Non-Market Labor and Intergenerational Resource Allocation in South Korea

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Overview

- S. Korea might be an interesting case
 - Very rapid population aging
 - The degree of specialization by gender is pretty high
 - Familial transfer (NTA) for elderly is deteriorating
 - Debate on consumption-retirement puzzle
 - Investment for children is very high
 - Bi-modal pattern of women's labor market activity



Data

- 2nd Korea Time Use Survey (2004 KTUS)
 - Conducted every 5 years
 - Only data source for time use information
 - Information collected for people ages 10 and older
 - 12,651 households with 31,634 respondents
 - Provide information on 2 days (to remove rare event)
- 7th (2004) Korean Labor and Income Panel Study.



Time Use Classification in KTUS

- 1. Personal care
- 2. Work and work-related activities
- 3. Education
- 4. Household activities and services
- 5. Caring for and helping household members
- 6. Volunteer activities
- 7. Socializing, relaxing and leisure
- 8. Transportation (Part of 4,5,6)
- 9. Others



		KTUS	Occupation matching	Wage rate
I	Household acti	vity and services		5,897
1	음식준비 및 정리	식사준비 및 설거지, 식후정리	조리및음식서비스종사자	5,510
2 3	의류관리	세탁 및 세탁물 넣기 및 옷정리 의류손질 및 수선, 세탁서비스 받기	가사 및 관련보조원, 청소 및 세탁종사자	4,065
4		재봉, 뜨개질	섬유, 의복제조 및 관련 기능종사자	5,155
5	청소 및	방.물품정리	가사 및 관련보조원, 청소 및 세탁종사자	4,065
6	정리	집안청소 및 기타	건물관리, 경비 및 관련 종사자	3,077
7		가 재 도 구 . 집 손 질 및 관련서비스받기	건물관리, 경비 및 관련 종사자	3,077
8	집관리	그 외 집관리		ŕ
9		세차, 차량관리 및 관련서비스 받기	운송기계 정비 종사자	7,336
10	가정관리 관련	시 장 보 기 및 쇼 핑 하 기 , 무점포쇼핑	,가사 및 관련보조원, 청소 및 세탁종사자	4,065
11	물품구입	내구재구매 관련 행동	자재, 생산 및 관련 사무종사자	8,220
12		가계부정리	계수사무종사자	8,542
13	가정경영	가정계획	경영 및 재정 준전문가	12,529
14		은행 및 관공서 일보기	대금수납 및 금전출납 사무종사자	7,681
15	기타가사일		가사 및 관련보조원, 청소 및 세탁종사자	4,065

		KTUS	Occupation matching	Wage rate
II	Family care			6,547
16	미취학아이		교육준전문가	6,793
17	초.중.고 학생		교육준전문가	6,793
18	배우자, 부모 및 조부도	<u>.,</u> 기타	보건의료준전문가	6,055
Ш	Volunteer work			5,982
19	이웃 및 친분이 있는 시	·람돕기 및 참여활동	대인서비스 관련 종사자	5,688
20	자원봉사	국가 및 지역 행사관련	대인서비스 관련 종사자	5,688
21		자녀교육관련	교육준전문가	6,793
22		아동, 노인, 장애인 관련	보건의료준전문가	6,055
23		재해지역 주민돕기, 시설복구 및 기타	대인서비스 관련 종사자	5,688
24		Household activity related	가정관리 평균	5,897
25	Transportation	Family care related	가족보살피기 평균	6,547
26		Volunteer work related	참여 및 봉사활동 평균	5,982

Time Spent on Home Production by Gender, per day (Hour : Minutes)

	Combined	Male	Female
Average	1:56	0:39	3:06
0-19	0:11	0:08	0:14
20-64	2:38	0:51	4:12
65+	2:32	1:07	3:25

