China's Age of Abundance: An Update

WANG Feng, Fudan University and University of California, Irvine
SHEN Ke, Fudan University
LI Ding, Renmin University
Yong CAI, University of North Carolina

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Introduction

 China's Age of Abundance: When Might it Run Out?



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China's age of abundance: When might it run out?

Yong Cai a, Feng Wang b,c, Ding Li d, Xiwei Wu d, Ke Shen c,*

Department of Sociology, University of North Carolina, Chapel Hill, NC 27599, USA

b Department of Sociology, University of California, Irvine, CA 92697, USA

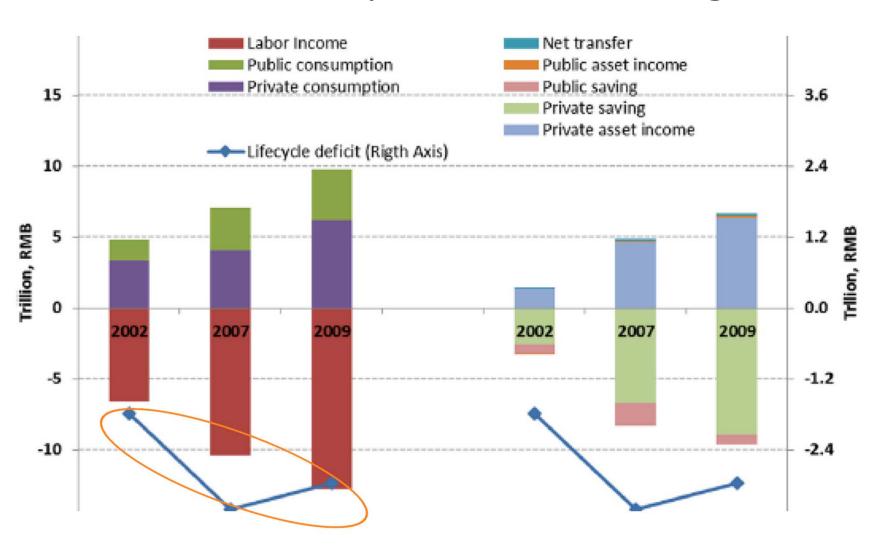
^c School of Social Development and Public Policy, Fudan University, 200433, China

d School of Sociology and Population Studies, Renmin University of China, 100872, China

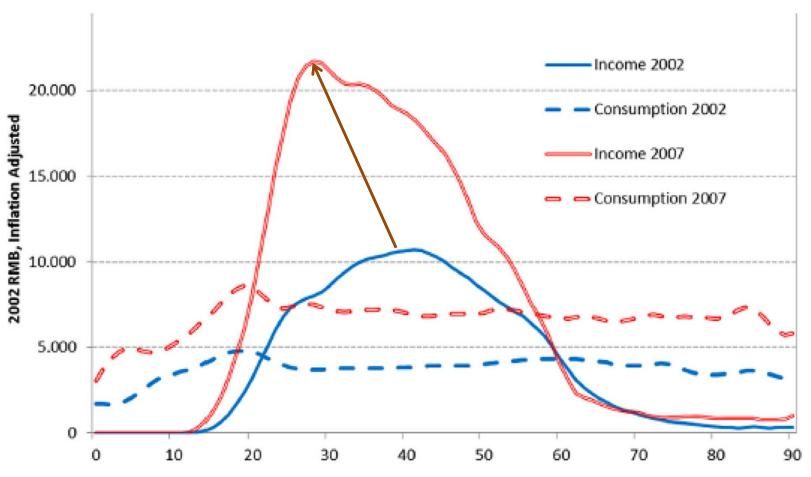
Background

- Previous work using NTA methodology revealed:
 - Rapid income growth, savings, and moderate consumption levels result in a sizable life-cycle surplus
 - In comparison to population age structure/aging, changes in the economy, especially consumption level, are the main drivers for life-cycle surplus
 - Between the two time points of the last exercise, 2002 and 2007, substantial changes in income and consumption were already evident

