OG-ETH: Data Sources

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United Nations, Ethiopia

Population

- Demographics from the UN Population Prospects database
  - Fertility, mortality, and population by age
  - Historical and projected data

Labor Productivity Profiles

- National Transfer Account data
  - Distribution of income by age
- World Bank WDI
  - Overall inequality

Sectoral Production/Consumption Data

- Production-Consumption Bridge
  - Data from the International Food Policy Research Institute for Ethiopia
- Consumption expenditure shares – from same as above

Macro data

- UN ILOSTAT data
  - Capital's share of income (overall)
- IMF data
  - Government spending
- World Bank Development Indicators
  - Foreign purchases of new debt issues
  - Long run growth rate in real GDP per capita
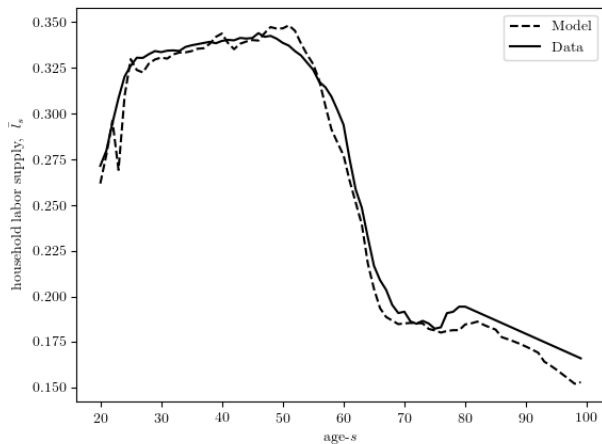 - Government consumption expenditure

Household Survey Data

- Would like this to include:
  - Labor supply
  - Net wealth
  - Income taxes paid
  - Informal economic activity
- What are some good survey data sources?
  - Ethiopia Socioeconomic Survey (ESS) – World Bank
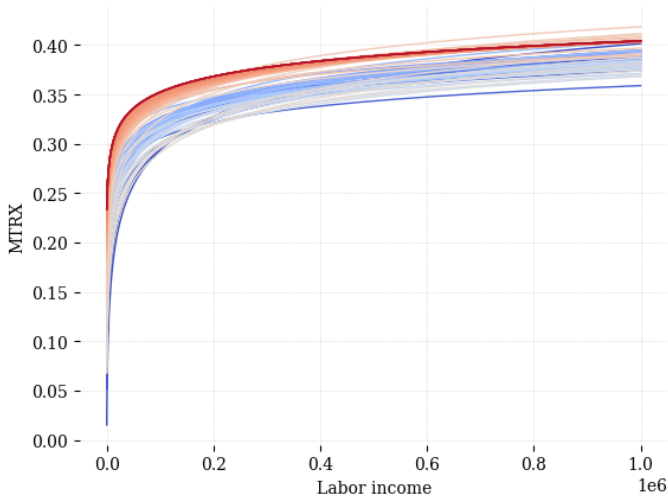 - Others?

Household Survey Data

- What these can enable:
    - Calibrate disutility of labor supply to match hours worked by age
    - Calibrate rate of time preference/bequest motives to match distribution of wealth
    - Estimation of tax functions that allow for tax progressivity
    - Calibration of informal production/consumption
    - Distribution of government transfers
    - Distribution of bequests

Matching labor supply, US Example

Tax Functions, US Example

National accounts data by sector

- Could also benefit from some more detail:
    - Sector specific TFP
    - Sector specific capital shares
    - Factor prices by industry $\implies$ ability to estimate elasticity of substitution
    - Structure of production in the informal sector
    - Small vs large firms
    - What is the role of public infrastructure in private production?

Other?

- Policy parameters:
    - Pension benefits
    - Infrastructure spending (as fraction of GDP)
    - Identifying transitory policies and accounting for them in the calibration
- Applied micro studies in Ethiopia to estimate basic household preference parameters:
    - Intertemporal elasticity of substitution, σ
    - Frisch elasticity of labor supply, θ
    - Rate of time preference, β
    - Stone-Geary preferences ("subsistence" consumption by good, $c_{min,i}$, which leads to non-homothetic preferences)