency	Responsibilit y	Data analysis	Who/H ow data will be used	Targets at project sites in 2 years	Means of verification (MV)
	pigs sold to or through the cooperative union	out come	Number pigs sold to or through the cooperative union	Number/ household/ year	Sex, household type	Cooperat ive union records No. of live pigs sold to or through the cooperati ve society	Cooperati ve society records	Start of the project , after six month and end of project	PI and M&E Specialist				
	Level of capacity development for market actors	Out come	Proportion by gender	Percent	Sex and capacity building for specific subject areas per actor	Cooperat ive union actors: Profile, agribusine ss skills and employm ent	Survey	Start of the project , after six month and end of project	Enterprise Uganda and ILRI tea,				Data and reports
Out come 5: Consumers benefit from safe and nutritious pork products through innovations that increase quantity and quality of pork consumed.	 Number of consumers benefit from safe and nutritious pork products through innovations that increase quantity and quality of pork consumed. 	out come	Number of consumers by sex who benefit from safe and nutritious pork products through innovations that increase quantity and quality of pork	Number	Sex. Area/locat ion	Pork consumer s, Traders operating pork joints	Port trader/joi nt records/sl aughter abattoir	Start of the project , after six month and end of project	PI and M&E Specialist				Routine monitoring data and reports

Objective/	Indicators	Indic	Indicator	Unit of	Level of	Data	Data	Frequ	Responsibilit	Data	Who/H	Targets	Means of
Result		ator	definition	measure	disaggre	and	collecti	ency	y .	analysis	ow	at	verification
		level			gation	data	on		· ·		data	project	(MV)
					0	source	method				will be	sites in	
						- Source	lineariou				used	2 years	
Outcome	· New	out	Number of	Number			ILRI	Start of	Value chain			2 / Cu. 5	Routine
6: Policies	policies or	come	new policies				partners	the	coordinator				monitoring data
that are	regulations		or					project					and reports
favorable for	for marketing		regulations					and					
development	and		for					after					
of the	development		marketing					five and					
smallholder	of pork		and					ten					
pig value	products		development					years					
chain are in			of pork										
place.			products										
								ent practic	es, swine health, b	reeding manage	ment and im	proved diets	o strengthen the
pig value chai	n through impro	ved produ	uctivity and envi	ronmentally s	ustainable pr	actices at th	e farm level.						
Output 1.1:	· Strategy for	Out	Number of	Number				Start of	PI and M&E			A	· Strategy paper
A strategy	site	put	sites					the	Specialist			strategies	and a project
developed	identification.		identified;					project				developed	report
for			No of					, after					
identification			consultative					six					
of sites, value			meetings					month					
chain actors			with					and					
/partners and			partners and					end of					
ex-ante			value chain					project					
assessments			actors										
of best-bet													
options for													
pilot testing.													
	 Partnership 	Out	Number of	Number				Start of	PI and M&E			Partner	Partner strategy
	strategy	put	partners					the	Specialist			strategy	report,
	developed.		identified					project				developed	Partnership
			and with					, after					agreements;
			MOUs					six					Partnership
			signed; No					month					briefs
			of meetings					and					
			with					end of					
			partners and					project					
			value chain										
			actors			1		1				1	

Objective/ Result	Indicators	Indic ator level	Indicator definition	Unit of measure	Level of disaggre gation	Data and data source	Data collecti on method	Frequ ency	Responsibilit y	Data analysis	Who/H ow data will be used	Targets at project sites in 2 years	Means of verification (MV)
	 No. of best bet interventions that meet best bet criteria, disaggregated by type of technology 	Out put	Number of best bets selected	Number				Start of the project , after six month and end of project	PI and M&E Specialist				Case studies
	No. of ex- ante assessments for different best-bets	Out put	Number of ex-ante assessment for different best-bets	Number				Start of the project , after six month and end of project	PI and M&E Specialist			• At least 2 ex ante assessmen ts	• Toolkit for ex-ante assessments;
		Out put	Number of cost-benefit assessments	Number				Start of the project , after six month and end of project	Pl and M&E Specialist				
Output 1.2: An integrated strategy developed for improved swine health, especially with respect to priority	Integrated pig health strategy developed	Out put	No. of studies focusing on adoption of biosecurity practices at the farm level.	Number				Start of the project , after six month and end of project	Pl and M&E Specialist			 At least 3 integrated strategies covering pig husbandry , biosecurit 	 Strategy paper, routine monitoring data

