

Example: Kobo Toolbox survey in Kigali

Brief description	This template enables the project team to tabulate data from the Rapid scan of climate and pandemic risks on impacts of a hazard for ease of reference.
Expected outcome	Understanding of nodes, stakeholders, assets and infrastructures, areas, and commodities that are at risk of impact from (individual and multiple) hazards.
Expected output	Consequent identification of potential priority areas and data gaps to address key risks
Scale of application	Project level
Expertise required	Research and analysis
Examples of application	Kigali, Rwanda
Year of development	2023
Author(s)	Carmen Zuleta Ferrari
Relevant CRFS Handbook	Assessment module
modules; related tools,	
examples and activities	

Full description and justification

To better understand the CRFS, the project team in Kigali developed an in-depth assessment, including a primary data collection survey which was responded by all the actors of the CRFS, across 9 districts. With the survey, the key elements of the KCRFS value chains were mapped and helped with further quantitative and qualitative analysis, as well as limited ground-truthing of existing datasets. Data was collected in one month, with five enumerators using KoBoToolbox software. A database of 336 filled questionnaires was coded and exported into SPSS software for analysis taking into consideration all nine districts of the KCRFS and the 13 selected commodities for main producers. Descriptive statistics including frequencies, cross-tabulations, multiple responses, and compare means helped to produce figures, graphs, diagrams, narrative analysis, and other descriptive statements for the present report. GIS data helped to produce maps for a better understanding and visual presentation of the KCRFS.

Data was collected through enumerators KoBoToolbox software using open-ended questions which were post-coded (e.g Annex) after the survey to ease the data analysis. During the field data collection, a handheld GPS and tablets with KoBoToolbox were used to collect relevant coordinates related to the food supply chains. The concerned strata included but were not limited to, farmers' plot size, food markets, key processing, and distribution centres, flooded area, irrigation infrastructure, post-harvest infrastructure and seed storage facilities.

Annex				
Farmer questionnaire				
Main Producer ID				
<u>Self-Introduction</u>				
Hello. My name is	mate change and COV sess the opportunitie banana, sweet potate the respondents of the vely used in this stud w will last 20 -30 min questions related to the	VID-19 pandemic risks on Food systems. es to mitigate such risks. This study does, beans, Irish potatoes and milk. You his survey. We assure you that the ly and your names or any identity utes. If you need some clarification		
Your views are of paramount contribution	on to this assessmen	t.		
Kwibwira uwo ugiye kubaza ibibazo.				
Muraho. nitwaiz'ibiza biterwa n'ihindagurika ry'ibihe c twaba dufite yo guhangana na byo.				
Iri suzuma rirareba ababona umusaruro cyangwa amata. Ukaba rero watoranijw by'ubushakashatsi. Turakwizeza ko am amazina n'imyirondoro yawe bizagirwa Ukeneye ibisobanuro ku ngingo runaka	ve ku buryo bwa tom akuru utanga azakor ibanga. Iki kiganiro ki	bola mu bagomba gusubiza ibibazo eshwa gusa mu bushakashatsi kandi iramara iminota iri hagati ya 30 na 45.		
Ibiteketerezo byawe ni umusanzu w'ing	enzi muri iri suzuma.			
DATE OF INTERVIEW (itariki):		/ / DD / MM / YYYY		
Name of interviewer (Ubazwa):				
IDENTIFICATION QUESTIONS				
Province (intara)	Kigali-City (Umujyi wa Kigali) ()			
	Southern (Amajyer	ofo) ()		
	Northern (Amajyarı	uguru) ()		
	Eastern (Uburasiraz	ruba) ()		
District (Akarere)				
Sector (Umurenge)				

