

NTA

The 39th Summer Seminar on Population

NTA Application and Progress in

CHINA

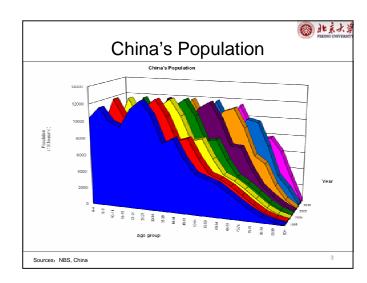
国民转移账户

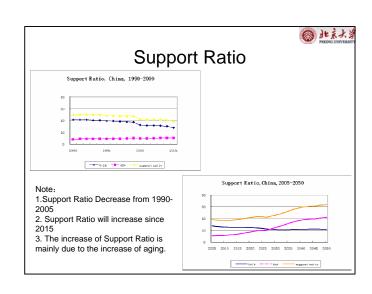
July 1, 2008 EWC, Hawaii

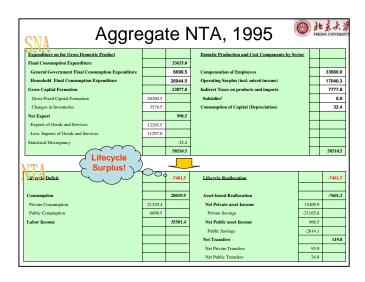


Data Sources

- Year: 1995 & 2002
- Population
 - Census 1995 & 2000
- Aggregate
 - China Statistical Yearbook
 - National Accounts Statistics: Main Aggregates and Detailed Tables, 2005
 - GFS Statistics Yearbook
- Age Profile
 - CHIP1995 & 2002 (Merge the rural and urban data, weighted)
 - National Health Service Survey 1998 & 2003







SNA Aggre	gat	e N	ITA, 2002		ヒ京大学 EXENG UNIVERSIT
Expenditure on the Gross Domestic Product			Dometic Production and Cost Components by Sector		
Final Consumption Expenditure		62798.5			
General Government Final Consumption Expenditure		13916.9	Compensation of Employees		62524.3
Household Final Consumption Expenditure		48881.6	Operating Surplus (incl. mixed income)		24813.6
Gross Capital Formation		42304.9	Indirect Taxes on products and imports		17834.2
Gross Fixed Capital Formation	41918.3		Subsidies ¹		0.0
Changes in Inventories	386.6		Consumption of Capital (Depreciation)		2725.6
Net Export		2794.2			
Exports of Goods and Services	30243.8				
Less: Imports of Goods and Services	27449.6				
Statistical Discrepancy		-2725.6			
Lifecycle Surplus!		107897.6			107897.6
Lilecycle Dencii		-16160.8	Lifecycle Reallocation		-16160.8
Consumption		52294.4	Asset-based Reallocation		-17235.9
Private Consumption	38377.5		Net Private asset Income	24611.1	
Public Conumption Labor Income	13916.9	68455.2	Private Savings Net Public asset Income	-34608.9	
Labor Income		68455.2	Net Public asset Income Public Savines	365.6 -7603.7	
			Net Transfers	-7003.7	1075.1
			Net Transfers Net Private Transfers	1072.2	1075.1
			Net Public Transfers	2.9	



Some Documentations

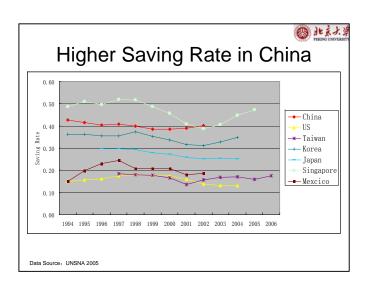
From NA to NTA

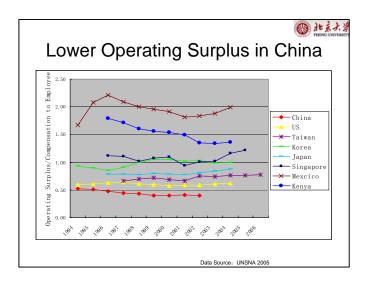
- Consistency of NA
 - The equivalence of Expenditure and Generation of GDP -- the statistics discrepancy in production account is assumed to be the consumption of capital in income account
 - Detail information is from other sources and have to be adjusted to the SNA –consumption; Indirect tax;
- Consumption-Health, Education, and others
 - Private: Proportion of household expenditure
 - Public: Proportion of government outlays in total government expenditure from GFS