Objective/ Result	Indicators	Indic ator level	Indicator definition	Unit of measure	Level of disaggre gation	Data and data	Data collecti on	Frequ ency	Responsibilit y	Data analysis	Who/H ow data	Targets at project	Means of verification (MV)
						source	method				will be used	sites in 2 years	
diseases, that addresses biosecurity through improved husbandry and manure management practices on- farm.	Curricula	Out	Modules	Number				Start of	PI and M&E			y measures and manure managem ent tested; At least 3 models for informatio n delivery tested. · V alidated package of improved biosecurit y measures, improved managem ent and rapid diagnostic tests	· Extension
	module developed on different models of delivery of information, product and services to improve prevention	put	developed on different models of dietary information	Number				the project , after six month and end of project	Specialist			Validated model for delivery	factsheets translated into local language

Objective/ Result	Indicators	Indic ator level	Indicator definition	Unit of measure	Level of disaggre gation	Data and data source	Data collecti on method	Frequ ency	Responsibilit y	Data analysis	Who/H ow data will be used	Targets at project sites in 2 years	Means of verification (MV)
	and control of priority diseases and pig-related zoonosis.												
	No. of models tested for delivery of information, product and services to improve prevention and control of disease	Out put		Number				Start of the project , after six month and end of project	PI and M&E Specialist				
Output 1.3: Diets for pigs formulated using locally available feed resources and labor- saving technologies for forage harvesting and feed conservation to address gender related time constraints.	• Number of pig diets formulated that meet local feed composition and address women's time constraints	Out put		Number				Start of the project , after six month and end of project	PI and M&E Specialist			 At least 4 balanced pig diets developed , 2 labor saving technologi es for harvesting and feed conservati on. 	 Project reports · Scientifi papers, Extension factsheets translated into local language
	• No. of gendered labor saving	Out put		Number				Start of the project	PI and M&E Specialist			Validated package of	

Objective/ Result	Indicators	Indic ator level	Indicator definition	Unit of measure	Level of disaggre gation	Data and data source	Data collecti on method	Frequ ency	Responsibilit y	Data analysis	Who/H ow data will be	Targets at project sites in	Means of verification (MV)
	technologies for harvesting and feed conservation tested							, after six month and end of project			used	2 years improved feeding practices	
	No. of models of delivery of information, product and services to improve pig nutrition	Out put		Number				Start of the project , after six month and end of project	Pl and M&E Specialist				
	 Curricula module development for training package 	Out put	Modules developed on different diets for pigs formulated using locally available feed resources and labor- saving technologies for forage harvesting and feed conservation	Number				Start of the project , after six month and end of project	Pl and M&E Specialist				
Output 1.4: Strategies for improved breeding management practices	 No. of studies focusing on breeding management practices and 	Out put	No. of sites identified having proven sires	Number				Start of the project , after six month	PI and M&E Specialist			· 2 studies focusing on pig breeding managem	· Project reports, Scientific papers

Objective/	Indicators	Indic	Indicator	Unit of	Level of	Data	Data	Frequ	Responsibilit	Data	Who/H	Targets	Means of
Result		ator	definition	measure	disaggre	and	collecti	ency	y .	analysis	ow	at	verification
		level			gation	data	on	,			data	project	(MV)
					0	source	method				will be	sites in	
						source	method				used	2 years	
associated with the selection and use of village boars developed	selection of proven sires Semen Supply e.g. DEVENISH NUTRITION, KCCA farm,PPM							and end of project			used	ent- Strategy for village boar selection and sexually transmitte d disease managem ent practices	
												developed	
	·No. of	Out		Number				Start of	PI and M&E				· Strategy
	models for	put						the	Specialist				paper
	delivery of							project					
	information							, after					
	on identification							six					
	identification							month					
	of best models for							and end of					
	scaling out.		·No. of	Number				project	PI and M&E				· Toolkit
Output 1.5:	Assessment	Out		Number				Start of				Methodol	
Generation of evidence	methodology for	put	studies					the	Specialist				for assessment
			focusing on IMO					project , after				ogy validated,	
on the performance	greenhouse gas emissions		technology					, alter six				Validated, Validated	
and	developed		and pig feed					month				package of	
economic	developed		efficiency					and				IMO	
feasibility of			under the					end of				technolog	
indigenous			technology.					project				y	
microorganis			CCIII0087.					Project				/	
ms (IMO)													
technology													
to minimize													
negative													

