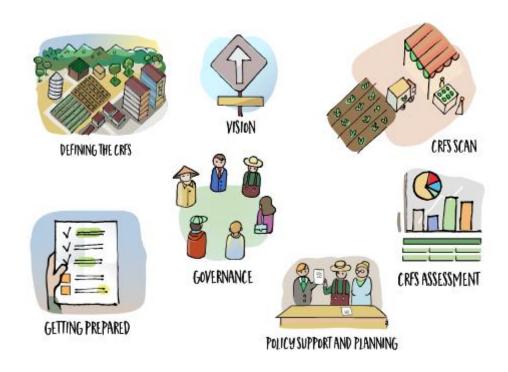






# CITY REGION FOOD SYSTEM TOOLKIT TOOL/EXAMPLE



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### Tool/Example:

### **Key informant interviews**

Author(s): FAO

Project: FAO Food for the Cities programme

### Introduction to the joint programme

This tool is part of the City Region Food Systems (CRFS) toolkit to assess and plan sustainable city region food systems. The toolkit has been developed by FAO, RUAF Foundation and Wilfrid Laurier University with the financial support of the German Federal Ministry of Food and Agriculture and the Daniel and Nina Carasso Foundation.

#### Link to programme website and toolbox

http://www.fao.org/in-action/food-for-cities-programme/overview/what-we-do/en/http://www.fao.org/in-action/food-for-cities-programme/toolkit/introduction/en/http://www.ruaf.org/projects/developing-tools-mapping-and-assessing-sustainable-city-region-food-systems-cityfoodtools

#### **Tool summary:**

Brief description	This tool helps to obtain non-statistically significant data on a particular topic/component of the food system without conducting a comprehensive quantitative data collection study.
Expected outcome	Data collection
Expected Output	Qualitative data on particular topic
Scale of application	Project level
Expertise required for application	Statistics, agronomy/nutrition/value chain/policy depending on the person interviewed
Examples of application	Kitwe and Lusaka (Zambia); Colombo (Sri Lanka)
Year of development	
References	-

#### **Tool description:**

To assess the CRFS and specific indicators, different tools can be used to collect data: questionnaire surveys (quantitative data), focus group discussions and key informant interviews (qualitative data). Key informant interviews, such as focus group discussions, can be used to complement questionnaire survey, get indications and trends on specific topics, when resources and time are not available to conduct a more extensive questionnaire survey, or when the information cannot be characterized by quantitative data.













### **Examples of application**

#### Kitwe

In Kitwe, key informant interviews were conducted to complement the questionnaire surveys and focus group discussions. Interviews were conducted to obtain information on the three local priorities identified: agricultural production, food processing supply and distribution system, environment and natural resources. Interviews were conducted with key actors such as: Ministry of Agriculture (MoA), Ministry of Health (MoH), city and district councils, farmers' organizations, Central Statistical Office (CSO), Chamber of Commerce, etc.

The below table display the different interviews conducted for each needed information/area of investigation, and the associated questions asked.

Case Study/local priority	Areas of work	Areas of investigation	Target/key informant	Questions asked
diban development		i1. Product volumes and diversity imported (from outside the city region) compared with product volumes from the city region	CSO/Chamber of Commerce/MoA	i1a. Names of vegetables, fruits, livestock & dairy commodities imported (name; up to 20 answers)  i1b. Quantity of each vegetable, fruit, livestock & dairy commodity that is imported (name; up to 20 answers)  i1g. Names of livestock products imported (name; up to 10 answers)
	Diversity of Opportunities for Food Production	i2. Number/type of farms in the city region that use locally grown or other (organic/ecological/ fair-trade) product labels	Councils / MoA / ZLA / Forestry / ZEMA / ZNFU / Water & Sewerage	i2a. Number of farms using locally grown or other products labes (organic/ecological/fair-trade)  i2b. Type of farms using locally grown or other products labes (organic/ecological/fair-trade) (text)
		i4. Number/% of farms in the city region with direct sales to consumers; trading direct at markets or selling direct to retailers or caterers	Councils / MoA / ZLA / Forestry / ZEMA / ZNFU / Water & Sewerage	i4a. Number or % of farms with direct sales to consumers  i4b. Number or % of farms trading direct at markets  i4c. Number or % of farms selling direct to retailers
	Social Conditions for	i6. Number and type/characteristics	Councils / MoA / ZLA /	i6a. Number of women involved in city region food production