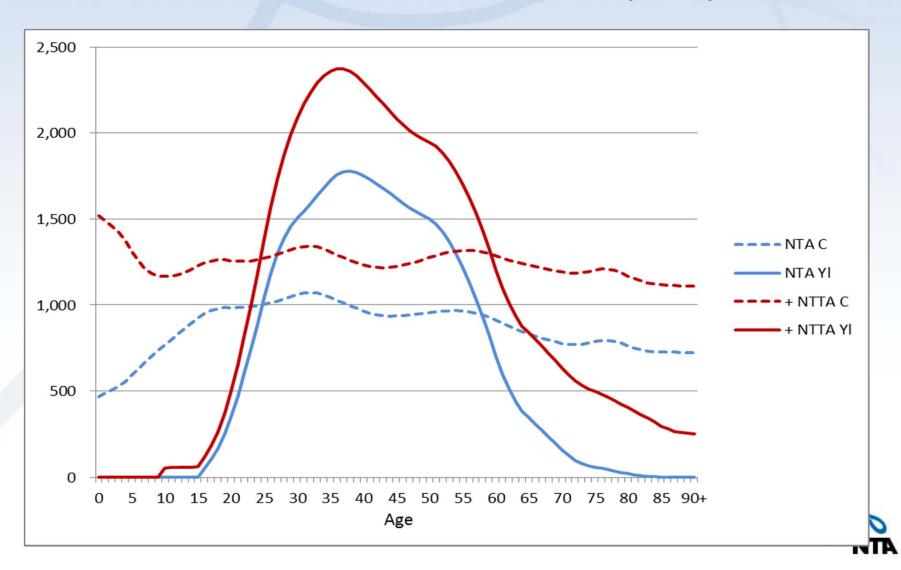


Time Spent on Home Production by Gender and Type (Hour : Minutes)

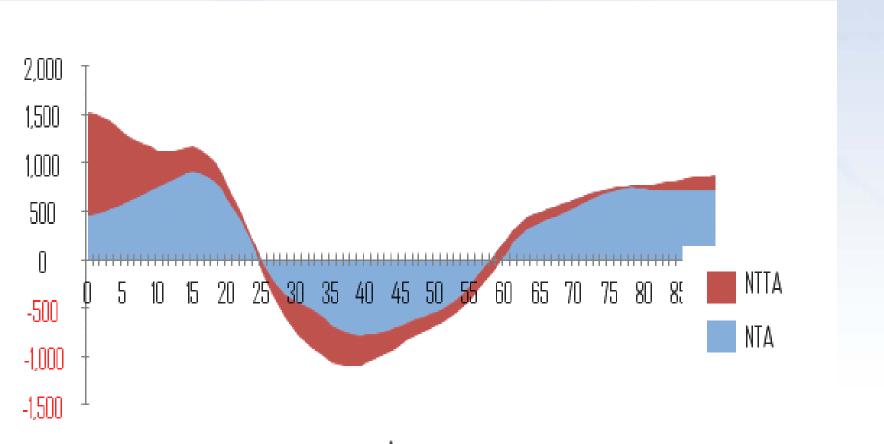
	Combined			Male			Female		
	l. Service	II. Care	III. Volunteer	I	=	Ш	-	II	III
Avg.	1:27	0:26	0:04	0:24	0:11	0:04	2:24	0:39	0:03
0-19	0:08	0:02	0:01	0:05	0:02	0:01	0:11	0:03	0:01
20-64	1:55	0:38	0:05	0:30	0:16	0:06	3:11	0:58	0:04
65+	2:12	0:15	0:05	0:51	0:12	0:04	3:03	0:17	0:05



Per capita Production and Consumption, S. Korea, 2004 (10,000 won per year)