Life Cycle Surplus

- Special case of China or not?
 - It's Obvious in NA:
 - C=Final consumption T_C
 - Y =Compensation to employee + (Selfemployment Labor Income + T_L)
 - Indirect tax= T₁ +T_Δ+ T_C
 - It may due to
 - Higher saving rate in China
 - Lower Compensation to employee regards to operating surplus
 - ←Statistical Problem: calculate total farmer's income as Compensation to employee
 - ← Is It probably a certain period of developing?







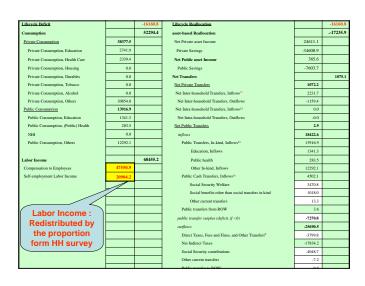
Some Documentations

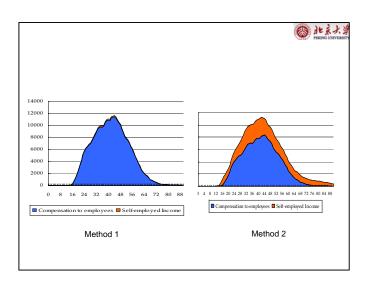
Self-employment income—two methods

- Method 1
 - Assume: HH o.s. / Mixed income of HH o.s. from SNA = imputed rent / Self-employment income from HH survey.
 - Rural's= Urban's for only urban survey has it.
- · Method 2- currently used
 - Add one more step (by S.Y. Lee): Separate the aggregate labor income to compensation to employees and self-employment income with proportion of wage and 1/3 mixed income in HH survey.

Year: 2002	Method 1	Method 2
Labor Income		68455.2
Compensation to Employees	67531.3	47550.9
Self-employment Labor Income	923.9	20904.3

Lifecycle Deficit		-7481.5	Lifecycle Reallocation		-7481.5
Consumption		28019.9	asset-based Reallocation		-7601.3
Private Consumption	21329.4		Net Private asset Income	15409.9	
Private Consumption, Education	1388.5		Private Savings	-21165.6	
Private Consumption, Health Care	479.9		Net Public asset Income	968.5	
Private Consumption, Housing	0.0		Public Savings	-2814.1	
Private Consumption, Durables	0.0		Net Transfers		119.8
Private Consumption, Tobacco	0.0		Net Private Transfers	95.0	
Private Consumption, Alcohol	0.0		Net Inter-household Transfers, Inflows ¹¹	1683.7	
Private Consumption, Others	19460.9		Net Inter-household Transfers, Outflows	-1588.8	
Public Consumptions	6690.5		Net Intra-household Transfers, Inflows ¹²	0.0	
Public Consumption, Education	681.5		Net Intra-household Transfers, Outflows	-0.0	
Public Consumption, (Public) Health	217.8		Net Public Transfers	24.8	
NHI	0.0		inflows	8085.4	
Public Consumption, Others	5791.3		Public Transfers, In-kind, Inflows ¹³	6690.5	
			Education, Inflows	681.5	
Labor Income		35501.4	Public health	217.8	
Compensation to Employees	21942.7		Other In-kind, Inflows	5791.3	
Self-employment Labor Incomes	13558.7		Public Cash Transfers, Inflows ¹⁴	1370.1	
			Social Security Welfare	858.4	
	1		Social benefits other than social transfers in kind	509.1	
/			Other current transfers	2.7	
Labor Income :			Public transfers from ROW	24.8	
			public transfer surplus (deficit, if <0)	-1886.6	
Redistributed by			outflows	-9947_3	
the proportion			Direct Taxes, Fees and Fines, and Other Transfers ⁰	-870.9	
form HH survey			Net Indirect Taxes	-7777.8	
			Social Security contributions	-970.7	
			Other current transfers	-327.8	
			Public transfer to ROW	-0.05	







