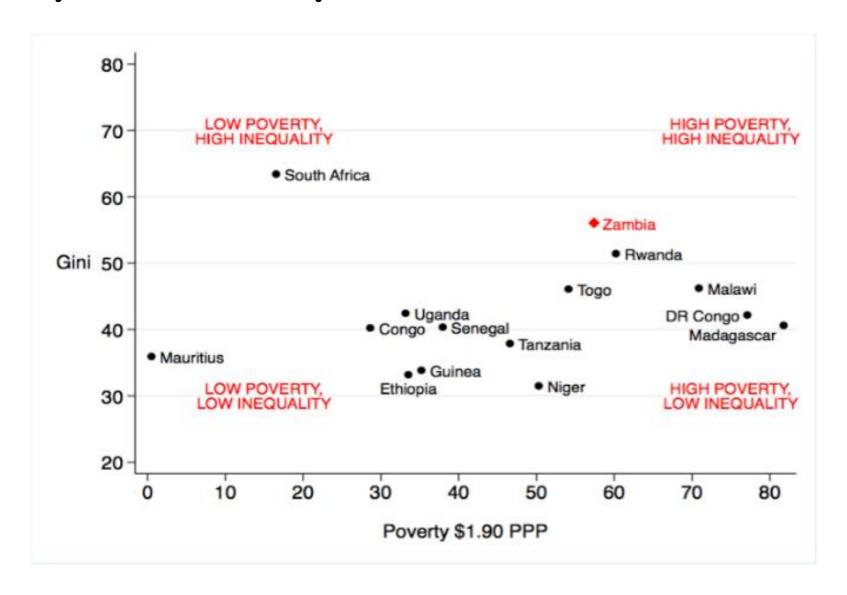
The Impact of Fiscal Policy on Inequality and Poverty in Zambia

July 6, 2017



Why conduct a study of fiscal incidence in Zambia?



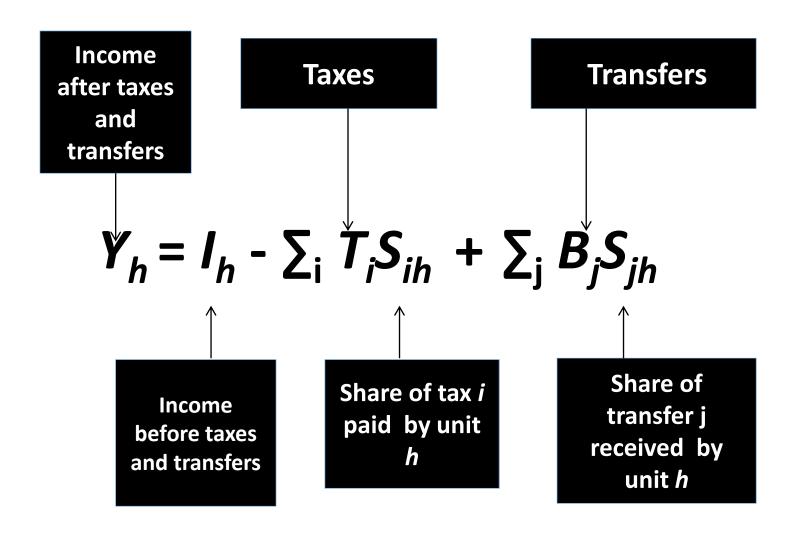
What sort of policy relevant question this study aims to answer?

- (i) What is the impact of taxes and transfers on inequality and poverty?
- (ii) What is the contribution of specific fiscal interventions to the overall impact?
- (iii) What is the impact on inequality and the poor of simulated fiscal policy reforms?