Objective/ Result	Indicators	Indic ator level	Indicator definition	Unit of measure	Level of disaggre gation	Data and data source	Data collecti on method	Frequ ency	Responsibilit y	Data analysis	Who/H ow data will be used	Targets at project sites in 2 years	Means of verification (MV)
environment al effects associated with smallholder pig production.													
	No. of models for delivery of information identification of best models for scaling out.	Out put		Number				Start of the project , after six month and end of project	PI and M&E Specialist				Assessment report
Output 1.6: A gendered- assessment of performance of the improved pig productivity best bet options (outputs 1.2 – 1.5) that incorporate the best-bet options for animal health, feeding, breeding and manure management	 No. of best bests that are socially acceptable, affordable by pig producers and minimizing negative environmenta l effects associated with poor manure management Animal health biosecurity tools engendered 	Out put		Number				Start of the project , after six month and end of project	PI and M&E Specialist			Lessons document ed on performa nce of the productio n best- bets	• Assessment reports(Develop ment of a gendered assessment methodology)

Objective/ Result	Indicators	Indic ator level	Indicator definition	Unit of measure	Level of disaggre gation	Data and data source	Data collecti on method	Frequ ency	Responsibilit y	Data analysis	Who/H ow data will be used	Targets at project sites in 2 years	Means of verification (MV)
and effectiveness of partnership developed.													
1.6.2 Assessment of the effect of the production related best- bet options on the human nutrition indicators such as dietary diversity to further inform development of nutrition interventions.	 No of gendered assessments on performance of the production best bets focusing on productivity indicators (mortality rate, kg of pork produced/ani mal/year) 	Out put		Number				Start of the project , after six month and end of project	Pl and M&E Specialist				· Survey data
	 No of studies on linkages between pig productivity interventions, income and household diet diversity. 	Out put		Number				Start of the project , after six month and end of project	PI and M&E Specialist				

Objective/	Indicators	Indic	Indicator	Unit of	Level of	Data	Data	Frequ	Responsibilit	Data	Who/H	Targets	Means of
Result		ator	definition	measure	disaggre	and	collecti	ency	y	analysis	ow	at	verification
		level			gation	data	on				data	project	(MV)
					Ū	source	method				will be	sites in	
											used	2 years	
Output 1.7: Capacity development of national and local value chain actors for effective operationaliz ation and	· Capacity development strategy of national and local value chain actors for effective operationaliza tion and larger scale	Out put	No of people trained disaggregate d by actor type, level and gender smallholder farmer groups on	Number of trainings; Number of people trained; Number of best bet delivery models	Sex, actor and location/a rea			Start of the project , after six month and end of project	PI and M&E Specialist			Strategy developed ; 20 small scale feed manufactu rers trained on feed mixing in each	Project monitoring data, meeting reports. Project reports, Partner reports, Extension tools; Routine monitoring data showing activities,
larger scale pilots of the production best bets this are the extension manuals	pilots of the production best bets developed, including delivery models		best management practices in pig production; No. of input and service providers on provision of quality inputs and services whose capacity was build; No of best bets delivery models									project site. At least 25% of pig farmers in the project sites involved in various levels of training. · At least 20 extension staff and veterinary officers trained in each target site. At least 2 MSc students	training and participation, Training manuals translated into local language; · Group training reports