Some Documentations

Indirect Tax allocation—three methods

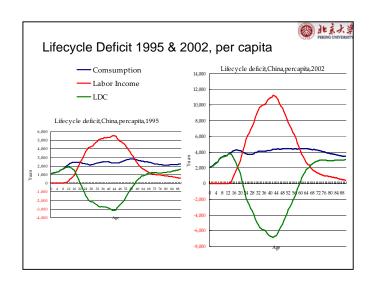
- Method 1—previous
 - Based on proportion of taxes on production
- Method 2—currently used
 - Prof. Andy Mason's profile-GFS
- Method 3—Compared with Method 2
 - Prof. Andy Mason's profile-SNA

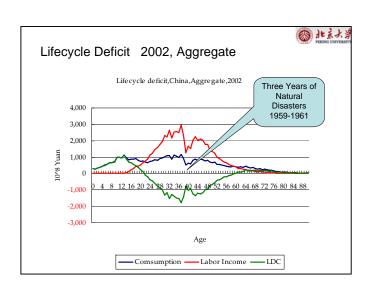
	L	K	С	
Method 1	12.70%	7. 23%	80. 07%	
Method 2	28. 59%	12. 51%	58. 90%	1
Method 3	31. 10%	17. 83%	51.07%	

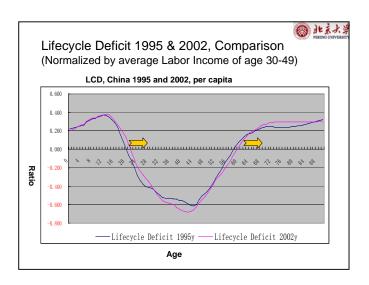
The difference is mainly due to GFS has less information about structure of indirect tax revenue, while we use detailed tax revenue structure to separate the indirect tax in SNA.

