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Spatial and Temporal Patterns of Consumption of Animal-source Foods in Tanzania

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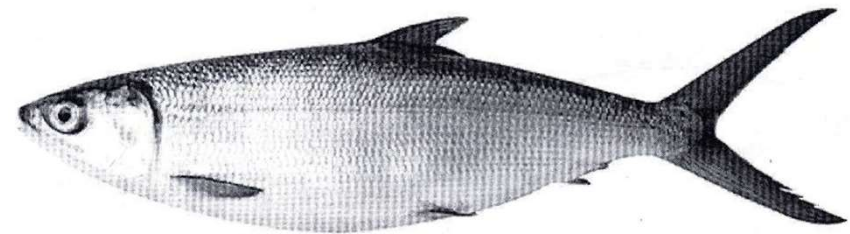
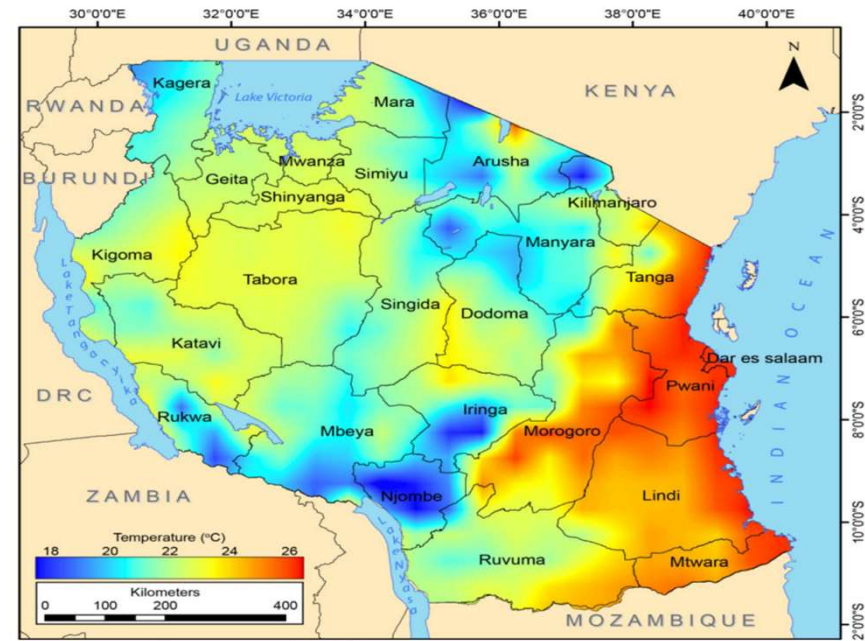
Introduction

- Animal-source foods (ASFs)- micronutrients
- Information is scant about the demand for and the factors influencing ASFs consumption.
- Temporal and spatial dimension?
- Important to inform interventions



Study Objectives

- Assess changes in consumption patterns of ASFs among households
- Estimate price and expenditure elasticities of ASF demand in Tanzania.



Methods

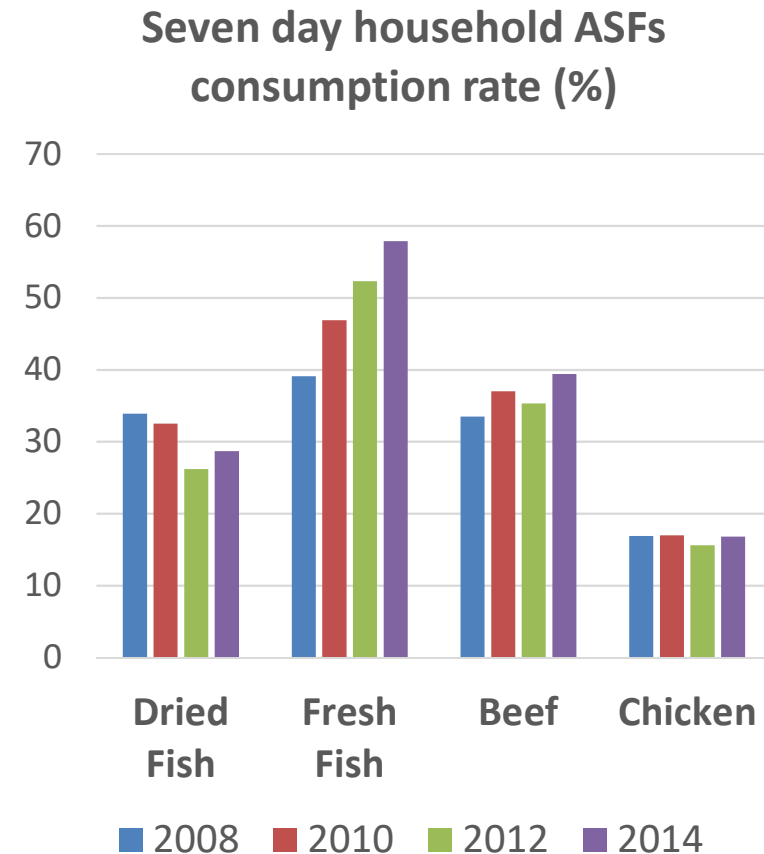
- Data from the Tanzania National Panel Survey (NPS). Four survey rounds from 2008 to 2014.
- A censored Quadratic Almost Ideal Demand System (QUAIDS) model.
- Shonkwiler and Yen (1999)'s two-step procedure