Food Producers	of people (differentiate for women,	Forestry / ZEMA / ZNFU /	i6b. Number young people involved in city region food production
	young people and other vulnerable groups) involved in city region food production	Water & Sewerage	i6c. Number other vulnerable groups involved in city region food production
	i7. Number of children under age	Councils / MoA / ZLA /	i7a. Number of children employed in input supply for food production in city region
	(child labour) employed in city region food production	Forestry / ZEMA / ZNFU / Water & Sewerage	i7b. Number of children employed in farm activities for food production in city region
Economic Value of Food Production	i10. Number (or percentage) of farms (farm types) in the city region	CSO/Chamber of Commerce/MoA	i10a. Number or percentage of farm types that produce each commodity (number)
Sector in the City	(economic vitality) for different food		i10c. What is the size of farms that produce each commodity (number in acres)
Regio	products	Councils / MoA / ZLA / Forestry / ZEMA / ZNFU /	i10a. Number or percentage of farm types that produce each commodity
		Water & Sewerage	i10c. What is the size of farms that produce each commodity (number in acres)
			i21a. Total surface areas currently unfarmed of urban and peri-urban and rural agriculture land within the region (number in acres)
	i21. Total surface areas (current and potentially available currently unfarmed) of urban and peri-urban and rural agriculture land within the city region	Councils / MoA / ZLA / Forestry / ZEMA / ZNFU / Water & Sewerage	i21b. Total surface areas currently unfarmed of peri-urban land within the region (numbe in acres)
			i 21c. Total surface areas currently unfarmed rural agriculture land within the region (numbe in acres)
Status of Natural			i21d. Total surface areas potentially available currently unfarmed of urban land within the region (number in acres)
Resource Management			i21e. Total surface areas potentially available currently unfarmed peri-urban land within the region (number in acres)
J			i21d. Total surface areas potentially available currently unfarmed rural agriculture land within the region (number in acres)
		Councils / MoA / ZLA / Forestry / ZEMA / ZNFU /	i32a. What is the status of natural biodiversity in the city region (intact/degraded/unknown
	i32. Status of natural biodiversity in the city region		i32b. What drives the change in the status of natural biodiversity in the city region (farming/mining/settlements/
		Water & Sewerage	i32c. Who manages the natural biodiversity in the city region (text)
Levels of Vulnerability and Conditions for Increasing Resilience	i44. Percentage of self- reliance (for the city region) in consumption of food by weight for specific product/prioritised food basket/total nutritional requirements or total consumption	Councils / MoA / ZLA / Forestry / ZEMA / ZNFU / Water & Sewerage	i44a. Percentage of commodity produced and consumed within the region out of tota available
	(possibly transform this also in food expenditures using average food		













