



The adoption of a skills ecosystem approach to transition South Africa's food system to one which is just and resilient

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Transformations in food systems and agrifood value chains: How do work and employment come into play?

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Introduction

For South Africa's food system to transition to one that is just, resilient and sustainable, it requires the appropriate jobs, knowledge and skills to do so.

- Research project in South Africa, funded by the National Research Foundation

 Universities of Witwatersrand and Zululand, and Rhodes University
- 5 post-graduate students (masters and PhD)

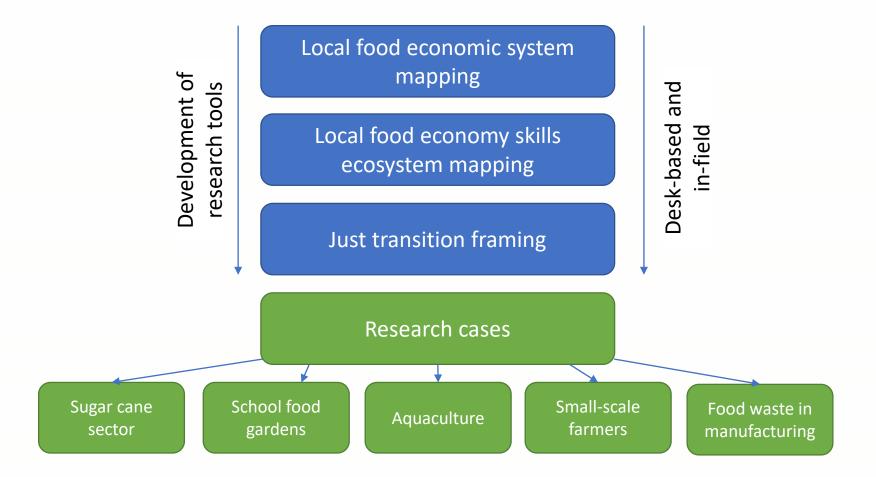
Introduction

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- Research project in South Africa, funded by the National Research Foundation Universities of Witwatersrand and Zululand, and Rhodes University
- 5 post-graduate students (masters and PhD)
- Adopting a skills ecosystem framework to inform skills planning to aid in a just transition



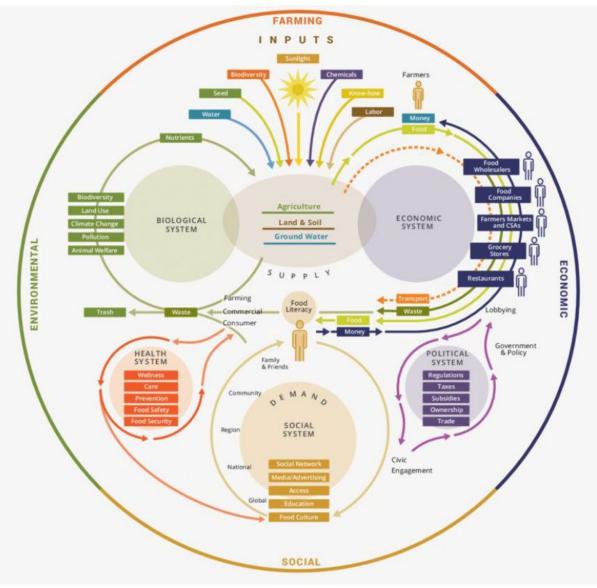
Skills ecosystem approach



Inform skills ecosystem methodology for sustainable food system transition

- Identification of place-based / regional jobs and skills
- Inform transitioning strategy, planning and SFS national pathway

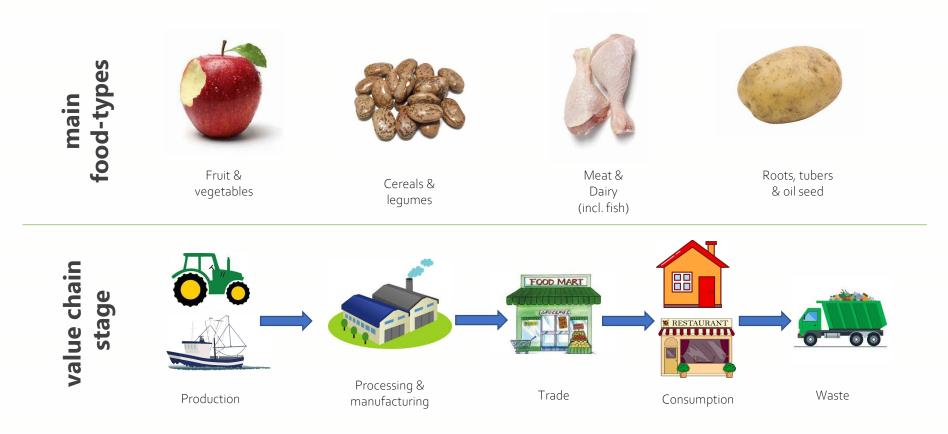
Local food economic system mapping



Source: (TEEB, 2018)

Local food economic system mapping

Main food-types and activities in selected region



Local food economic system mapping

Who are the main actors?

