

# Counting Women's Work and National Time Transfer Accounts (NTTA)

Gretchen Donehower  
University of California at Berkeley  
Project Director, Counting Women's Work

NTA Asia Regional Meeting  
Bangkok, Thailand

December 4, 2015



# Measuring the Generational Economy

- Policy development and analysis requires data and measurement
- Example of National Transfer Accounts, measuring the generational economy to understand long-term trend of aging population
- Now want to include gender to measure how men and women, and girls and boys, participate in the generational economy
- Changing gender roles also long-term trend

# But there is a problem...

*Measured in national accounts/NTA?*

	Goods	Services
Market	Yes	Yes
Non-Market	Yes	No

This work is included  
in national accounts:



This work is not:



# The solution...

- National Time Transfer Accounts (NTTA)
  - Measure time spent producing unpaid care and housework services using time use surveys
  - Value that time by a replacement wage
  - Apply NTA methodology to estimate age profiles

	Goods	Services
Market	NTA	NTA
Non-Market	NTA	NTTA

- Efforts ongoing throughout the NTA network
  - Counting Women's Work
  - Agenta (European countries)
  - Individual country teams



# Data Needs

## 1. NTA:

- NTA data sources, with sex variable

## 2. NTTA:

- Time use data
  - Best: 24-hour diary survey
  - Sufficient: questions on time spent in various activities
- Wage data

# Methodology

National Time  
Transfer Accounts

Identify household production  
activities in TU survey

Count time spent in those  
activities for each person with  
time use data

Estimate per capita age profile  
of household production in  
time units

Impute consumption by  
regression for care, equally for  
general household activities

Estimate transfers removing  
consumption of own-produced  
activities

Impute a market replacement  
wage to each type of activity  
(specialist replacement  
method)

National  
Transfer Accounts

Calculate single-sex NTA

Calculate age profiles by sex  
using same NTA methodology

Adjust two-sex age profiles at  
each age to be consistent with  
single-sex profiles

Use regression  
instead of  
consumer  
weights

Change  
definition of  
household head

One-child  
household care  
imputation  
method

Generalist  
replacement

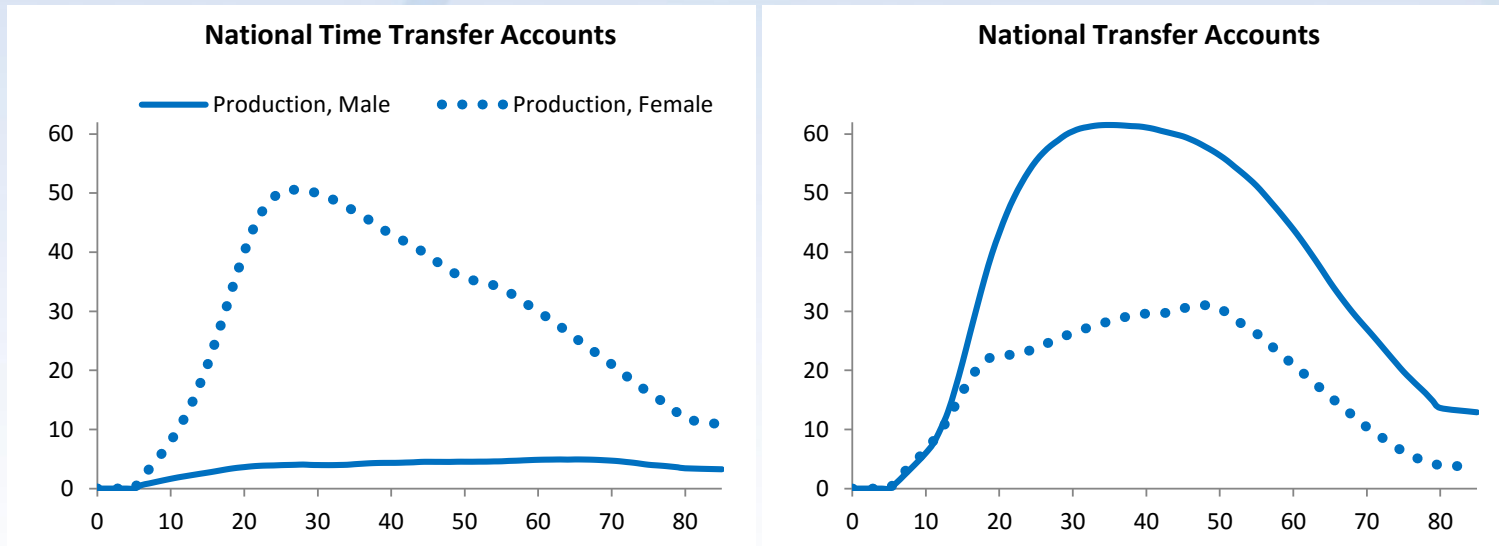
Adjust wages for  
relative  
productivity by  
age?