price data)		
i47. Availability and accessibility of Urban agriculture/community gardens to all residents within the city region; especially of low-income	Councils / MoA / ZLA / Forestry / ZEMA / ZNFU / Water & Sewerage	i47a. How much land is available of urban agriculture/community gardens to all residents within the city region for low-income groups (number or %) i47b. How accessible is land available of urban agriculture/community gardens to all residents within the city region for low-income groups (accessible/inaccessible/unknown)
i49. Potential for increase in decent employment and income opportunities (multiplier effect) in	CSO/Chamber of Commerce/MoA	i49a. What is the potential for increase in decent employment (multiplier effect) in food production and input supply (number in % increase) i49b. What is the potential for increase in income opportunities (multiplier effect) in food production and input supply (number in % increase)
city region food production and input supply	Councils / MoA / ZLA / Forestry / ZEMA / ZNFU / Water & Sewerage	i49a. What is the potential for increase in decent employment (multiplier effect) in food production and input supply (% increase) i49b. What is the potential for increase in income opportunities (multiplier effect) in food production and input supply (% increase)
i50. Extent to which production practices favour efficient use of abiotic resources (land/soil; water; nutrients)	Councils / MoA / ZLA / Forestry / ZEMA / ZNFU / Water & Sewerage	i50a. Extent to which production practices favour efficient use of land (high/medium/low/unknown) i50b. Extent to which production practices favour efficient use of water (high/medium/low/unknown) i50c. Extent to which production practices favour efficient use of soil fertility/nutrients (high/medium/low/unknown)
i52. Degree to which livestock feed is produced within the city region (% of self-reliance in fodder production)	Councils / MoA / ZLA / Forestry / ZEMA / ZNFU / Water & Sewerage	i52a. Where is feed for livestock type obtained/bought from? (name of feed source) i52b. How much does a kilogram of feed category cost? (name of feed price/Kg) i521a. Mention commodities that are produced on the facility (text - up to 20 answers) i521b. Where do you obtain/purchase your seed for each of the commodity? (text - up to 20 answers) i521c. How much does (a Kg or packet of 500g) seed cost for each commodity? (name cost/Kg; 20 answers) i521d. What fertilisers do you use for each of the crops you produce? (name fertiliser; 15 answers) i521e. Where do you obtain/purchase your fertiliser from? (text - up to 15 answers) i521f1. How much does a kilogram or 50 Kg bag of top dressing fertiliser cost? (fertiliser cost/50Kg; up to 5 answers) i521f2. How much does a kilogram or 50 Kg bag of basal fertiliser cost?













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				(fertilisercost/50Kg; up to 5 answers)
				i521g. Where do you obtain your farm equipment from?
				(equipment; up to 10 answers)
				i521h. What is the total cost of equipment required to produce each commodity that you
				produce? (commodityequipment cost; up to 20 answers)
				177a. Compliance with food safety regulations related to food storage in the city region
		177 Consultance with find refere		(high/medium/low/unknown)
	Presence and Impact	177. Compliance with food safety regulations and regular inspections	CSO / Chamber of	177b. Compliance with food safety regulations related to food processing in the city region (high/medium/low/unknown)
	of Related Policy	related to food storage and	Commerce / MoA / MoH /	177c. Compliance with regular inspections of food storage facilities in the city region
	of Related Folicy	processing in the city region	Councils	(high/medium/low/unknown)
		p		177d. Compliance with regular inspections of food processing facilities in the city region
				(high/medium/low/unknown)
				i81a. Potential for increase in decent employment opportunities (multiplier effect) in city
		i81. Potential for increase in decent	CSO / Chamber of Commerce / MoA / MoH / - Councils	region food storage (high/medium/low/unknown)
	Levels of Vulnerability	employment and income		i81b. Potential for increase in income opportunities (multiplier effect) in city region food
	and Conditions for Increasing Resilience	opportunities (multiplier effect) in city region food wholesale and distribution		storage (high/medium/low/unknown)
				i81c. Potential for increase in decent employment opportunities (multiplier effect) in city
2. Food processing,				region food processing and manufacturing (high/medium/low/unknown)
supply and				i81d. Potential for increase in income opportunities (multiplier effect) in city region food
distribution system				processing and manufacturing i83a. Number and type of wholesale and distribution points in the city region for each
(including		i83. Number, type and geographic spread of food wholesale/distribution points in the city region (for different products)	CSO / Chamber of Commerce / MoA / MoH / - Councils	commodity (categorynumber; up to 5 answers)
consumption &	Diversity of			i83b. Number and type of commodity wholesale points in the city region
nutrition but outside	Opportunities for Food Wholesaler and Distribution Businesses			(category number ; up to 5 answers)
Kitwe district)				i83c. Number and type of commodity distribution points in the city
				region(categorynumber; up to 5 answers)
				i83d. Geographic spread of of commodity wholesale and distribution points in the city region
				(mapping of location: georeferencing)
	Economic Conditions	i92. Infrastructure needs for	CSO / Chamber of	i92e. State of existing wholesale and distribution infrastructure (i.e. excellent, good, poor,
	for Food Wholesale	improved city region wholesale and	Commerce / MoA / MoH /	not existing, unknown)
	and Distribution Workers	distribution businesses efficiency	Councils	
	VVOI NETS	i104. Transport efficiency: Current		i104a. Current use of food transport in city region with low energy use
		and potential use of food transport	/ /	(high/medium/low/unknown)
	Levels of Vulnerability	and storage in city region with low energy use / more optimised	CSO / Chamber of Commerce / MoA / MoH / Councils	i104b. Potential use of food transport in city region with low energy use
	and Conditions for			(high/medium/low/unknown)
	Increasing Resilience	distribution – reduction of transport		i104c. Current use of food transport in city region with more optimised distribution –
		distance and emissions		reduction of transport distance and emissions (high/medium/low/unknown)