Cell (Akagari)	
Village (Umudugudu)	
Location (Aho utuye)	Urban (Mu mujyi) ()
	Semi-Urban (Mu nkengero z'Umujyi) ()
	Rural (Mucyaro) ()
Names of Enumerator (Amazina y'Ubaza)	
Names of Supervisor (Amazina ya Superivizeri)	
Signature of the supervisor (Sinyatire ya Superivizeri)	
GPS data of the field	Altitude: m
	Latitude:
	Longitude:
B. HOUSEHOLD CHARACTERISTICS (Ib	izbazo byerekeranye n'urugo)
Names of the respondent (Amazina ya nyir'urugo)	
Sex (igitsina)	Male (Umugabo) ()
	Female (Umugore) ()
Marital status (Irangamimerere)	Single/Ingaragu ()
	Married/ <i>Uwashatse</i> ()
	Widow/wodower / Umupfakazi ()
	Separated (separated)/Utabana n'uwo bashakanye ()
	Divorced (legally separated)/ Watandukanye n'uwo bashakanye ()
Age of Household head in years? (Imyaka y'ubukure ya Nyir'urugo)	
Education level (Amashuri wize)	1. None/ <i>Ntayo</i> ()
	2. Attended primary school only/ <i>Amashuri abanza gusa</i> ()
	3. Attended vocational school (Artisanal, CERAI, CFG, Familial)/Amashuri y'imyuga ()
	4. Completed high school (D4, D5, D6, D7)/Amashuri
	yisumbuye

	5. Graduate (A1, A0, Masters, PhD) /Kaminuza ()
What is current <i>Ubudehe</i> category (Icyiciro cy' <i>Ubudehe</i>)	Category 1 () Category 2 () Category 3 () Category 4 ()
Number of People in HH? (Ese uru rugo rwanyu harimo abantu bangahe?)-Umubare w'abagize urugo	()
Are you the head of the household? (Ese ni wowe mukuru w'Urugo)	Yes/Yego() No/Oya ()
If not, relationship to household (niba atari wowe mupfana iki?)	1=Wife/Umugore 2=Husband/Umugabo 3=Son/ Umwana w'umuhungu 4=Daughter/ Umwana w'umukobwa 5=relative/ Uwo bafitanye isano 99= Other living at home/Undi uba mu rugo (specify/Muvuge:)
What is the primary source of income for the HH? (Ni hehe haturuka amafaranga menshi muyo mukoresha mu rugo?)	Own farm/ Ubuhinzi () (selected crop/igihingwa :) Dairy/Ubworozi bw'inka () Other livestock/Ubundi bworozi () Skilled labor / professional/Artisan Ubukorikori() Government service/Akazi ka leta Private service/ Rwiyemezamirimo Merchant / Business/Ubucuruzi() Other (specify)/ Ahandi havuge ()
Number of experience in years for above mentioned activity (crops, livestock, Trading, Gvt services,) (igihe umaze ukora umwuga umaze kuvuga haruguru)	

C. LAND OWNERSHIP (Ibibazo ku mutungo w'ubutaka)

How much land do you own now (in hectares)/ Mufite ubutaka bungana iki (ha)- Land centre
UPR/Mufite icyangombwa cy'ubutaka?- if not for marshland take GPS/ Niba ntacyo fata GPS:

Land rented in (in hectares)/ Ubutaka watisha (ha):
Land rented out for money (in hectares)/ Ubutaka watira abandi ku Frw (ha):
Land rented out for free (in hectares)/Ubutaka watira abandi ku buntu (ha):
Total land for selected crops (in hectares)/ Ubutaka bwose uhingaho igihingwa cy'ingenzi
Total land under pasture/for livestock (in hectares)/ Ubutaka bwose ukoresha ku bworozi (ha)
Total land in marshland (in hectares)/Ubutaka bwose buri mu gishanga (ha)
Total land under irrigation technology (marshland)/ <mark>Ubutaka bwose buvomererwa mu mibande (ha)</mark>
Total land under irrigation technology (upland) Ubutaka bwose buvomererwa imusozi