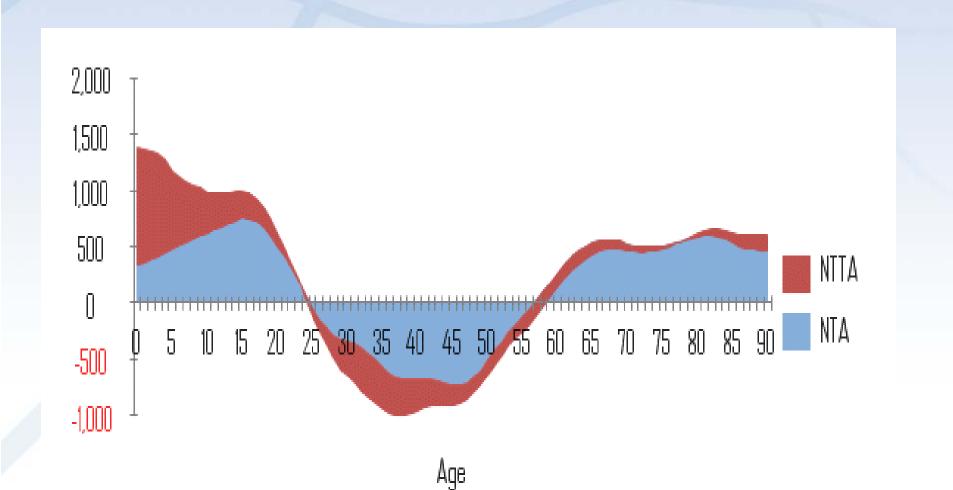
Per Capita Life Cycle Deficit





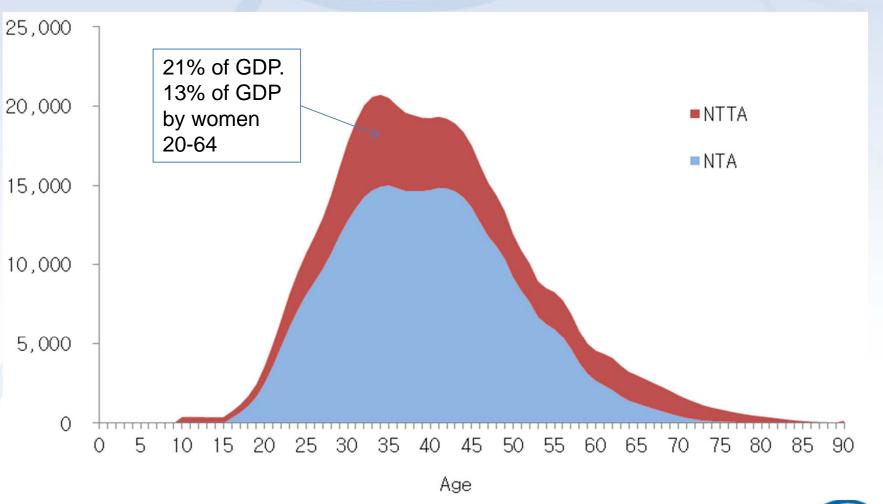


Per Capita Net Private Transfer



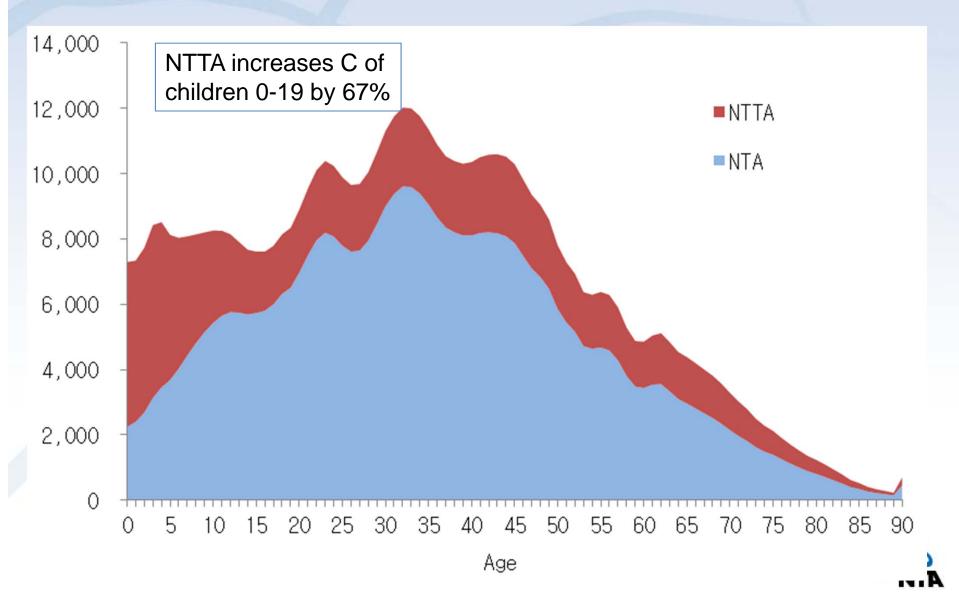


Aggregate Production (1 billion won)