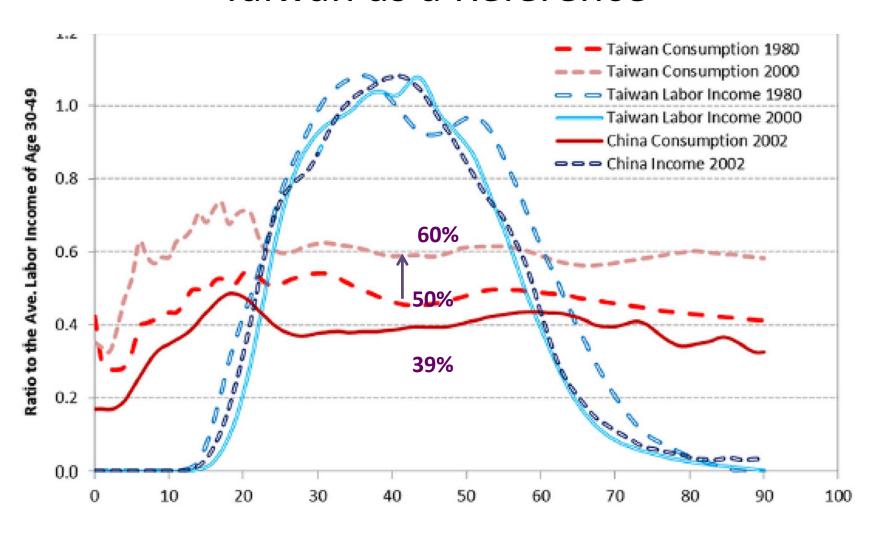
Sizable Surplus, but Shrinking



Income Increase Outpaces Consumption, Especially among the Young

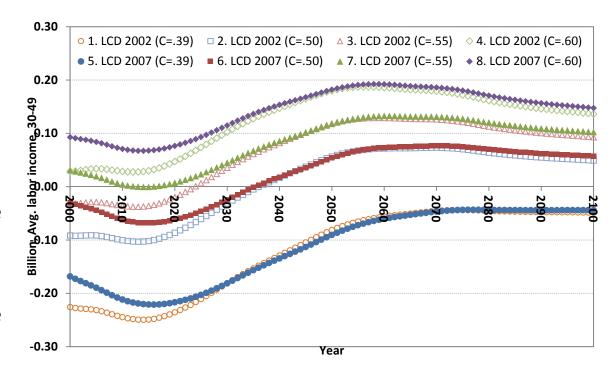


What Happens When Income Increases: Taiwan as a Reference



Consumption is the Key

- Even with rapid population aging, keeping consumption share at 2002 level will not exhaust life-cycle surplus (bottom lines)
- Raising consumption share to 0.50 could exhaust surplus in the mid-2030s
- Raising consumption level above 0.55 could exhaust surplus in the next 10 years

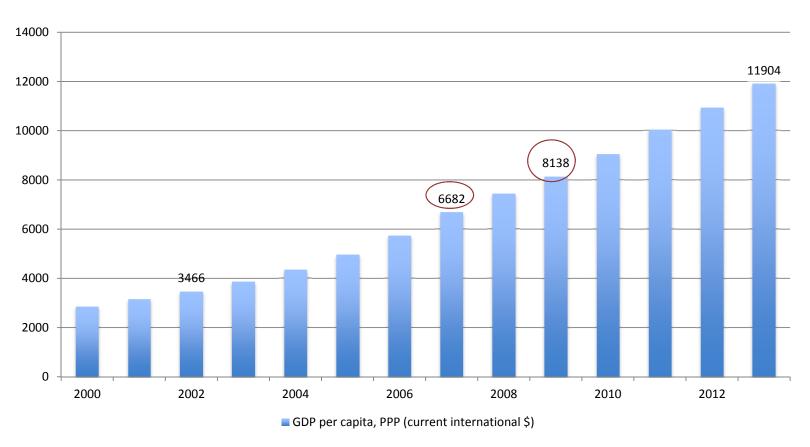


Rationales for Updating

- Further changes in income and consumption patterns between 2007 and 2009
- Newly available micro-level data (CFPS 2010)
- Financing life-cycle deficit
- Revised population projections