D. LIVESTOCK OWNERSHIP (Ibibazo ku bworozi)

How many livestock owned now by your household? (Mufite ayahe matungo mu rugo rwanyu)

Row	Livestock (Amatungo)	number owned (umubare)	Losses (causes:) Ayapfuye (impamvu)				
			2017	2018	2019	2020	2021
1	Cows (inka)						
2	Goats (ihene)						
3	Sheep (intama)						
4	Pigs (ingurube)						
5	Chicken (inkoko)						
6	Rabbits (inkwavu)						
99	Other, specify: (Ayandi, yavuge)						

E. Agricultural inputs use (Fertiliser, seeds, equipment, etc.) and where they source these inputs (Ibibazo byerekeranye n'inyongera-musaruro n'aho zitutuka)

Inputs (inyongeramusaruro)	Used quantity (iyakorshejwe)(toni/kg	Sources (Aho yaturutse)	Climate and pandemic Risks (Ingaruka z'ibiza cyangwa za Korona)
Fertilizers (Ifumbire)			
Seeds (imbuto)			
Machinery (Imashini)			
Irrigation equipment (ibikoresho byo kuhira)			

F. QUESTIONS RELATED TO CLIMATE CHANGE AND COVID-19 PANDEMIC RISKS (Ibibazo bijyanye n'ingaruka z'ibiza n'iza Korona ku rusobe rw'ibiribwa muri Kigali City Region)

1	Farmers	Are you engaged in agriculture and livestock activities using good, risk-sensitive agricultural practices?
		Mwaba mukora ubuhinzi n'ubworozi ku buryo bwiza budatuma Ibiza bibangiriza?
		Why are these risk-sensitive agriculture practices used?
		Kuki ari bene ubwo buryo mwahisemo gukoresha?
		What other risk-sensitive agriculture practices are desirable?
		Nta yindi mihingire yakoreshwa mu kurwanya ibiza?
		Why are some people not practicing risk-sensitive agriculture?
		Kuki ari bake bakoresha imihingire myiza mu kurwanya ibiza?
2	Farmers	"Which types of water harvesting techniques do you use?"
		Ni ubuhe buryo mukoresha bwo gufata amazi yo kuhira?
		If you are a hillside farmer, are you equipped with water harvesting techniques
		for irrigation purposes during dry season at:
		(a) community and
		(b) household level?

		Niba ufite isambu imusozi, ni ibihe bikoresho byo gufata amazi yo kuhira mu gihe cy'izuba biri
		rusange ku buryo mubifatanya n'abaturanyi?
		iby'urugo rwawe bwite?
3	Farmers	Which types of conventional irrigation facilities do you use?"
		Ni uburyo bungahe bukoreshwa iyo buhira imyaka?
		If you are a lowland farmer, are you accessing more conventional irrigation facilities? Niba ufite imirima y'akabande, ubasha kubona ibikoresho byo kuhira imyaka yawe?
4	Farmers	Are you accessing techniques, inputs, tools to become more resilient against climate shocks and stresses?
		(by Ubudehe category, gender and age)
		Ese ubasha kubona ubumenyi, ibikoresho cyangwa ibindi bigufasha mu kwihangara ihindagurika ry'ikirere?
5	Farmers	How is agriculture-related information transmitted to you (technology)? (Information channels?)? Amakuru (/ikoranabuhanga) ajyanye n'imihindagurikire y'ikirere akugeraho ate?
		Why this technology? <i>Ni irihe korana-buhanga rikugeraho? Kuki ari iryo?</i> Why not others? <i>Nta rindi?</i>
		What type of info is transmitted? <i>Ni nk'ayahe makuru akugeraho?</i> Watanga ingero?
		What risks does this agriculture-related information transmitted to farmers concern? <i>Ni ibihe biza ayo makuru akugeraho aba agusaba kwitegura kurwanya</i> ?
		Why this agriculture-related information? <i>Kuki ari bene ayo makuru y'ubuhinzi baguha</i> ?
		Why not others? Nta yandi?
		Do you or other farmers have other agriculture-related information needs that are not covered? Ese hari andi makuru ajyanye n'iby'ubuhinzi wowe cyangwa abandi bahinzi muba mucyeneye ariko ntimuyabone?
		Is the agriculture-related information transmitted to farmers in a timely manner? Ese ayo makuru ajyanye n'ingaruka z'ibiza ku buhinzi bwawe akugeraho ku gihe?
		What improvements could be made to existing agriculture-related information transmission to farmers (both information and technology)? <i>Ni iki ubona</i>