Results (1)

ASFs consumption patterns by time and geographies

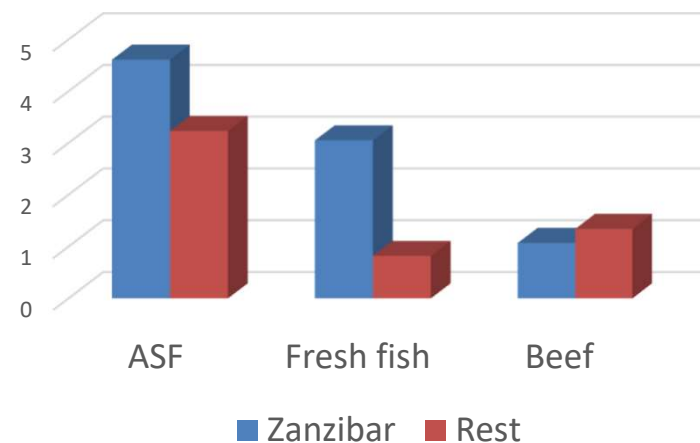
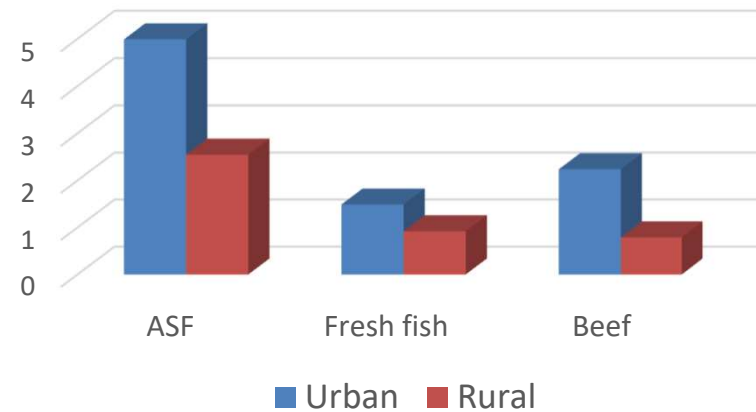
- Dried fish consumption rate decreased; Fresh fish consumption rate increased;
- Beef consumption rate increased; no substantial change in chicken and lamb



Results (2)

- Urban households ASFs consumption was twice that of rural ones; A similar pattern for fresh fish and beef.
- Households in Zanzibar consumed more fresh fish
- Dar es Salaam had a much higher weekly expenditure.

ASFs consumption expenditure (USD/week)



Price and expenditure elasticities of ASF demand

	Dried Fish	Fresh Fish	Beef	Chicken	Lamb	Pork	Expenditure
Dried Fish	-0.78***	0.188***	0.317***	0.026	0.059	0.105	0.085
Fresh Fish	-0.164***	-1.384***	0.095	-0.001	0.069	-0.001	1.386***
Beef	0.014	0.244***	-1.297***	-0.07	-0.029	0.078	1.059***
Chicken	-0.196	-0.337*	-1.298***	-2.579***	0.545	1.657***	2.208***
Lamb	0.034	0.631***	-0.139	0.247	-1.177***	-0.584***	0.987***
Pork	0.51***	0.22*	0.814***	1.165***	-0.98***	-2.512***	0.784***

Own-Price and Expenditure Elasticities: Rural vs Urban

	Rural		Urban	
	Price	Expenditure	Price	Expenditure
Dried Fish	-0.876***	0.151**	-0.586***	0.062
Fresh Fish	-1.42***	1.24***	-1.277***	1.344***
Beef	-1.742***	1.513***	-0.954***	0.819***
Chicken	-4.654***	2.82***	-1.017***	2.212***
Lamb	-1.512***	1.039***	0.144	1.713***
Pork	-2.564***	0.651***	-1.069**	1.145*

Conclusions

- ASFs consumptions in Tanzania have changed over time and geographies--- changes in fresh fish and beef consumption are more than other ASFs.
- Interventions target increasing household income have the potential to improve food and nutrition security in Tanzania.
- Follow up studies to include all food items and investigate ASFs consumption and its nutritional impacts.

Thank You



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