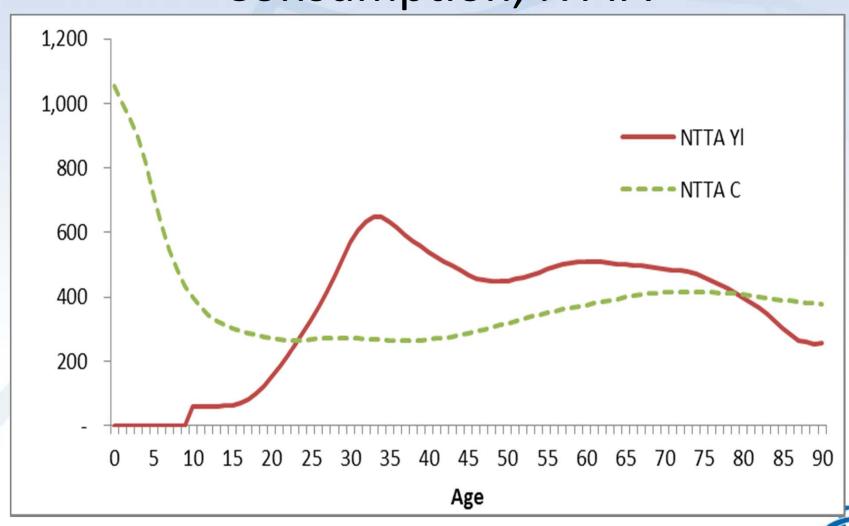




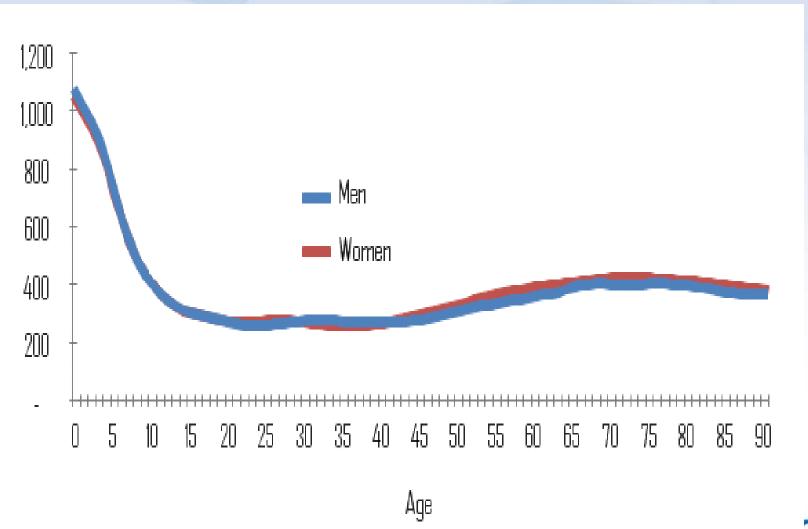
Aggregate Consumption



Per capita Production and Consumption, NTTA

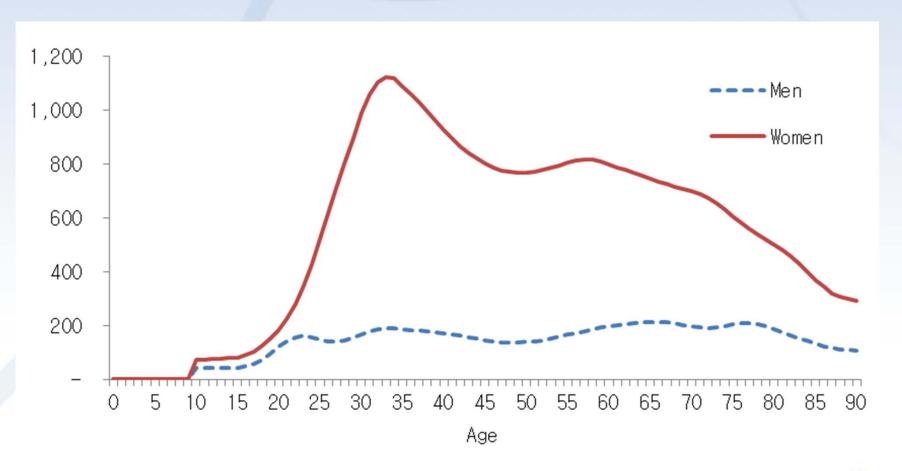


Per Capita Consumption by Gender, NTTA