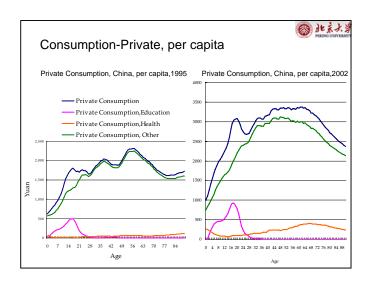


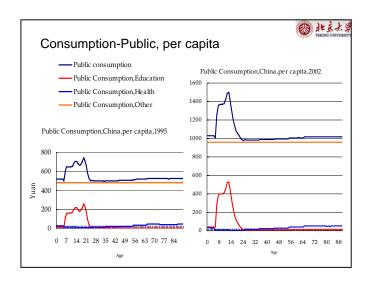
Age Profiles

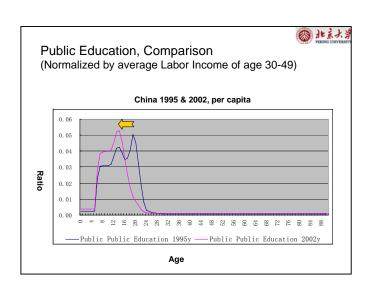


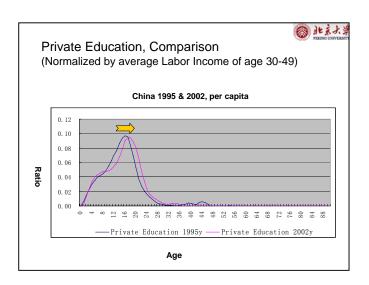


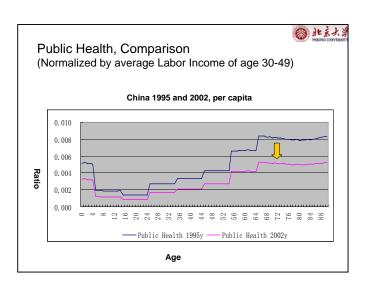




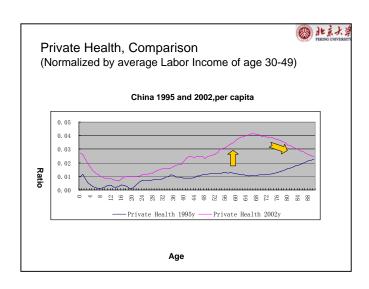


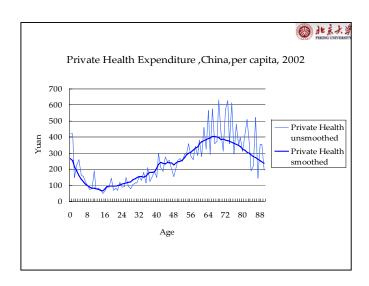


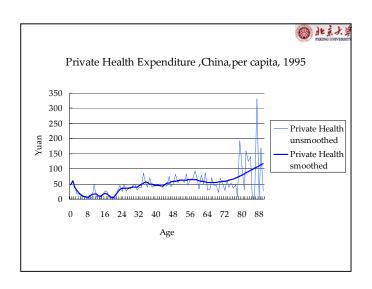


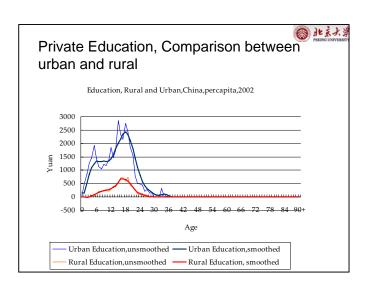


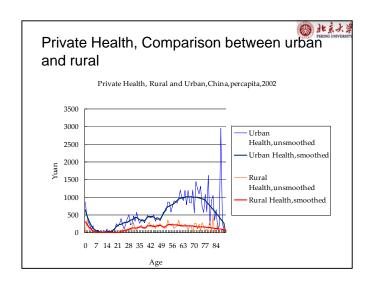
11 | 12

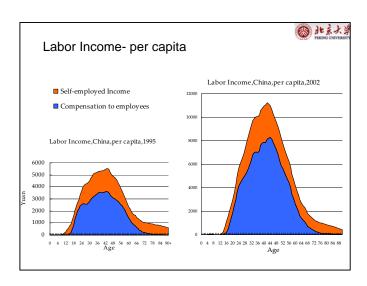


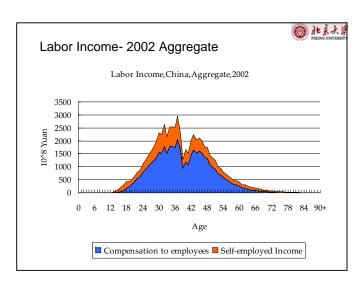


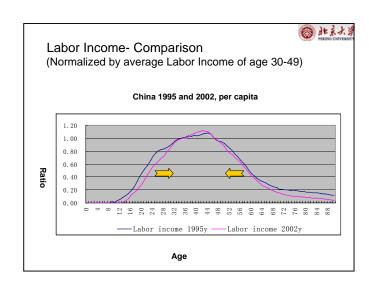


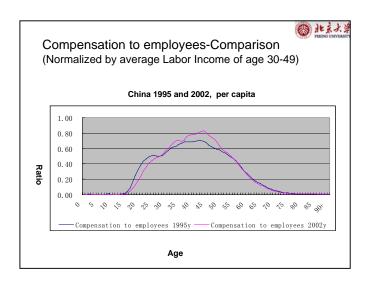


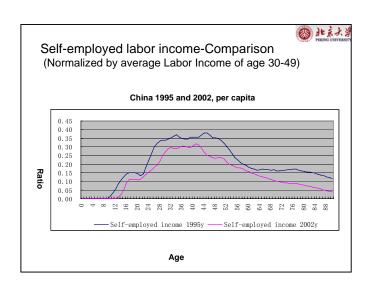


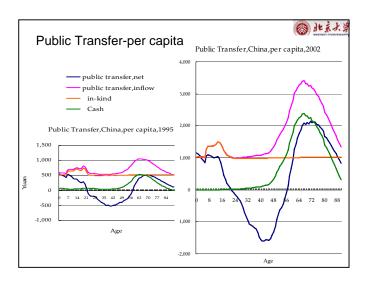


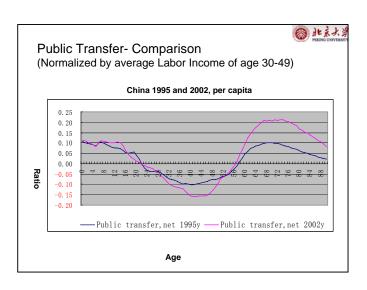












17 | 18