		cyakongerwa ku buryo muhabwa ayo makuru cyangwa iryo korana-buhanga neza kurushaho?
7	Farmers	Do you have access to <u>timely multi-risk</u> early warning systems and information on early action? <i>Ese mujya mubona amakuru ababurira ko hari ibiza biri hafi kubatera?</i> (age, gender, social group, crop, district, etc.)
		Why you and not your neighbours? Kuki ari mwe ageraho ntagere ku baturanyi?
8	Farmers	Are you adopting the actions and measures that seek to restore, protect and preserve natural resources? (age, gender, social group, crop, district, etc)
		Ese waba waritabiriye ibikorwa bifasha gusigasira no kurinda umutungo kamere bishingiye ku buhinzi?
		What exactly are these actions and measures that seek to restore, protect and preserve natural resources? Ni nk'ibihe bikorwa witabiriye bifasha gusigasira no kurinda umutungo kamere bishingiye ku buhinzi?
		Why you and not your neighbours? Kuki ibyo bikorwa wowe wabihisemo abaturanyi bo batabikora?
9	Farmers	What impacts of flood events and droughts on you (or on other farmers) are covered under a structured, government-supported insurance scheme'? Ni izihe ngaruka z'imyuzure cyangwa izuba zifatirwa ubwishingizi bwunganirwa na Leta?
		'Why are these impacts of flood events and droughts on you/farmers are covered? Why not others?' Kuki ari izo ngaruka zonyine zishingirwa gusa ku bahinzi? Nta zindi?
10	Farmers	Are you using the NAIS multi-risk insurance schemes (against climate shocks and stresses)? <i>Ese mufite ubwishingizi ku biza bwunganirwa na Leta?</i> (age, gender, social group, crop, district, etc.)
	Farmers	Which NAIS multi-risk insurance schemes (against climate shocks and stresses) are used? <i>Ubwo bwishingizi bwunganirwa na Leta mufite ni nk'ubuhe?</i>
		Why those NAIS are the only chosen and why not others? Kuki ari ubwo bwishingizi bwonyine mwahisemo? Nta bundi?