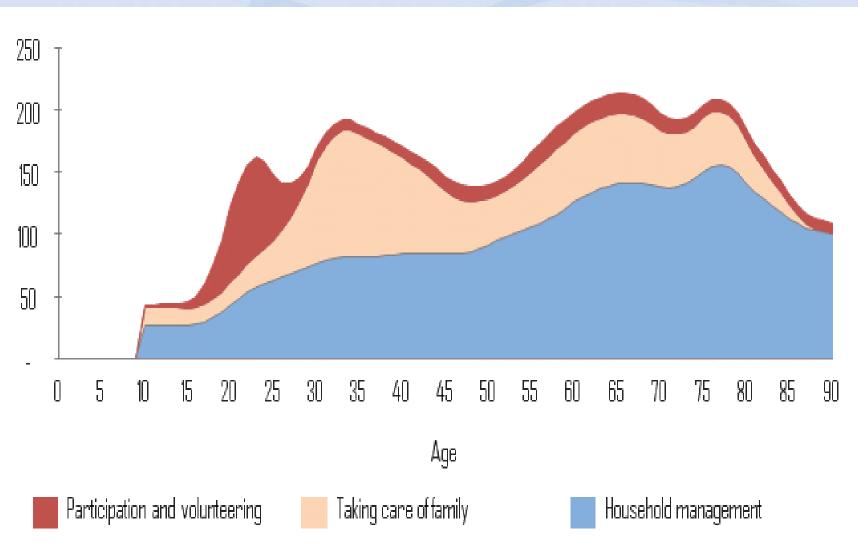


Per capita Production by Gender, NTTA



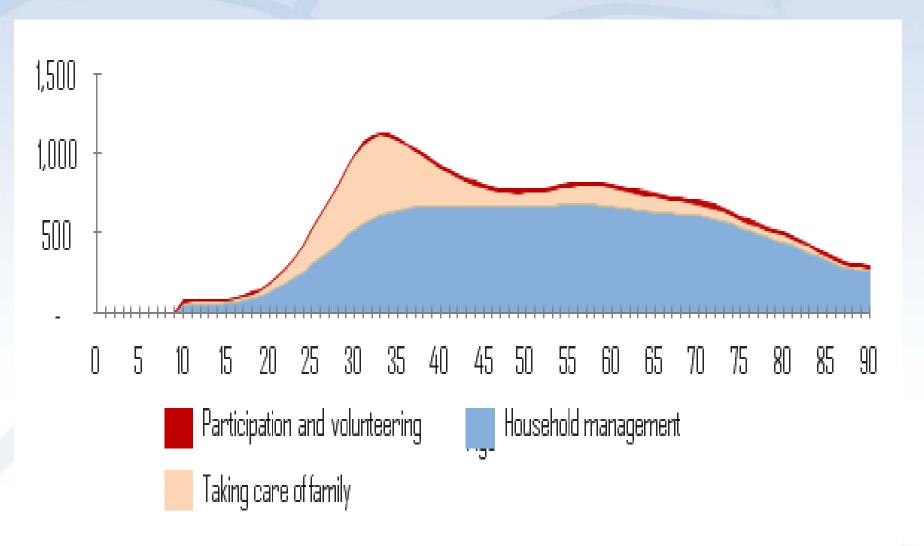


Per Capita Production by Type, Male, NTTA



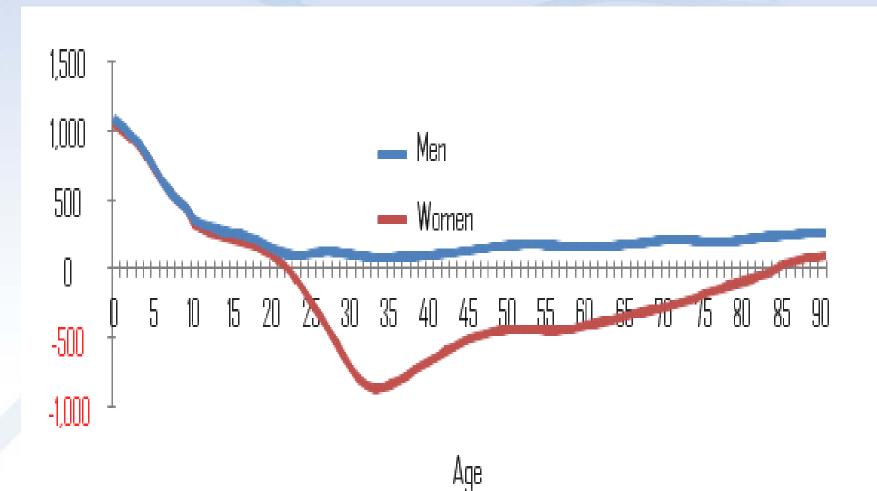


Per Capita Production by Type, Female, NTTA