*Main methodology steps in  
sequence are in the blue boxes.*

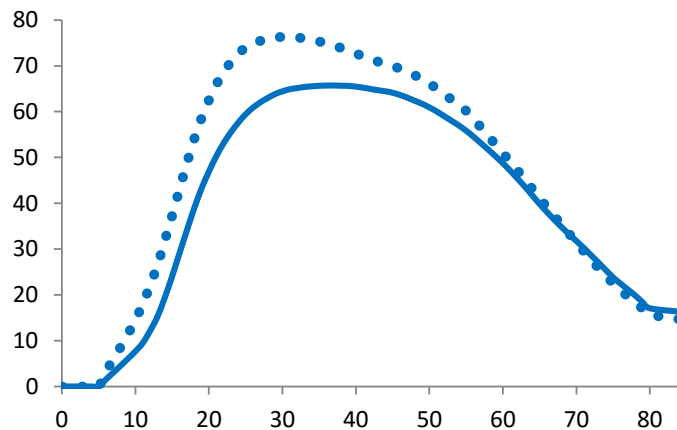
*Sensitivity analyses are in  
green.*

# Results

## India, 1998/99, time (hours per week)



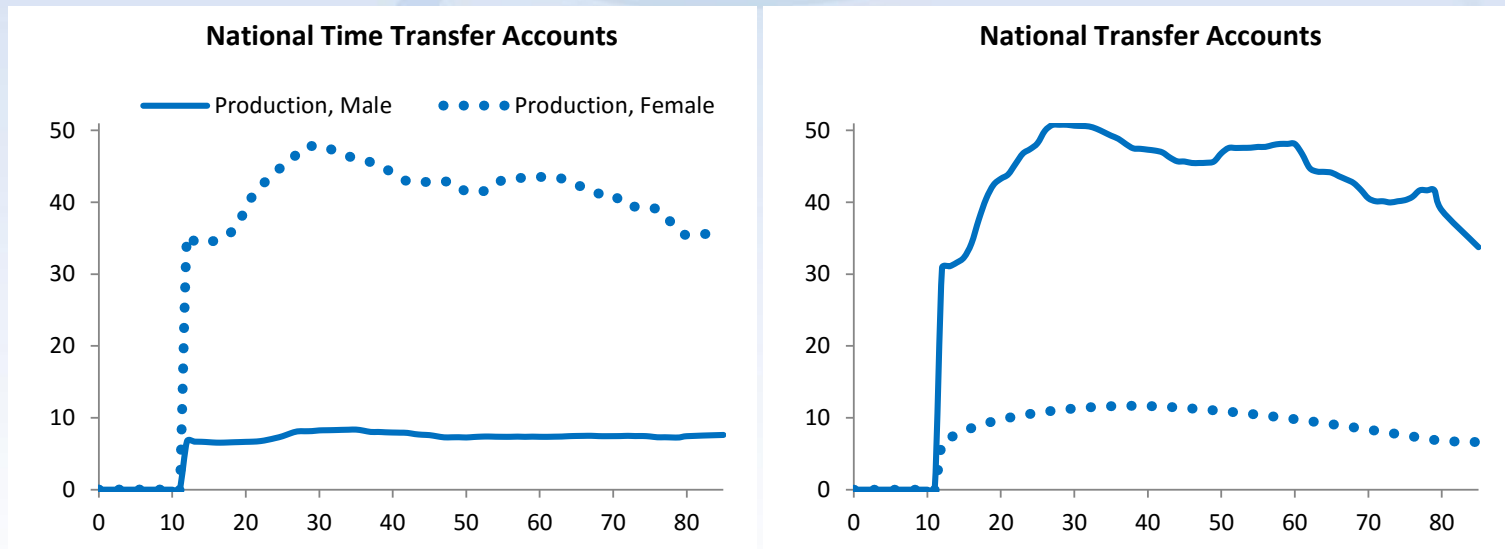