Rapid Economic Growth

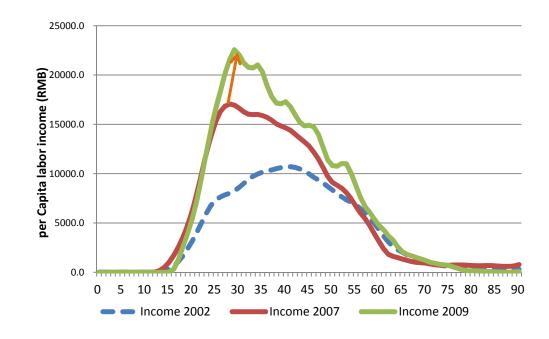
(Per capita income, current international \$, PPP)



Source: World Bank

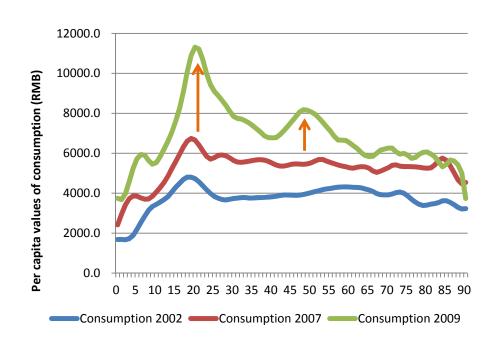
Continued Rise in Labor Income (in 2002 prices)

- In 2 years, average income rose by 17.5%, in contrast to 43.1% in the previous 5 years
- Shift in peak earning ages started to return to "normal"
- Largest increase in absolute value still among the relatively young



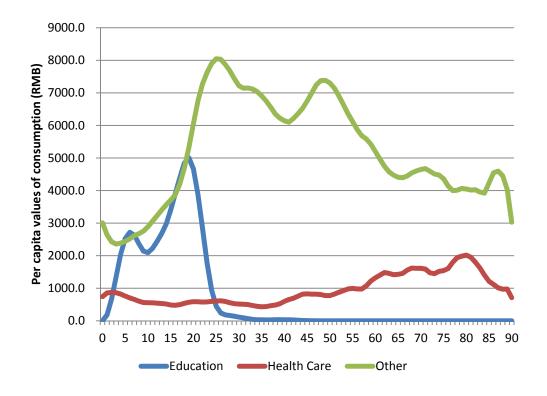
Consumption Increase Outpaces Income Increase

- In 2 years, average total consumption rose by 38%, in contrast to 40% in the previous 5 years
- Fastest increase found among ages 18 to 26, with an increase of 50% or more in 2 years
- Fast increase also found in late 40s



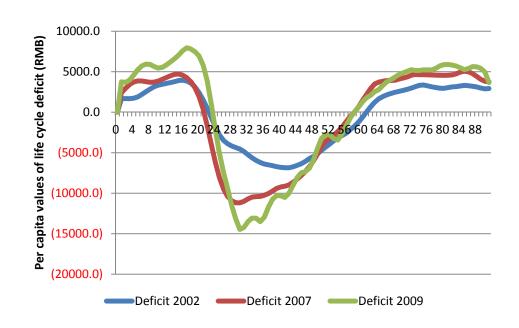
Where Does Consumption Increase?