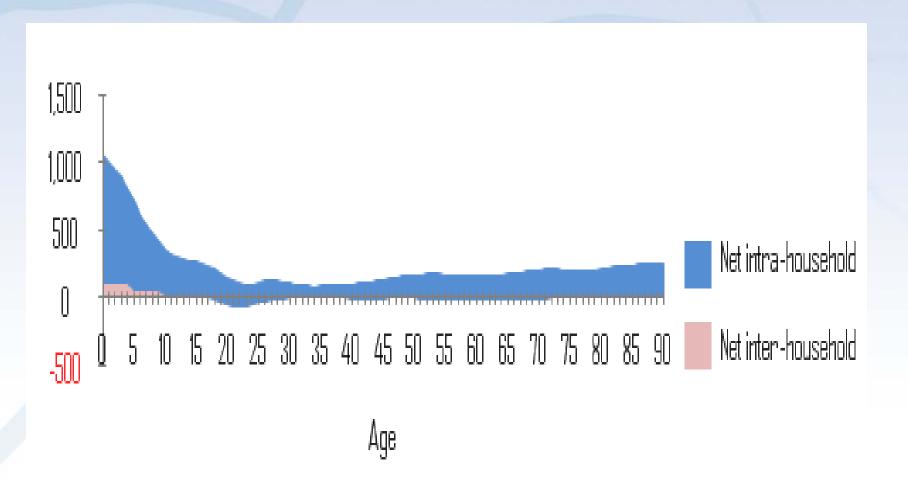




Per Capita Life Cycle Deficit by Gender, NTTA

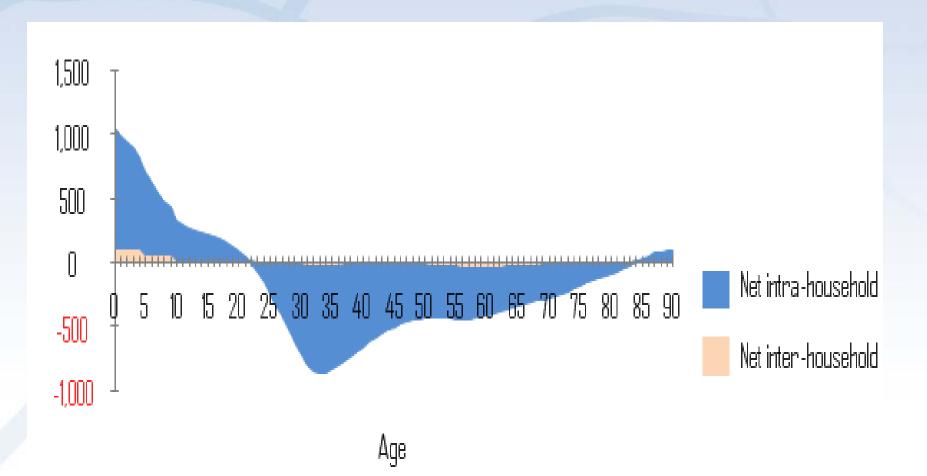


Per Capita Net Private Transfer, Male, NTTA





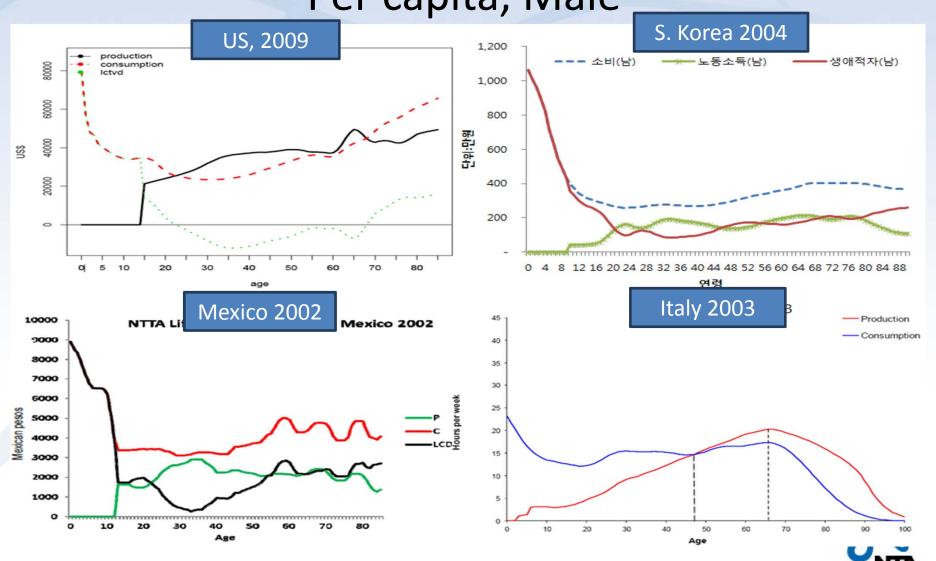
Per Capita Net Private Transfer, Female, NTTA



