







# DOTHE POOR THINK THEY'RE POOR? WELFARE METRICS, MONITORING AND MAPPING IN COASTAL KENYA

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Lessons from a Decade's Research on Poverty:
Innovation, Engagement and Impact

10<sup>th</sup> anniversary conference of the
ESRC—DFID Joint Fund for Poverty Alleviation Research
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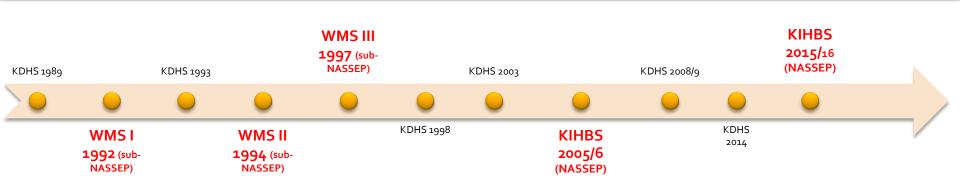








### Rationale



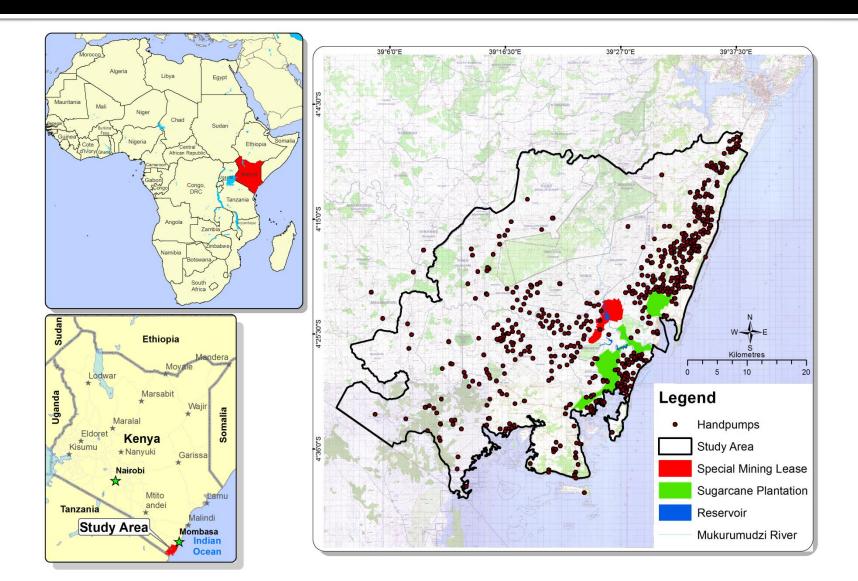
- Infrequent national surveys and a dominant income/expenditure poverty analysis has contributed to;
  - Weaknesses in tracking welfare changes
  - Uncertain links between long term (slow welfare changes) and short term (fast welfare changes) transitions
  - Difficulty in accounting for the impacts of environmental, economic, political and insecurity shocks on welfare
- Subjective welfare assessment is rarely assessed and compared in these surveys

Ravallion 1992; Ravallion 2011; Olsson et al. 2014, Beegle et al. 2016, Ferreira & Lugo, 2012, Alkire & Santos, 2011, Filmer & Pritchett, 2001; Kristjanson et al. 2010; IMF & World Bank 2014

### Research Questions

- 1) Is a 'fast' welfare index internally coherent and consistent, and comparable to a combined (slow and fast) welfare index?
- 2) How do fast and combined welfare indices coincide with subjective welfare assessments?
- Do fast and combined welfare indices evaluate temporal and spatial welfare dynamics consistently?