	i107. Potential for increase in decent employment and income opportunities (multiplier effect) in city region food wholesale and distribution	CSO / Chamber of Commerce / MoA / MoH / Councils	i104d. Potential use of food transport in city region with more optimised distribution – reduction of transport distance and emissions (high/medium/low/unknown) i104e. Current use of food storage in city region with low energy use (high/medium/low/unknown) i104f. Potential use of food storage in city region with low energy use (high/medium/low/unknown) i104g. Current use of food storage in city region with more optimised distribution – reduction of transport distance and emissions (high/medium/low/unknown) i104h. Potential use of food storage in city region with more optimised distribution – reduction of transport distance and emissions (high/medium/low/unknown) i107a. Potential for increase in decent employment opportunities (multiplier effect) in city region food wholesale and distribution (% increase) i107b. Potential for increase in decent employment opportunities (multiplier effect) in city region food wholesale (% increase) i107c. Potential for increase in decent employment opportunities (multiplier effect) in city region food distribution (% increase) i107d. Potential for increase in income opportunities (multiplier effect) in city region food wholesale and distribution (% increase) i107e. Potential for increase in income opportunities (multiplier effect) in city region food wholesale (% increase) i107f. Potential for increase in income opportunities (multiplier effect) in city region food wholesale (% increase) i107f. Potential for increase in income opportunities (multiplier effect) in city region food wholesale (% increase) i107f. Potential for increase in income opportunities (multiplier effect) in city region food wholesale (% increase)
Diversity of Opportunities for Consumers to Eat Well	i147. Total food/nutritional requirements for the population in the city region. (Household food nutrition requirements multiplied by number of city region population). May be specified for specific food products If possible, differentiate within categories. e.g. children, adolescents, adults and elderly	МоН	distribution (% increase)  i147a. Total monthly beef/pork/chicken requirements for children under 5 in the household  i147b. Total monthly beef/pork/chicken requirements for adolescents in the household  i147c. Total monthly beef/pork/chicken requirements for adults in the household  i147d. Total monthly beef/pork/chicken requirements for the elderly in the household  i147i. Total monthly eggs requirements for children under 5 in the household  i147j. Total monthly eggs requirements for adolescents in the household  i147k. Total monthly eggs requirements for adults in the household  i147l. Total monthly eggs requirements for children under 5 in the household  i147m. Total monthly eggs requirements for elderly in the household  i147n. Total monthly milk requirements for adolescents in the household  i147o. Total monthly milk requirements for children under 5 in the household



