



Micro SAM: Part 2



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Outline

- Factor Accounts
 - Mixed Income
 - Labour, Land, Capital
 - GOS
 - Capital
 - Remuneration of employees
 - Labour
- Household Accounts
 - ‘Head’ of household
 - Categories
 - Plan A: Access to ‘Official’ Household Survey Data
 - Plan B: No Access to ‘Official’ Household Survey Data



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Factor Accounts



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Mixed Income

Too difficult for Statistical agencies!!!!

BUT must be addressed for CGE/flex-price models

- Returns to factors by ‘self employed’
 - Labour
 - Capital
 - Land
 - Entrepreneurship

Peasants,
shopkeepers,
professions etc.

The issue of payments for land services MUST be addressed, so compilers of SAMs will be forced to make some strong assumptions



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GOS

Catch all:
returns to capital, entrepreneurship & economic rents

- Capital
 - Fixed capital
 - Mobile capital
 -
- Depreciation (GOS v NOS)
 - Economic depreciation
- Entrepreneurship
 - Can this be captured for large corporations/conglomerates
- Economic rents
 - Imperfect competition
 - Tariff rate quotas
 -



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Labour Accounts

ILO occupation-based categories

Broad skill level	ISCO-08	ISCO-88
Skill levels 3 and 4 (high)	1. Managers	1. Legislators, senior officials and managers
	2. Professionals	2. Professionals
	3. Technicians and associate professionals	3. Technicians and associate professionals
Skill level 2 (medium)	4. Clerical support workers	4. Clerks
	5. Service and sales workers	5. Service workers and shop and market sales workers
	6. Skilled agricultural, forestry and fishery workers	6. Skilled agricultural and fishery workers
	7. Craft and related trades workers	7. Craft and related trades workers
Skill level 1 (low)	8. Plant and machine operators, and assemblers	8. Plant and machine operators and assemblers
	9. Elementary occupations	9. Elementary occupations
Armed forces	0. Armed forces occupations	0. Armed forces
Not elsewhere classified	X. Not elsewhere classified	X. Not elsewhere classified

Flex-price models:

- **Labour reallocations in response to ‘shocks’**
- **Skills-based schema**



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Remuneration of employees

- Data sources
 - Labour force surveys
 - Income & Expenditure surveys
- Categories of labour
 - Schema
 - ILO based
 - Skills based
 - Features
 - Gender, education, training, etc.,
- Labour quantities

Error bounds:

- Point prior estimates derived from survey data – SE & distribution
- Depend on dates of survey and SAM and survey size



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Household Accounts



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'Head' of household

How are decisions made by households?

- Unitary household models
 - All known whole economy models
- Primary decision maker
 - Cost of living depends on expenditure patterns
 - Reliability depends on survey 'structure'
 - Tobacco, alcohol, etc.,
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Categories

Balancing Expenditure and Income Factors

- Expenditure determinants
 - Gender
 - Race
 - Location
 - Religion
 - Education
 - Income levels
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- Income determinants
 - Endowments
 - Wealth
 - Asset ownership
 - Human capital
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**Choices
depend on
country
specific
features**



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RHG and Control Totals

	<i>h_a</i>	<i>h_b</i>	<i>h_c</i>	<i>total</i>
<i>c₁</i>	2.13	0.50	18.36	20.98
<i>c₂</i>	2.27	0.70	10.55	13.51
<i>c₃</i>	15.82	18.69	8.14	42.65
<i>c₄</i>	6.90	12.09	3.86	22.85
<i>total</i>	27.13	31.97	40.91	100.0

Sources:
 Row totals – from SUT
 Column totals – shares from survey & total macro-SAM
 c * h – coefficients from survey cw choice of control totals

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A: Access to 'Official' H'hold Survey Data

- Define categories → RHG
- Expenditure
 - Estimate total consumption expenditure by RHG
 - Estimate expenditure coefficients by RHG
 - Derive point prior TV estimates
- Income
 - Factor sales
 - Direct ownership
 - Enterprises
 - Transfers
 - Inter RHGs
 - Government social transfers
 - Remittances

Error bounds:

- Point prior estimates derived from survey data – SE & distribution
- Depend on dates of survey and SAM and survey size

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 **B: No Access to 'Official' Household Survey Data**

- Define categories → RHG
- Expenditure
 - Estimate total consumption expenditure by RHG
 - Estimate expenditure coefficients by RHG
 - Derive point prior TV estimates
- Income
 - Factor sales
 - Direct ownership
 - Enterprises
 - Transfers
 - Inter RHGs
 - Government social transfers
 - Remittances

Error bounds:

- No survey data for SE & distribution
- Subjective specification of error bounds

Possible Options:

Other surveys LSMS: Living Standards Measurement Study
<https://microdata.worldbank.org/collections/lms> 

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The End 

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