## Study Area



## Why Kwale County?



## Methodology: The survey

**Training Field Teams** 



Household sampling and Survey













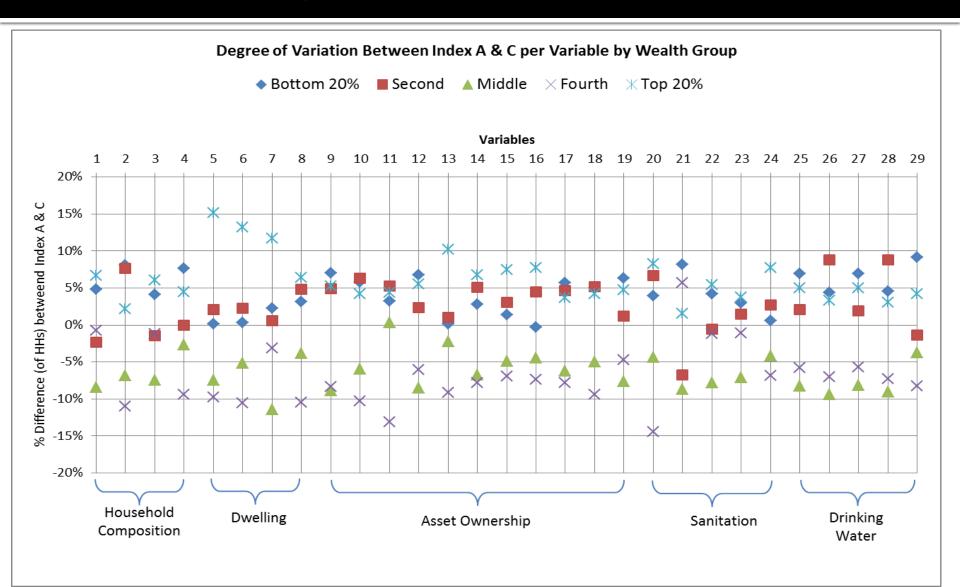
Household composition; Dwelling characteristics; Asset Ownership; Sanitation and health; Drinking water. [29 combined indicators vs 8 Fast Indicators]

# Provisional Results (Wealth groups by Welfare Indices)

Percentage of households in different wealth groups by welfare indices, year 2014.

Wealth Group;	Combined Welfare	Fast Welfare Index C
(n = 3,229)	Index A (29 variables)	(8 variables)
Bottom 20%	10%	16%
Second	27%	28%
Middle	30%	22%
Fourth	23%	18%
Top 20%	10%	15%
Spearman Rank Co (Households)	0.908**	

## Provisional Results (Consistency between Welfare Indices)



### Provisional Results (Stability of HHs)

		Fast Welfare Index C (8 variables)
	Households with falling welfare	21%
Coastal	Status Quo	62%
	Households with rising welfare	17%
	Households with falling welfare	29%
Inland	Status Quo	59%
	Households with rising welfare	11%
	Households with falling welfare	18%
Ukunda Town	Status Quo	64%
	Households with rising welfare	18%

Relative Welfare Changes due to Welfare Index C (by Locality) Year 2014: Reference is Combined Welfare Index A (29 variables)

## Provisional Results (Subjective Welfare vs Welfare Indices on Wealth Group)

				Weal <sup>.</sup>	th gro	υp, n= <u>։</u>	3,229			
	Com	bined	l Welf	are In	dex	Fa	st Wel	fare In	idex (	-
		<b>A</b> - 29	varia	bles			8 va	riable	S	
	Bottom 20%	Second	Middle	Fourth	Top 20%	Bottom 20%	Second	Middle	Fourth	Top 20%
Average	2%	15%	28%	34%	21%	5%	19%	22%	25%	28%
Not well off	15%	36%	31%	15%	3%	24%	35%	23%	13%	6%

Overall Cross Tabulation of Subjective Welfare versus Welfare Indices

## Provisional Results (Subjective Welfare vs Welfare Indices on Welfare Change)

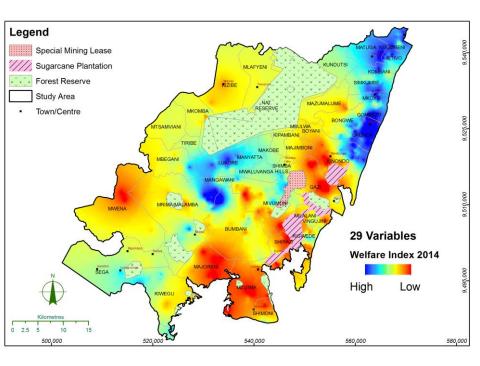
Cramer's V coefficient on Positive/Negative Change		
	Subjective Welfare,	
Welfare Indices	n=1,275	
Combined Welfare Index A 29 variables	0.368**	
Fast Welfare Index C 8 variables	0.420**	