**Combined Total**



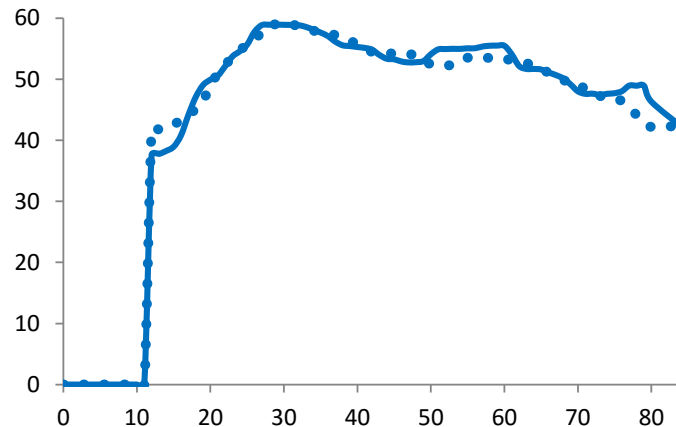


# Results

## Mexico, 2005, time (hours per week)

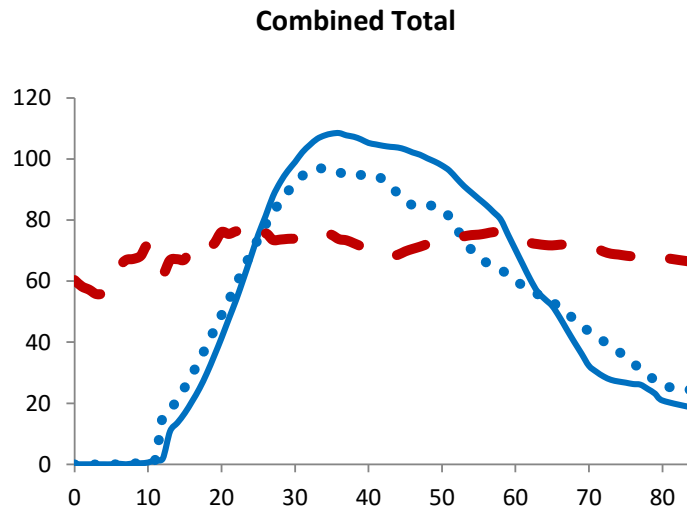
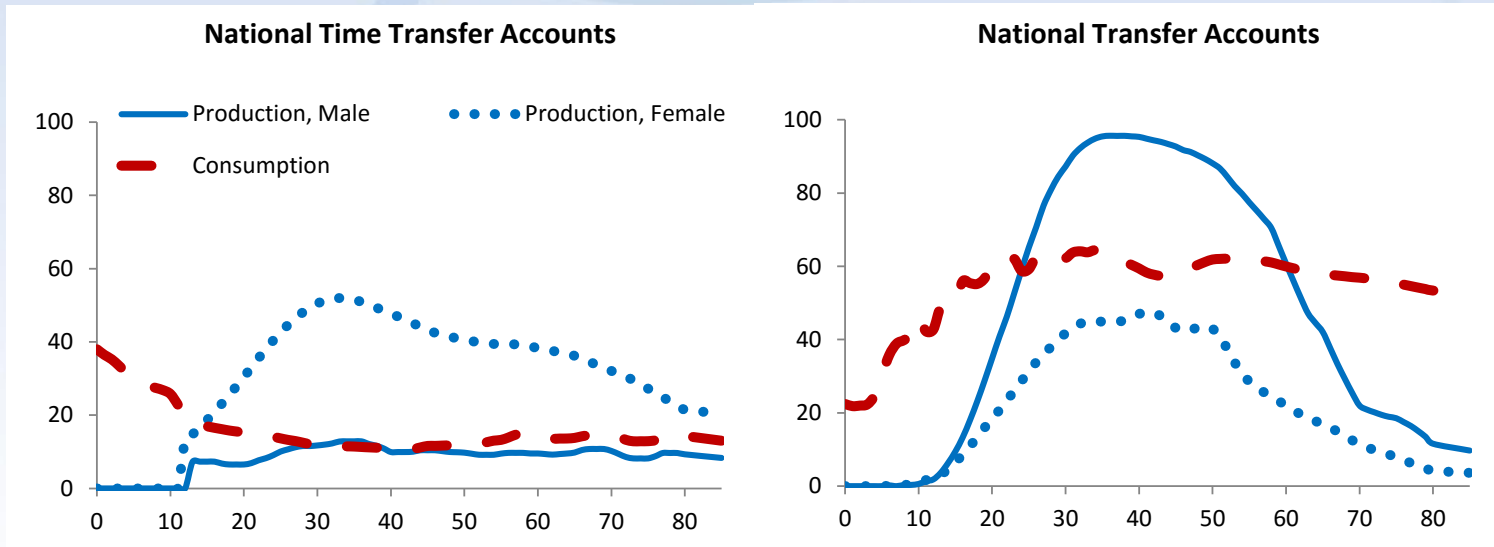


**Combined Total**



# Results

Mexico, 2005, money (1000s pesos/year)