by decision of the German Bundestag













			i147p. Total monthly milk requirements for adults in the household
			i147q. Total monthly milk requirements for elderly in the household
			i147r. Total monthly vegetable requirements for children under 5 in the household
			i147s. Total monthly vegetable requirements for adolescents in the household
			i147t. Total monthly vegetable requirements for adults in the household
			i147u. Total monthly vegetable requirements for elderly in the household
			i147v. Total monthly fruit requirements for children under 5 in the household
			i147w. Total monthly fruit requirements for adolescents in the household
			i147x. Total monthly fruit requirements for adults in the household
			i147y. Total monthly fruit requirements for elderly in the household
			i147z. Total monthly fish requirements for children under 5 in the household
			i147za. Total monthly fish requirements for adolescents in the household
			i147zb. Total monthly fish requirements for adults in the household
			i147zc. Total monthly fish requirements for elderly in the household
	i155. Availability of household		i155a. Are there household facilitates for storage of food in low cost areas of the city region (yes, no, unknown)
	facilitates for storage of food and of energy sources for cooking for different consumers in different areas of the city region	CSO / Chamber of Commerce / MoA / MoH / Councils	i155b. Are there household facilitates for storage of food in medium cost areas of the city region (yes, no, unknown)
		Councils	i155c. Are there household facilitates for storage of food in high cost areas of the city region (yes, no, unknown)
			i153a. What % of children under 5 eat more than 5 fruits a day in low income areas
Social Conditions for Consumers	i153. Food choice: percentage of city		i153b. What % of children under 5 eat more than 5 fruits a day in middle income areas
Consumers	region population (per wealth class;		i153c. What % of children under 5 eat more than 5 fruits a day in high income areas
	children) eating more than 5 fruits and vegetables a day/ Average	МоН	i153d. What % of adults eat more than 5 fruits a day in low income areas
	intake of fruits and vegetables for		i153e. What % of adults eat more than 5 fruits a day in middle income areas
	different types of consumers		i153f. What % of adults eat more than 5 fruits a day in high income areas
			i153g. What % of children under 5 eat vegetables a day in low income areas













				i153h. What % of children under 5 eat vegetables a day in middle income areas
				i153i. What % of children under 5 eat vegetables a day in high income areas
				i153j. What % of adults eat vegetables a day in low income areas
				i153k. What % of adults eat vegetables a day in middle income areas
				i153l. What % of adults eat vegetables a day in high income areas
				i153m. What % of children under 5 eat meat a day in low income areas
				i153n. What % of children under 5 eat meat a day in middle income areas
				i153o. What % of children under 5 eat meat a day in high income areas
				i153p. What % of adults eat meat a day in low income areas
				i153q. What % of adults eat vegetables a day in middle income areas
				i153r. What % of adults eat vegetables a day in high income areas
	Presence and Impact skills/training cooking programmes	skills/training cooking programmes	CSO / Chamber of Commerce / MoA / MoH / Councils	i169a. Are there local training programs in cooking or food preparation (yes, no, unknown)
	of Related Policy	(e.g. how to cook from scratch; this also implies knowledge regarding preparation and cultural role )	CopWaste / Water & Sewerage / NATMAZ / Traders / Marketers	i169a. Are there local training programs in cooking or food preparation (yes, no, unknown)
				i182a. What is the quantity of wasted food from markets (number in tons or %)
			CSO / Chamber of	i182b. What is the quantity of wasted food from processing (number in tons or %)
		i182. Volumes of wasted food used directly for human consumption e.g.	Commerce / MoA / MoH / Councils	i182c. What is the quantity of wasted food from retail & catering (number in tons or %)
	Status of Food Waste		Councils	i182d. What is the quantity of wasted food from household consumption (number in tons or %)
	Management Approaches	by food banks/soup kitchens in the city region		i182a. What is the quantity of wasted food from markets (number in tons or %)
		city region	CopWaste / Water &	i182b. What is the quantity of wasted food from processing (number in tons or %)
			Sewerage / NATMAZ / Traders / Marketers	i182c. What is the quantity of wasted food from retail & catering (number in tons or %)
		,	i182d. What is the quantity of wasted food from household consumption (number in tons or %)	
3. Status environment a	of Status of Natural	i28. Pressure on water resources within the city region/ Water use	CopWaste / Councils / Water & Sewerage / MoA,	i28a. Piped water use (limitations) in production in urban areas: agricultural water withdrawal/renewable water resources (high, low, unknown)
C.IVII CIIII CIIC	Incoounce	the dity region, water use	a serverage / wion,	