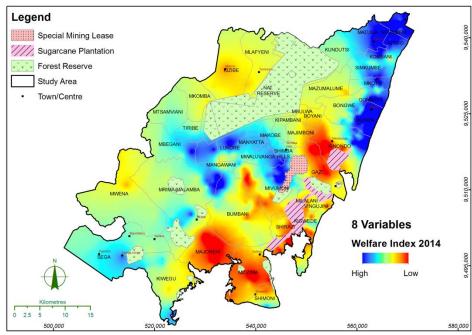
<sup>\*\*</sup> Statistically significant at p<0.001. Note: V=phi for a 2 by 2 matrix

# Provisional Results (Mapping Welfare) Year 2014

### **Combined Welfare Index**

#### **Fast Welfare Index**

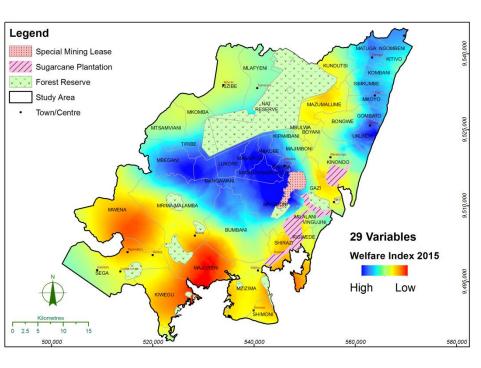


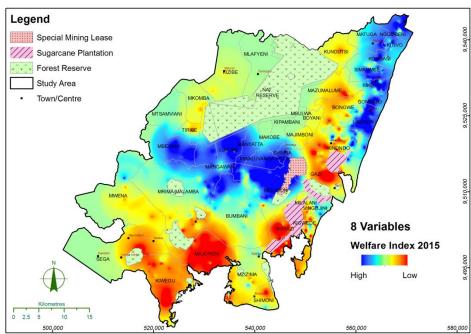


# Provisional Results (Mapping Welfare) Year 2015

### **Combined Welfare Index**

#### **Fast Welfare Index**

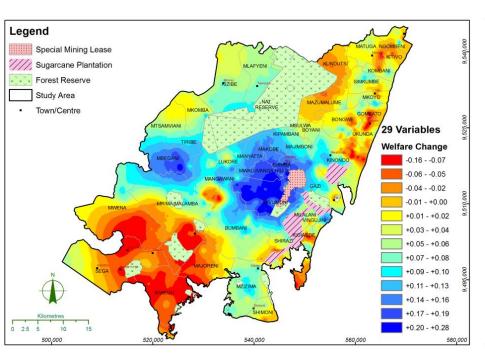


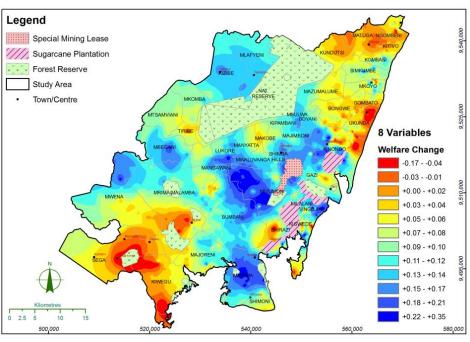


# Provisional Results Welfare Change over 1 Year

### **Combined Welfare Index**

#### **Fast Welfare Index**





## Conclusion

- Mapping welfare transitions using different methodological approaches provides decision-makers with new and visual evidence to illustrate dynamic processes and help understand how they affect different groups over space and time.
  - For example, how do different communities benefit from proximity to a major mine, and how are benefits distributed?
  - Do terrorism events affect the poor more than the non-poor in the short and long term?
- 'Faster' time-step monitoring of welfare to support new County Governments in Kenya shape policy in political windows rather than lagged and irregular traditional survey rounds.
- Rapid and low-cost SMS surveys could be used in future to track future climate or economic shocks directly against welfare changes in terms relevant for policy action.