Implementation of Microsimulation Model in Stata

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HOUSEHOLDS				
id household identifier num / str				
hhd	household group in SAM	num		
		ex: 1=rur, 2=urb		
size	household size (number of members)	num		
popwt	population weights to use with income	num		
yh	household total income	num		
yhpc	household per capita income	num		
ch	household total consumption	num		
chpc	household per capita consumption	num		
popwt_con	population weights to use with consumption	num		
ytrgov	transfer income form rest of the world	num		
ytrrow	transfer income form government	num		
pl_moderate	moderate poverty line	num		
pl_extreme	extreme poverty line	num		
pl_1usd	1 US\$ poverty line	num		
pl_2usd	2 US\$ poverty line	num		



ALL INDIVIDUALS				
age	age	num		
male	gender (*)	1 = male		
		0 = female		
skill	skill level	num		
status_lab	labor status	1 = employed		
		2 = unemployed		
		3 = inactive		
member	sample used in labor market microsim	1 = included		
		0 = not included		
(*) = 1 for a	Il when using microsim with MAMS.			

EMPLOYED INDIVIDUALS				
ylab	labor income	num		
sector	sector of employment	num		
		ex: 1=agr, 2=mnf, 3=svc		
categ	occupational category (*)	num		
		ex: 1=formal, 2=informal		
(*) = 1	for all when using microsin	n with MAMS.		

licrosim-UGA				
Extract- Res	MAMS- ults	Link-MAMS-MS	Microsim	
	rmicrosim.bat	db_in		db_in
		db_out		db_out
		do (master2.do)	do (r	naster.d
			indi	cators_d
				output























Running Simulations Fed with MAMS Results – cont.

- The microsimulation model results are stored in the file microsim_all.csv located in the Link-MAMS-MS\output folder.
- In addition, some descriptive statistics for the hhd survey base year can be found in the file descriptive-statistics.log also located in the link-MAMS-MS\output folder.

Running Stand Alone Simulations

- In this case, use the file simul_jor to define a counterfactual scenario to simulate – see example below
 - advice: keep a copy of the original file (e.g., simul_jor-original.do)
 - the file simul_jor.do should be modified in case the database changes (e.g., number of productive sectors)

P0; moderate PL	15.72		
Gini	0.352		
avg wage by skill			
unskilled	39.3		
semi-skilled	92.8		
skilled	375.4		
avg wage by sector			
primary	256.7		
industry	296.9		
services	283.2		

Results FGT(0) MAMS Simulations

	baseyr	2015/16				
	2009/10	base	aid-hd	aid-infra	pwfood	trhhdrow
obs	24.58	24.58	24.58	24.58	24.58	24.58
U	24.58	24.20	24.21	24.21	23.73	24.20
U + S	24.58	24.10	24.13	24.14	24.03	24.08
U + S + W1	24.58	24.13	24.18	24.17	24.04	24.12
U + S + W1 + W2	24.58	24.05	24.41	24.14	23.85	24.04
U + S + W1 + W2 + M	24.58	23.79	23.40	23.66	23.93	23.76







