	INFLOWS	OUTFLOWS		
I. Lifecycle Deficit				
Labor Earnings (Lin1+Lin2+Lin3) Less: Consumption (Cout1+Cout2+Cout3)	Lin1 – labor earnings.	Cout1 – private consumption (FIES consumption expenditure less gifts given (Fout1) plus privately-funded health care (Hin1) plus gifts received (Fin1).		
	Lin2 – employer provided benefits. Examples of employer-provided benefits: taxes paid to government on behalf of employees such as social security and unemployment insurance, contributions to private pensions and health-care.	Cout2 – services received from owned housing (Oin1) and durables (Din1).		
	Lin3 – earnings from self-employment. We might also consider estimating this by assigning 2/3rds of own siness income as self-employed earnings.	Cout3 – services received from publicly funded sources (Gin1).		
	We cored the non-wage benefit of paid leave (vacation and sick leave), since we do not count leisure as an outflow. We need to be careful that in adjusting to labor earnings to NIPA totals we use a wage bill which excludes paid leave (in 1992 paid leave was about 7% of total compensation in the US).	Consumption does not equal expenditure. There are many expenditures which are not consumed by the household: purchase of a house (Oout2), purchase of a consumer durable (Dout2), purchase of financial instruments (stocks, bonds, etc) (Mout1), and purchases of gifts for someone outside the household (Fout1). Relying mainly on consumer expenditure surveys, we will want to keep track of these different types of expenditures. Likewise, there is consumption which is not counted as expenditure: services derived from housing (Oin1) and consumer durables (Din1), gifts received (Fin1), services received such as medical care,		

	education, roads/highways, police protection, fire protection (Gin1).

A. Capital Transactions	NLin1 – non-labor share of earnings from self-	NLout2 – interest expense associated with real
Non-labor factor income	employment.	investment, e.g., interest paid on margin accounts and
	NLin2 – dividends, interest income from loans used	interest paid on loans used to purchase a house (structure
	to finance real investment, earnings retained by	only) or a consumer durable.
	corporations.	
	NLin3 – value of services received from housing and	
	consumer durables (the rate of return only).	
	<b>NLin4</b> – earnings on pension plans (portion that is a	
	return to capital investment).	
	The FIES does not distinguish interest income by the purpose of the loan (real investment vs. consumer credit).	
	Aggregate date are used for this purpose and we will assume that the age profile of interest income is independent	
	of the purpose of the loan. Earnings retained by corporations are treated as non-labor income for the inflow side	
	of the ledger and as an investment on the outflow side of the ledger.	
Dis-investment, net	<b>Kin1</b> – disposal of an unincorporated business;	<b>Kout1</b> – investment in or acquisition of an
	depreciation of real business assets.	unincorporated business.
	<b>Kin2</b> – disposal of stocks and bonds; loans used to	<b>Kout2</b> – acquisition of stocks and bonds; loans used to
	finance real investment.	finance real investment; implicit increase in capital due
		to retained earnings.
	<b>Kin3</b> – disposal of housing (structure) and consumer	<b>Kout3</b> – acquisition of housing (structure) and consumer
	durables; depreciation of housing (structure) and	durables.
	consumer durables.	
	<b>Kin4</b> – Distribution of pension assets to household	<b>Kin4</b> – Contributions to pension plans by employees and
	(share held in capital).	employers (share held in capital).
	Transfers of capital, e.g., bequests, are treated in the following way. The household making the transfer dis-	
	invests and makes the transfer. The receiving household receives the transfer and then invests. Investment in	
	housing is limited to the structure. The acquisition and disposal of land does not represent real investment and is	
	included in <i>credit and land transactions</i> . Contributions to pension plans and earnings on pension plans should	

	include contributions by the public sector on behalf of their employees. Unfunded plans should include implicit		
	contributions and earnings. These data are available from the IMF for some countries.		
		Mout1 – Interest expense from consumer debt	
transactions	Min2 – Increase in consumer debt	Mout2 – Reduction in consumer debt	
	Min3 – Rental income, land	Mout3 – Rental expense, land; interest expense incurred	
	,	for the purchase of land.	
	Min4 – Disposal of land.	Mout4 – Acquisition of land	
	Disposal and acquisition of land includes land owned directly by the household, e.g., owner-occupied housing,		
	rental property, and land owned as part of an unincorporated business, and land owned indirectly through its		
	ownership of corporations. When a household acquires or disposes of financial assets some portion of those		
	assets are backed by capital, some by credit, and some by land. Transfers of land, e.g., through bequests, are		
	treated in the same way as transfers of capital.		
C. Transfers	Gin1 - cash transfers received by households for	Gout – Taxes and other non-market transfers.	
Public, Non-market	social security, welfare payments, etc.	Depending on the context, taxes are distinguished by the	
	Gin2 – Goods and services provided by the	source. Standard classifications in the IMF Government	
	government. These include age-targeted goods and services such as public education, public housing,	Finance Statistics Yearbook are (1) taxes on income, profits, and capital gains paid by (a) individuals, (b)	
	health care and non-age-targeted goods and services	corporations, and (c) other unallocable; (2) social	
	such as road construction, fire protection, etc.	security contributions; (3) taxes on payroll and	
	Includes all congestible goods and all public goods.	workforce; (4) taxes on property; (5) domestic taxes on	
	moraus un congeniere geeus unu un puene geeus.	goods and services; (6) taxes on international trade and	
		transactions; (7) other taxes. Source of taxes is useful to	
		estimate age-profile for overall taxes and for specific	
		public programs with a specific tax earmark. For	
		example, US social security is mainly funded from	
		payroll taxes. Taxes allocated to the payment of public	
		debt are excluded. (See transfers, public, market.)	
	Based on conversations with Alan Auerbach, US taxes collected from businesses by state and local governments		
	are assumed to exactly equal services those businesses receive from the state and local governments. The idea is		
	that if this were not the case, businesses would just move to another state.		

Public, Market	Interest income from holding public debt.	Taxes paid to finance public debt.
	Disposal of government bonds.	Purchase of government bonds.
Private	Intra-household – value of goods, services, and	Intra-household – value of goods, services, and
	monetary transfers received from other household	monetary transfers provided to other household
	members.	members.
	Inter-household - gifts received and regular	Inter-household - gifts made and regular payments for
	contributions for support such as alimony payments.	support such as alimony payments.
	Bequests – value of all real and financial assets	Bequests – value of all real and financial assets
	inherited as a result of the death of a household head	bequeathed as a result of the death of a household head
	including life insurance proceeds. Value of assets	including life insurance proceeds. Value of assets
	received as a result of household fusion or	transferred as a result of household fusion or
	reclassification.	reclassification. Transfers include outflows from
		households that ceased to exist during the period.
Additional issues	1. Treatment of entrepreneurial income and other non-ta-	ax revenue received by the government.
	2. Change in cash balances.	
	3. How to handle life insurance. Surely payment of premium can't be treated as a bequest.	
8. Private health transfers	Hin1 – services received from private health	<b>Hout1</b> – contributions to health insurance by household.
	insurance (own or company provided). This is	<b>Hout2</b> - employer contributions to private health
	usually not observed and we have assumed it equals	insurance.
	<b>Hout</b> at each age, so that there is no age transfers of	
	resources. But, one might imagine a redistribution	
	from young workers to older workers, or those	
	without children to those with children.	