natural resources degradation	Management	(limitations) and competition: agricultural water withdrawal/renewable water resources	/ ZNFU / Water Affairs	i28b. Piped water use (limitations) in production in peri-urban areas: agricultural water withdrawal/renewable water resources (high, low, unknown) i28c. Limitations for piped water use in urban areas: agricultural water withdrawal/renewable water resources (Hours/week; Hours/day) i28d. Limitations for piped water use in peri-urban areas: agricultural water withdrawal/renewable water resources (Hours/week; Hours/day) i28e. Sources of non-piped water use in food production in urban areas: agricultural water withdrawal/renewable water resources (dug wells away from garden; dug wells within garden; boreholes; stream/river; rainfed, sewer water) i28f. Sources of non-piped water use in food production in peri-urban areas: agricultural water withdrawal/renewable water resources (dug wells away from garden; dug wells within garden; boreholes; stream/river; rainfed; sewer water) i28g. Sources of non-piped water use in food production in rural areas: agricultural water withdrawal/renewable water resources (dug wells away from garden; dug wells within garden; boreholes; stream/river; rainfed; sewer water) i28h. Cost of piped water use in food production in urban areas: agricultural water withdrawal/renewable water resources (number) i28i. Cost of piped water use in food production in peri-urban areas: agricultural water withdrawal/renewable water resources (number)
		i32. Status of natural biodiversity in the city region	MoA / Forestry / ZNFU / ZLA / ZEMA / Councils	i32a. What is the status of natural biodiversity in the city region (intact/degraded/unknown) i32b. What drives the change in the status of natural biodiversity in the city region (text) i32c. Who manages the natural biodiversity in the city region (text) i32d. Do NR legislation and policies support sustainable agriculture practices? (No/Yes)















#### Lusaka

#### • Sustainable Production, Resilience of Production Systems

The aim here is to map and characterize production of key commodities (vegetables, fruits, beef, dairy, pork, fish and poultry). Specifically, it aims at assessing constraints affecting productivity, production and access to markets of key products and the implication of farming practices on the environment.

Different key informants' interviews were conducted, to collect qualitative data on 7 thematic areas:

MAIN CATEGORY	INTERVIEW GUIDING QUESTIONS	SOURCE OF INFORMATION	
1. Access to land and adequacy	1. Where does the food consumed in Lusaka CRFS come from?	Ministry of Agriculture,	
of food production	2. How much is produced locally in the city region?	Ministry of Lands,	
	3. What is the potential of the City Region to feed itself, can it produce enough food for itself?	Zambia Land Alliance,	
	4. Is land for there enough land for agricultural purposes (food production)?	Farmer Organizations,	
	Is it easy to acquire land for agricultural purposes in the city region	DACOs, Councils,	
	5. To what extent does competition between urban development and other land uses e.g.	NGOs	
	residential affect production by farmers?	Lead farmers	
2. Type of products	1. What are the key products (vegetables, fruits, poultry, meats) are produced and consumed	Ministry of Agriculture, Farmer	
	in city Region?	organisations, DACOs, and NGOs	
	2. Who are the main producers of these products stated in 1?	Lead Farmers	
	Who are the other stakeholders in production, marketing, distribution and retailing?		
	3. Can the city region attain agricultural diversification		
	4. Can the products be expanded and diversified?		
3. Food production methods	1. Where are inputs sourced from for the food production?	Lead Farmers,	
	2. What type of inputs are used in crop production (e.g. fertilizers, pesticides, etc)	Ministry of Agriculture, Farmer	
	3. What type of supplements are used as animal feed?	Organizations, DACOs	
	4. Do the farmers use any form of soil conservation measures to protect their land(e.g.		
	rotations, management of farm residues)		
4. Food distribution along	1. Where do the farmers sell their produce?	DACOs, wholesalers, retailers, processors,	
value chain	2. Are there adequate selling points or outlets locally?	distributors, Cooperatives, MAL	