11	Farmers	Are you applying for pay-outs when necessary from multi-risk insurance schemes (against climate shocks and stresses)? (age, gender, social group, crop, district, etc) Ese iyo mwahuye n'ibiza mujya musaba kwishyurwa ku bwishingizi bwanyu?
		If you do not apply for pay-outs, why not? Niba mutajya musaba kwishyurwa mubiterwa n'iki?
12	Farmers	Have you ever received pay-outs from multi-risk insurance schemes?
		If not, do you know why? <i>Hari ubwo mwaba mwarigeze mwishyurwa n'ikigo cy'Ubwishingizi ku biza</i> ?
13	Farmers	Are you eligible to access shock responsive social protection assistance? Which criteria are set for eligibility? (age, gender, social group, crop, district, plot size, level of education etc). Ese muri ku rutonde rw'abashobora gufashwa na Leta (social protection) iyo mwahuye n'ikibazo (Ibiza, kugura imbuto cga amafumbire)?
		Kugirango abahinzi bashyirwe kuri urwo rutonde hagomba iki?
14		Which quantity did you harvest last season for the best crop for you?
		Ku gihingwa cyawe cy'ingenzi, wasaruye ibingana iki mu ihinga rishize? (toni/Kg)
		Which quantity did you sell for that crop last season?
		Wagurishije ibingana iki kuri uwo musaruro? (toni/Kg)
		Would you like to estimate the losses of food stuff last season?
		Wagereranya ibyo wahombye byose mu murima, mu igurisha no mu kurya kuri uwo musaruro? (toni/kg)
		If yes, why? Niba ari byo, kuki wabihombye?
15	Farmers	What types of activities are organised to attract young people to enter farming? Mutubwire imirimo ikurura urubyiruko ukabona ko rwinjira mu buhinzi n'ubworozi ari rwinshi?
		Who is each activity aimed at? (age, gender, social group, crop, district, plot size, level of education etc). <i>Buri murimo ugamije iki?</i>
		Have you attended these activities? Have young people attended too?
		Mwaba mwarigeze gukora iyo mirimo? Urubyiruko narwa rwarayikoze se?
		If yes, why did you (or young people) attend? Niba ari byo, kuki wayikoze? Kuki urubyiruko rwayikoze?
		If not, why did you (or young people) not attend? Niba atari byo kuki utayikoze? Kuki urubyiruko rutayikoze?

		Who / what organisations are involved in engaging these young people in these farming activities? Ni iyihe miryango/ibigo ubona byinjiza urubyiruko mu mirimo y'ubuhinzi n'ubworozi?
16	Farmers	Which are the agriculture and livestock activities are you doing in less risk prone areas? Ni iyihe mirimo y'ubuhinzi n'ubworozi ukorera ahantu hatagera ibiza cyane?
		Why? Kuki?
17	Farmers	Which good risk sensitive practices are the youth using in agriculture and livestock? Ni ibihe bikorwa by'urubyiruko bikorwa ku buryo bwiza budatuma ibiza bibangiriza?
		What are the agriculture and livestock activities where youth are using these good risk sensitive agricultural practices? <i>Ni iyihe mirimo y'ubuhinzi n'ubworozi urubyiruko rukoreshamo uburyo bwiza budatuma ibiza bibangiriza?</i>
		Why are you using these practices? Kuki bakoresha ubwo buryo?
18	Farmers	What are the climate shocks and stresses/pandemics that the existing technical services, practices, techniques, inputs, tools relate to? <i>Ni ibihe biza biterwa n'ihindagurika ry'ikirere bijyanye n'ubumenyi, ibikoresho cyangwa ibindi bintu abahinzi bafite?</i>
19	Farmers	Which are the risk-proof postharvest technology/infrastructure
		(eg: collection centres, storage facilities) within communities meeting the national storage standards to ensure cleanliness, hygiene, and food safety, storage facilities?
		Ni ibihe bikorwa-remezo mufite byihanganira ibiza by'ikirere (amakusanyirizo, ubuhunikiro) mufatanyije n'abaturage byubahirije ubuziranenge kw'isuku n'isukura, ubwiza bw'ibiribwa, etc.?
		Why these risk-proof postharvest technology/infrastructure
		(eg: collection centres, storage facilities within communities meeting the national storage standards to ensure cleanliness, hygiene, and food safety, storage facilities? Why not others?
		Kuki ibyo bikorwa-remezo ari byo mufite byihanganira ibiza by'ikirere (amakusanyirizo, ubuhunikiro mu baturage byubahirije ubuziranenge kw'isuku n'isukura, ubwiza bw'ibiribwa, etc.) ibindi byo kuki mutabyitayeho?
		What other ones would you like to see?
		Ni ibihe bindi bikorwa-remezo/ikoranabunga mwumva mwakenera?
		Why do you think they are not provided?