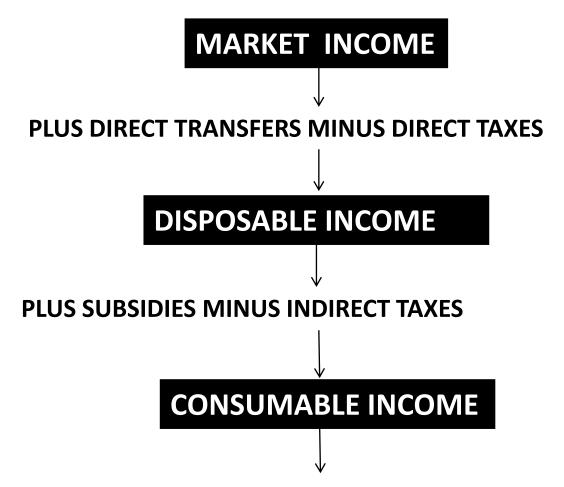
Methodology

- Fiscal incidence analysis that relies on the Commitment to Equity Approach Methodology
- Accounting approach: no behavioral responses; no general equilibrium nor inter-temporal effects, but it incorporates assumptions to obtain economic incidence (not statutory)
- Point-in-time
- Mainly average incidence; a few cases with marginal incidence
- Direct Identification in microdata (However, results must be checked: how realistic are they?). If information not directly available in microdata, then: Simulation, Imputation, Inference, Prediction, Alternate survey, Secondary sources.

Fiscal Incidence Analysis



Income Concepts Considered



PLUS MONETIZED VALUE OF PUBLIC SERVICES: EDUCATION & HEALTH



Higgins and Lustig. "AAllocating Taxes and Transfers, Constructing Income Concepts, and Completing Section C of CEQ Master Workbook" in Lustig (editor) Commitment to Equity Handbook. A Guide to Estimating the Impact of Fiscal Policy on Inequality and Poverty, Tulane University, Fall 2016.

Data Sources

- Micro-data set with household or individual budgets:
 2015 LCMS, 2013-14 DHS
- Budget figures, MTEF, Annual Economic Performance Report
- Administrative data at the program level:

SCT

FISP, Fuel, Electricity subsidy spending

Education Statistical Abstract

Health Statistical Abstract

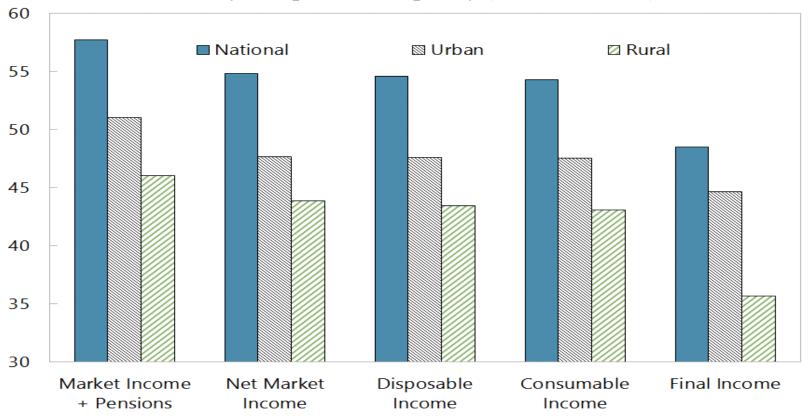
■ Third-party reporting and secondary sources: SCT evaluations

Main Results

- Fiscal policy in Zambia reduces inequality, mainly when in-kind transfers are taken into account (though the underlying causes are not necessarily positive lower pre-fiscal incomes and higher dependency ratios for education & more proneness to sickness).
- But impoverishes the majority of the population because their net contributions to the fiscal system were larger than net receipts.
- Direct cash transfers are too small to make a dent on poverty.
- Subsidy expenditures are almost completely concentrated in rich households, and yet they only provide a *marginal* boost to rich households incomes. This is a huge opportunity cost: an equally-sized transfer delivered to the poorest 10 percent would provide them an income boost of about two-fifths of disposable income.

The fiscal system reduces inequality...