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	3. Is there any value addition at the time of sale?	
	4. How would you compare the level of demand where the food is produced to that in Lusaka	
	City?	
	5. What about transportation infrastructure to markets as well as input distribution-is it	
	adequate?	
5. Management of production	1. What kinds of waste are generated by most farmers in the City Region?	Councils, Lead Farmers, MAL, DACOs,
waste	2. How is the production waste managed?	
	3. Do they use some of the waste in making compost/organic manure?	
6. Occupational health and	1. Do farmers and their workers adhere to use of protective clothing?	ZEMA, MAL, Farmer Organizations,
safety	2. Are they aware and do they implement safety measures in the disposal of expired	DACOs
	chemicals and chemical containers?	
	3. What sanitation and hygiene measures are in place during production?	
7. Resilience of production	1. To what extent do policies and legislation support sustainable agriculture?	MAL, FAO, CFU, Farmer Organizations,
systems (climate change	2. What is the effect of population growth on food production and environment?	DACOs
adaptation/mitigation,	3. Can the City Region be able to feed itself in times of disaster/crises (drought, floods,	
renewable energy	livestock disease outbreak?	
	4. What are the implications of unsustainable agricultural practices on soil, water, forests and	
	water on food production?	
	5. What is the general overview of the impact of climate shocks on farming	















### Food Processing, Supply and Distribution System

The aim here is to characterize the value chain of the main perishable food commodities that are produced and consumed in Lusaka CRFS. Specifically it aims at characterizing the flows of different commodities from the farm to the retail market and catering, and assessing issues of economic and social sustainability economic efficiency, employment, inclusiveness, food waste and losses.

Different key informants' interviews were conducted, to collect qualitative data on 7 thematic areas:

MAIN CATEGORY	INTERVIEW GUIDING QUESTIONS	SOURCE OF INFORMATION
1. Food flow for the	1. Where is the food consumed in Lusaka CRFS comes from?	1. MoA, Ministry of Commerce, and CSO
main commodities	2. what Commodities are produced and consumed	2. CSO, farmer organisations, traders association,
	3. Who are the main stakeholders in production, marketing, distribution and retailing?	distributors, DACOs, LCC, CSO and NGOs.
	4. Can the sectors be expanded and diversified?	3. As in 2
		4. as in 2
2. Infrastructure along	1. Is there supply and distribution infrastructures along the value chains? (roads, storage	1. Local authorities, Transporters CSO data, MoA.
the value chain	facilities etc.: roads, storage facilities, processing and manufacturing plants, wholesale	2. As in 1 plus wholesalers, retailers and Chamber of
	markets, food retail markets (supermarkets, informal markets, etc.)	Commerce.
	2. Can transport efficiency be increased along the value food chain?	
3. Governance of	1. What Roles do middlemen play in the food chain?	1. Local authority, CSO (ZNFU, NATMAZ, WVI),
markets	3. How accessible is the market to the small scale holders?	marketeers.
	4. Is there any Competition between locally and imported products	2. Local authority, MoA + CSOs); interview, FGDs
	5. Are there appropriate governance mechanisms for the markets?	(marketeers)
	6. Can more value be added (jobs; income; other multiplier effects) by enhancing city	3. FDG (as in (2)); interview with retailers, marketeers
	region food supply distribution?	+ street vendors (for fruits)
	7. Can the city region food marketing, catering and retail sector be expanded and	4. as in1
	diversified?	5. CSO
		6. & 7 as in 2
4. Governance of	1. Can more value be added (jobs; income; other multiplier effects) by enhancing city	1. (CSO, Labour Office, MoA, ZNFU), producers,
employment	region food supply distribution?	retailers, distributors).
	2. Explain the type of employment and level of wages paid.	2. as in 1
		3. as in 1















	3. How many city region food supply distribution jobs can a re-localized city region food system support and how much can it contribute to the regional economy?	
5. Governance of product prices	<ol> <li>What is the estimated cost of production, primary processing, transportation &amp; storage?</li> <li>What are commodity price dynamics from farm to retail?</li> </ol>	1. Producers, retailers, transporters, distributors, fisheries, MoA, CSO, 2.Producers, retailers, wholesalers, MoA & CSO
6. Energy	<ol> <li>Is energy available for food systems?</li> <li>What are the main energy types for the food systems?</li> <li>What are the main energy sources for the food systems?</li> </ol>	<ol> <li>MoE, MoA, Central Statistical Office, ZNFU, ZESCO.</li> <li>Producers, processors, storage, MoA, MoE, ZNFU.</li> <li>Statistics from MoA, MoE&amp; CSO</li> </ol>
7. Food loss & waste	1. What type of food is (a) wasted, (b) quantities, (c) reasons, from i. Major markets. ii. Transport, storage, & processing. iii. Households.  2. How are food losses and waste handled throughout the value chain? 3. Is food safety adhered to during handling?	<ol> <li>MoA, ZNFU, WVI, NATMAZ.</li> <li>Marketeers, vendors, Transporters, storage, processors (producers + other processors).</li> <li>Households</li> </ol>













#### Consumption, Food Security and Nutrition

The aim is to (i) demonstrate link between the CRFS objectives and the individual organization or institutional missions; (ii) review of policies, programmes that relate to food availability, access, consumption food security and nutrition in the City region.