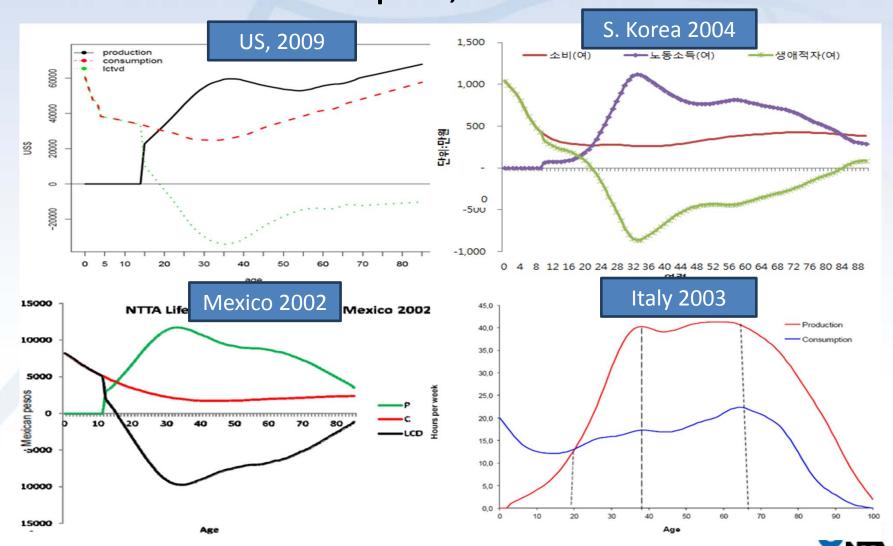


International Comparison of NTTA,

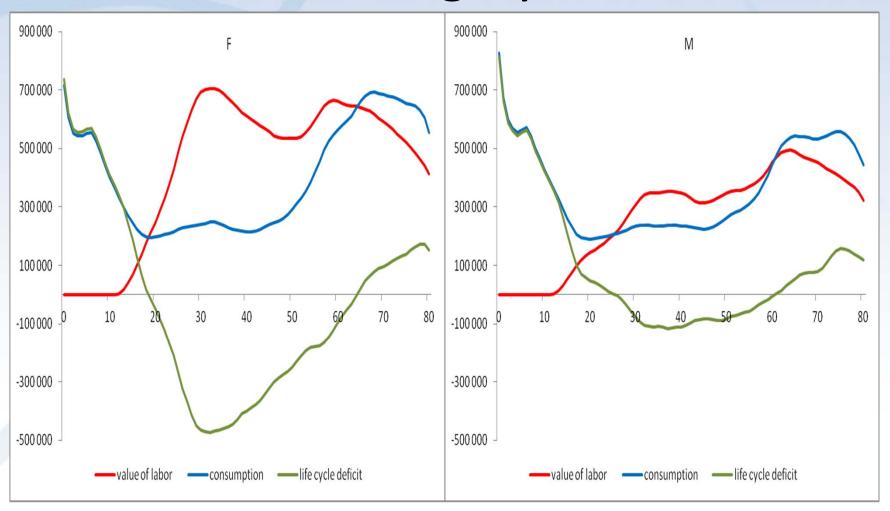
Per capita, Male



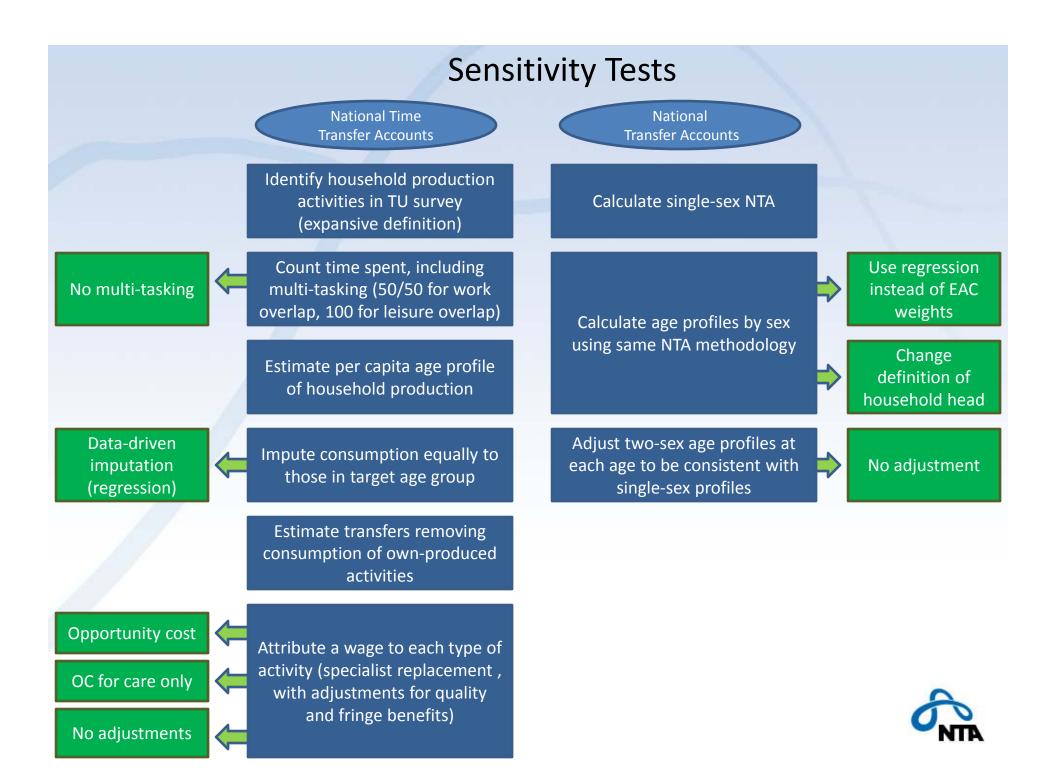
International Comparison of NTTA, Per capita, Female



Hungary







Sensitivity Tests

- Use multi-tasking (½ to primary and ½ to secondary)
 - Little change
- Opportunity cost method
 - Increase the NTTA by 66%!
- Regression method vs. equal distribution for age groups
 - Little change
- Quality adjustment (0.75 <-> 1)
 - Profiles become flat (or vice versa)



NTTA by Socio-economic Status

- LFP of wife
- Education level
- Marital status
- HHH income
- Attitude toward women's role
- Urban vs. rural
- Household composition