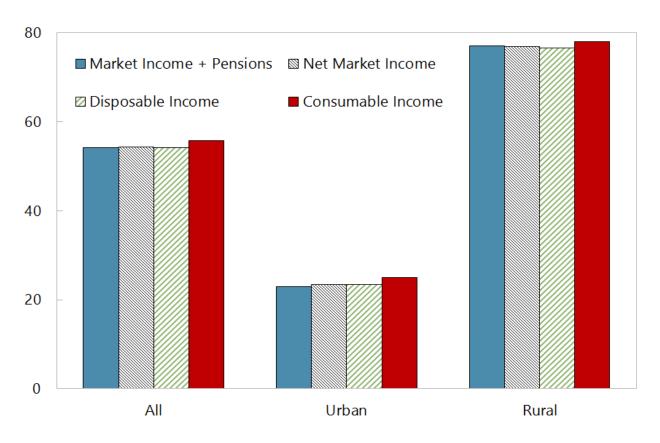
Fiscal Policy's Impact on Inequality (Gini coefficient), 2015



Source: Authors' estimates based on LCMS 2015.

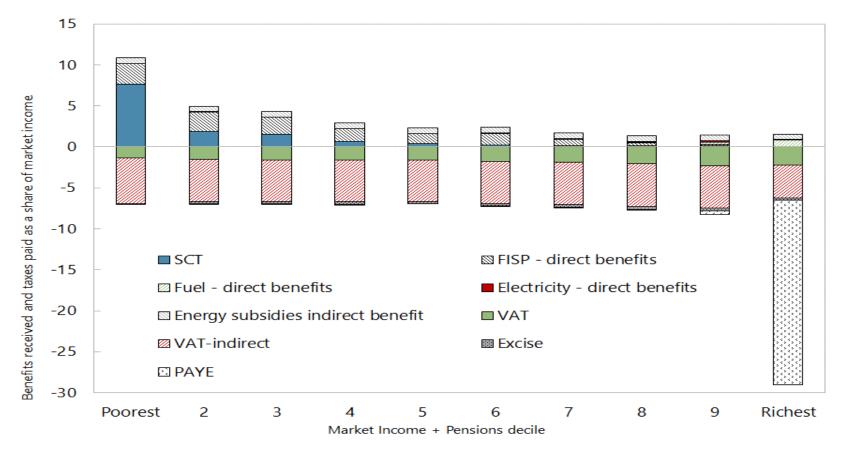
But increases poverty

Fiscal Policy's Impact on the Poverty Headcount Ratio, 2015



Source: Authors' estimates based on LCMS 2015.

Fiscal impoverishment happens because most (poor and vulnerable) households receive less from the fiscal system than they pay into it (in cash terms)



Source: Authors' estimates based on LCMS 2015.

All benefits, subsidies, and indirect taxes as a share of disposable income

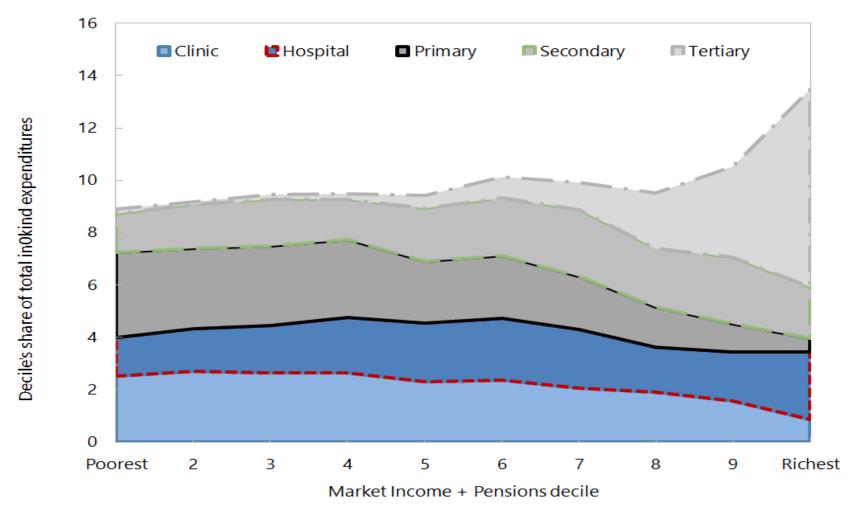
Income taxes are borne by rich households; indirect taxes (VAT, Excise) are borne by everyone.