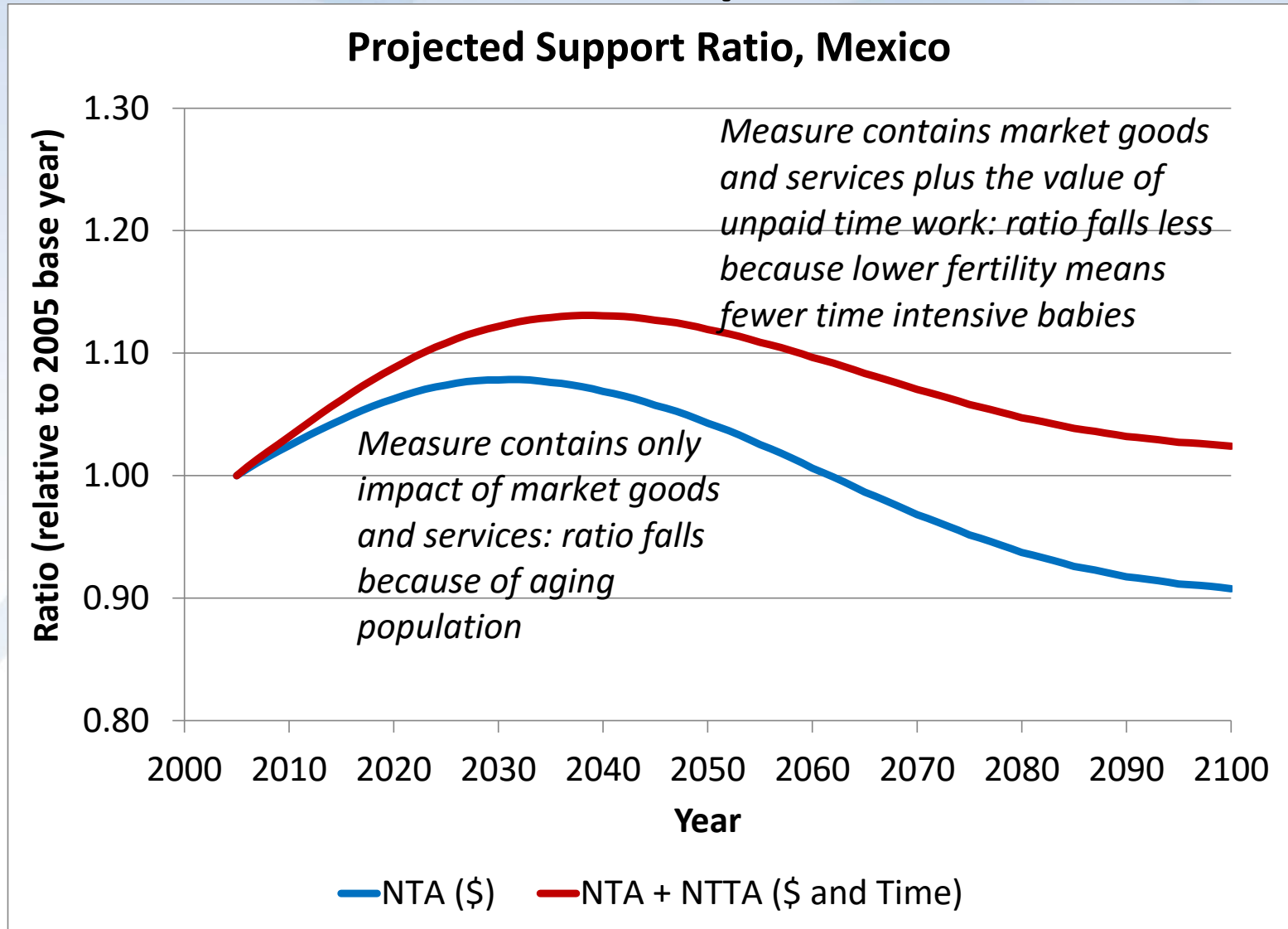


# What do we see?

- Gender specialization, but similar work time
  - less similarity in monetary units
- Unpaid care and housework creates a lot of value
  - Total NTTA production: 22% of GDP (compare to 42% for NTA labor income)
- Dependency looks different when you include cost of care
  - Youth dependency increases relative to old age

# Why does it matter?

## One example: DD



# What does it mean?

- Traditional demographic dividend is about “free money”
  - Policy message: consume it for only temporary gain, or invest it for permanent growth enhancement.
- Augmented demographic dividend is also about “free time”
  - Time could go to more intensive care, more market work, or more non-work
  - But what is the policy message?

# Policy message depends on local context

If the country is concerned about...	then invest the time in...	which could be achieved by these types of policies:
low parental HK investment in children	increasing parental care time for each child	subsidizing family leave
low female labor force participation	more market work	subsidizing paid care, fight discrimination/bias against working mothers
"time poverty"	more leisure or self-care	subsidizing paid care, infrastructure to lessen time burden of other household tasks



Developing NTA/NTTA indicators of these to measure countries in relative regional and global context



# COUNTING WOMEN'S WORK

[www.countingwomenswork.org](http://www.countingwomenswork.org)

# Random info for you technical folks...

- Stata now has an .ado file for Friedman's Super Smoother!
- `> search supsmooth`