1	LOCAL FOOD ECONOMIC SYSTEM MAIN ACTOR MAP: EASTERN CAPE						
2							
3		Main food value chain stages					
4		Grown / produced	Processed / manufactured	Traded (incl. wholesale)	Consumed	Wasted	
5	Core actors						
6							
7							
8							
9							
10							-
11							
12							
13	Operational se	rvice providers					
14							
15							
16							
17							
18							
19							
20							
21	Support service providers						
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23							
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25							
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29							

Core actors

Individuals and businesses actively involved in the production, processing, manufacture, and trading (selling incl. wholesale) of food. They handle food.

Operational service providers

Individuals, businesses, and organisations that provide services and materials to the core actors in order for them to operate e.g. packaging suppliers; raw materials suppliers; machine & equipment suppliers; and utility suppliers.

Support service providers

These are institutions that provide association membership support, government departments that are mandated to develop and implement policy and legislation, employee representation e.g. unions

Local food economy skills ecosystem system mapping



Skills ecosystem system mapping

Food-related and education policy



Skills ecosystem system mapping

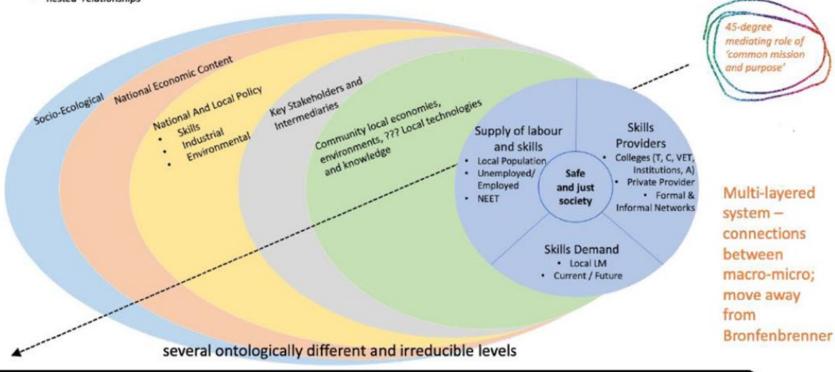
Identification of education and training providers



Skills ecosystem system mapping

Horizontalities and verticalities

- Also, broad social ecosystem contains different types of sub systems
- · Layered; interlocking and ultimately collaborative
- 'nested' relationships



(Ramsarup, Russon & Lotz-Sisitka, 2020)

Collaborative Horizontalies

Just transition of a regional food economy

Considerations of justice

To transition a local food economy to one which is just and regenerative by 2050, various activities need to be considered:

Procedural (participatory)

"A key underlying assumption in just transition discussions is that a just outcome can only emerge out of an inclusive process. It is embodied by the drive to achieve procedural (or participatory) justice.

It focuses on facilitating an inclusive decision-making and implementation process, paying particular attention to enabling and empowering vulnerable and oft-neglected stakeholders to take part" (Montmasson-Clair, 2021b, p. 10).

Distributive

"Achieving distributive justice within a just transition context hinges on addressing the direct negative impacts associated with the transition, such as loss of economic activity, employment and livelihood (Montmasson-Clair, 2021a).

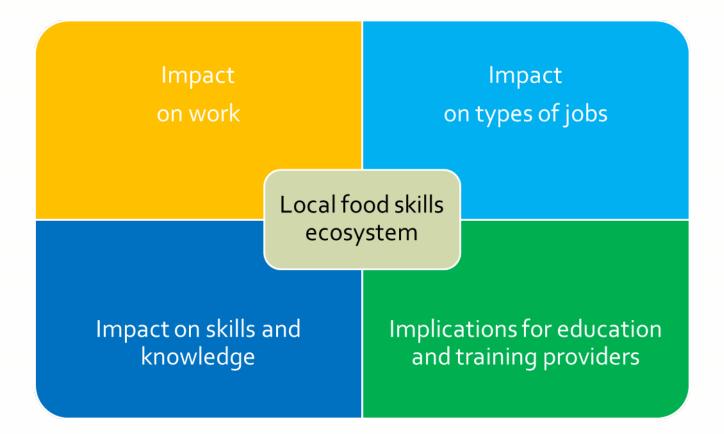
It relies on harnessing a set of (generally) existing tools to lessen or mitigate adverse impacts as well as generate counter-balancing positive forces (Makgetla et al., 2020)" (Montmasson-Clair, 2021b, p. 12).