Source: Authors' estimates based on LCMS 2015.

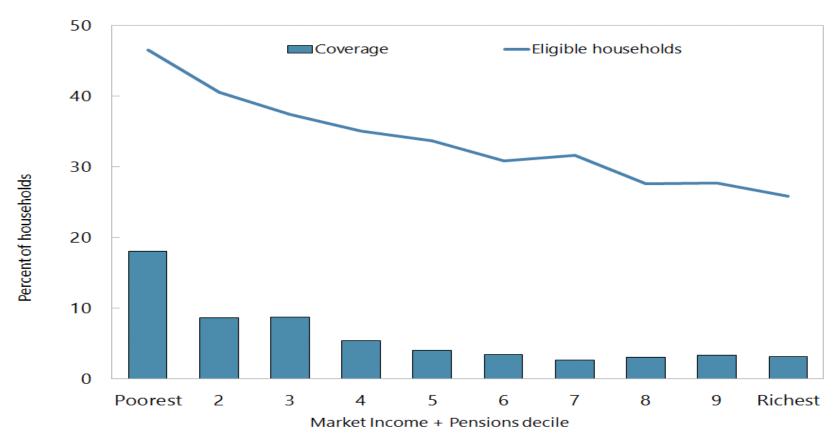
Concentration shares of total taxes collected, by decile and by tax

Poor and non-poor households capture unequal shares of the available in-kind benefits



Source: Authors' estimates based on LCMS 2015.

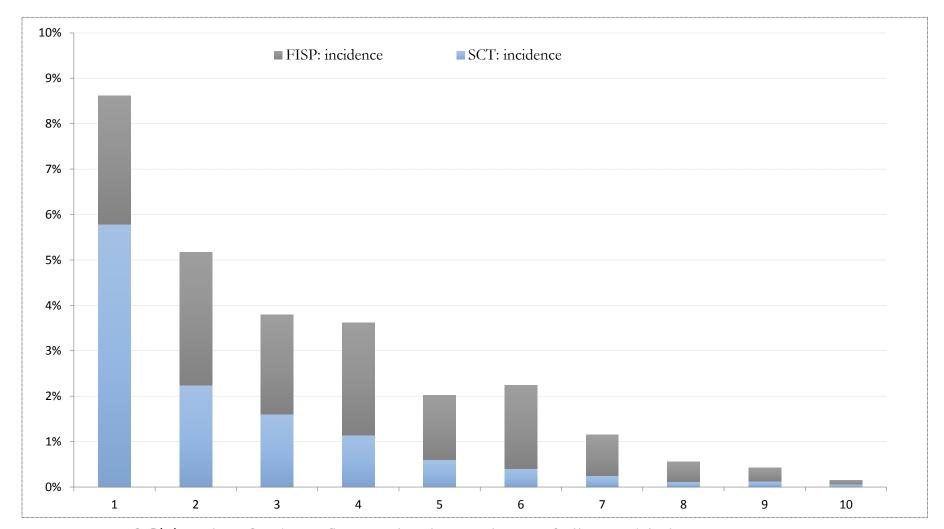
SCTS is pro-poor, but provides low coverage and the top 60 percent still captures 2/5ths of program benefits



Source: Authors' estimates based on LCMS 2015.