- Pre-school and higher education in early life
- Health care in old age
- "Other consumption" in adult ages



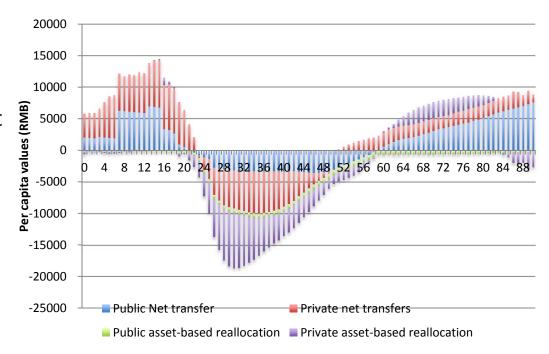
Changes in Life-cycle Deficit

- Substantial increase of deficit in early ages
- Continued expansion of surplus in adult ages
- Little increase of deficit in old ages
- Starting age of surplus shifted from 21 in 2007 to 23 in 2009
- Ending age of surplus shifted from 59 in 2002 to 57 in 2007 and 2009



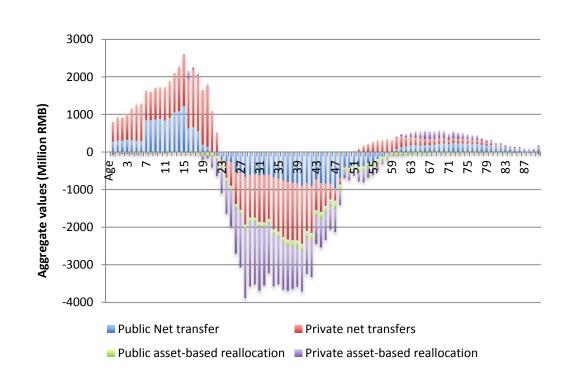
Financing Life-cycle Deficit (Per capita, 2009)

- Early age (0-22) deficit financed by public (38%) and private transfers (46%)
- Among peak earning ages
 (30–49), 28% of surplus went
 into public transfers, 33%
 went into private transfers,
 and 33% went into private
 asset-based reallocation
- Among older adults (60+), 60% of deficit financed by public transfers, 34% by private transfers



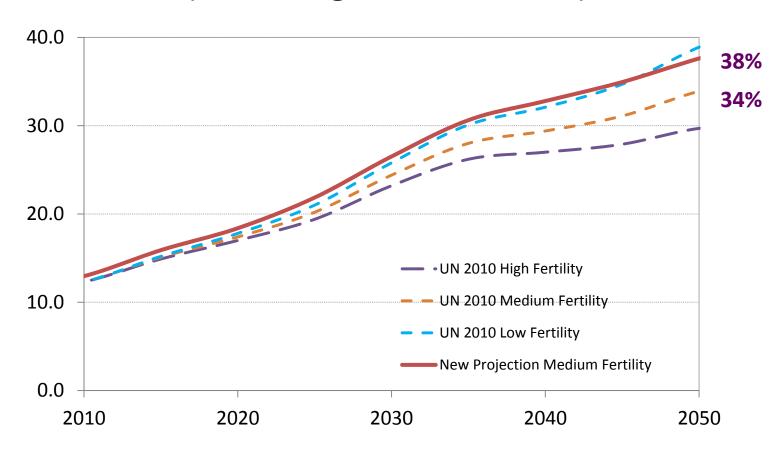
Financing Life-cycle Deficit (Aggregate, 2009)

- Overall large aggregate surplus due to favorable age structure
- Life-cycle deficit among the old not yet a major concern
- Life-cycle deficit mostly concentrated among the young



Projection of Population Aging

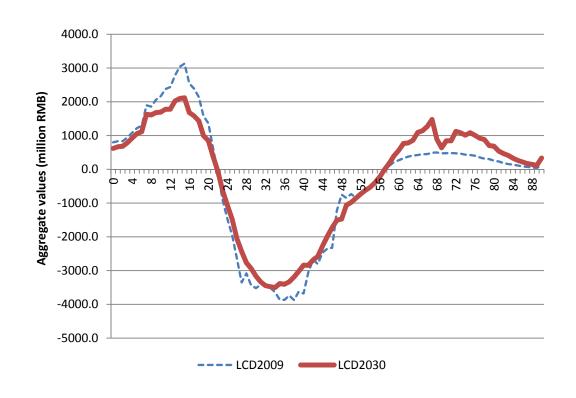
(Percentage 60 and above)