Restorative

"Restorative justice is a fundamental pillar of the just transition agenda. ... It is a core pillar to improve the economic, social and environmental resilience of vulnerable stakeholders, activities and regions, as well as address longstanding inequalities in gender, race and class" (Montmasson-Clair, 2021b, p. 19).

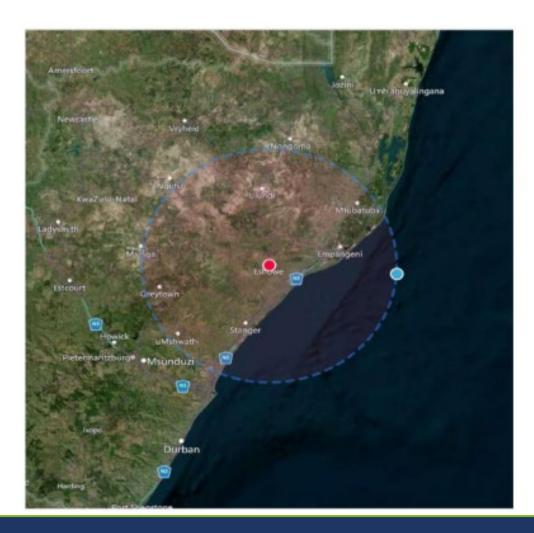
Just transition of a regional food economy

Implications on the skills ecosystem on a just transition pathway



Overview

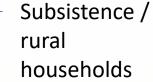
Richards bay / Kwadlangezwa, Kwazulu Natal (KZN)



Main food types / food system dynamics







Skills ecosystem

KwaZulu_Natal Food-related education & train File Edit View Insert Format Data Tools Help		• •	🗏 💽 📩 Share
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- fx University of Zululand			
А	В	С	D
OOD-RELATED EDUCATION AND TRAINING PROVIDERS: K	NAZULU-NATAL	Only list education and training providers that operate in your 150	0km local food economic system boundary.
lame of provider	Location (e.g. closest village, town, city)	Course / Research programme [Course description e.g. short-course, in-field, Masters Programme etc]	Brief description of the course
niversity of Zululand	Kwadlangezwa, South of Empangeni	Bachelor. Agriculture (Animal Science)	Involves the study of animal breeding and genetics, physiology and the nut of all farm, equine and companion animals.
	Richards Bay	BSC Agriculture (Agricultural Bussiness and Management)	The course fosuces agricultural production and science with a variety of bu disciplines, preparing you for entrepreneurial, management and leadership in the agricultural sector.
		BSc. Agriculture (Plant Science)	This is an agricultural Science and Technology course. Plant science covers enormously broad area, incorporating many biological disciplines from ger through molecular and cellular biology, to whole organisms.
		Bachelor of Consumer Science (Extension and Rural Development)	The Course focuses on Agribusiness management, Food and agrciultural p and Rural Development
		Bachelor of Consumer Science (Hospitality and Toursim)	The Courses focuses on Catering, hotel management restaurant managem toursim management and food and beverage management
		Diploma in Hospitality Management	Study invloves food and beverage management, and Culinery studies
		Diploma in Logistics Management	This is a course in bussiness management domain , it focuses in concepts of logistics and the shaping of the modern supply chain management
		Diploma in Transport Management	Transportation Management is to provide both theoretical knowledge and practical skills in the field of Transportation Management in various sectors
		Thank you	
niversities of Technology (e.g. Tshwane University of Technology)			
Purban University of Technology	Pietermartizburg (Umshwathi Municipality	Diploman in Consumer Sciences in Food and Nutrition	Graduates will be able to display competences in the integration and applic of scientific-based food and nutrition theoretical and practical knowledge a culinary skills in food production, food retail and food service; with the aim improving consumer

Core transition jobs identified



Field data collector



Food processing worker



Agricultural extension officer



Agricultural insurance officer



Warehouse worker



[Food] waste manager



Food & beverage waiter



Food packer



Small-scale fisher



Horticultural worker



Supply chain officer



Truck driver







Thank you

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