Share of SCT-eligible and SCT-receiving households, by decile (left to right: poorest to richest deciles)

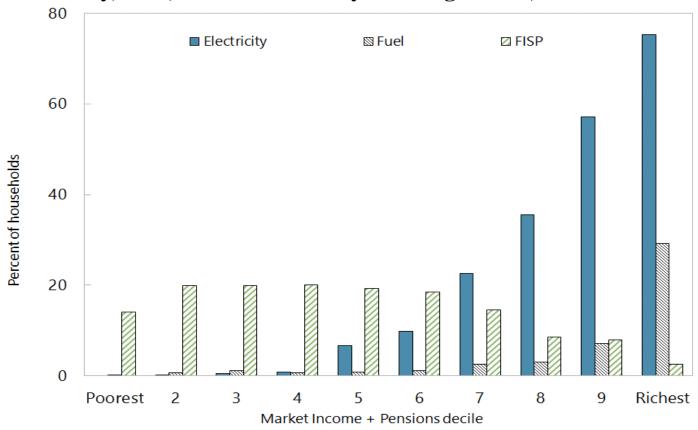
FISP is a more important income source than cash transfers for all but the poorest households



SCT and **FISP** benefits received as a share of disposable income (by decile)

Energy subsidies – especially fuel subsidies – are received by rich households; FISP is concentrated in the middle of the income distribution

Electricity, Fuel, and FISP Subsidy Coverage Rates, 2015



Source: Authors' estimates based on LCMS 2015.

Percent of households receiving subsides

Main Results of Fiscal Policy Reform Simulations

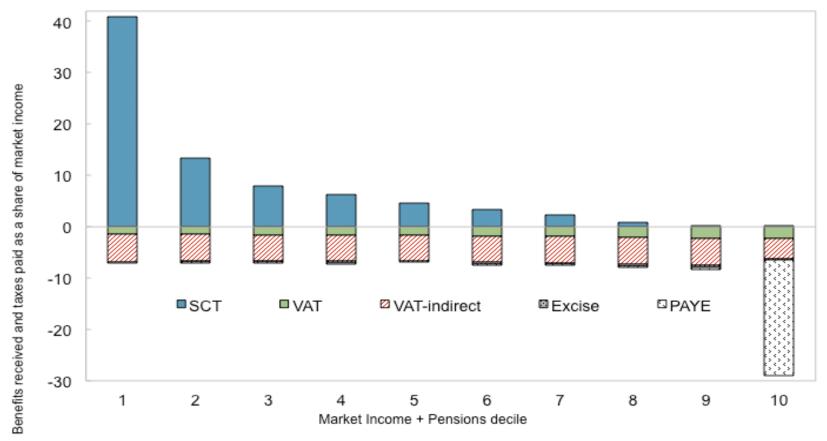
Fiscal Reforms and Poverty, Inequality Impacts

	@ Disposable Income			@ Consumable Income		
	Poverty	verty Poverty Inc.	Inequality	Poverty	Poverty	Inequality
	Headcount	Gap	inequality	Headcount	Gap	
Current/2015	54.4%	0.26	0.546	56.3%	0.28	0.543
Partial	53.9%	0.25	0.539	56.0%	0.27	0.534
Full	50.3%	0.24	0.539	53.3%	0.25	0.537

Source: Authors' estimates based on LCMS 2015.

Notes: "Partial" reform includes the elimination of fuel and electricity subsidies and an increase in coverage of the SCT program to 500,000 beneficiaries, and a 28 percent increase in SCT benefit levels. The increased SCT cost under "partial" reform represen 7 percent of foregone energy subsidy expenditures. "Full" reform includes the elimination of fuel, electricity, and FISP subsidiar and an increase in coverage of the SCT program to 500,000 beneficiaries, and a 100 percent increase in SCT benefit levels. The increased SCT cost under "full" reform represents 18 percent of foregone energy and FISP expenditure.

Eliminating all subsidy spending and increasing SCT coverage and benefit levels would lead to the bottom $1/3^{rd}$ becoming net recipients



Source: Authors' estimates based on LCMS 2015.

All benefits, subsidies, and indirect taxes as a share of pre-fiscal income after subsidy elimination and compensatory SCT transfers