

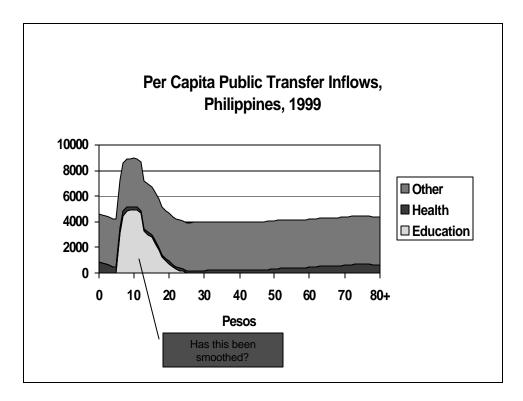
Sector	Public Transfers Inflows		
	Total Inflows	In-kind Inflows	Cash Inflows
Total			
Education			
Health			
Pensions			
Other Social Protection			
Other			

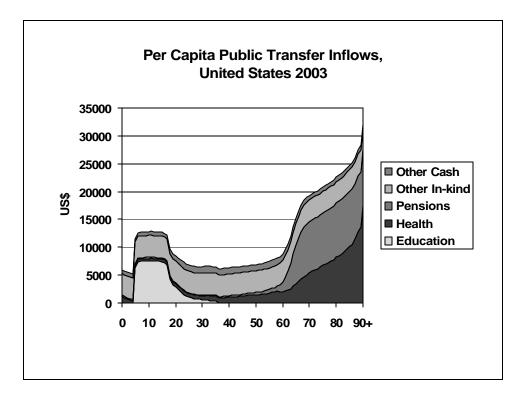
#### Measuring the Aggregate Public Transfer Inflows

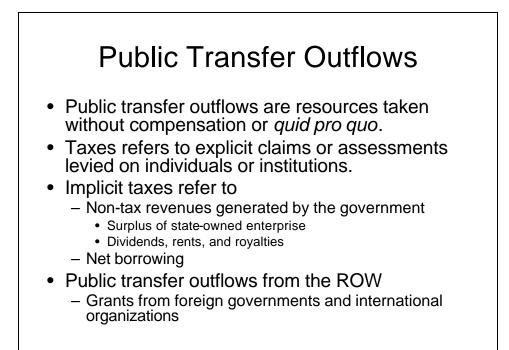
- In-kind public transfer inflows
  - Total: Final consumption expenditure (Use of Disposable Income Account)
  - Sector composition: ask Beet
- Cash public transfer inflows
  - Total: Secondary Distribution of Income Account
  - Sector composition: ask Beet

#### Estimating the Age Profiles of Public Transfer Inflows

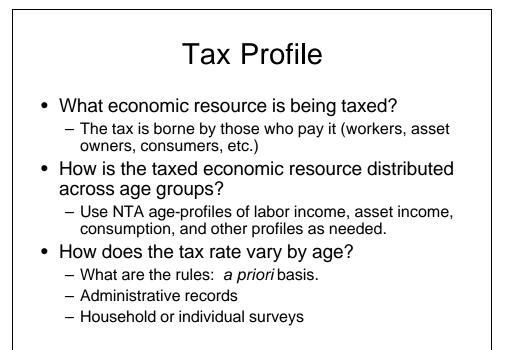
- In-kind transfers
  - Identical to public consumption
  - Age profiles already estimated as part of economic lifecycle
- Cash transfers
  - Administrative records
  - Household and individual surveys using parametric or non-parametric allocation methods.







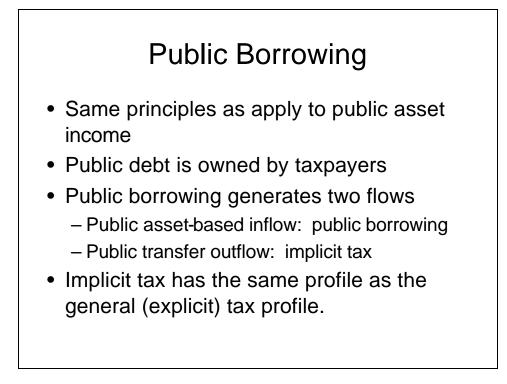
Computing Public Transfer Outflow Totals				
Taxes	Implicit Taxes	UN SNA Source		
Taxes on production and imports less subsidies	Property income	Primary Distribution of Income Account		
Current taxes on income, wealth, etc.; Social contributions	Other Current Transfers	Secondary Distribution of Income		
	Capital Transfers; Net lending (+)/net borrowing (-)	Capital Account		