Objective/	Indicators	Indic	Indicator	Unit of	Level of	Data	Data	Frequ	Responsibilit	Data	Who/H	Targets	Means of
Result		ator	definition	measure	disaggre	and	collecti	ency	y	analysis	ow	at	verification
		level			gation	data	on				data	project	(MV)
					J	source	method				will be	sites in	
						- Source	lineenou				used	2 years	
Objective 2:	 Develop_test_ar	d evaluat	e best-bet ont	ions on sustai	inable organi	zational ma	rketing mech	anisms an	d waste manager	nent practices			e chain through
•	k safety and bett		-		-		-		-	nene praetices	to strengthen	the pig value	
Output 2.1:	· · · ·	Out	No of	Number								· At	Strategy/discussi
Strategy for	Strategy for	put	business									least 4 pig	on paper
establishing	pig business	F	hubs									business	- 1.1.
sustainable	hubs		established;									hubs	
and well-	developed		No of									tested in	
organized pig	-		consultative									the	
business hubs			meetings									project	
delivering			with									area with	
demand-led			partners and									members	
inputs and			stakeholders									hip of	
services			; No of									about 100	
developed to			actors									members	
improve			involved									each of	
access to												which at	
quality inputs,												least 40%	
services and												are	
output												women	
markets.	· Stakeholder	Out	No of	Number			-						
			studies	Number								· At least 3	Register of members.
	assessment and SWOT	put	studies									business	project reports,
	analysis of											developm	Scientific papers,
	existing hub-											ent	Case studies
	type											service	Case studies
	arrangements											providers	
	and lessons											operating	
	learnt											at each	
	documented;											hub,	
												Stakehold	
												er	
												assessmen	
												t strategy	

Objective/	Indicators	Indic	Indicator	Unit of	Level of	Data	Data	Frequ	Responsibilit	Data	Who/H	Targets	Means of
Result		ator	definition	measure	disaggre	and	collecti	ency	y	analysis	ow	at	verification
		level			gation	data	on		· ·		data	project	(MV)
					0	source	method				will be	sites in	
						source	method						
											used	2 years	
	No. of pig	Out	No. of pig										
	hubs tested	put	hubs tested										
Output 2.2:	Capacity	Out	Capacity	·No. of		type,						•	· Project
Capacity	building	put	building	trainings		actor and						Strategy	monitoring data,
development	strategy(ident		strategy(iden			sex						developed	Meeting reports.
of business	ifying capacity		tifying									, At least	Project reports,
groups	gaps and the		capacity gaps									5 farmer	Partner reports.
(women,	how) for the		and the									and	Extension
farmer and	business		how) for the									women	materials; ·Traini
trader	hubs; No. of		business									groups	ng manuals
groups),	people		hubs; No. of									and trader	translated into
business hubs	trained		people									organizati	local language
and other	disaggregated		trained									ons	
value chain	by actor type		disaggregate									strengthe	
actors for	and gender		d by actor									ned and	
effective	slaughter		type and									linked to	
management	slabs,		gender									the pig	
and business	abattoirs and		slaughter									business	
operations,	butchers on		slabs, abattoirs and									hubs. At least 2	
enterprise development	appropriate slaughtering		butchers on									gender 2	
and	and pork		appropriate									training	
appropriate	handling in		slaughtering									workshop	
slaughtering,	collaboration		and pork									s held.	
pork handling	with the local		handling in										
and waste	governments,		collaboration										
management.	Ministry of		with the										
look at this	Public Health,		local										
gain	college of		governments										
especially in	Veterinary		, Ministry of										
relation to	Medicine -		Public										
activities	Makerere		Health,										
	University		college of										
	and		Veterinary										
	Wambizzi		Medicine -										

Objective/ Result	Indicators cooperative.	Indic ator level	Indicator definition Makerere	Unit of measure	Level of disaggre gation	Data and data source	Data collecti on method	Frequ ency	Responsibilit y	Data analysis	Who/H ow data will be used	Targets at project sites in 2 years	Means of verification (MV)
			University and Wambizzi cooperative.										
2.2.3 Implementati on of gender training events for stakeholders across the research-to development continuum	Curricula module development for training package	Out put	No of modules developed	• No. of trainings		type, actor and sex						· 50 slaughtere rs trained in each target site.	Group training reports
Output 2.3: Assessments of the pig business hubs approach and enhanced capacities on pork handling as a means to improve learning and performance of the value chains.	No. of assessments on pig business hubs and pork quality in the marketing channels	Out put	No of studies to assess quality of pork through the marketing systems	Number								 Key lessons gathered and document ed on the pig business hubs strengths and weakness es 	Assessment reports, Assessment toolkit
2.3.2 Assessment of the effect	[.] Developmen t of an assessment	Out put	Assessing performance (volumes										· Survey data