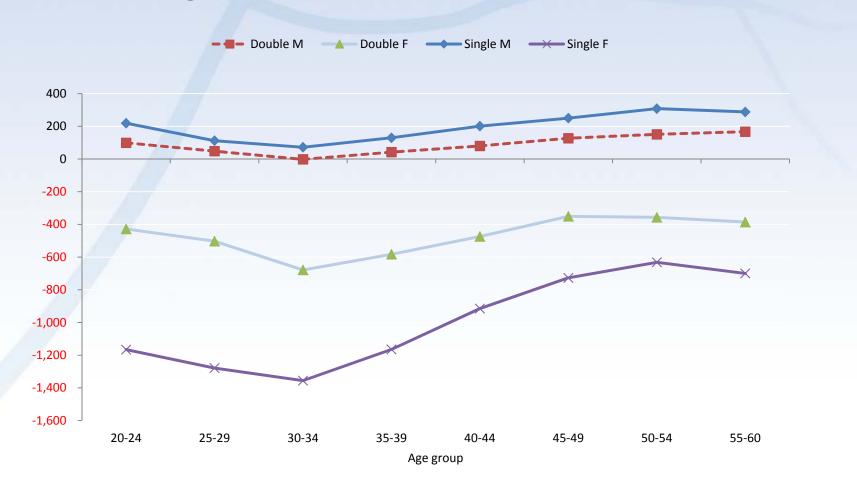


Time Spent on Home Production by Gender and Working Status

	Combined		Male		Female	
	Working	Not working	Working	Not working	Working	Not working
Avg.	1:46	2:48	0:45	0:48	3:01	3:59
0-19	0:31	0:20	0:25	0:14	0:35	0:26
20-64	1:45	4:44	0:45	1:26	3:03	5:52
65+	2:02	2:51	0:50	1:24	3:11	3:33

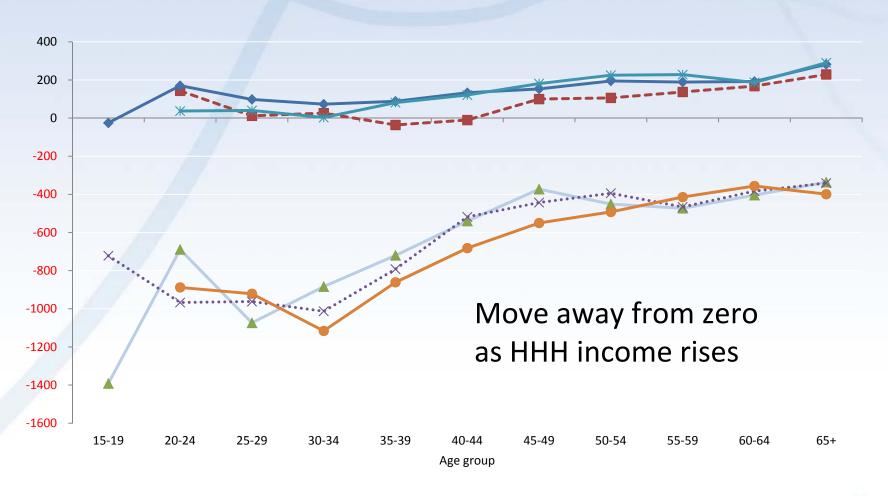


Per capita Net Private Transfers among Married Single Earner vs. Double Earners



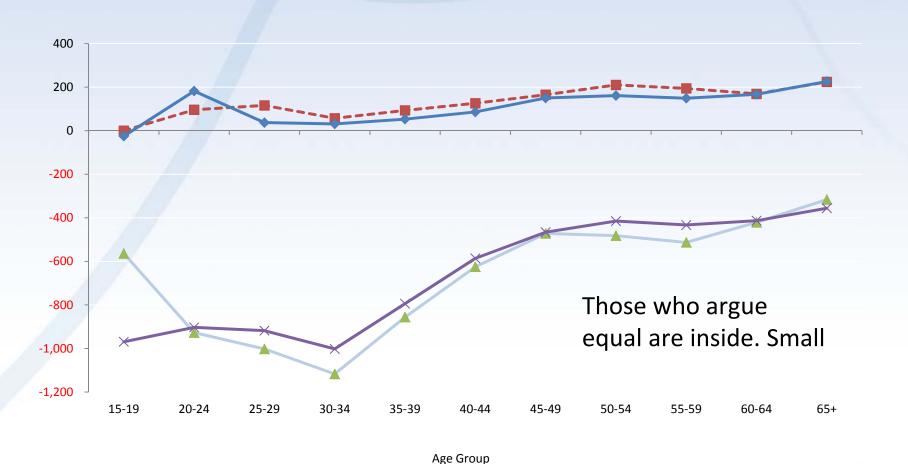


Per capita Net Private Transfers among Married By Household Head Income Level





Per capita Net Private Transfers among Married Attitude toward Women's Role





Conclusion

- Women in Korea greatly contribute to the national economy through non-market labor.
 - Net contributor for almost all adults (contrast to men)
 - Production by ages 20-64 accounts for 13% of GDP
 - Consumption per child increases by \$4,500 per year (67%)
 - Burden of support for each parents increases by \$1,600 (52%)
 - Some interesting differences by socio-economic status
- The consumption level in the life-cycle remains flat after retirement for NTTA, providing implication for the consumption retirement puzzle.