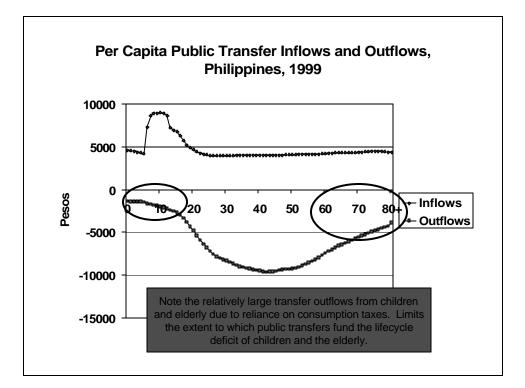


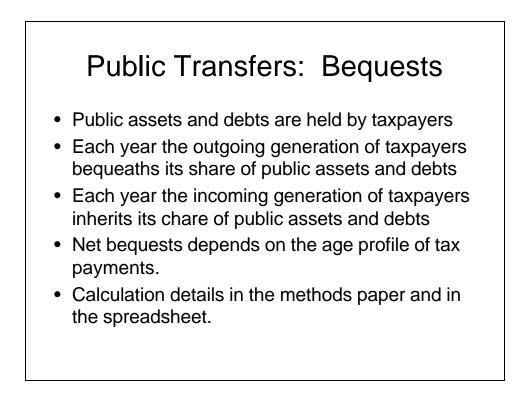
Public Transfer Outflows (Taxes)	Tax Incidence or Source of Outflow	
Taxes on Income	Income earners (asset and labor income)	
Taxes on Profits and capital gains	Asset owners (asset income)	
Taxes on earnings including contributions of employers	Employees (earnings)	
Taxes on Payroll and workforce	Employees (earnings or per capita)	
Taxes on Property	Property owners (value of asset)	
Taxes on Goods and Services	Consumers (value of consumption of goods and services subject to tax)	
Taxes on International Trade and Services	Various: Consumers, Workers, Owners of Capital, Rest of the World.	
Other Taxes	Various	
Social Contributions	Employees and self-employed (earnings)	
Grants	Rest of the World	

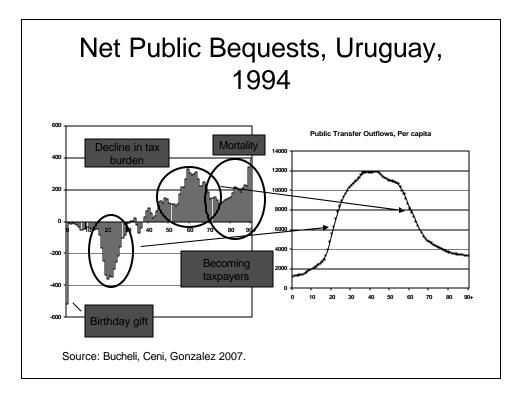
# Other Revenue

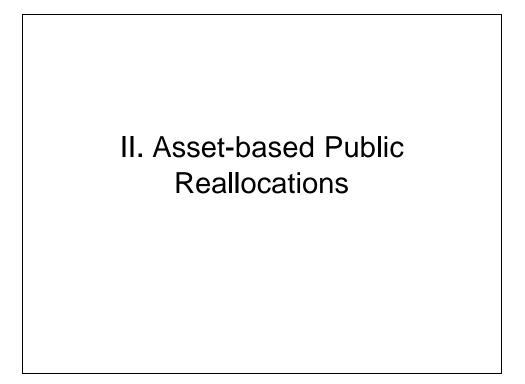
- Grants: Transfer outflows from ROW.
- Asset income
  - Assets are owned by taxpayers
  - Two flows of equal but opposite sign are generated
    - A public asset-based Inflow: public asset income
    - A public transfer outflow: implicit tax
  - Implicit tax has the same profile as the general (explicit) tax profile.