Objective/ Result	Indicators	Indic ator level	Indicator definition	Unit of measure	Level of disaggre gation	Data and data source	Data collecti on method	Frequ ency	Responsibilit y	Data analysis	Who/H ow data will be	Targets at project sites in	Means of verification (MV)
of the interventions on returns to different value chain actors disaggregated by gender and age.	methodology for pig business hubs		sold, returns, quality issues) not necessarily impact								used	2 years	
2.3.3 Assessment of the performance of the pork quality interventions focusing on pork quality indicators.	No. of studies on pork quality supplies	Out put		Number									
Output 2.4. Evidence generated on environment al impacts associated with waste management in the slaughtering and processing nodes in the value chain.	No. of studies on waste management at the slaughtering and processing nodes	Out put		Number								 At least 2 interventi ons identified from the pig waste managem ent studies 	• Project reports; Advocacy paper with policy recommendation s; Scientific papers
Activities: 2.4.1 Mapping of	·Assessment methodology for	Out put											Assessment toolkit for GHG

Objective/ Result	Indicators	Indic ator	Indicator definition	Unit of measure	Level of disaggre	Data and	Data collecti	Frequ ency	Responsibilit v	Data analysis	Who/H ow	Targets at	Means of verification
Result		level	demiliaon	measure	gation	data	on	ency	7	anarysis	data	project	(MV)
					Ū	source	method				will be	sites in	
											used	2 years	
organizations	greenhouse												emissions
involved in	gas emissions												
sustainable	and water												
waste	resources												
management	developed												
and drawing													
on lessons learnt from													
other													
countries.													
2.4.2	No of ways	Out		Number									
Exploring and	for pig waste	put		Number									
promoting	management	put											
appropriate	identified; No												
ways of	of butchers												
waste	trained on												
handling in	pork safe												
slaughtering	pork handling												
and	and waste												
processing	proper waste												
nodes as	management												
means to													
sustainably													
reduce													
negative													
environment													
al effects													
linked to													
Butcher													
trainings		<u> </u>	best-bet option	l .									

Objective/ Result	Indicators	Indic ator level	Indicator definition	Unit of measure	Level of disaggre gation	Data and data source	Data collecti on method	Frequ ency	Responsibilit y	Data analysis	Who/H ow data will be used	Targets at project sites in 2 years	Means of verification (MV)
Output 3.1: Strategy to increase utilization of edible pig parts and to provide nutritional information to farmers and consumers.	• No. of nutritional information tools developed on utilization of edible pig parts.	Out put	• No. of studies focusing on nutritional and economic assessments of utilization of edible pig parts.	Number								At least 5 nutrition informatio n tools developed and disseminat ed	Routine monitoring data
	· Strategy for utilization of edible pig parts developed.	Out put		Number								• At least 2 nutritional and economic assessmen t studies on the utilization of edible pig parts.	Strategy paper
	• No. of trainings for veterinarians, butchers and slaughterhous e workers;	Out put		Number									• Routine monitoring data.
	·No. of models of delivery of human nutrition messages including	Out put		Number									

Objective/ Result	Indicators	Indic ator level	Indicator definition	Unit of measure	Level of disaggre gation	Data and data source	Data collecti on method	Frequ ency	Responsibilit y	Data analysis	Who/H ow data will be used	Targets at project sites in 2 years	Means of verification (MV)
	through new media approaches.												
Output 3.2: A gendered- assessment of the role of pork and other animal source foods in human diets and associated preferences.	• No. of studies on consumer preferences for pork and other animal source foods	Out put	No. of studies on intra- household consumption patterns and access to food.	Number								Generatio n of informatio n for targeting and refinemen t of nutrition interventi ons	Project reports; Consumer assessment toolkit, · Survey data, Routine monitoring data. Scientific papers
Output 3.3: Consumer education on dietary diversity and benefits of consumption of animal source foods promoted, with an emphasis on special interest groups such as pregnant women, children, persons living with HIV-	Strategy for consumer education developed	Out put	No of studies on nutritional education programs on community level nutrition status based on diet diversity and % of animal- source foods in the consumption basket	Number								· I strategy paper developed ; 4 dietary diversity message tools developed	Strategy paper, Dietary diversity message tools translated into local language and Scientific papers