Different key informants' interviews were conducted, to collect qualitative data on 4 thematic areas:

Theme	Key Questions	Key Participants
1. Consumption	1) What do people in the city region eat?	City and District Council Officials.
	2) Are there any preferences between local and non –regional foods?	National Food and Nutrition Commission
	3) What are the different diets existing by social, economic and cultural groups?	(NFNC), JCTR
	4) What are the different sources of the food consumed?	MoH, MCDSS, MACO, MLF
	5) Are there any preferences between local and non –regional foods?	
	6) How can city region food security, availability, safety, appropriateness, utilization and transparency be enhanced?	
2. Nutrition and Food	1) What is the extent of obesity and how is it being managed?	National Food and Nutrition Commission
safety	2) What are the common food related diseases risks?	(NFNC),
	3) What polices, codes are there to manage consumption of fast foods?	MoH, JCTR
	4) What is the nutritional and food security status of the different CRFS's dwellers?	
	5) What are the drivers of food insecurity, and malnutrition?	
3. Governance	1) Has Food System Planning been integrated in urban planning and city policy making?	City and District Council Officials.
	2) What is the spatial correlation between food insecurity and physical/economic access	MoH, MCDSS, MACO, MLF, Market
	to food?	Organization, MLNR
	3) What policies are there to manage malnutrition, food insecurity for the vulnerable groups- the existing food safety nets?	
	4) How effective are food safety regulations?	
	5) Degree of recognition of rural- urban linkages in food policies and plans.	















Ī	4.	Environment and Food	1)	What is extent of food wastage?	Retail chains (Spar, Pick and Pay and
ı		waste	2)	How is waste managed?	Gamestores.
ı			3)	What is the awareness of sustainable diets?	Market Organization
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#### Colombo

Some of the data required for qualitative indicators needed to be collected from key informants in various institutions and markets. These indicators require more depth reasoning for the available quantitative evidences, which need to conduct in-depth interviews with the informants. The researchers conducted in-depth interviews to get relevant information from selected experts in the related fields. In-depth interviews were used when, because of geography, logistical issues, or the complex nature of the indicator topics to be explored, conducting focus groups or face-to-face interviews was either impractical or inappropriate.

Interviews were conducted with various supply chain stakeholders, and employees from shops, restaurants and eating houses.

#### **Key informant Interview Guides**

### • Supply chain members

Apart from surveys, few supply chain members including farmers, whole sellers, and commission agents and retailers would interview to get their views on developing sustainable food system in Colombo.

- i. Identification of the changes of farming in the locality over the years
- ii. What are the Impact of climate changes and their impact on their farming practices
- iii. What are the problems/issues faced by them
- iv. What is possibility of reducing harmful practices that create food safety issues?
- v. What are the possible remedial actions against using harmful chemicals in food system?
- vi. How they view their role in food system? Are they satisfied with what they do?
- vii. What are the help/assistance needed by them to improve their productivity and efficiency?
- viii. What would be the future/ next generation's involvement in what they do?

#### Employees of shops/restaurants/eating houses

In order to get information for employee sanitation, health and safety, employees of shops/restaurants/eating houses would be interviewed within the following broader framework.

- i. Get to know the socio-demographics and Experience in food industry
- ii. Self-evaluation regarding the food safety maintenance in his/her shop/restaurant
- iii. Assessment of sanitation facilities they are having, problems and how it effect on food processing
- iv. What are the health and safety measures provided to them
- v. Whether owner is concern about the health and safety about the employees
- vi. What are the needed improvement for provide healthy and safe food to customers