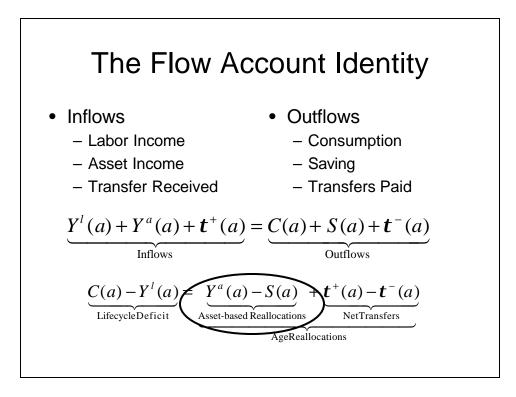


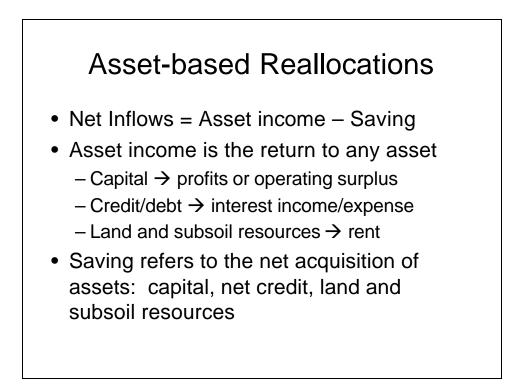










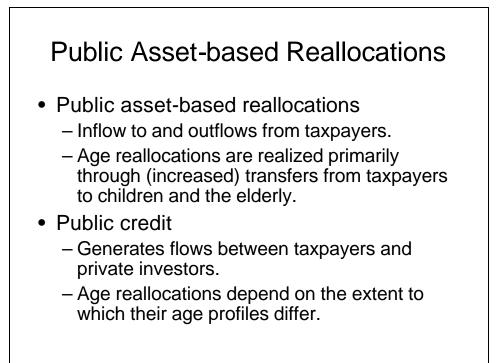


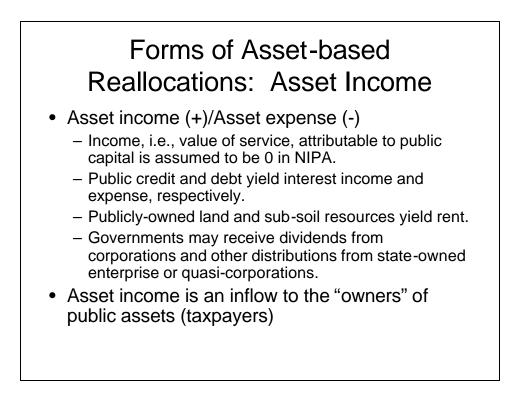
#### Comparing Public and Private Asset-based Reallocations

#### Ownership

- Private assets and debts belong to the individuals who acquire them.
- Public assets and debts do <u>not</u> belong to the taxpayers who acquire them.
- Thus, a cohort of taxpayers does not establish a claim on future resources for <u>itself</u> by engaging in public saving.
- Nor does it create a future obligation for <u>itself</u> by accumulating public debt.
- Claim or obligation is passed on to future taxpayers.
- An Exception
  - Governments can create programs that mimic private asset transactions.
  - Example: Central Provident Funds tax workers and deposit the revenue in an account owned by the workers.







#### Forms of Asset-based Reallocations: Saving

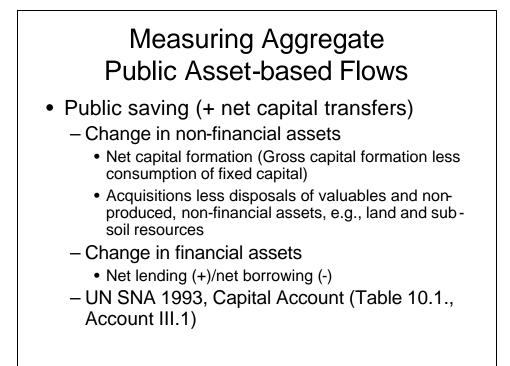
- Public sector can acquire non-financial assets
  - Net capital formation (Gross capital formation less consumption of fixed capital)
  - Net acquisitions of valuables and non-produced, nonfinancial assets, e.g., land and sub-soil resources
- Public sector can acquire financial assets/debt: net lending (+)/net borrowing (-)
- Acquiring an asset generates an outflow
- Acquiring debt generates an inflow

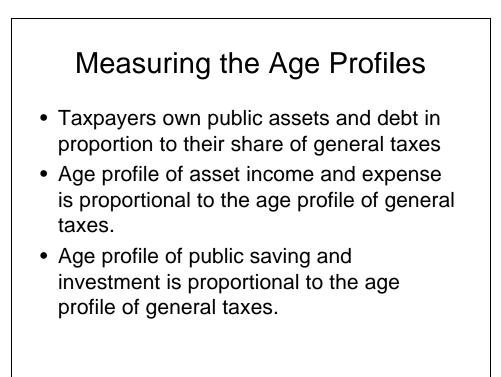
### Asset-based Reallocations: Saving and Bequests

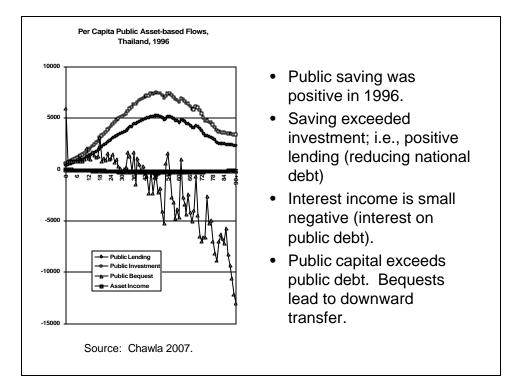
- Public assets and debts are transferred from one generation of taxpayers to the next.
- Transfer is equivalent to a net change in assets, i.e., saving.
- Methods for estimating public transfers and public saving through bequests are identical.

#### Measuring Aggregate Public Asset-based Flows

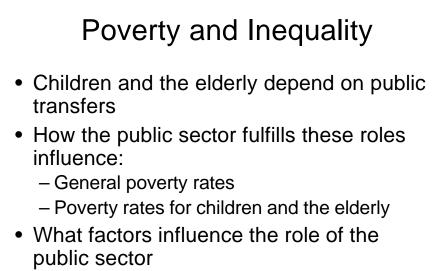
- Asset Income
  - Property Income
    - Interest
    - Distributed income of corporations
    - Rent
    - Other
  - UN SNA 1993, Primary Distribution of Income Account (Table 7.1., Account II.1.1, D.4 Property Income)







# **III.** Possible Applications



- Age structure

## Generational Equity

- How is the public sector influencing the distribution of economic resources across birth cohorts including those not yet born?
- Similar to Generational Accounting which looks primarily at taxes (outflows in NTA terminology).
- NTA public sector measures both outflows and inflows (birth cohorts in the future may pay more taxes but receive more benefits)