Objective/ Result	Indicators	Indic ator level	Indicator definition	Unit of measure	Level of disaggre gation	Data and data source	Data collecti on method	Frequ ency	Responsibilit y	Data analysis	Who/H ow data will be used	Targets at project sites in 2 years	Means of verification (MV)
AIDS and the elderly.					- the web = 6								
Objective 4: 1 Outputs	To inform policy	to recogn	ize and appropr	Number	e the role of	pro-poor pig	value chains	in Uganda	T	1		· At	Project reports
4.1: Lessons for sustainable pig value chain development through evidence- based research, monitoring and evaluation, and recommenda tions for scaling up and out developed and disseminated	project reports, knowledge products, focused on lessons from project	put	project reports, knowledge products, focused on lessons from project									least 2 functional regional pig platforms formed	Routine monitoring data
	 No. of policy engagements, disaggregated by type (e.g., workshops, 	Out put	 No. of policy engagements , disaggregate d by type 	Number								· A vibrant and functional national Pig	

Objective/	Indicators	Indic	Indicator	Unit of	Level of	Data	Data	Frequ	Responsibilit	Data	Who/H	Targets	Means of
Result		ator	definition	measure	disaggre	and	collecti	ency	у	analysis	ow	at	verification
		level			gation	data	on				data	project	(MV)
						source	method				will be	sites in	
											used	2 years	
	meetings, policy briefs, etc)		(e.g., workshops, meetings, policy briefs, etc)									platform developed . At least 5 seminars conducte d in each target area to disseminat e lessons from the evidence based research.4 main policy workshop s conducte d At least 2 case	
												studies	
	No. of	Out	No. of	Number								developed	Multimarket
	stakeholder pig platforms formed; Documentati on of alliances formed	put	stakeholder pig platforms formed; Documentati on of alliances formed										model report

Objective/ Result	Indicators	Indic ator level	Indicator definition	Unit of measure	Level of disaggre gation	Data and data source	Data collecti on method	Frequ ency	Responsibilit y	Data analysis	Who/H ow data will be used	Targets at project sites in 2 years	Means of verification (MV)
4.1.2 Conduct economic and policy analyses of the pig value chain and the level and distribution of the benefits it generates among different groups, especially the youth and women only macro level data available and results from the multimarket model feed in	Economic and policy analysis on the smallholder pig value chain done	Out put	Economic and policy analysis on the smallholder pig value chain done	Number									Routine monitoring data
4.1.3 Generate and communicate of evidence and lessons.	No. of outreach efforts and seminars targeting pig sector stakeholders to communicate outputs of evidence	Out put	No. of outreach efforts and seminars targeting pig sector stakeholders to communicat e outputs of evidence	Number									Communication materials e.g blog posts, policy briefs, case studies etc.

Objective/	Indicators	Indic	Indicator	Unit of	Level of	Data	Data	Frequ	Responsibilit	Data	Who/H	Targets	Means of
Result		ator	definition	measure	disaggre	and	collecti	ency	у	analysis	ow	at	verification
		level			gation	data	on				data	project	(MV)
						source	method				will be	sites in	
											used	2 years	
	based research for pig sector development		based research for pig sector development										

5 Evaluations

This is a short duration project with only two years of intensive implementation. The project will give much focus on monitoring progress rather than evaluation. Evaluation mechanisms will be limited to simple surveys.

5.1 Objectives

The aim is to determine the relevance and fulfilment of objectives, effectiveness, impact, and sustainability

5.2 Elements

5.3 Evaluation approaches

This is a short duration project with only two years of intensive implementation. The project will give much focus on monitoring progress (monitoring outputs) and rather than evaluation. Evaluation mechanisms will be limited to baseline midline, simple qualitative studies and end line surveys. The fore and the later will be full blow. Impact evaluation will be done after ten years

There will be five types of evaluations for SPVCD

5.3.1 Baseline

The baseline will be considered as an extended 'Round I of the monitoring of outcomes survey'. The methodology (sampling methodology, sample size etc.) applied here will be applied in all other evaluation activities; mid-term survey and end term survey. Indicators obtained from interviewing a stratified random sample of respondents drawn from the project area will be used as a basis for mid-term and end term surveys. In case a proper baseline is not possible due to budgetary constraints; baseline data from the previous ILRI projects and other reputable sources of secondary data can be used to establish baseline values.

5.3.2. Mid-term Evaluation

Few indicators will be investigated qualitatively at this stage. The mid-term evaluation will also assess to what extend the intervention is leading to change in the outcome indicators. The evaluation will go ahead to establish whether the approached used by SPVCD were effective and efficiently; secondly, if activities systematically leading to the desired change and whether the program is making difference in terms of changes in knowledge, attitude, skills, behavior and practice. The mid-term evaluation should be conducted at the end of year one of the project. The focus will be on the implementation process and short-to-medium term changes. Data on the key indicators will be however be collected periodically as the indicator framework.