		Ni iyihe mpamvu mutekereza ituma bitabageraho?
20	Farmers	Which risk-proof post-harvest infrastructure do you use?
		(age, gender, social group, crop, district, plot size, level of education etc)
		Wowe ubwawe ni ibihe bikorwa-remezo ufite byihanganira ibiza by'ikirere?
	Farmers	Why do you use these risk-proof post-harvest infrastructure? <i>Kuki ukoresha ibyo bikorwa-remezo byihanganira ibiza by'ikirere? Ntabindi uzi ndetse byaba byiza kurushaho?</i>
21	Farmers	Are you attending knowledge and skills development programmes/opportunities on value addition? Ese hari gahunda z'amahugurwa agamije kongerera umusarura agaciro ujya ujyamo?
22	Farmers	Who are the people attending knowledge and skills development programmes/opportunities on value addition (by <i>Ubudehe</i> category, gender and age)? <i>Ni bande bajya muri bene ayo mahugurwa?</i>
		Why do you attend these programs and not others programs? Kuki wahisemo kujya muri bene ayo mahugurwa? Ayandi ntuyajyemo?
23	Farmers	Are you linked to any processing unit? Mwaba mufite uruganda rutunganya umusaruro mukorana?
		Who are the producers linked to processing units to deliver to them needed raw materials (age, gender, social group, crop, district, plot size, level of education etc)? Ni abahe bahinzi bakorana n'urwo ruganda baruha umusaruro wo kongerera agaciro?
		Why these producers and not others age, gender, social group, crop, district, plot size, level of education etc)? Kuki ari abo bahinzi? Nta bandi bashobora kuruha umusaruro wabo?
24	Farmers	Where do you supply your key foodstuff? <i>Ni hehe mugemura umusaruro wanyu?</i>
		What challenges do you face in the supply chain? Ni izihe ngorane muhura nazo mw'igemura ry'umusaruro wanyu ku isoko?
		Are there any different sources (in locations, varying distances) that you compete with? Haba hari abandi bahinzi bagemurira urwo ruganda mupiganwa nabo? (aho baba, urugendo ruhari uko rureshya (km)
25	Farmers	Which are the different supply chains for key foodstuffs (of varying distances/different locations)? Mwatubwira uruhererekane rw'umusaruro wanyu kuva mu murima kugera ku bawugura bajya gukoramo amafunguro? (aho baba abawukenera, urugendo ruhari uko rureshya (km)? Cyane nk'abacyenera imboga dore ko zononekara vuba?

		(for perishable produce especially, including vegetables)
		Why these supply chains and not others? <i>Kuki ari abo bacyenera umusaruro wanyu? Nta bandi?</i>
26	Farmers	Are you a member of any existing platform exchange information on supply and demand?
		Ese waba uri umunyamuryango w'ihuriro rihuza abahinzi n'abaguzi?
		How many mechanisms or platforms for producers and buyers to exchange information on supply and demand in a timely way (quantities, varieties, quality), and facilitate trade – including during periods of emergency? <i>Inaha haba hari amahuriro angahe ahuza abahinzi n'abaguzi</i> ?
	Farmers	Which information is being exchanged among producers and buyers to exchange information on supply and demand in a timely way (quantities, varieties, quality), and facilitate trade – including during periods of emergency
		Baba bahanahana ayahe mahuru muri bene ayo mahuriro?
		Who is the initiator of these platforms? Ni nde washinze ayo mahuriro?
		Who is a member of these platforms? Ni nde wemerewe kuba umunyamuryango muri ayo mahuriro?
		Why exchanging these kind of information and not others? Kuki bahanahana amakuru nk'ayo mu ihuriro ryanyu?
		What other information would it be useful to exchange? Why is it not being exchanged? Nta yandi makuru ubona bakwiye guhanahana bikabagirira akamaro? Kuki batayahanahana?
27	Farmers	Do you have access to water harvesting techniques?
		If not, why? Ese hari uburyo bwo gufata amazi ufite? Haba imusozi cyangwa mu kabande?
		Why do others not? Kuki abandi batabufite?
	1	1