Our new projection (TFR 1.5 and higher life expectancy) results in faster aging than the UN medium-fertility scenario and is closer to the low-fertility scenario, with 38% rather than 34% elderly in 2050

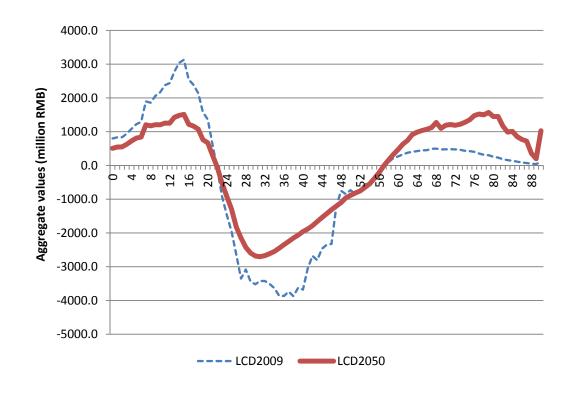
Effects of Population Aging (Projected with 2009 profile, 2030 population)

- Significant shrinkage in surplus, 35% by 2030
- Decreasing deficit in young ages due to projected low fertility (TFR 1.5)
- Deficit grows in old ages, especially very old ages



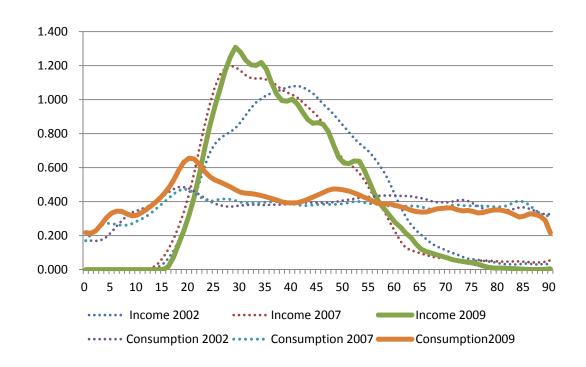
Effects of Population Aging (Projected with 2009 profile, 2050 population)

- Virtual disappearance of surplus, reduced by 98% by 2050
- Substantial drop in deficit in young ages due to low fertility (TFR 1.5)
- Large deficit in old ages, especially very old ages



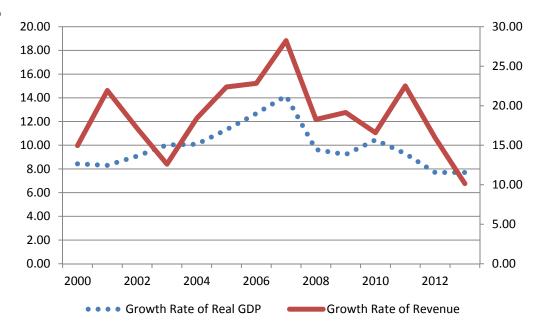
Rising Consumption Share

- Rising consumption level is not taken into account in the previous projections
- Share of consumption did not change between 2002 and 2007, at 39%; it increased noticeably between 2007 and 2009, to 43%
- Combined, rapid population aging and rising consumption could exhaust China's lifecycle surplus sooner than expected



Challenges of a Slower Growth Era

- China is coming to an end of hyper economic growth, with the growth rate dropping from more than 10% to less than 8% in the past few years
- Government revenue, which was growing at a rate of almost twice that of the economy, has shown an even more precipitous drop
- Slow growth in the economy and especially in government revenue could pose further challenges to social welfare programs and public transfers



Conclusions

- China's continued economic growth and social changes are leading to rapid changes in income and consumption
- The two years between 2007 and 2009 show significant new changes, especially in consumption
- Changing consumption combined with (faster) population aging could quickly exhaust China's current large surplus
- The end of China's hyper-growth era could add challenges to financing life-cycle deficit