5.3.3 End-term Survey

Final program evaluation will be conducted when the project closes ILRI MEL team in combination with SPVCD project management and SPVCD M&E unit. It will be carried out in April 2016. The tools and

methodology used in the Baseline will be applied here for consistency. The focus will be on the progress towards outcomes and sustainability of the SPVCD Project. The final project evaluation will establish the extent to which targets, outcomes and objectives are being achieved; positive and negative unplanned results of the project; effectiveness of project activities. The evaluation will also shade light on the success stories and lessons learned.

5.3.4. Impact Evaluation

There should be a rigorous impact evaluation of the SPVCD project after ten years. The Impact evaluations will attempt to measure and demonstrate cause-and-effect. An independent consultant should be identified and contracted to implement the impact evaluation studies.

6.0 Management of M&E process

Monitoring will aid the comparison of actual with planned performance. Monitoring will include assessing the extent to which implementation coincides with planned. Monitoring is intended to generate information for SPVCD management on a regular basis highlighting whether implementation is as per plan, whether changes are occurring over time at output levels and identifying and address challenges encountered. Monitoring activities will include four distinct components, namely; Routine data collection, Field monitoring, Data analysis, and Reporting and Data utilization.

6.1 Routine Data Collection

Monitoring data will be collected through established and systematic methods during distinct phases as per the indicator framework of program implementation. Basic information of pig value chain actor bio data such as their location, association membership, and types of activities involved in and other key variables already highlighted. While in the course of implementation any other information deemed necessary such training meetings attendance and associated immediate outcomes and other unplanned results.

6.2 Data Collection Methods

SPVCD will use both qualitative and quantitative methods for collecting data and reporting on results. The following method will be employed for data collection;

- Case studies this is done on topical issues; they are need based. It is only done whenever an issue has emerged that needs a closer look.
- Surveys: Baseline Survey, Mid Term Survey and End Term Survey. Data for the fore and the later will be collected by well-trained research assistants.
- Field visits (success stories documentation): this is a crucial method that keeps the actors informed on qualitative issues in the field on constant basis.
- Records review: this will be very vital in capturing pig cooperative union performance data such as number of active members, pig sales, pig prices, payments to farmers, agro vet shop sales etc. this information will be collected and reported monthly by the M&E specialist and PIs.

Data collection will involve development of data collection tools: data collection tools are designed based on the results framework and information needs of key stakeholders. This needs to be participatory process to ensure that most of the actors information needs are catered for. SPVCD maintains the following data collection tools for monitoring purposes:

6.3 Field Monitoring

This will form the major component of the SPVCD monitoring system and will involve regular visits to the projects sites to capture information on on-going activities. The larger part will involve qualitative approaches such as observations, unstructured interviews.

6.3.1 Management of Field monitoring activities

To ensure efficiency and effectiveness of field monitoring, the following procedure will be followed for all field monitoring activities:

- A template of the reporting format documenting the monitoring visit has been attached and yet to be agreed upon by the SPVCD team for finalization to be used by members conducting field monitoring.
- After the visit, the official conducting the field visit will compile with the guidance of the M&E focal person his/her field report within one week after the field visit and submit it to the value chain coordinator who will share with the rest of the team.
- On a quarterly basis, the M&E specialist will extract all the relevant data in the field monitoring reports and note the critical issues highlighted there-in. These issues will be part of the agenda for the team's quarterly meeting. Minutes of the meeting will clearly indicate any actionable points and responsible persons with agreed timelines.

6.3.2 Data Collection instruments

Data collection instruments (appendix 2) and regular supervisory monitoring tools will be used to capture information required by the project. These tools have been designed basing on the project's indicator framework. The indicator baselines and targets are included and quarterly actual values for the indicators will be input in the IPPT for comparison over time and reporting.

6.3.3 Data Management and Storage

Data Entry: A person(s) is strategically placed by SPVCD to enter and identify any errors made by data collectors hence enhances the data cleaning process.

Storage: data may be stored using cabinet, desk based or web based system. When using cabinet system, data is stored in books or papers that are filed and put in the cabinet.

6.4 Data Analysis, Reporting and Utilization

6.4.1 Data Analysis

As this project plans to generate a huge amount of data from baseline study to periodic monitoring survey, a proper analysis and summarization would be done to make sense of it and use them for project benefits. Various statistical and data presentation software will be used for data analysis and presentation. This may include simple systems such as MS Access, MS Excel for basic processing, to statistical soft wares like SPSS, STATA, Epi Info etc. depending on the capacity available.

5.4.2 Reporting and Utilization of Information

5.4.3 Project Reporting

The PI is required to report on the progress of project implementation to the donor and other stakeholders. The main progress reports are bi-annual and annual progress narrative reports.

I.I Semi-annual Progress Reports

Pls are required to report to the Project Management Team on progress outputs and research outcomes on 6-monthly basis. In order to do that, Research technicians will prepare and submit output reports to the relevant Pl every six months. Pls and M&E Specialist will consolidate output reports to summary progress for the value chains coordinator and country representative.

Monthly reporting format

Monthly PLanning & Report Template.docx semi-annual reporting format



I.2 Annual Progress Reports

Two annual technical Progress Reports will be prepared for submission to the donor and other key stakeholder in May 2015 and 2016. The report will comprehensively present project's outputs and research outcomes during the whole implementation period, significant achievements, observations, challenges encountered and recommendations. The reports will also document what is working and what is not working plus necessary explanatory notes.

1.3 Final Project Report

During the last two months of the project (April.– May. 2016), the Pls, Research Technicians, in collaboration with the M&E Specialist, will prepare a final Project Report. This report will comprehensively summarize all the activities, outputs and outcomes of the project, lessons learnt, objectives met, or not met and why.

6.4.4 Project Reviews

Annual Project Review

The Annual Project Review meeting will serve as a mechanism for annual assessment of implementation progress. The Annual Project review meeting will help highlight areas for critical reflections pertinent to overall improvement of project actions. The outcome of the APR will feed into the annual planning and allow strategic adjustments. During such meetings, project indicators can be reviewed.

6.3. Dissemination of Results/Information

It is important to plan for information dissemination before reports start flowing. Table 2 suggests the dissemination approaches to various audiences and timing.

Table 2: Information type and audiences

Stakeholder	Dissemination	Frequency
	approach	
Smallholder pig producers	•SPVCD/ILRI wiki space	•Annually •As deemed necessary
	•Events •Mass Media	
Live pig traders, butchers, feed traders, and their	•Reports	• Annually
organizations.	•Social Media:	 As deemed necessary
Service providers/ Business development Service	Facebook and twitter	
Providers	accounts –	
The pig business hub/cooperative union	•Events •Mass Media	
Public (MAAIF, Ministry of Health and Local	•Reports	• Annually
Government – Animal Production department,	•Social Media:	 As deemed necessary
NAADS, Uganda Bureau of Standards)	Facebook and twitter	
	accounts	
	•Events •Mass Media	
National astronomican in the linear description		A manual luc
National policy makers in the livestock sub- sector, UBOS, NALLIRI, private sector	Reports •Social Media:	Annually
sector, UBOS, NALLIRI, private sector associations, and NGOs	Facebook and twitter	 As deemed necessary
	accounts	
	•Events	
	•Mass Media	
SPVCD project staff	•SPVCD/ILRI wiki	•Annually
	space	•As deemed necessary
	•Social Media:	
	Facebook and twitter	
	accounts	
	•Events	
Funders	•SPVCD reports	 Semi-Annually
	•ILRI/SPVCD wiki	 As deemed necessary
	space	
Private sector	Reports	•Annually
	•Social Media:	 As deemed necessary
	Facebook and twitter	
	accounts •Events	
	•Mass Media	
Research and learning institutions	Reports	•Annually
Research and rearming institutions	•Social Media:	•As deemed necessary
	Facebook and twitter	
	accounts	
	•Events	
	•Mass Media	

7.0 Appendices

Appendix I: Project monitoring tools

Pig business hubs



74 Pig business hub monitoring tool 10081

Animal health—Breeding and ASF

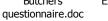








Animal Health.docx





Environment-Slaughter waste management



Wabizzi pig abattoir waste management pr

MSPs participant profiling sheets



ILRI extension manuals



Appendix 2: Indicator measurement sheet- Adapted from LGI indicator manual

